



16 May 2014
Reference: 0237233

Massachusetts Department of Environmental Protection
Northeast Regional Office
Bureau of Waste Site Cleanup
205B Lowell Street
Wilmington, MA 01887

Re: Remedy Operation Status Submittal
November 2014 through April 2014
Former Raytheon Facility
Wayland, Massachusetts
Release Tracking Nos. 3-13302 and 3-22408
Tier IB Permit Nos. 133939 and W045278

Dear Sir or Madam:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) has prepared this Remedy Operation Status (ROS) Submittal for the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site; Figure 1). This report discusses groundwater remediation and monitoring activities conducted at the Site during the reporting period from 1 November 2014 to 30 April 2014 and is intended to satisfy the requirements of the Massachusetts Contingency Plan (MCP) at 310 CMR 40.0893.

BACKGROUND

This submittal incorporates the ongoing bioremediation activities in the Northern Area of the Site (Figure 2) with the ongoing Southern Area in situ chemical oxidation (ISCO) program. Northern Area Response Actions were formerly tracked under Release Tracking Number (RTN) 3-22408. These RTNs were linked under 3-13302 in a letter submitted to MassDEP on 9 June 2009.

RTN 3-13302

A Phase IV Completion Report was submitted for RTN 3-13302 on 24 November 2004 to MassDEP for portions of the approximately 83-acre property (Figure 2). The Phase IV Completion Report documented

wetland remediation activities conducted from October 2003 through October 2004, and groundwater remediation activities conducted from May through July 2004. Since completion of Phase IV activities and the Site entering into ROS, ROS reports were submitted to MassDEP on a semi-annual basis.

RTN 3-22408

A Phase IV Completion Report was submitted for RTN 3-22408 on 23 December 2008 for the chlorinated volatile organic compound (CVOC) impacts to Northern Area soil and groundwater. Beginning with the 9 June 2009 report, activities formerly conducted under this RTN have been summarized jointly with those under RTN 3-13302 in the ROS submittals described above.

Current Property Conditions

The property is currently under redevelopment by the property owner. All pre-existing buildings have been razed, the Site has been graded, and new buildings are under construction or are now completed and occupied. Most of the Southern Area monitoring wells were decommissioned prior to the redevelopment, an effort that was described in previous ROS submittals. Details regarding the newly installed monitoring well network were reported in the 15 May 2013 ROS report. A site plan showing the newly installed monitoring wells in the Southern Area is included as Figure 3.

NORTHERN AREA BIOREMEDIATION ACTIVITIES

Northern Area bioremediation Response Actions were conducted by Innovative Engineering Solutions, Inc. of Walpole, Massachusetts (IESI) during this reporting period. Response actions during this reporting period included operation of the Enhanced Anaerobic Dechlorination (EAD) system. Appendix A includes a memorandum prepared by IESI to document those activities.

NORTHERN AREA GROUNDWATER SAMPLING

Quarterly groundwater sampling in the Northern Area was conducted by IESI in January and April 2014. Groundwater sampling results are summarized in Appendix A.

SOUTHERN AREA GROUNDWATER SAMPLING

Semi-annual groundwater sampling in the Southern Area was conducted by ERM in March 2014. Groundwater monitoring activities in the Southern area included:

- Collection of groundwater samples via passive diffusion bags (PDBs) and hydrasleeves for laboratory analyses; and
- Groundwater gauging.

In March 2014, passive diffusion bags and hydrasleeves were used to sample groundwater samples at the site for analysis of VOCs. PDBs are constructed of a semi-permeable membrane that allows groundwater to pass through the membrane and into the PDB, thereby allowing collection of a sample from the aquifer at equilibrium conditions. PDBs were installed in the middle of each well screen and were allowed to equilibrate with the surrounding groundwater for at least 14 days before they were sampled. Grab samples for 1,4-dioxane were collected using hydrasleeves. Hydrasleeves are a no-purge sampling method that allows for sampling discrete intervals without causing mixing of the water column in the well during sampling. The hydrasleeves were deployed after the PDBs were sampled and were opened three days after they were deployed in order to collect a representative grab sample from the middle of the well-screen.

Groundwater samples were analyzed for VOCs by USEPA Method 8260C and 1,4-dioxane by USEPA Method 8260C-SIM or USEPA Method 522 by Test America, of Buffalo, NY. Groundwater gauging data for the March 2014 sampling event is included in Table 1, and a groundwater contour map for the Southern Area is included as Figure 4. A summary of the laboratory analytical data from the Southern Area monitoring wells is included in Table 2. Groundwater laboratory analytical reports are provided in Appendix B.

Results of the groundwater gauging in the Southern Area indicate that groundwater is generally flowing to the southwest toward the Sudbury River (Figure 4).

Groundwater monitoring results indicate that several of the Southern Area monitoring wells exceeded the Massachusetts Contingency Plan (MCP) GW-1 criteria for trichloroethene (TCE). There were no other exceedences of the MCP GW-1 criteria detected in groundwater during this sampling event. Concentrations of TCE in the Southern area continue to decrease over time and concentrations in select monitoring wells are below or approaching the MCP GW-1 criteria. Figure 5 summarizes TCE detections in the Southern Area monitoring wells during the March 2014 sampling event.

The Massachusetts Department of Environmental Protection (MassDEP) ROS transmittal form (BWSC 108) and Remedial Monitoring Reports (RMRs) were filed electronically via eDEP. Copies of the BWSC forms are included in Appendix C.

If you have any questions or comments in regard to this submittal please contact the undersigned at (617) 646-7800.

Sincerely,



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



Lyndsey Colburn, P.G.
Project Manager

encl:

Table 1	Summary of Groundwater Gauging Data - Southern Area
Table 2	Summary of Groundwater Analytical Data - Southern Area
Figure 1	Site Locus Map
Figure 2	Remediation Site Plan
Figure 3	Monitoring Well Locations - Southern Area
Figure 4	Upper Potentiometric Surface Map - Southern Area
Figure 5	March 2014 TCE Concentrations in Groundwater - Southern Area
Appendix A	IESI Memorandum
Appendix B	Laboratory Analytical Reports
Appendix C	BWSC Transmittal Forms

cc: Jonathan Hone, Raytheon
Benson Gould, CMG Environmental
Brian Monahan, Town of Wayland Conservation Commission
Anthony DeLuca, Koffler Group
Richard Gass, Wayland Meadows
Nancy Roberts, Roberts Consulting
Sami Fam, IESI
Public Repositories

Tables

Table 1
Summary of Groundwater Gauging Data - Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Well	Measurement Date	Historical Reference Elevation	Depth to Water	Groundwater Elevation
MW-1001B	01-Oct-13	135.11	16.37	118.74
MW-1001M	01-Oct-13	135.06	15.45	119.61
	27-Mar-14		14.9	120.16
MW-1002B	01-Oct-13	135.44	16.78	118.66
	27-Mar-14		15.9	119.54
MW-1003	01-Oct-13	132.53	13.11	119.42
	27-Mar-14		12.3	120.23
MW-1004	01-Oct-13	134.61	16.1	118.51
	27-Mar-14		14.96	119.65
MW-1005	01-Oct-13	134.28	15.56	118.72
	27-Mar-14		14.7	119.58
MW-1006	01-Oct-13	135.21	15.11	120.1
	27-Mar-14		15.48	119.73
MW-1008	01-Oct-13	134.84	16.38	118.46
	27-Mar-14		14.51	120.33
MW-1009	01-Oct-13	134.66	17.9	116.76
	27-Mar-14		16.6	118.06
MW-1010D	01-Oct-13	133.4	17.42	115.98
	27-Mar-14		15.9	117.5
MW-1010M	01-Oct-13	133.43	15.62	117.81
	27-Mar-14		16	117.43
MW-1011	02-Oct-13	133.18	16.56	116.62
	27-Mar-14		15.35	117.83
MW-1013	01-Oct-13	133.26	14.63	118.63
	27-Mar-14		14.83	118.43
MW-1014	01-Oct-13	133.37	16.81	116.56
MW-1015D	01-Oct-13	133.61	18.24	115.37
	27-Mar-14		16.53	117.08
MW-1016D	01-Oct-13	133.4	18.01	115.39
	27-Mar-14		16.35	117.05
MW-1017D	01-Oct-13	133.15	17.71	115.44
	27-Mar-14		16.1	117.05
MW-1018	01-Oct-13	133.55	18.36	115.19
	27-Mar-14		16.88	116.67
MW-1019B	01-Oct-13	131.51	16.13	115.38
	27-Mar-14		14.6	116.91
MW-1020	01-Oct-13	132.92	18.41	114.51
	27-Mar-14		16.7	116.22

Table 1
Summary of Groundwater Gauging Data - Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

MW-1022	01-Oct-13		18.36	113.86
	27-Mar-14	132.22	16.32	115.9
MW-1023	01-Oct-13		17.92	113.84
	27-Mar-14	131.76	15.89	115.87
MW-1024D	01-Oct-13		15.98	114.68
	27-Mar-14	130.66	14.14	116.52
MW-1025D	01-Oct-13		16.1	114.82
	27-Mar-14	130.92	14.32	116.6
MW-1025M	01-Oct-13		16.88	113.87
	27-Mar-14	130.75	14.86	115.89
MW-1026D	01-Oct-13	131.55	16.54	115.01
MW-1027	01-Oct-13		13.22	113.65
	27-Mar-14	126.87	11.01	115.86
MW-1028	01-Oct-13		14.44	113.55
	27-Mar-14	127.99	12.25	115.74
MW-1030	01-Oct-13		17.78	113.73
	27-Mar-14	131.51	15.63	115.88
MW-1031	01-Oct-13		16.87	113.69
	27-Mar-14	130.56	14.72	115.84
MW-1032	01-Oct-13		16.55	113.53
	27-Mar-14	130.08	14.41	115.67
MW-1033	01-Oct-13		6.62	113.37
	27-Mar-14	119.99	4.71	115.28
MW-1034	01-Oct-13		9.85	113.35
	27-Mar-14	123.2	8.45	114.75
MW-217D	01-Oct-13		14.96	114.91
	27-Mar-14	129.87	13.19	116.68
MW-217M	01-Oct-13		15.61	114.6
	27-Mar-14	130.21	13.78	116.43
MW-217S	01-Oct-13		14.98	114.85
	27-Mar-14	129.83	13.27	116.56

Notes:

All measurements are in feet

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1001B 21-Mar-13 N
Method EPA522, µg/L		
1,4-Dioxane	3	
Method SW8260B_SIM, µg/L		
1,4-Dioxane	3	
Method SW8260C, µg/L		
1,1,1-Trichloroethane	200	< 1.0
1,1-Dichloroethane	70	< 1.0
1,1-Dichloroethene	7	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0
1,2-Dichlorobenzene	600	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0
1,4-Dichlorobenzene	5	< 1.0
1,4-Dioxane	3	< 50
Acetone	6300	< 50
Benzene	5	< 1.0
Carbon disulfide	NS	< 10
Chlorobenzene	100	< 1.0
Chloroform	70	< 1.0
cis-1,2-Dichloroethene	70	< 1.0
Cymene	NS	< 1.0
Freon 11	NS	< 1.0
Methyl tert-butyl ether	70	< 1.0
Naphthalene	140	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0
Tetrachloroethene	5	< 1.0
trans-1,2-Dichloroethene	100	< 1.0
Trichloroethene	5	< 1.0
Method SW8260C_SIM, µg/L		
1,4-Dioxane	3	

Notes:

< = Compound not detected. Reportable detection limit shown.

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1001M 21-Mar-13 N
Method EPA522, µg/L		
1,4-Dioxane	3	
Method SW8260B_SIM, µg/L		
1,4-Dioxane	3	
Method SW8260C, µg/L		
1,1,1-Trichloroethane	200	< 1.0
1,1-Dichloroethane	70	< 1.0
1,1-Dichloroethene	7	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0
1,2-Dichlorobenzene	600	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0
1,4-Dichlorobenzene	5	< 1.0
1,4-Dioxane	3	< 50
Acetone	6300	< 50
Benzene	5	< 1.0
Carbon disulfide	NS	< 10
Chlorobenzene	100	< 1.0
Chloroform	70	< 1.0
cis-1,2-Dichloroethene	70	11
Cymene	NS	< 1.0
Freon 11	NS	< 1.0
Methyl tert-butyl ether	70	< 1.0
Naphthalene	140	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0
Tetrachloroethene	5	< 1.0
trans-1,2-Dichloroethene	100	< 1.0
Trichloroethene	5	8.2
Method SW8260C_SIM, µg/L		
1,4-Dioxane	3	

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1002B 22-Mar-13 N	MW-1002B 10-Apr-14 N
	MA-GW-1		
Method EPA522, µg/L			
1,4-Dioxane	3		
Method SW8260B_SIM, µg/L			
1,4-Dioxane	3		
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50
Acetone	6300	< 50	87
Benzene	5	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0
Method SW8260C_SIM, µg/L			
1,4-Dioxane	3		

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1002M 22-Mar-13 N	MW-1002M 02-Oct-13 N
Method EPA522, µg/L			
1,4-Dioxane	3		
Method SW8260B_SIM, µg/L			
1,4-Dioxane	3		
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50
Acetone	6300	< 50	< 50
Benzene	5	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0
Method SW8260C_SIM, µg/L			
1,4-Dioxane	3		

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1003	MW-1003	MW-1003
		22-Mar-13 N	03-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	80
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	3.2	3.4	3.3
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	4.4	3.8	5.2
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1004 21-Mar-13 N	MW-1004 02-Oct-13 N	MW-1004 10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	82
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1005	MW-1005	MW-1005	MW-1005
		19-Mar-13 N	01-Oct-13 N	10-Apr-14 N	10-Apr-14 FD
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	84	83
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	3.2	12	3.6	3.6
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	1.2	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	17	14	13	12
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1006 20-Mar-13 N	MW-1006 02-Oct-13 N	MW-1006 10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50 *	< 50
Acetone	6300	< 50	< 50	84
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	1.1	< 1.0
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:
 < = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1008	MW-1008	MW-1008
		19-Mar-13 N	03-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	83
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	4.0	3.4	3.1
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:
 < = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1009 21-Mar-13 N	MW-1009 02-Oct-13 N	MW-1009 10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	4.2	< 1.0
1,2-Dichlorobenzene	600	2.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	1.6	< 1.0
1,4-Dichlorobenzene	5	1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	83
Benzene	5	1.5	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	2.2	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	1.0	1.2
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	5.2	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	1.9	1.3	< 1.0
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID	MW-217D	MW-217D	MW-217D	MW-217D
	Sample Date	21-Mar-13	21-Mar-13	03-Oct-13	10-Apr-14
	Sample Type	N	FD	N	N
	MA-GW-1				
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	1.9	1.9	3.0	< 1.0
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-217M 21-Mar-13 N	MW-217M 03-Oct-13 N	MW-217M 10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 4.0	< 1.0
1,1-Dichloroethane	70	2.0	< 4.0	2.6
1,1-Dichloroethene	7	< 1.0	< 4.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 4.0	< 1.0
1,2-Dichlorobenzene	600	1.4	< 4.0	1.8
1,3,5-Trimethylbenzene	NS	< 1.0	< 4.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 4.0	< 1.0
1,4-Dioxane	3	< 50	< 200	< 50
Acetone	6300	< 50	< 200	< 50
Benzene	5	< 1.0	< 4.0	< 1.0
Carbon disulfide	NS	< 10	< 40	< 10
Chlorobenzene	100	< 1.0	< 4.0	< 1.0
Chloroform	70	< 1.0	< 4.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 4.0	1.1
Cymene	NS	< 1.0	< 4.0	< 1.0
Freon 11	NS	< 1.0	< 4.0	< 1.0
Methyl tert-butyl ether	70	250	250	10
Naphthalene	140	< 5.0	< 20	< 5.0
tert-Amyl Methyl Ether	NS	86	76	5.6
Tetrachloroethene	5	< 1.0	< 4.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 4.0	< 1.0
Trichloroethene	5	6.4	5.1	8.9
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-217S 21-Mar-13 N	MW-217S 03-Oct-13 N	MW-217S 03-Oct-13 FD	MW-217S 10-Apr-14 N
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	< 50	70
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1010D	MW-1010D	MW-1010D	MW-1010D
		20-Mar-13 N	02-Oct-13 N	02-Oct-13 FD	10-Apr-14 N
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	1.4	1.4	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	< 50	83
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	1.1	3.4	3.4	1.3
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	7.1	34	32	5.3
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1010M	MW-1010M	MW-1010M
		20-Mar-13 N	02-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	77
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	1.1	< 1.0
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1011 02-Oct-13 N	MW-1011 10-Apr-14 N	MW-1011 14-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3	0.20		0.22
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	
1,1-Dichloroethene	7	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	
1,4-Dioxane	3	< 50	< 50	< 1.6
Acetone	6300	< 50	80	
Benzene	5	< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 10	
Chlorobenzene	100	< 1.0	< 1.0	
Chloroform	70	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	4.0	12	
Cymene	NS	< 1.0	< 1.0	
Freon 11	NS	< 1.0	< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 1.0	
Naphthalene	140	< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	
Trichloroethene	5	12	22	
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1013	MW-1013	MW-1013
		22-Mar-13 N	03-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	87
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1014 22-Mar-13 N	MW-1014 03-Oct-13 N
Method EPA522, µg/L			
1,4-Dioxane	3		
Method SW8260B_SIM, µg/L			
1,4-Dioxane	3		
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50
Acetone	6300	< 50	< 50
Benzene	5	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	1.4
Cymene	NS	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0
Trichloroethene	5	4.0	21
Method SW8260C_SIM, µg/L			
1,4-Dioxane	3		

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1015D	MW-1015D	MW-1015D	MW-1015D
		20-Mar-13 N	02-Oct-13 N	02-Oct-13 FD	10-Apr-14 N
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50 *	< 50 *	< 50
Acetone	6300	< 50	< 50	< 50	82
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	1.5	1.5	1.4	< 1.0
cis-1,2-Dichloroethene	70	2.0	1.8	1.8	1.9
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	3.4	3.3	3.1	2.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	34	33	33	23
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID	MW-1016D	MW-1016D	MW-1016D	MW-1016D
	Sample Date	22-Mar-13	03-Oct-13	10-Apr-14	10-Apr-14
	Sample Type	N	N	N	FD
	MA-GW-1				
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	2.2	1.5	1.5
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	80	75
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	4.1	18	42	41
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	1.4	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	28	35	1.1	1.0
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1017D	MW-1017D	MW-1017D
		19-Mar-13 N	01-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	78
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	8.1	19	11
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	41	53	29
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1018	MW-1018	MW-1018	MW-1018
		19-Mar-13 N	02-Oct-13 N	17-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	94	17	< 1.0	42
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	7.3	1.0	< 1.0	3.7
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	< 50	81
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	1.5	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	7.6	10	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	300	59	< 1.0	170
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1019B	MW-1019B	MW-1019B
		19-Mar-13 N	01-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	79
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	5.9	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	26	< 1.0	2.1
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID	MW-1020	MW-1020	MW-1020	MW-1020	MW-1020
	Sample Date	19-Mar-13	01-Oct-13	01-Oct-13	10-Apr-14	14-Apr-14
	Sample Type	N	N	FD	N	N
	MA-GW-1					
Method EPA522, µg/L						
1,4-Dioxane	3	0.60	0.46			0.53
Method SW8260B_SIM, µg/L						
1,4-Dioxane	3					
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	2.1	67	68	1.6	
1,1-Dichloroethane	70	< 1.0	2.1	2.2	1.0	
1,1-Dichloroethene	7	< 1.0	4.7	4.8	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dioxane	3	< 50	< 50	< 50	< 50	< 1.6
Acetone	6300	< 50	< 50	< 50	81	
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	< 1.0	1.3	1.4	< 1.0	
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0	
Methyl tert-butyl ether	70	11	2.0	2.0	< 1.0	
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	5	16	280	270	21	
Method SW8260C_SIM, µg/L						
1,4-Dioxane	3					

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1022 20-Mar-13 N	MW-1022 20-Mar-13 FD	MW-1022 01-Oct-13 N	MW-1022 10-Apr-14 N	MW-1022 14-Apr-14 N
Method EPA522, µg/L						
1,4-Dioxane	3	< 0.20		< 0.20		< 0.20
Method SW8260B_SIM, µg/L						
1,4-Dioxane	3	< 1.6				
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dioxane	3	< 50	< 50	< 50	< 50	< 1.6
Acetone	6300	< 50	< 50	< 50	79	
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	1.0	1.1	< 1.0	< 1.0	
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0	
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	5	2.7	2.9	3.1	3.0	
Method SW8260C_SIM, µg/L						
1,4-Dioxane	3					

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID	MW-1023	MW-1023	MW-1023	MW-1023
	Sample Date	20-Mar-13	01-Oct-13	10-Apr-14	14-Apr-14
	Sample Type	N	N	N	N
	MA-GW-1				
Method EPA522, µg/L					
1,4-Dioxane	3	0.65	0.81		< 0.20
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3	< 1.6			
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	
1,4-Dioxane	3	< 50	< 50	< 50	< 1.6
Acetone	6300	< 50	< 50	80	
Benzene	5	< 1.0	< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	6.6	6.6	3.5	
Cymene	NS	< 1.0	< 1.0	< 1.0	
Freon 11	NS	< 1.0	< 1.0	< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	
Naphthalene	140	< 5.0	< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	
Trichloroethene	5	38	46	13	
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID	MW-1024D	MW-1024D	MW-1024D	MW-1024D
	Sample Date	22-Mar-13	03-Oct-13	10-Apr-14	14-Apr-14
	Sample Type	N	N	N	N
	MA-GW-1				
Method EPA522, µg/L					
1,4-Dioxane	3	0.40	0.55		0.24
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3	< 1.6			
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	
1,4-Dioxane	3	< 50	< 50	< 50	< 1.6
Acetone	6300	< 50	< 50	85	
Benzene	5	< 1.0	< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	13	18	4.2	
Cymene	NS	< 1.0	< 1.0	< 1.0	
Freon 11	NS	< 1.0	< 1.0	< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	
Naphthalene	140	< 5.0	< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	
Trichloroethene	5	73	72	14	
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3		< 1.6		

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID	MW-1025D	MW-1025D	MW-1025D	MW-1025D
	Sample Date	21-Mar-13	03-Oct-13	10-Apr-14	14-Apr-14
	Sample Type	N	N	N	N
	MA-GW-1				
Method EPA522, µg/L					
1,4-Dioxane	3	0.31	0.39		< 0.20
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3	< 1.6			
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 2.0	< 1.0	
1,1-Dichloroethane	70	< 1.0	< 2.0	< 1.0	
1,1-Dichloroethene	7	< 1.0	< 2.0	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 2.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 2.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 2.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 2.0	< 1.0	
1,4-Dioxane	3	< 50	< 100	< 50	< 1.6
Acetone	6300	< 50	< 100	< 50	
Benzene	5	< 1.0	< 2.0	< 1.0	
Carbon disulfide	NS	< 10	< 20	< 10	
Chlorobenzene	100	< 1.0	< 2.0	< 1.0	
Chloroform	70	< 1.0	< 2.0	< 1.0	
cis-1,2-Dichloroethene	70	17	17	25	
Cymene	NS	< 1.0	< 2.0	< 1.0	
Freon 11	NS	< 1.0	< 2.0	< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 2.0	< 1.0	
Naphthalene	140	< 5.0	< 10	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 10	< 5.0	
Tetrachloroethene	5	< 1.0	< 2.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 2.0	< 1.0	
Trichloroethene	5	110	110	< 1.0	
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3		< 1.6		

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1025M	MW-1025M	MW-1025M	MW-1025M	MW-1025M	MW-1025M
		20-Mar-13 N	03-Oct-13 N	17-Oct-13 N	10-Apr-14 N	10-Apr-14 FD	14-Apr-14 N
Method EPA522, µg/L							
1,4-Dioxane	3						1.2
Method SW8260B_SIM, µg/L							
1,4-Dioxane	3	6.1					
Method SW8260C, µg/L							
1,1,1-Trichloroethane	200	14	3.3	< 2.0	2.9	2.9	
1,1-Dichloroethane	70	4.5	2.3	2.0	< 2.0	1.8	
1,1-Dichloroethene	7	6.6	9.2	< 2.0	4.8	4.9	
1,2,4-Trimethylbenzene	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
1,4-Dioxane	3	< 50	< 100	< 100	< 100	< 50	< 1.6
Acetone	6300	< 50	< 100	< 100	< 100	81	
Benzene	5	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
Carbon disulfide	NS	< 10	< 20	< 20	< 20	< 10	
Chlorobenzene	100	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
Chloroform	70	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
cis-1,2-Dichloroethene	70	2.4	< 2.0	< 2.0	3.4	3.6	
Cymene	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
Freon 11	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
Methyl tert-butyl ether	70	23	12	< 2.0	< 2.0	< 1.0	
Naphthalene	140	< 5.0	< 10	< 10	< 10	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 10	< 10	< 10	< 5.0	
Tetrachloroethene	5	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	
Trichloroethene	5	170	130	140	83	85	
Method SW8260C_SIM, µg/L							
1,4-Dioxane	3		6.8				

Notes:
 < = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1026D 22-Mar-13 N	MW-1026D 01-Oct-13 N
Method EPA522, µg/L			
1,4-Dioxane	3	0.43	0.39
Method SW8260B_SIM, µg/L			
1,4-Dioxane	3	< 1.6	
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50
Acetone	6300	< 50	< 50
Benzene	5	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	2.4	11
Cymene	NS	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0
Trichloroethene	5	19	89
Method SW8260C_SIM, µg/L			
1,4-Dioxane	3		

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1027	MW-1027	MW-1027
		20-Mar-13 N	02-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	19	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1028	MW-1028	MW-1028	MW-1028
		20-Mar-13 N	02-Oct-13 N	17-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50 *	< 50	< 50
Acetone	6300	< 50	< 50	< 50	80
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	1.6	1.2	1.2	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	6.8	6.4	6.1	3.3
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1030	MW-1030	MW-1030	MW-1030
		20-Mar-13 N	01-Oct-13 N	17-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	4.1	3.6	1.9	4.1
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	2.4	2.2	< 1.0	2.7
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	< 50	76
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	12	38	2.4	1.7
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	7.9	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	23	25	13	39
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1031 21-Mar-13 N	MW-1031 01-Oct-13 N	MW-1031 10-Apr-14 N
Method EPA522, µg/L				
1,4-Dioxane	3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	3			
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	5.4	< 1.0
1,1-Dichloroethane	70	< 1.0	2.2	< 1.0
1,1-Dichloroethene	7	< 1.0	6.2	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50
Acetone	6300	< 50	< 50	79
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	1.1	64	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	18	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	2.3	88	2.9
Method SW8260C_SIM, µg/L				
1,4-Dioxane	3			

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1032	MW-1032	MW-1032	MW-1032
		19-Mar-13 N	19-Mar-13 FD	01-Oct-13 N	10-Apr-14 N
Method EPA522, µg/L					
1,4-Dioxane	3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	3				
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	1.3	1.3	1.2	1.0
1,1-Dichloroethene	7	1.7	1.6	1.7	1.9
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	3	< 50	< 50	< 50	< 50
Acetone	6300	< 50	< 50	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0	< 1.0
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	86	85	94	4.1
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	18	18	17	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	12	11	10	11
Method SW8260C_SIM, µg/L					
1,4-Dioxane	3				

Notes:

< = Compound not detected. Reportable detection limit shown

Italics = Reporting limit exceeds GW-1 Standard

Empty cells = Not analyzed

NS = No Standard

N = Normal Environmental Sample

FD = Field Duplicate Sample

Units are in µg/L = micrograms per liter

MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,

Method 1 Groundwater Standards, Category GW-1

Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type	MW-1033	MW-1033	MW-1033	MW-1033	MW-1033	MW-1033
		20-Mar-13 N	20-Mar-13 FD	03-Oct-13 N	10-Apr-14 N	10-Apr-14 FD	14-Apr-14 N
Method EPA522, µg/L							
1,4-Dioxane	3	3.4					0.49
Method SW8260B_SIM, µg/L							
1,4-Dioxane	3	4.7					
Method SW8260C, µg/L							
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	7	1.5	1.4	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dioxane	3	< 50	< 50	< 50	< 50	< 50	< 1.6
Acetone	6300	< 50	< 50	< 50	80	79	
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	1.8	1.8	< 1.0	< 1.0	< 1.0	
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	5	14	13	5.3	< 1.0	< 1.0	
Method SW8260C_SIM, µg/L							
1,4-Dioxane	3			2.3			

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

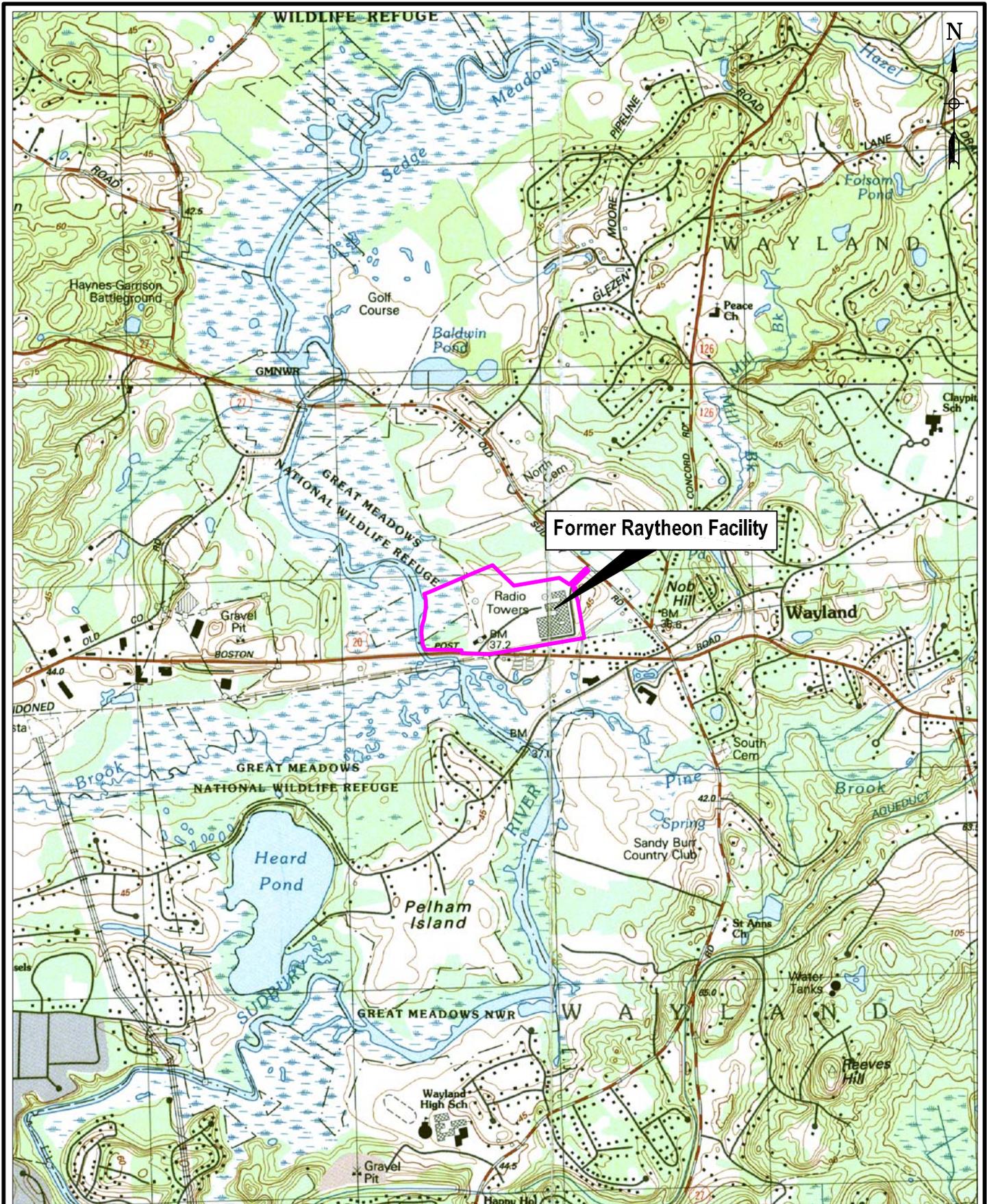
Table 2
Summary of Groundwater Analytical Data -
Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID	MW-1034	MW-1034	MW-1034	MW-1034	MW-1034
	Sample Date	20-Mar-13	02-Oct-13	17-Oct-13	10-Apr-14	14-Apr-14
	Sample Type	N	N	N	N	N
	MA-GW-1					
Method EPA522, µg/L						
1,4-Dioxane	3	0.59	0.63			0.32
Method SW8260B_SIM, µg/L						
1,4-Dioxane	3	< 1.6				
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dioxane	3	< 50	< 50	< 50	< 50	< 1.6
Acetone	6300	< 50	< 50	< 50	81	
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	16	16	15	19	
Cymene	NS	< 1.0	< 1.0	< 1.0	< 1.0	
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0	
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	1.1	< 1.0	
Trichloroethene	5	39	44	51	5.0	
Method SW8260C_SIM, µg/L						
1,4-Dioxane	3					

Notes:

< = Compound not detected. Reportable detection limit shown
 Italics = Reporting limit exceeds GW-1 Standard
 Empty cells = Not analyzed
 NS = No Standard
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 Units are in µg/L = micrograms per liter
 MA-GW1 = Massachusetts Contingency Plan, 310 CMR 40,
 Method 1 Groundwater Standards, Category GW-1

Figures



Former Raytheon Facility

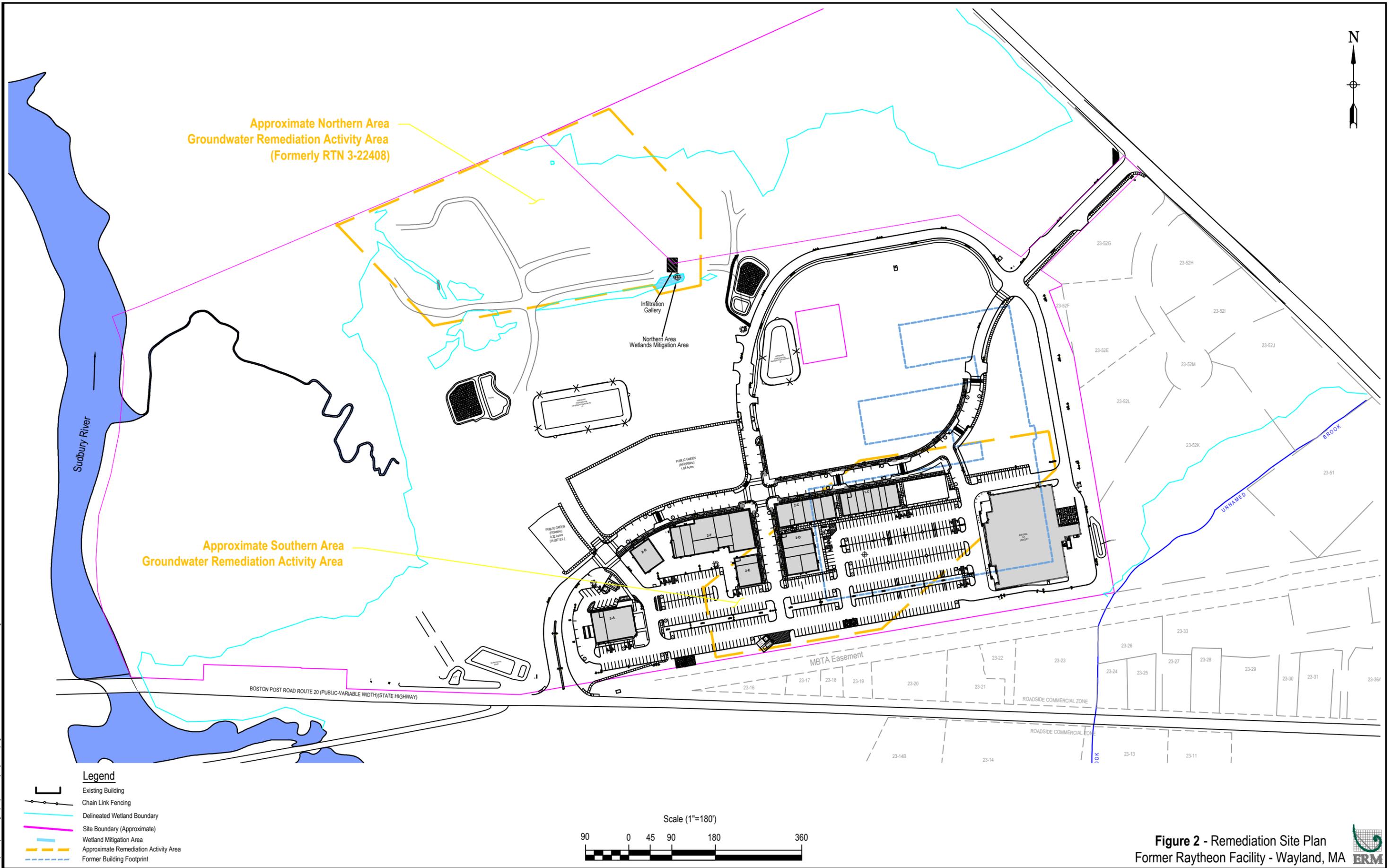
Legend

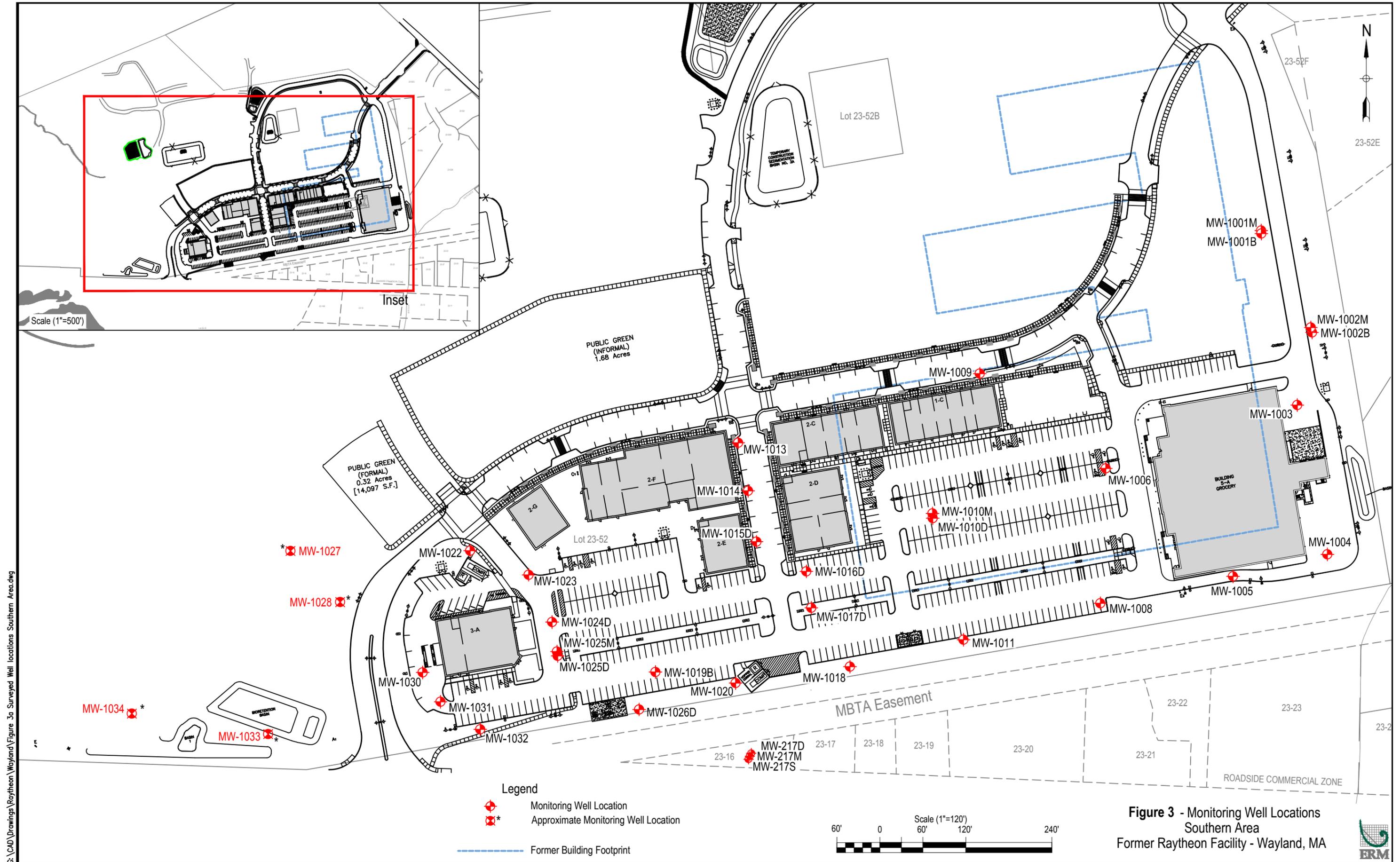
 Former Raytheon Facility Property Boundary

Scale = 1:25,000

Figure 1 - Site Locus Map
 Former Raytheon Facility
 and Former Hamlen Parcel - Wayland, MA



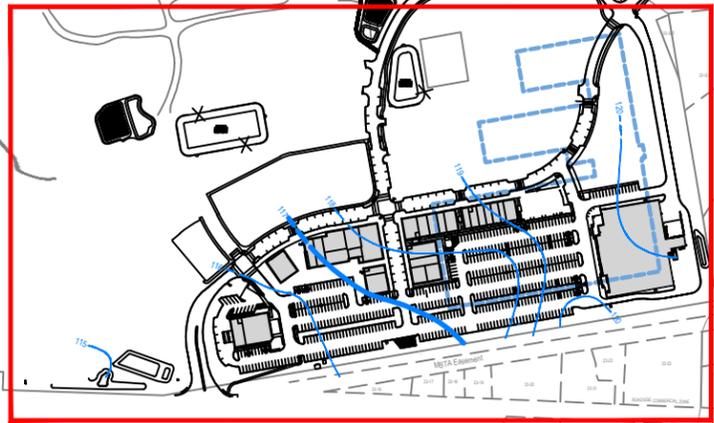
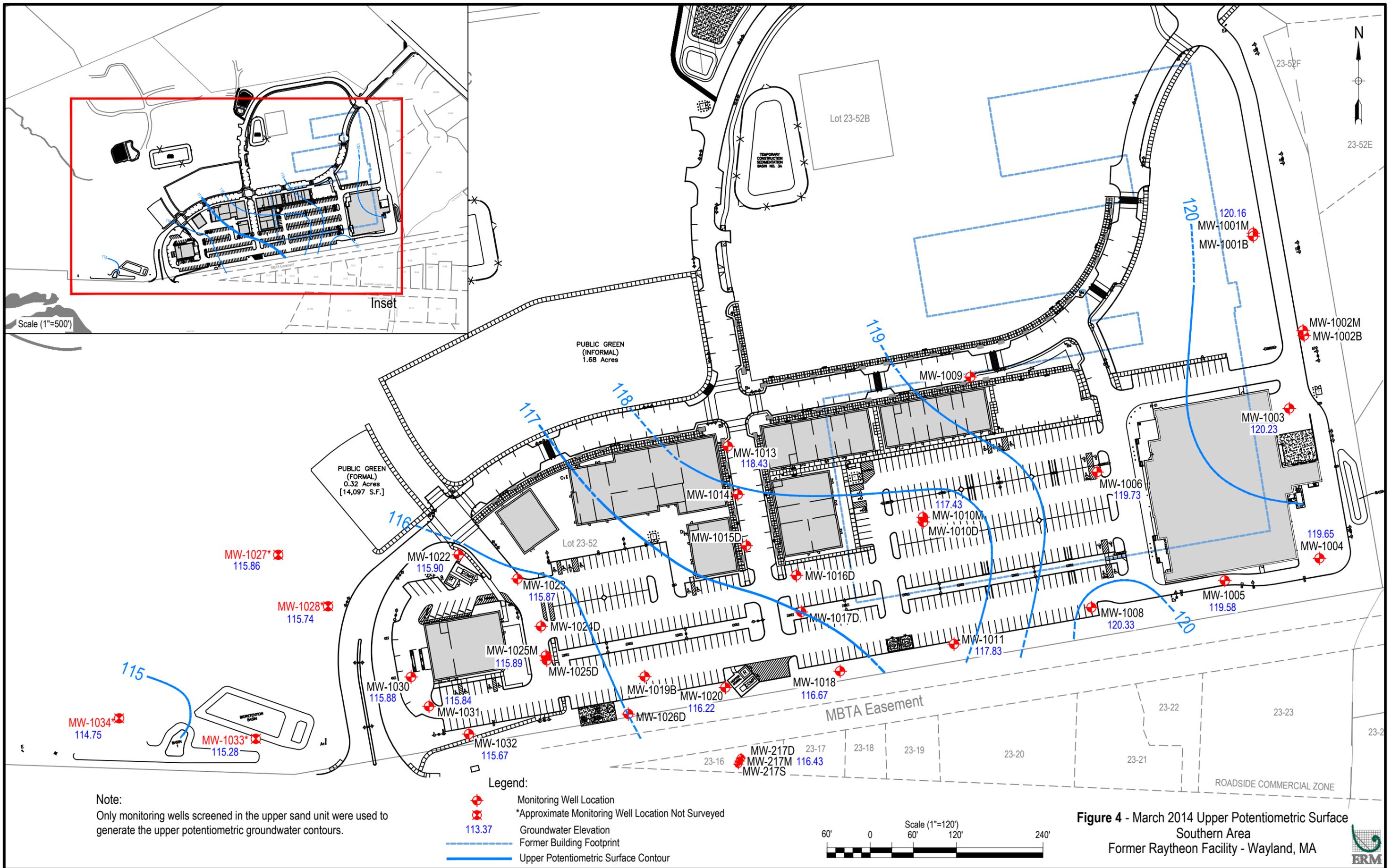




G:\CAD\Drawings\Raytheon\Wayland\Figure 3a Surveyed Well Locations Southern Area.dwg

**Figure 3 - Monitoring Well Locations
Southern Area
Former Raytheon Facility - Wayland, MA**





Scale (1"=500')

Inset

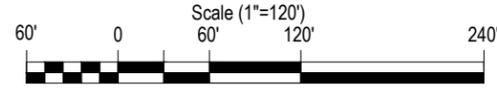
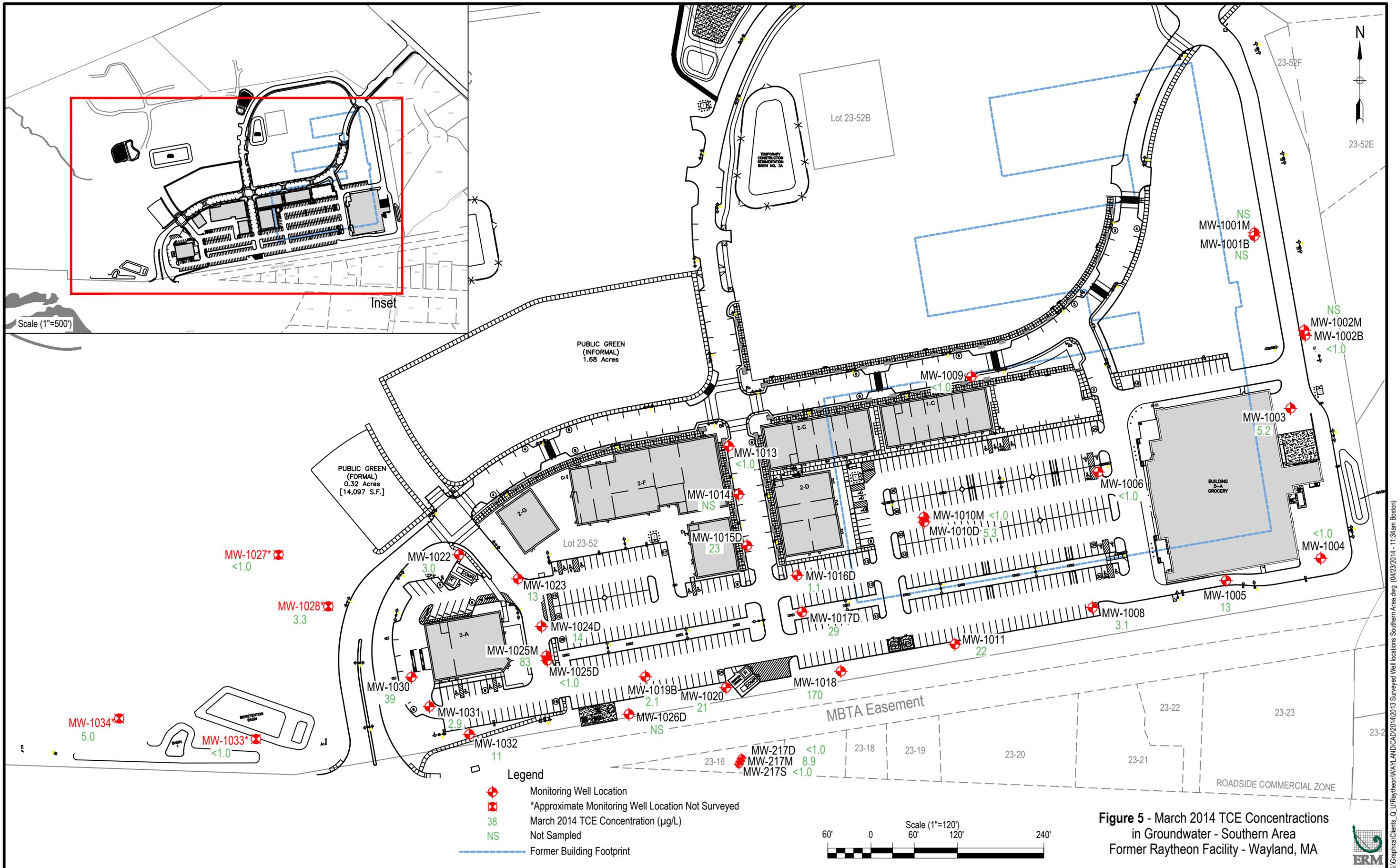


Figure 4 - March 2014 Upper Potentiometric Surface Southern Area Former Raytheon Facility - Wayland, MA





Appendix A
IESI Memorandum



MEMORANDUM

To: Jerry, Cellucci, Esq., Chip Burkhardt, Jonathan Hone; Raytheon Company
From: Sami A. Fam, Ph.D., P.E., L.S.P., IESI
David Falatko, P.E., IESI
Subject: Work Summary for ROS Report
Raytheon Facility
Wayland, Massachusetts
Date: May 13, 2014

At the request of Raytheon Company (Raytheon), Innovative Engineering Solutions Inc. (IESI) has prepared this memorandum outlining the bioremediation activities (at the Northern Area) between October 21, 2013 and April 30, 2014 at the Former Raytheon Facility located in Wayland, Massachusetts. The memorandum provides sufficient detail to be incorporated into a Remedy Operation Status (ROS) report. The following activities have been performed during this time period:

1. Enhanced Anaerobic Dechlorination (EAD) system operation;
2. Collection of groundwater elevation data; and,
3. Sampling and analysis to evaluate remediation progress;

These activities are described in greater detail below.

1. EAD Recirculation System Operation

The EAD program involves recirculation of groundwater within the treatment zone to distribute the added electron donor. During the reporting period, the remediation system extracted from wells REW-6, REW-7, REW-8, REW-9, REW-11 and REW-12 (extraction rate of approximately 6 gallons per minute overall; see site map-Figure 1). During November 2013, and a portion of December 2013 wells REW-1, REW-4 and REW-5 were also operational. Groundwater was injected into different wells at different times, but generally the following wells received recirculated groundwater during the reporting period: IW-4 to IW-9, RIW-8 to RIW-10, IW-13 to IW-16, RIW-12 to RIW-14 and RIW-16. Other wells did receive periodic groundwater injection. No groundwater was injected into wells RIW4 to RIW-7 after May 2013. No electron donor was added during the reporting period. Bioaugmentation culture (NJ-14) was added to selected wells as specified in Table 1.

Approximate recirculation groundwater volumes are also listed in Table 1 for each extraction well. In total, the system recirculated approximately 1,603,482 gallons of groundwater during the past six months. Groundwater extraction rates are relatively accurate for the combined flow of wells REW-6 to REW-12, however, flow is estimated for wells REW-1, REW-4 and REW-5 since flow meters for these wells have clogged repeatedly for the past 6 months. The wells and pumps were cleaned as needed during the reporting period. No significant operational problems were encountered during the reporting period.

The system will continue to operate in 2014. Additional electron donor injections are planned throughout the year beginning in May 2014.

Raytheon Wayland Facility

2. Collection of Groundwater Elevation Data

Groundwater elevation data was collected from selected wells in the Northern Area on April 5, 2014. The data is compiled and presented in Table 2. Figure 2 presents interpreted groundwater elevation contour maps for the April 2014 measurement event. Consistent with past groundwater elevation measurements, groundwater flow is to the west.

3. Sampling and Analysis to Evaluate the Progress of the Recirculation System

Groundwater samples were collected to evaluate the progress of the remedial program. Groundwater sampling was conducted in January, 2014 and in April, 2014. The January 2014 analytical data is summarized in Table 3 and the April 2014 data is summarized in Table 4. All laboratory analytical data reports can be found in Attachment A. All sampling was conducted using low flow sampling methods using a peristaltic pump. Groundwater sampling logs can be found in Attachment B.

Some collected samples were analyzed by Spectrum Analytical of North Kingstown, RI for a variety of biogeochemical parameters (dissolved gases, anions, organic acids, TOC, ammonia, ortho-phosphate, total iron, total manganese). VOC analysis was conducted by Test America of Westfield, MA.

Analytical data are presented in Attachment A and selected data are graphed in Attachment C. Each page in Attachment C is for a single well and is made up of four separate graphs to allow a simultaneous evaluation of biogeochemical and VOC data.

In general, the data indicate excellent VOC reduction, electron donor distribution, sulfate reduction, methane generation and dechlorination of parent compounds to breakdown products (leading to ethane/ethane). The data often indicate initial electron donor induced desorption (of VOCs), followed by dechlorination of the chlorinated VOCs (CVOCs). These are all indicators of EAD system success. In addition to the complete dechlorination at wells MW-562 (see graphs in Attachment C), significant groundwater quality improvement is also observed at wells REW-1, REW-4, REW-5, MW-261S, MW-551, MW-552, MW-553, MW-265M, MW-560, MW-561 and newly installed MW-563 within the expanded treatment zone. TCE concentrations have declined in the newly (2012 fall) operating extraction wells (REW6 to REW-12). In general, the areas upgradient of well MW-563 have been remediated and progress is ongoing in the more downgradient portions of the site. Total organic carbon (TOC) has been detected at well MW-563 and wells REW-6 to REW-12 indicating that the expanded remediation system is already affecting these areas. TOC has also been detected at well MW-267M, indicating its widespread distribution across the project site.

Analytical results for sample trip blanks and sample duplicates conform to acceptable and applicable guidelines/standards and are tabulated in Tables 3 and 4 alongside the respective sampled wells. Some low concentration detections are not uniformly detected between duplicates, however that is not considered significant and may be indicative of slight sample dilution differences.

Acetone, a fermentation product of many electron donors, is being produced at several locations within the treatment area in concentrations up to 15,000 µg/L (MW-551 in April 2014). It is noteworthy that acetone is only present near injection locations, and is degraded and does not reach more downgradient locations in significant concentrations. The generation of acetone at these locations is a transient phenomenon and the compound is not expected to mobilize beyond the treatment area. Acetone, itself is an electron donor and is expected to degrade rapidly once electron donor addition ceases (Fowler et. al., 2011).



Raytheon Wayland Facility

4. References

Fowler, T., Thompson, B., Mueller, J., 2011; Acetone and 2-Butanone Creation Associated with Biological and Chemical Remediation of Environmental Contamination; Remediation Journal Winter 2011, p-9-27.

Tables

Table 1: Summary of Additives and Recirculation Volumes

Table 2: Groundwater Gauging Summary, April 5, 2014

Table 3: Summary of Analytical Data, January, 2014

Table 4: Summary of Analytical Data, April 2014

Figures

Figure 1: Groundwater Treatment System Expansion As-Built

Figure 2: Mid-Depth Groundwater Contour Map, April 5, 2014

Attachments

Attachment A: Analytical Data

Attachment B: Well Sampling Logs

Attachment C: Selected Well Analytical Data Tracking Graphs

**Table 1 Summary of Additives & Recirculation Volumes
Former Raytheon, Wayland Facility
October 21, 2013 to April, 30, 2014**

Date (week of)	Injection Location	Additive	Estimated Weight
12/7/2013	RIW-11 to RIW-14	Bioaugmentation culture- NJ-14	50 gallons- 425 lbs.

Recirculation Volumes

Well	REW-1 (gallons)	REW-4 (gallons)	REW-5 (gallons)	REW-6, REW-7, REW-8, REW-9, REW-10, REW-11, REW-12
October 21, 2013 to April 30, 2014	50,000	50,000	50,000	1,453,482
Total	Estimated- flow meter clogging	Estimated- flow meter clogging	Estimated- flow meter clogging	
1,603,482				

**Former Raytheon Facility
Wayland, Massachusetts
Table 2 - Groundwater Gauging Summary**

Well Designation	Screen Length (feet)	Total Well Depth (feet)	Measuring Point Elevation	DTW	GW
				5-Apr-14	Elevation April 5, 2014
MW-32	10	12	124.41	NM	NM
MW-1S	10	15	133.79	NM	NM
MW-1M	5	40	133.78	NM	NM
MW-1D	5	55	133.74	NM	NM
MW-261S	5	22	131.28	13.23	118.05
MW-263S	5	25	127.96	9.53	118.43
MW-263M	5	50	127.77	8.82	118.95
MW-264S	10	20	126.32	NM	NM
MW-264M	10	44	126.28	6.34	119.94
MW-264D	5	77	126.63	NM	NM
MW-265S	10	18	130.06	9.41	120.65
MW-265M	5	45	129.89	6.06	123.83
MW-265D	5	89	130.07	11.89	118.18
MW-266S	10	17	126.79	10.98	115.81
MW-266Ma	5	52	127.72	8.93	118.79
MW-266Mb	10	68	126.88	8.22	118.66
MW-266D	5	105	127.70	NM	NM
MW-266B	5	138	128.14	NM	NM
MW-267S	5	77	125.30	9.71	115.59
MW-267M	10	95	125.40	8.46	116.94
MW-267D	5	121	125.88	NM	NM
MW-267B	5	153	124.02	NM	NM
MW-268S	5	74	123.66	7.48	116.18
MW-268M	10	94	123.41	6.76	116.65
MW-268D	5	127	124.86	7.13	117.73
MW-268B	5	153	122.34	NM	NM
MW-269S	10	20	125.54	NM	NM
MW-269Ma	5	32	124.96	5.91	119.05
MW-269Mb	10	84	125.42	NM	NM
MW-269D	5	144	125.34	NM	NM
MW-551	5	26	129.30	6.71	122.59
MW-552	5	24	130.09	8.18	121.91
MW-553	5	20	130.33	8.51	121.82
MW-554S	5	196	120.93	NM	NM
MW-554Ma	10	196	120.82	NM	NM
MW-554Mb	10	196	120.96	NM	NM
MW-554D	10	196	120.96	NM	NM
MW-555S	5	194.5	121.10	NM	NM
MW-555Ma	10	194.5	121.25	NM	NM
MW-555Mb	10	194.5	121.26	NM	NM
MW-555D	10	194.5	121.19	NM	NM
MW-556S	5	165	120.93	NM	NM
MW-556M	10	165	121.00	NM	NM
MW-556D	10	165	120.92	NM	NM
MW-307	5	11	124.86	NM	NM
DEP-19S	5	15	120.79	6.35	114.44
DEP-19M	5	40	120.62	NM	NM
DEP-19D	5	50	120.78	NM	NM
DEP-20	5	50	119.98	NM	NM
DEP-21	5	50	119.18	8	111.18
MW-560	10	67	127.23	8.84	118.39
MW-561		53.65	127.90	8.21	119.69
MW-562	10	45	128.13	6.52	121.61
MW-563	30	70	125.70	6.23	119.47
RIW-1	30	45	127.84	NM	NM
RIW-2	30	45	127.09	NM	NM
RIW-3	30	45	127.82	NM	NM
RIW-4	15	30	127.23	NM	NM
RIW-5	15	30	126.88	NM	NM
RIW-6	15	30	127.69	NM	NM
RIW-7	15	30	128.54	NM	NM
REW-1	30	45	126.23	4.81	121.42
REW-2	30	45	127.40	NM	NM
REW-3	30	45	127.15	NM	NM
REW-4	30	45	125.85	5.42	120.43
REW-5	30	45	125.80	4.13	121.67
IW-4	10	65	128.30	NM	NM
IW-5	10	65	128.26	NM	NM
IW-6	10	65	128.01	NM	NM
IW-7	10	65	127.93	NM	NM
IW-8	10	65	128.48	NM	NM
IW-9	10	65	128.13	NM	NM
IW-13	10	50	129.47	NM	NM
IW-14	10	50	128.91	NM	NM
IW-15	10	50	129.08	NM	NM
IW-16	10	50	129.66	NM	NM
IW-18	10	35	131.04	NM	NM

DTW- depth to water
NM-not measured

Table 3- Summary of Analytical Data, January 2014
Former Raytheon Facility, Wayland MA

Sample ID	units	MW-	MW-	MW-	MW	MW-	MW	REW-6	REW-7	REW-8	REW-9	REW-12	Trip Blank
		267S	267M	268M	561	Dup-X	553						
Methane	ug/L	4400	27000	1900	7000	na	18000	7200	4100	830	1900	1400	ND
Ethene	ug/L	15	170	21	21	na	ND	3	61	ND	ND	3	ND
Ethane	ug/L	ND	ND	ND	43	na	45	49	89	ND	ND	ND	ND
Vinyl Chloride	ug/L	13	40	210	240	250	87	19	110	7.1	22	58	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-cDCE	ug/L	390	430	3100	ND	ND	200	400	730	17	67	340	ND
t-1,2 DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCE	ug/L	ND	ND	1100	50	ND	65	100	1.5	ND	52	ND	ND
PCE	ug/L	ND	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THF	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p xylene	ug/L	ND	ND	ND	61	67	12	ND	ND	ND	3.5	ND	ND
2-Butan. (MEK)	ug/L	280	180	ND	61	ND	130	ND	ND	ND	78	ND	ND
Ethyl benzene	ug/L	ND	ND	ND	15	ND	ND						
Benzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	350	90	ND	1200	1200	33	170	ND	1	46	23	ND
1,2,4 TMB	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	ug/L	ND	ND	ND	15	ND	ND						
1,4 Dioxane	ug/L	na	na	na	na	na	na	na	na	na	na	na	na
Chloride	mg/L	44	32	21	27	na	27	37	20	1	22	34	na
Nitrate	mg/L	<1	ND	<1	<1	na	<1	<1	<1	<1	<1	0.1	na
Sulfate	mg/L	<1	ND	41	<1	na	0	14	14	9	<1	30	na
Lactate	mg/L	<1	<1	<1	<1	na	2	1	<1	<1	<1	5	na
Acetate	mg/L	400	550	2	320	na	510	310	140	<1	280	93	na
Propionate	mg/L	<1	10	<1	1	na	8	1	1	<1	2	1	na
Butyrate	mg/L	1.3	7	<1	3	na	16	5	1	<1	9	1	na
Alkalinity	mg/L	210.0	350	84	210	na	230	130	92	0	170	20	na
Manganese	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
NH3-N	mg/L	0.4	0.2	0.1	0.6	na	<.2	0.2	<.2	0.1	<.2	0.2	na
PO4	mg/L	0.5	0.4	0.3	0.3	na	0.2	0.4	0.5	0.5	0.2	0.1	na
Sulfide	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
Total Iron	mg/L	53	140	23	26	na	79	63	29	9	32	32	na
COD	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
TOC	mg/L	250	140	2.0	500	na	160	110	40	13	85	55	na
pH	pH unit	5.8	6.2	6.6	6.5	na	5.8	6.4	6.6	6.4	5.9	6.6	na
H2 headspace	µM	na	na	na	na	na	na	na	na	na	na	na	na
CO2	mg/L	na	na	na	na	na	na	na	na	na	na	na	na

1,1 DCE- 1,1 dichloroethene; 1,1 DCA-1,1 Dichloroethane; 1,2cDCE- 1,2 cis dichloroethene;

1,1,1 TCA- 1,1,1 trichloroethane, TCE- trichloroethene; PCE- tetrachloroethene

na- not analyzed

VOCs by Test America, rest by BTC

1,4 dioxane by 8260 sim

all other VOCs by 8260B

THF-tetrahydrofuran

1,2,4 TMB- 1,2,4 trimethylbenzene

ND- not detected- see lab report for detection limits

ketone breakdown products

VOC detections

Table 4- Summary of Analytical Data, April 2014
Former Raytheon Facility, Wayland MA

Sample ID	units	DEP-	DEP-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-	MW-
		19M	21	261S	261S	263M	264M	265S	265M	265D	266Ma	266MB	266MB	267S	267M	268S	268M	268D	a	551	552	553	560	561	562	563
Methane	ug/L	na	na	8500	na	na	na	na	8300	na	na	na	na	na	na	na	230	na	na	na	8700	8000	15000	17000	20000	40000
Ethene	ug/L	na	na	16.0	na	na	na	na	16	na	na	na	na	na	na	na	5.0	na	na	na	38.0	6	31	32	160	160
Ethane	ug/L	na	na	13.0	na	na	na	na	13	na	na	na	na	na	na	na	1.3	na	na	na	3.0	2.4	25	25	130	130
Vinyl Chloride	ug/L	ND	ND	ND	2.2	ND	ND	2.7	15	ND	ND	49	43	16	31	ND	180	2.6	ND	ND	4.6	28	42	84	ND	90
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-c DCE	ug/L	ND	3.8	ND	7.3	ND	12	ND	49	ND	1.5	60	58	360	380	11	3100	8.5	3.2	ND	2.6	22	48	ND	ND	190
1,2 t-DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	1.8	ND	ND	ND	ND
1,1,1-TCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCE	ug/L	ND	1	ND	2.6	ND	14	ND	1.9	ND	1.6	39	37	ND	ND	11	1200	1.2	2.2	ND	ND	ND	ND	ND	ND	ND
PCE	ug/L	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND	11	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/L	ND	ND	11000	14000	ND	ND	ND	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15000	120	160	ND	ND	910
THF	ug/L	ND	ND	ND	18	ND	ND	ND	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND
m,p xylene	ug/L	ND	ND	ND	11	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	6.9	21	23	11
Toluene	ug/L	ND	ND	ND	20	ND	ND	ND	6.2	ND	ND	ND	ND	410	87	ND	ND	2	ND	ND	2.4	3.9	200	600	46	37
Ethyl Benzene	ug/L	ND	ND	ND	3.3	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	6.6	ND
2-Butan. (MEK)	ug/L	ND	ND	ND	160	ND	ND	ND	230	ND	ND	ND	ND	210	180	ND	ND	ND	ND	ND	ND	210	ND	ND	150	150
o-xylene	ug/L	ND	ND	ND	2.1	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	7.2	ND
1,4 Dioxane	ug/L	na	na	<3.2	<3.2	na	na	na	<3.2	na	<1.6	na	na	<3.2	<3.2	<1.6	25	na	2.9	na	<3.2	na	na	na	na	na
Chloride	mg/L	na	na	33	na	na	na	na	26	na	na	na	na	na	na	na	23	na	na	na	23	19	22	25	36	29
Nitrate	mg/L	na	na	0.3	na	na	na	na	0	na	na	na	na	na	na	na	0.1	na	na	na	0	0	0	0	0	0
Sulfate	mg/L	na	na	0.4	na	na	na	na	1	na	na	na	na	na	na	na	41	na	na	na	2	1	1	5	1	0
Lactate	mg/L	na	na	5	na	na	na	na	5	na	na	na	na	na	na	na	5	na	na	na	5	5	5	5	5	5
Acetate	mg/L	na	na	260	na	na	na	na	1100	na	na	na	na	na	na	na	0.43	na	na	na	17	14	780	330	530	620
Propionate	mg/L	na	na	5	na	na	na	na	7	na	na	na	na	na	na	na	5	na	na	na	1	5	6	1	9	6
Butyrate	mg/L	na	na	9	na	na	na	na	26	na	na	na	na	na	na	na	5	na	na	na	5	5	16	3	39	32
Alkalinity	mg/L	na	na	160	na	na	na	na	150	na	na	na	na	na	na	na	24	na	na	na	61	40	65	31	140	59
Manganese	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
NH3-N	mg/L	na	na	0.2	na	na	na	na	0.5	na	na	na	na	na	na	na	0.2	na	na	na	0.2	0.20	0.3	0.6	2.2	0.2
PO4	mg/L	na	na	0.5	na	na	na	na	0.1	na	na	na	na	na	na	na	0.1	na	na	na	0.6	0.1	0.31	0.1	0.9	0.1
Sulfide	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Iron	mg/L	na	na	100	na	na	na	na	120	na	na	na	na	na	na	na	21	na	na	na	41	21	94.0	26.0	290	120
COD	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOC	mg/L	na	na	120	na	na	na	na	380	na	na	na	na	na	na	na	10	na	na	na	16	17	330	220	270	270
pH	pH unit	na	na	6.6	na	na	na	na	6.5	na	na	na	na	na	na	na	6.9	na	na	na	7.0	7.2	6.3	6.6	6.5	6.0
H2 headspace	µM	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CO2	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

1,1 DCE- 1,1 dichloroethene; 1,1 DCA-1,1 Dichloroethane; 1,2cDCE- 1,2 cis dichloroethene;

1,1,1 TCA- 1,1,1 trichloroethane, TCE- trichloroethene; PCE- tetrachloroethene

na- not analyzed

VOCs by Test America, rest by BTC

1,4 dioxane by 8260C sim; all other VOCs by 8260B

THF-tetrahydrofuran

1,2,4 TMB- 1,2,4 trimethylbenzene

ND- below detection limit- see lab report for specific limits

ketone breakdown products VOC detections

Table 4- Summary of Analytical Data, April 2014 (Cont)
Former Raytheon Facility, Wayland MA

Sample ID	units	REW-1	REW-4	REW-5	REW-6	REW-7	REW-8	REW-9	REW-10	REW-11	REW-11 Dup X2	REW-12	Trip Blank
Methane	ug/L	9500	6000	8300	8000	200	15000	9400	3400	240	na	2200	ND
Ethene	ug/L	32	32	15	15	2	31	31	16	3	na	6	ND
Ethane	ug/L	25	25	12	12	1	25	25	13	1	na	1	ND
Vinyl Chloride	ug/L	ND	4	3.8	19	99	36	26	ND	120	97	55	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND							
1,1-DCE	ug/L	ND	ND	2.5	ND	ND							
1,1-DCA	ug/L	ND	ND	5.5	ND	ND							
1,2-cDCE	ug/L	6	7.6	62	370	660	27	80	ND	1800	1500	310	ND
t-1,2 DCE	ug/L	ND	ND	3.3	ND	ND							
1,1,1-TCA	ug/L	ND	ND	ND	ND	ND							
TCE	ug/L	ND	ND	5.4	50	65	ND	ND	ND	460	390	50	ND
PCE	ug/L	ND	ND	16	ND	ND							
Acetone	ug/L	1500	ND	ND	ND	ND	ND						
THF	ug/L	ND	ND	ND	ND	ND							
m,p xylene	ug/L	ND	ND	ND	ND	ND	2.4	4.8	ND	ND	ND	ND	ND
2-Butan. (MEK)	ug/L	ND	ND	ND	ND	ND	75	54	ND	ND	ND	ND	ND
Ethyl benzene	ug/L	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND
Benzene	ug/L	ND	ND	1.5	ND	ND							
Toluene	ug/L	ND	ND	3.2	170	12	36	84	ND	ND	ND	28	ND
1,2,4 TMB	ug/L	ND	ND	ND	ND	ND							
o-xylene	ug/L	ND	ND	ND	ND	ND	ND	1.1	ND	ND	1.1	ND	ND
1,4 Dioxane	ug/L	na	na	na	na	na							
Chloride	mg/L	8	5	6	37	25	24	27	2	22	na	34	na
Nitrate	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.1	na	0.1	na
Sulfate	mg/L	4.3	21	6	14	10	2	13	13	34	na	30	na
Lactate	mg/L	5	5	5	5	5	5	5	5	5	na	5	na
Acetate	mg/L	12	5	15	340	110	310	340	1	48	na	93	na
Propionate	mg/L	5	5	5	2	2	5	3	5	5	na	1	na
Butyrate	mg/L	5	5	5	9	1	6	8	5	5	na	1	na
Alkalinity	mg/L	26.0	20	20	34	20	49	33	20	20	na	20	na
Manganese	mg/L	na	na	na	na	na							
NH3-N	mg/L	0.5	1	0.2	0.2	0.2	0.4	0.2	0.2	0.2	na	0.2	na
PO4	mg/L	0.4	0.1	0.5	0.5	0.1	0.2	0.2	0.1	0.1	na	0.1	na
Sulfide	mg/L	na	na	na	na	na							
Total Iron	mg/L	13	13	15.0	71	42	89	64	0.1	23	na	32.0	na
COD	mg/L	na	na	na	na	na							
TOC	mg/L	52	22	29.0	220	63	150	180	6.6	35	na	55	na
pH	pH unit	7.0	6.8	6.7	6.3	6.5	6.5	6.4	6.3	6.5	na	6.6	na
H2 headspace	µM	na	na	na	na	na							
CO2	mg/L	na	na	na	na	na							

1,1 DCE- 1,1 dichloroethene; 1,1 DCA-1,1 Dichloroethane; 1,2cDCE- 1,2 cis dichloroethene;

1,1,1 TCA- 1,1,1 trichloroethane, TCE- trichloroethene; PCE- tetrachloroethene

na- not analyzed

VOCs by Test America, rest by BTC

1,4 dioxane by 8260 sim

all other VOCs by 8260B

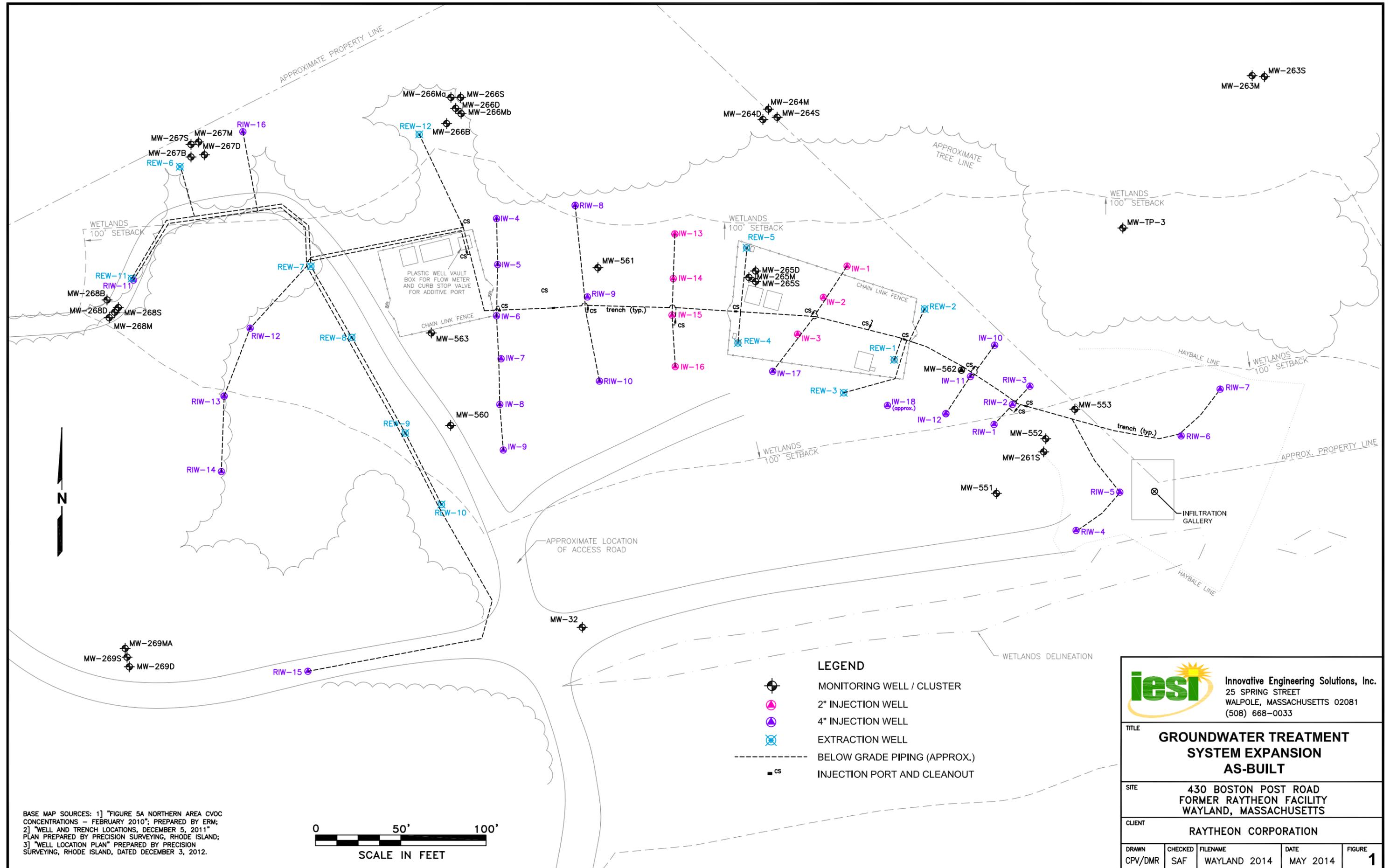
THF-tetrahydrofuran

1,2,4 TMB- 1,2,4 trimethylbenzene

ND- not detected- see lab report for detection limits

ketone breakdown products

VOC detections



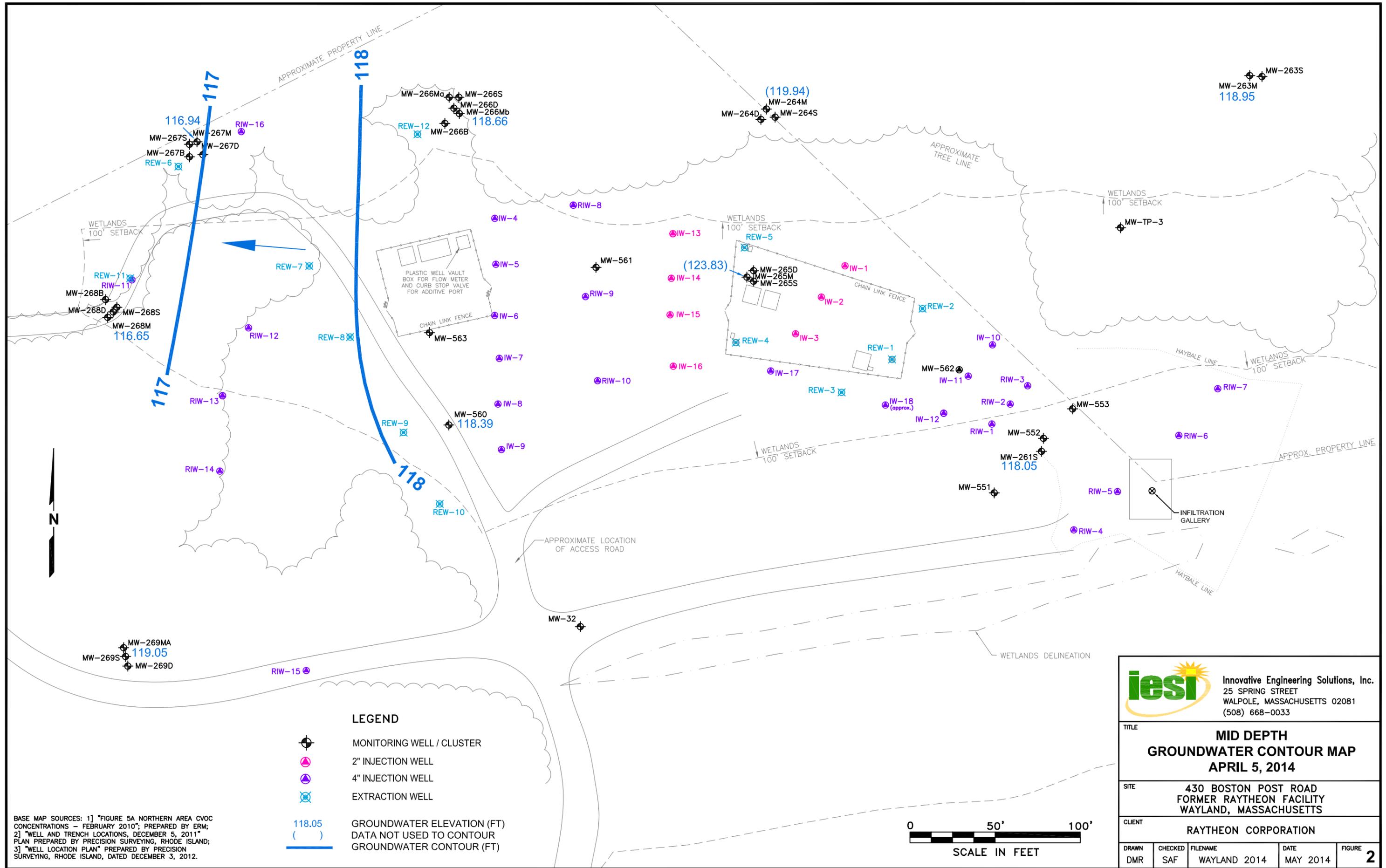
BASE MAP SOURCES: 1] "FIGURE 5A NORTHERN AREA CVOC CONCENTRATIONS - FEBRUARY 2010"; PREPARED BY ERM;
 2] "WELL AND TRENCH LOCATIONS, DECEMBER 5, 2011" PLAN PREPARED BY PRECISION SURVEYING, RHODE ISLAND;
 3] "WELL LOCATION PLAN" PREPARED BY PRECISION SURVEYING, RHODE ISLAND, DATED DECEMBER 3, 2012.



LEGEND

- MONITORING WELL / CLUSTER
- 2" INJECTION WELL
- 4" INJECTION WELL
- EXTRACTION WELL
- BELOW GRADE PIPING (APPROX.)
- INJECTION PORT AND CLEANOUT

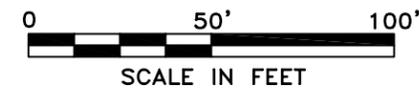
Innovative Engineering Solutions, Inc. 25 SPRING STREET WALPOLE, MASSACHUSETTS 02081 (508) 668-0033				
SITE 430 BOSTON POST ROAD FORMER RAYTHEON FACILITY WAYLAND, MASSACHUSETTS				
CLIENT RAYTHEON CORPORATION				
DRAWN CPV/DMR	CHECKED SAF	FILENAME WAYLAND 2014	DATE MAY 2014	FIGURE 1



BASE MAP SOURCES: 1] "FIGURE 5A NORTHERN AREA CVOC CONCENTRATIONS - FEBRUARY 2010"; PREPARED BY ERM; 2] "WELL AND TRENCH LOCATIONS, DECEMBER 5, 2011" PLAN PREPARED BY PRECISION SURVEYING, RHODE ISLAND; 3] "WELL LOCATION PLAN" PREPARED BY PRECISION SURVEYING, RHODE ISLAND, DATED DECEMBER 3, 2012.

LEGEND

-  MONITORING WELL / CLUSTER
-  2" INJECTION WELL
-  4" INJECTION WELL
-  EXTRACTION WELL
-  GROUNDWATER ELEVATION (FT)
-  DATA NOT USED TO CONTOUR
-  GROUNDWATER CONTOUR (FT)



 Innovative Engineering Solutions, Inc. 25 SPRING STREET WALPOLE, MASSACHUSETTS 02081 (508) 668-0033				
TITLE MID DEPTH GROUNDWATER CONTOUR MAP APRIL 5, 2014				
SITE 430 BOSTON POST ROAD FORMER RAYTHEON FACILITY WAYLAND, MASSACHUSETTS				
CLIENT RAYTHEON CORPORATION				
DRAWN DMR	CHECKED SAF	FILENAME WAYLAND 2014	DATE MAY 2014	FIGURE 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-54029-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

2/7/2014 9:46:33 AM

Rich Emerich, Analyst V

rich.emerich@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	8
Surrogate Summary	29
QC Sample Results	30
QC Association Summary	49
Lab Chronicle	50
Certification Summary	52
Method Summary	53
Sample Summary	54
Receipt Checklists	55
Chain of Custody	56

Definitions/Glossary

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

TestAmerica Job ID: 480-54029-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

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

Case Narrative

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

TestAmerica Job ID: 480-54029-1

Job ID: 480-54029-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 1/31/2014 at 12:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

Method 8260C: The continuing calibration verification (CCV) for Dichlorodifluoromethane and Chloromethane associated with batch 164338 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 164338 exceeded control limits for the following analytes: Dichlorodifluoromethane and Tetrahydrofuran. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-54029-3 MS), (480-54029-3 MSD), MW-267M-20140130-01 (480-54029-2), MW-267S-20140130-01 (480-54029-1), MW-268M-20140130-01 (480-54029-3), MW-561-20140130-01 (480-54029-4), REW-12-20140130-01 (480-54029-10), REW-6-20140130-01 (480-54029-6), REW-7-20140130-01 (480-54029-7), DupX-20140130-01 (480-54029-11), MW-268M-20140130-01 (480-54029-3), MW-553-20140130-01 (480-54029-5) and MW-561-20140130-01 (480-54029-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for 1,4-Dioxane, 2-Butanone, 2-Hexanone, Acetone, Chloromethane, and Dichlorodifluoromethane associated with batch 164408 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 164408 exceeded control limits for the following analytes: Dichlorodifluoromethane and Tetrahydrofuran. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 164532 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method 8260C: Due to the high concentration of cis-1,2-Dichloroethene, the matrix spike / matrix spike duplicate (MS/MSD) for batch 164338 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 164338 were outside control limits. Sample matrix interference was suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No other analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-54029**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the data set for the following Laboratory Sample ID Number(s):
480-54209 [1-11]

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

CAM Protocols (check all that apply below):

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

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

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

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

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

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

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

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

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

Signature:  Position: Technical Director, TestAmerica Westfield

Printed Name: Richard Emerich Date: 2/7/14 9:32

This form has been electronically signed and approved.

Detection Summary

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-267S-20140130-01

Lab Sample ID: 480-54029-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	280		50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	390		5.0		ug/L	5		8260C	Total/NA
Toluene	350		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	13		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: MW-267M-20140130-01

Lab Sample ID: 480-54029-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	180		100		ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	430		10		ug/L	10		8260C	Total/NA
Toluene	90		10		ug/L	10		8260C	Total/NA
Vinyl chloride	40		10		ug/L	10		8260C	Total/NA

Client Sample ID: MW-268M-20140130-01

Lab Sample ID: 480-54029-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	37		25		ug/L	25		8260C	Total/NA
Trichloroethene	1100		25		ug/L	25		8260C	Total/NA
Vinyl chloride	210		25		ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene - DL	3100		40		ug/L	40		8260C	Total/NA

Client Sample ID: MW-561-20140130-01

Lab Sample ID: 480-54029-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	61		50		ug/L	5		8260C	Total/NA
Ethylbenzene	15		5.0		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	61		10		ug/L	5		8260C	Total/NA
o-Xylene	15		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	240		5.0		ug/L	5		8260C	Total/NA
Toluene - DL	1200		20		ug/L	20		8260C	Total/NA

Client Sample ID: MW-553-20140130-01

Lab Sample ID: 480-54029-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	130		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	200		4.0		ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	12		8.0		ug/L	4		8260C	Total/NA
Toluene	33		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	87		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: REW-6-20140130-01

Lab Sample ID: 480-54029-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	400		5.0		ug/L	5		8260C	Total/NA
Toluene	170		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	65		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	19		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-7-20140130-01

Lab Sample ID: 480-54029-7

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-7-20140130-01 (Continued)

Lab Sample ID: 480-54029-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	730		10		ug/L	10		8260C	Total/NA
Trichloroethene	100		10		ug/L	10		8260C	Total/NA
Vinyl chloride	110		10		ug/L	10		8260C	Total/NA

Client Sample ID: REW-8-20140130-01

Lab Sample ID: 480-54029-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0		ug/L	1		8260C	Total/NA
Toluene	1.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	7.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-9-20140130-01

Lab Sample ID: 480-54029-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	78		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	67		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.5		2.0		ug/L	1		8260C	Total/NA
Toluene	46		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	22		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-12-20140130-01

Lab Sample ID: 480-54029-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	340		4.0		ug/L	4		8260C	Total/NA
Toluene	23		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	52		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	58		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: DupX-20140130-01

Lab Sample ID: 480-54029-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	67		40		ug/L	20		8260C	Total/NA
Toluene	1200		20		ug/L	20		8260C	Total/NA
Vinyl chloride	250		20		ug/L	20		8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-54029-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-267S-20140130-01

Lab Sample ID: 480-54029-1

Date Collected: 01/30/14 12:50

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/04/14 04:10	5
1,1,1-Trichloroethane	ND		5.0		ug/L			02/04/14 04:10	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			02/04/14 04:10	5
1,1,2-Trichloroethane	ND		5.0		ug/L			02/04/14 04:10	5
1,1-Dichloroethane	ND		5.0		ug/L			02/04/14 04:10	5
1,1-Dichloroethene	ND		5.0		ug/L			02/04/14 04:10	5
1,1-Dichloropropene	ND		5.0		ug/L			02/04/14 04:10	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			02/04/14 04:10	5
1,2,3-Trichloropropane	ND		5.0		ug/L			02/04/14 04:10	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			02/04/14 04:10	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			02/04/14 04:10	5
1,2-Dichlorobenzene	ND		5.0		ug/L			02/04/14 04:10	5
1,2-Dichloroethane	ND		5.0		ug/L			02/04/14 04:10	5
1,2-Dichloropropane	ND		5.0		ug/L			02/04/14 04:10	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
1,3-Dichlorobenzene	ND		5.0		ug/L			02/04/14 04:10	5
1,3-Dichloropropane	ND		5.0		ug/L			02/04/14 04:10	5
1,4-Dichlorobenzene	ND		5.0		ug/L			02/04/14 04:10	5
1,4-Dioxane	ND		250		ug/L			02/04/14 04:10	5
2,2-Dichloropropane	ND		5.0		ug/L			02/04/14 04:10	5
2-Butanone (MEK)	280		50		ug/L			02/04/14 04:10	5
2-Chlorotoluene	ND		5.0		ug/L			02/04/14 04:10	5
2-Hexanone	ND		50		ug/L			02/04/14 04:10	5
4-Chlorotoluene	ND		5.0		ug/L			02/04/14 04:10	5
4-Isopropyltoluene	ND		5.0		ug/L			02/04/14 04:10	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/04/14 04:10	5
Acetone	ND		250		ug/L			02/04/14 04:10	5
Benzene	ND		5.0		ug/L			02/04/14 04:10	5
Bromobenzene	ND		5.0		ug/L			02/04/14 04:10	5
Bromoform	ND		5.0		ug/L			02/04/14 04:10	5
Bromomethane	ND		10		ug/L			02/04/14 04:10	5
Carbon disulfide	ND		50		ug/L			02/04/14 04:10	5
Carbon tetrachloride	ND		5.0		ug/L			02/04/14 04:10	5
Chlorobenzene	ND		5.0		ug/L			02/04/14 04:10	5
Chlorobromomethane	ND		5.0		ug/L			02/04/14 04:10	5
Chlorodibromomethane	ND		2.5		ug/L			02/04/14 04:10	5
Chloroethane	ND		10		ug/L			02/04/14 04:10	5
Chloroform	ND		5.0		ug/L			02/04/14 04:10	5
Chloromethane	ND		10		ug/L			02/04/14 04:10	5
cis-1,2-Dichloroethene	390		5.0		ug/L			02/04/14 04:10	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			02/04/14 04:10	5
Dichlorobromomethane	ND		2.5		ug/L			02/04/14 04:10	5
Dichlorodifluoromethane	ND *		5.0		ug/L			02/04/14 04:10	5
Ethyl ether	ND		5.0		ug/L			02/04/14 04:10	5
Ethylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
Ethylene Dibromide	ND		5.0		ug/L			02/04/14 04:10	5
Hexachlorobutadiene	ND		2.0		ug/L			02/04/14 04:10	5
Isopropyl ether	ND		50		ug/L			02/04/14 04:10	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-267S-20140130-01

Lab Sample ID: 480-54029-1

Date Collected: 01/30/14 12:50

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
Methyl tert-butyl ether	ND		5.0		ug/L			02/04/14 04:10	5
Methylene Chloride	ND		5.0		ug/L			02/04/14 04:10	5
m-Xylene & p-Xylene	ND		10		ug/L			02/04/14 04:10	5
Naphthalene	ND		25		ug/L			02/04/14 04:10	5
n-Butylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
N-Propylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
o-Xylene	ND		5.0		ug/L			02/04/14 04:10	5
sec-Butylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
Styrene	ND		5.0		ug/L			02/04/14 04:10	5
Tert-amyl methyl ether	ND		25		ug/L			02/04/14 04:10	5
Tert-butyl ethyl ether	ND		25		ug/L			02/04/14 04:10	5
tert-Butylbenzene	ND		5.0		ug/L			02/04/14 04:10	5
Tetrachloroethene	ND		5.0		ug/L			02/04/14 04:10	5
Tetrahydrofuran	ND	*	50		ug/L			02/04/14 04:10	5
Toluene	350		5.0		ug/L			02/04/14 04:10	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/04/14 04:10	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			02/04/14 04:10	5
Trichloroethene	ND		5.0		ug/L			02/04/14 04:10	5
Trichlorofluoromethane	ND		5.0		ug/L			02/04/14 04:10	5
Vinyl chloride	13		5.0		ug/L			02/04/14 04:10	5
Dibromomethane	ND		5.0		ug/L			02/04/14 04:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		70 - 130		02/04/14 04:10	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		70 - 130		02/04/14 04:10	5
<i>4-Bromofluorobenzene (Surr)</i>	104		70 - 130		02/04/14 04:10	5

Client Sample ID: MW-267M-20140130-01

Lab Sample ID: 480-54029-2

Date Collected: 01/30/14 12:10

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			02/04/14 04:33	10
1,1,1,1-Trichloroethane	ND		10		ug/L			02/04/14 04:33	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/04/14 04:33	10
1,1,2-Trichloroethane	ND		10		ug/L			02/04/14 04:33	10
1,1-Dichloroethane	ND		10		ug/L			02/04/14 04:33	10
1,1-Dichloroethane	ND		10		ug/L			02/04/14 04:33	10
1,1-Dichloropropene	ND		10		ug/L			02/04/14 04:33	10
1,2,3-Trichlorobenzene	ND		10		ug/L			02/04/14 04:33	10
1,2,3-Trichloropropane	ND		10		ug/L			02/04/14 04:33	10
1,2,4-Trichlorobenzene	ND		10		ug/L			02/04/14 04:33	10
1,2,4-Trimethylbenzene	ND		10		ug/L			02/04/14 04:33	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			02/04/14 04:33	10
1,2-Dichlorobenzene	ND		10		ug/L			02/04/14 04:33	10
1,2-Dichloroethane	ND		10		ug/L			02/04/14 04:33	10
1,2-Dichloropropane	ND		10		ug/L			02/04/14 04:33	10
1,3,5-Trimethylbenzene	ND		10		ug/L			02/04/14 04:33	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-267M-20140130-01

Lab Sample ID: 480-54029-2

Date Collected: 01/30/14 12:10

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10		ug/L			02/04/14 04:33	10
1,3-Dichloropropane	ND		10		ug/L			02/04/14 04:33	10
1,4-Dichlorobenzene	ND		10		ug/L			02/04/14 04:33	10
1,4-Dioxane	ND		500		ug/L			02/04/14 04:33	10
2,2-Dichloropropane	ND		10		ug/L			02/04/14 04:33	10
2-Butanone (MEK)	180		100		ug/L			02/04/14 04:33	10
2-Chlorotoluene	ND		10		ug/L			02/04/14 04:33	10
2-Hexanone	ND		100		ug/L			02/04/14 04:33	10
4-Chlorotoluene	ND		10		ug/L			02/04/14 04:33	10
4-Isopropyltoluene	ND		10		ug/L			02/04/14 04:33	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			02/04/14 04:33	10
Acetone	ND		500		ug/L			02/04/14 04:33	10
Benzene	ND		10		ug/L			02/04/14 04:33	10
Bromobenzene	ND		10		ug/L			02/04/14 04:33	10
Bromoform	ND		10		ug/L			02/04/14 04:33	10
Bromomethane	ND		20		ug/L			02/04/14 04:33	10
Carbon disulfide	ND		100		ug/L			02/04/14 04:33	10
Carbon tetrachloride	ND		10		ug/L			02/04/14 04:33	10
Chlorobenzene	ND		10		ug/L			02/04/14 04:33	10
Chlorobromomethane	ND		10		ug/L			02/04/14 04:33	10
Chlorodibromomethane	ND		5.0		ug/L			02/04/14 04:33	10
Chloroethane	ND		20		ug/L			02/04/14 04:33	10
Chloroform	ND		10		ug/L			02/04/14 04:33	10
Chloromethane	ND		20		ug/L			02/04/14 04:33	10
cis-1,2-Dichloroethene	430		10		ug/L			02/04/14 04:33	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			02/04/14 04:33	10
Dichlorobromomethane	ND		5.0		ug/L			02/04/14 04:33	10
Dichlorodifluoromethane	ND *		10		ug/L			02/04/14 04:33	10
Ethyl ether	ND		10		ug/L			02/04/14 04:33	10
Ethylbenzene	ND		10		ug/L			02/04/14 04:33	10
Ethylene Dibromide	ND		10		ug/L			02/04/14 04:33	10
Hexachlorobutadiene	ND		4.0		ug/L			02/04/14 04:33	10
Isopropyl ether	ND		100		ug/L			02/04/14 04:33	10
Isopropylbenzene	ND		10		ug/L			02/04/14 04:33	10
Methyl tert-butyl ether	ND		10		ug/L			02/04/14 04:33	10
Methylene Chloride	ND		10		ug/L			02/04/14 04:33	10
m-Xylene & p-Xylene	ND		20		ug/L			02/04/14 04:33	10
Naphthalene	ND		50		ug/L			02/04/14 04:33	10
n-Butylbenzene	ND		10		ug/L			02/04/14 04:33	10
N-Propylbenzene	ND		10		ug/L			02/04/14 04:33	10
o-Xylene	ND		10		ug/L			02/04/14 04:33	10
sec-Butylbenzene	ND		10		ug/L			02/04/14 04:33	10
Styrene	ND		10		ug/L			02/04/14 04:33	10
Tert-amyl methyl ether	ND		50		ug/L			02/04/14 04:33	10
Tert-butyl ethyl ether	ND		50		ug/L			02/04/14 04:33	10
tert-Butylbenzene	ND		10		ug/L			02/04/14 04:33	10
Tetrachloroethene	ND		10		ug/L			02/04/14 04:33	10
Tetrahydrofuran	ND *		100		ug/L			02/04/14 04:33	10
Toluene	90		10		ug/L			02/04/14 04:33	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-267M-20140130-01

Lab Sample ID: 480-54029-2

Date Collected: 01/30/14 12:10

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		10		ug/L			02/04/14 04:33	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			02/04/14 04:33	10
Trichloroethene	ND		10		ug/L			02/04/14 04:33	10
Trichlorofluoromethane	ND		10		ug/L			02/04/14 04:33	10
Vinyl chloride	40		10		ug/L			02/04/14 04:33	10
Dibromomethane	ND		10		ug/L			02/04/14 04:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		70 - 130		02/04/14 04:33	10
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		70 - 130		02/04/14 04:33	10
<i>4-Bromofluorobenzene (Surr)</i>	103		70 - 130		02/04/14 04:33	10

Client Sample ID: MW-268M-20140130-01

Lab Sample ID: 480-54029-3

Date Collected: 01/30/14 11:25

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			02/04/14 04:57	25
1,1,1-Trichloroethane	ND		25		ug/L			02/04/14 04:57	25
1,1,2,2-Tetrachloroethane	ND		13		ug/L			02/04/14 04:57	25
1,1,2-Trichloroethane	ND		25		ug/L			02/04/14 04:57	25
1,1-Dichloroethane	ND		25		ug/L			02/04/14 04:57	25
1,1-Dichloroethene	ND		25		ug/L			02/04/14 04:57	25
1,1-Dichloropropene	ND		25		ug/L			02/04/14 04:57	25
1,2,3-Trichlorobenzene	ND		25		ug/L			02/04/14 04:57	25
1,2,3-Trichloropropane	ND		25		ug/L			02/04/14 04:57	25
1,2,4-Trichlorobenzene	ND		25		ug/L			02/04/14 04:57	25
1,2,4-Trimethylbenzene	ND		25		ug/L			02/04/14 04:57	25
1,2-Dibromo-3-Chloropropane	ND		130		ug/L			02/04/14 04:57	25
1,2-Dichlorobenzene	ND		25		ug/L			02/04/14 04:57	25
1,2-Dichloroethane	ND		25		ug/L			02/04/14 04:57	25
1,2-Dichloropropane	ND		25		ug/L			02/04/14 04:57	25
1,3,5-Trimethylbenzene	ND		25		ug/L			02/04/14 04:57	25
1,3-Dichlorobenzene	ND		25		ug/L			02/04/14 04:57	25
1,3-Dichloropropane	ND		25		ug/L			02/04/14 04:57	25
1,4-Dichlorobenzene	ND		25		ug/L			02/04/14 04:57	25
1,4-Dioxane	ND		1300		ug/L			02/04/14 04:57	25
2,2-Dichloropropane	ND		25		ug/L			02/04/14 04:57	25
2-Butanone (MEK)	ND		250		ug/L			02/04/14 04:57	25
2-Chlorotoluene	ND		25		ug/L			02/04/14 04:57	25
2-Hexanone	ND		250		ug/L			02/04/14 04:57	25
4-Chlorotoluene	ND		25		ug/L			02/04/14 04:57	25
4-Isopropyltoluene	ND		25		ug/L			02/04/14 04:57	25
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			02/04/14 04:57	25
Acetone	ND		1300		ug/L			02/04/14 04:57	25
Benzene	ND		25		ug/L			02/04/14 04:57	25
Bromobenzene	ND		25		ug/L			02/04/14 04:57	25
Bromoform	ND		25		ug/L			02/04/14 04:57	25
Bromomethane	ND		50		ug/L			02/04/14 04:57	25

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-268M-20140130-01

Lab Sample ID: 480-54029-3

Date Collected: 01/30/14 11:25

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		250		ug/L			02/04/14 04:57	25
Carbon tetrachloride	ND		25		ug/L			02/04/14 04:57	25
Chlorobenzene	ND		25		ug/L			02/04/14 04:57	25
Chlorobromomethane	ND		25		ug/L			02/04/14 04:57	25
Chlorodibromomethane	ND		13		ug/L			02/04/14 04:57	25
Chloroethane	ND		50		ug/L			02/04/14 04:57	25
Chloroform	ND		25		ug/L			02/04/14 04:57	25
Chloromethane	ND		50		ug/L			02/04/14 04:57	25
cis-1,3-Dichloropropene	ND		10		ug/L			02/04/14 04:57	25
Dichlorobromomethane	ND		13		ug/L			02/04/14 04:57	25
Dichlorodifluoromethane	ND	*	25		ug/L			02/04/14 04:57	25
Ethyl ether	ND		25		ug/L			02/04/14 04:57	25
Ethylbenzene	ND		25		ug/L			02/04/14 04:57	25
Ethylene Dibromide	ND		25		ug/L			02/04/14 04:57	25
Hexachlorobutadiene	ND		10		ug/L			02/04/14 04:57	25
Isopropyl ether	ND		250		ug/L			02/04/14 04:57	25
Isopropylbenzene	ND		25		ug/L			02/04/14 04:57	25
Methyl tert-butyl ether	ND		25		ug/L			02/04/14 04:57	25
Methylene Chloride	ND		25		ug/L			02/04/14 04:57	25
m-Xylene & p-Xylene	ND		50		ug/L			02/04/14 04:57	25
Naphthalene	ND		130		ug/L			02/04/14 04:57	25
n-Butylbenzene	ND		25		ug/L			02/04/14 04:57	25
N-Propylbenzene	ND		25		ug/L			02/04/14 04:57	25
o-Xylene	ND		25		ug/L			02/04/14 04:57	25
sec-Butylbenzene	ND		25		ug/L			02/04/14 04:57	25
Styrene	ND		25		ug/L			02/04/14 04:57	25
Tert-amyl methyl ether	ND		130		ug/L			02/04/14 04:57	25
Tert-butyl ethyl ether	ND		130		ug/L			02/04/14 04:57	25
tert-Butylbenzene	ND		25		ug/L			02/04/14 04:57	25
Tetrachloroethene	37		25		ug/L			02/04/14 04:57	25
Tetrahydrofuran	ND	*	250		ug/L			02/04/14 04:57	25
Toluene	ND		25		ug/L			02/04/14 04:57	25
trans-1,2-Dichloroethene	ND		25		ug/L			02/04/14 04:57	25
trans-1,3-Dichloropropene	ND		10		ug/L			02/04/14 04:57	25
Trichloroethene	1100		25		ug/L			02/04/14 04:57	25
Trichlorofluoromethane	ND		25		ug/L			02/04/14 04:57	25
Vinyl chloride	210		25		ug/L			02/04/14 04:57	25
Dibromomethane	ND		25		ug/L			02/04/14 04:57	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		02/04/14 04:57	25
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		02/04/14 04:57	25
4-Bromofluorobenzene (Surr)	109		70 - 130		02/04/14 04:57	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3100		40		ug/L			02/04/14 13:47	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		02/04/14 13:47	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-268M-20140130-01

Lab Sample ID: 480-54029-3

Date Collected: 01/30/14 11:25

Matrix: Water

Date Received: 01/31/14 00:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		02/04/14 13:47	40
4-Bromofluorobenzene (Surr)	102		70 - 130		02/04/14 13:47	40

Client Sample ID: MW-561-20140130-01

Lab Sample ID: 480-54029-4

Date Collected: 01/30/14 09:10

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/04/14 05:21	5
1,1,1-Trichloroethane	ND		5.0		ug/L			02/04/14 05:21	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			02/04/14 05:21	5
1,1,2-Trichloroethane	ND		5.0		ug/L			02/04/14 05:21	5
1,1-Dichloroethane	ND		5.0		ug/L			02/04/14 05:21	5
1,1-Dichloroethene	ND		5.0		ug/L			02/04/14 05:21	5
1,1-Dichloropropene	ND		5.0		ug/L			02/04/14 05:21	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			02/04/14 05:21	5
1,2,3-Trichloropropane	ND		5.0		ug/L			02/04/14 05:21	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			02/04/14 05:21	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			02/04/14 05:21	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			02/04/14 05:21	5
1,2-Dichlorobenzene	ND		5.0		ug/L			02/04/14 05:21	5
1,2-Dichloroethane	ND		5.0		ug/L			02/04/14 05:21	5
1,2-Dichloropropane	ND		5.0		ug/L			02/04/14 05:21	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			02/04/14 05:21	5
1,3-Dichlorobenzene	ND		5.0		ug/L			02/04/14 05:21	5
1,3-Dichloropropane	ND		5.0		ug/L			02/04/14 05:21	5
1,4-Dichlorobenzene	ND		5.0		ug/L			02/04/14 05:21	5
1,4-Dioxane	ND		250		ug/L			02/04/14 05:21	5
2,2-Dichloropropane	ND		5.0		ug/L			02/04/14 05:21	5
2-Butanone (MEK)	61		50		ug/L			02/04/14 05:21	5
2-Chlorotoluene	ND		5.0		ug/L			02/04/14 05:21	5
2-Hexanone	ND		50		ug/L			02/04/14 05:21	5
4-Chlorotoluene	ND		5.0		ug/L			02/04/14 05:21	5
4-Isopropyltoluene	ND		5.0		ug/L			02/04/14 05:21	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/04/14 05:21	5
Acetone	ND		250		ug/L			02/04/14 05:21	5
Benzene	ND		5.0		ug/L			02/04/14 05:21	5
Bromobenzene	ND		5.0		ug/L			02/04/14 05:21	5
Bromoform	ND		5.0		ug/L			02/04/14 05:21	5
Bromomethane	ND		10		ug/L			02/04/14 05:21	5
Carbon disulfide	ND		50		ug/L			02/04/14 05:21	5
Carbon tetrachloride	ND		5.0		ug/L			02/04/14 05:21	5
Chlorobenzene	ND		5.0		ug/L			02/04/14 05:21	5
Chlorobromomethane	ND		5.0		ug/L			02/04/14 05:21	5
Chlorodibromomethane	ND		2.5		ug/L			02/04/14 05:21	5
Chloroethane	ND		10		ug/L			02/04/14 05:21	5
Chloroform	ND		5.0		ug/L			02/04/14 05:21	5
Chloromethane	ND		10		ug/L			02/04/14 05:21	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-561-20140130-01

Lab Sample ID: 480-54029-4

Date Collected: 01/30/14 09:10

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/04/14 05:21	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			02/04/14 05:21	5
Dichlorobromomethane	ND		2.5		ug/L			02/04/14 05:21	5
Dichlorodifluoromethane	ND	*	5.0		ug/L			02/04/14 05:21	5
Ethyl ether	ND		5.0		ug/L			02/04/14 05:21	5
Ethylbenzene	15		5.0		ug/L			02/04/14 05:21	5
Ethylene Dibromide	ND		5.0		ug/L			02/04/14 05:21	5
Hexachlorobutadiene	ND		2.0		ug/L			02/04/14 05:21	5
Isopropyl ether	ND		50		ug/L			02/04/14 05:21	5
Isopropylbenzene	ND		5.0		ug/L			02/04/14 05:21	5
Methyl tert-butyl ether	ND		5.0		ug/L			02/04/14 05:21	5
Methylene Chloride	ND		5.0		ug/L			02/04/14 05:21	5
m-Xylene & p-Xylene	61		10		ug/L			02/04/14 05:21	5
Naphthalene	ND		25		ug/L			02/04/14 05:21	5
n-Butylbenzene	ND		5.0		ug/L			02/04/14 05:21	5
N-Propylbenzene	ND		5.0		ug/L			02/04/14 05:21	5
o-Xylene	15		5.0		ug/L			02/04/14 05:21	5
sec-Butylbenzene	ND		5.0		ug/L			02/04/14 05:21	5
Styrene	ND		5.0		ug/L			02/04/14 05:21	5
Tert-amyl methyl ether	ND		25		ug/L			02/04/14 05:21	5
Tert-butyl ethyl ether	ND		25		ug/L			02/04/14 05:21	5
tert-Butylbenzene	ND		5.0		ug/L			02/04/14 05:21	5
Tetrachloroethene	ND		5.0		ug/L			02/04/14 05:21	5
Tetrahydrofuran	ND	*	50		ug/L			02/04/14 05:21	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/04/14 05:21	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			02/04/14 05:21	5
Trichloroethene	ND		5.0		ug/L			02/04/14 05:21	5
Trichlorofluoromethane	ND		5.0		ug/L			02/04/14 05:21	5
Vinyl chloride	240		5.0		ug/L			02/04/14 05:21	5
Dibromomethane	ND		5.0		ug/L			02/04/14 05:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/04/14 05:21	5
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		02/04/14 05:21	5
4-Bromofluorobenzene (Surr)	104		70 - 130		02/04/14 05:21	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1200		20		ug/L			02/04/14 14:11	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/04/14 14:11	20
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		02/04/14 14:11	20
4-Bromofluorobenzene (Surr)	105		70 - 130		02/04/14 14:11	20

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-553-20140130-01

Lab Sample ID: 480-54029-5

Date Collected: 01/30/14 10:30

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			02/05/14 00:18	4
1,1,1-Trichloroethane	ND		4.0		ug/L			02/05/14 00:18	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			02/05/14 00:18	4
1,1,2-Trichloroethane	ND		4.0		ug/L			02/05/14 00:18	4
1,1-Dichloroethane	ND		4.0		ug/L			02/05/14 00:18	4
1,1-Dichloroethene	ND		4.0		ug/L			02/05/14 00:18	4
1,1-Dichloropropene	ND		4.0		ug/L			02/05/14 00:18	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			02/05/14 00:18	4
1,2,3-Trichloropropane	ND		4.0		ug/L			02/05/14 00:18	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			02/05/14 00:18	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			02/05/14 00:18	4
1,2-Dichlorobenzene	ND		4.0		ug/L			02/05/14 00:18	4
1,2-Dichloroethane	ND		4.0		ug/L			02/05/14 00:18	4
1,2-Dichloropropane	ND		4.0		ug/L			02/05/14 00:18	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
1,3-Dichlorobenzene	ND		4.0		ug/L			02/05/14 00:18	4
1,3-Dichloropropane	ND		4.0		ug/L			02/05/14 00:18	4
1,4-Dichlorobenzene	ND		4.0		ug/L			02/05/14 00:18	4
1,4-Dioxane	ND		200		ug/L			02/05/14 00:18	4
2,2-Dichloropropane	ND		4.0		ug/L			02/05/14 00:18	4
2-Butanone (MEK)	130		40		ug/L			02/05/14 00:18	4
2-Chlorotoluene	ND		4.0		ug/L			02/05/14 00:18	4
2-Hexanone	ND		40		ug/L			02/05/14 00:18	4
4-Chlorotoluene	ND		4.0		ug/L			02/05/14 00:18	4
4-Isopropyltoluene	ND		4.0		ug/L			02/05/14 00:18	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			02/05/14 00:18	4
Acetone	ND		200		ug/L			02/05/14 00:18	4
Benzene	ND		4.0		ug/L			02/05/14 00:18	4
Bromobenzene	ND		4.0		ug/L			02/05/14 00:18	4
Bromoform	ND		4.0		ug/L			02/05/14 00:18	4
Bromomethane	ND		8.0		ug/L			02/05/14 00:18	4
Carbon disulfide	ND		40		ug/L			02/05/14 00:18	4
Carbon tetrachloride	ND		4.0		ug/L			02/05/14 00:18	4
Chlorobenzene	ND		4.0		ug/L			02/05/14 00:18	4
Chlorobromomethane	ND		4.0		ug/L			02/05/14 00:18	4
Chlorodibromomethane	ND		2.0		ug/L			02/05/14 00:18	4
Chloroethane	ND		8.0		ug/L			02/05/14 00:18	4
Chloroform	ND		4.0		ug/L			02/05/14 00:18	4
Chloromethane	ND		8.0		ug/L			02/05/14 00:18	4
cis-1,2-Dichloroethene	200		4.0		ug/L			02/05/14 00:18	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			02/05/14 00:18	4
Dichlorobromomethane	ND		2.0		ug/L			02/05/14 00:18	4
Dichlorodifluoromethane	ND		4.0		ug/L			02/05/14 00:18	4
Ethyl ether	ND		4.0		ug/L			02/05/14 00:18	4
Ethylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
Ethylene Dibromide	ND		4.0		ug/L			02/05/14 00:18	4
Hexachlorobutadiene	ND		1.6		ug/L			02/05/14 00:18	4
Isopropyl ether	ND		40		ug/L			02/05/14 00:18	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-553-20140130-01

Lab Sample ID: 480-54029-5

Date Collected: 01/30/14 10:30

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
Methyl tert-butyl ether	ND		4.0		ug/L			02/05/14 00:18	4
Methylene Chloride	ND		4.0		ug/L			02/05/14 00:18	4
m-Xylene & p-Xylene	12		8.0		ug/L			02/05/14 00:18	4
Naphthalene	ND		20		ug/L			02/05/14 00:18	4
n-Butylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
N-Propylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
o-Xylene	ND		4.0		ug/L			02/05/14 00:18	4
sec-Butylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
Styrene	ND		4.0		ug/L			02/05/14 00:18	4
Tert-amyl methyl ether	ND		20		ug/L			02/05/14 00:18	4
Tert-butyl ethyl ether	ND		20		ug/L			02/05/14 00:18	4
tert-Butylbenzene	ND		4.0		ug/L			02/05/14 00:18	4
Tetrachloroethene	ND		4.0		ug/L			02/05/14 00:18	4
Tetrahydrofuran	ND		40		ug/L			02/05/14 00:18	4
Toluene	33		4.0		ug/L			02/05/14 00:18	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			02/05/14 00:18	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			02/05/14 00:18	4
Trichloroethene	ND		4.0		ug/L			02/05/14 00:18	4
Trichlorofluoromethane	ND		4.0		ug/L			02/05/14 00:18	4
Vinyl chloride	87		4.0		ug/L			02/05/14 00:18	4
Dibromomethane	ND		4.0		ug/L			02/05/14 00:18	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		02/05/14 00:18	4
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		02/05/14 00:18	4
4-Bromofluorobenzene (Surr)	103		70 - 130		02/05/14 00:18	4

Client Sample ID: REW-6-20140130-01

Lab Sample ID: 480-54029-6

Date Collected: 01/30/14 09:55

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			02/04/14 06:08	5
1,1,1,1-Trichloroethane	ND		5.0		ug/L			02/04/14 06:08	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			02/04/14 06:08	5
1,1,2-Trichloroethane	ND		5.0		ug/L			02/04/14 06:08	5
1,1-Dichloroethane	ND		5.0		ug/L			02/04/14 06:08	5
1,1-Dichloroethane	ND		5.0		ug/L			02/04/14 06:08	5
1,1-Dichloropropene	ND		5.0		ug/L			02/04/14 06:08	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			02/04/14 06:08	5
1,2,3-Trichloropropane	ND		5.0		ug/L			02/04/14 06:08	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			02/04/14 06:08	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			02/04/14 06:08	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			02/04/14 06:08	5
1,2-Dichlorobenzene	ND		5.0		ug/L			02/04/14 06:08	5
1,2-Dichloroethane	ND		5.0		ug/L			02/04/14 06:08	5
1,2-Dichloropropane	ND		5.0		ug/L			02/04/14 06:08	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			02/04/14 06:08	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-6-20140130-01

Lab Sample ID: 480-54029-6

Date Collected: 01/30/14 09:55

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0		ug/L			02/04/14 06:08	5
1,3-Dichloropropane	ND		5.0		ug/L			02/04/14 06:08	5
1,4-Dichlorobenzene	ND		5.0		ug/L			02/04/14 06:08	5
1,4-Dioxane	ND		250		ug/L			02/04/14 06:08	5
2,2-Dichloropropane	ND		5.0		ug/L			02/04/14 06:08	5
2-Butanone (MEK)	ND		50		ug/L			02/04/14 06:08	5
2-Chlorotoluene	ND		5.0		ug/L			02/04/14 06:08	5
2-Hexanone	ND		50		ug/L			02/04/14 06:08	5
4-Chlorotoluene	ND		5.0		ug/L			02/04/14 06:08	5
4-Isopropyltoluene	ND		5.0		ug/L			02/04/14 06:08	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			02/04/14 06:08	5
Acetone	ND		250		ug/L			02/04/14 06:08	5
Benzene	ND		5.0		ug/L			02/04/14 06:08	5
Bromobenzene	ND		5.0		ug/L			02/04/14 06:08	5
Bromoform	ND		5.0		ug/L			02/04/14 06:08	5
Bromomethane	ND		10		ug/L			02/04/14 06:08	5
Carbon disulfide	ND		50		ug/L			02/04/14 06:08	5
Carbon tetrachloride	ND		5.0		ug/L			02/04/14 06:08	5
Chlorobenzene	ND		5.0		ug/L			02/04/14 06:08	5
Chlorobromomethane	ND		5.0		ug/L			02/04/14 06:08	5
Chlorodibromomethane	ND		2.5		ug/L			02/04/14 06:08	5
Chloroethane	ND		10		ug/L			02/04/14 06:08	5
Chloroform	ND		5.0		ug/L			02/04/14 06:08	5
Chloromethane	ND		10		ug/L			02/04/14 06:08	5
cis-1,2-Dichloroethene	400		5.0		ug/L			02/04/14 06:08	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			02/04/14 06:08	5
Dichlorobromomethane	ND		2.5		ug/L			02/04/14 06:08	5
Dichlorodifluoromethane	ND *		5.0		ug/L			02/04/14 06:08	5
Ethyl ether	ND		5.0		ug/L			02/04/14 06:08	5
Ethylbenzene	ND		5.0		ug/L			02/04/14 06:08	5
Ethylene Dibromide	ND		5.0		ug/L			02/04/14 06:08	5
Hexachlorobutadiene	ND		2.0		ug/L			02/04/14 06:08	5
Isopropyl ether	ND		50		ug/L			02/04/14 06:08	5
Isopropylbenzene	ND		5.0		ug/L			02/04/14 06:08	5
Methyl tert-butyl ether	ND		5.0		ug/L			02/04/14 06:08	5
Methylene Chloride	ND		5.0		ug/L			02/04/14 06:08	5
m-Xylene & p-Xylene	ND		10		ug/L			02/04/14 06:08	5
Naphthalene	ND		25		ug/L			02/04/14 06:08	5
n-Butylbenzene	ND		5.0		ug/L			02/04/14 06:08	5
N-Propylbenzene	ND		5.0		ug/L			02/04/14 06:08	5
o-Xylene	ND		5.0		ug/L			02/04/14 06:08	5
sec-Butylbenzene	ND		5.0		ug/L			02/04/14 06:08	5
Styrene	ND		5.0		ug/L			02/04/14 06:08	5
Tert-amyl methyl ether	ND		25		ug/L			02/04/14 06:08	5
Tert-butyl ethyl ether	ND		25		ug/L			02/04/14 06:08	5
tert-Butylbenzene	ND		5.0		ug/L			02/04/14 06:08	5
Tetrachloroethene	ND		5.0		ug/L			02/04/14 06:08	5
Tetrahydrofuran	ND *		50		ug/L			02/04/14 06:08	5
Toluene	170		5.0		ug/L			02/04/14 06:08	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-6-20140130-01

Lab Sample ID: 480-54029-6

Date Collected: 01/30/14 09:55

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.0		ug/L			02/04/14 06:08	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			02/04/14 06:08	5
Trichloroethene	65		5.0		ug/L			02/04/14 06:08	5
Trichlorofluoromethane	ND		5.0		ug/L			02/04/14 06:08	5
Vinyl chloride	19		5.0		ug/L			02/04/14 06:08	5
Dibromomethane	ND		5.0		ug/L			02/04/14 06:08	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130					02/04/14 06:08	5
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					02/04/14 06:08	5
4-Bromofluorobenzene (Surr)	104		70 - 130					02/04/14 06:08	5

Client Sample ID: REW-7-20140130-01

Lab Sample ID: 480-54029-7

Date Collected: 01/30/14 10:50

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			02/04/14 06:33	10
1,1,1-Trichloroethane	ND		10		ug/L			02/04/14 06:33	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			02/04/14 06:33	10
1,1,2-Trichloroethane	ND		10		ug/L			02/04/14 06:33	10
1,1-Dichloroethane	ND		10		ug/L			02/04/14 06:33	10
1,1-Dichloroethene	ND		10		ug/L			02/04/14 06:33	10
1,1-Dichloropropene	ND		10		ug/L			02/04/14 06:33	10
1,2,3-Trichlorobenzene	ND		10		ug/L			02/04/14 06:33	10
1,2,3-Trichloropropane	ND		10		ug/L			02/04/14 06:33	10
1,2,4-Trichlorobenzene	ND		10		ug/L			02/04/14 06:33	10
1,2,4-Trimethylbenzene	ND		10		ug/L			02/04/14 06:33	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			02/04/14 06:33	10
1,2-Dichlorobenzene	ND		10		ug/L			02/04/14 06:33	10
1,2-Dichloroethane	ND		10		ug/L			02/04/14 06:33	10
1,2-Dichloropropane	ND		10		ug/L			02/04/14 06:33	10
1,3,5-Trimethylbenzene	ND		10		ug/L			02/04/14 06:33	10
1,3-Dichlorobenzene	ND		10		ug/L			02/04/14 06:33	10
1,3-Dichloropropane	ND		10		ug/L			02/04/14 06:33	10
1,4-Dichlorobenzene	ND		10		ug/L			02/04/14 06:33	10
1,4-Dioxane	ND		500		ug/L			02/04/14 06:33	10
2,2-Dichloropropane	ND		10		ug/L			02/04/14 06:33	10
2-Butanone (MEK)	ND		100		ug/L			02/04/14 06:33	10
2-Chlorotoluene	ND		10		ug/L			02/04/14 06:33	10
2-Hexanone	ND		100		ug/L			02/04/14 06:33	10
4-Chlorotoluene	ND		10		ug/L			02/04/14 06:33	10
4-Isopropyltoluene	ND		10		ug/L			02/04/14 06:33	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			02/04/14 06:33	10
Acetone	ND		500		ug/L			02/04/14 06:33	10
Benzene	ND		10		ug/L			02/04/14 06:33	10
Bromobenzene	ND		10		ug/L			02/04/14 06:33	10
Bromoform	ND		10		ug/L			02/04/14 06:33	10
Bromomethane	ND		20		ug/L			02/04/14 06:33	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-7-20140130-01

Lab Sample ID: 480-54029-7

Date Collected: 01/30/14 10:50

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		100		ug/L			02/04/14 06:33	10
Carbon tetrachloride	ND		10		ug/L			02/04/14 06:33	10
Chlorobenzene	ND		10		ug/L			02/04/14 06:33	10
Chlorobromomethane	ND		10		ug/L			02/04/14 06:33	10
Chlorodibromomethane	ND		5.0		ug/L			02/04/14 06:33	10
Chloroethane	ND		20		ug/L			02/04/14 06:33	10
Chloroform	ND		10		ug/L			02/04/14 06:33	10
Chloromethane	ND		20		ug/L			02/04/14 06:33	10
cis-1,2-Dichloroethene	730		10		ug/L			02/04/14 06:33	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			02/04/14 06:33	10
Dichlorobromomethane	ND		5.0		ug/L			02/04/14 06:33	10
Dichlorodifluoromethane	ND *		10		ug/L			02/04/14 06:33	10
Ethyl ether	ND		10		ug/L			02/04/14 06:33	10
Ethylbenzene	ND		10		ug/L			02/04/14 06:33	10
Ethylene Dibromide	ND		10		ug/L			02/04/14 06:33	10
Hexachlorobutadiene	ND		4.0		ug/L			02/04/14 06:33	10
Isopropyl ether	ND		100		ug/L			02/04/14 06:33	10
Isopropylbenzene	ND		10		ug/L			02/04/14 06:33	10
Methyl tert-butyl ether	ND		10		ug/L			02/04/14 06:33	10
Methylene Chloride	ND		10		ug/L			02/04/14 06:33	10
m-Xylene & p-Xylene	ND		20		ug/L			02/04/14 06:33	10
Naphthalene	ND		50		ug/L			02/04/14 06:33	10
n-Butylbenzene	ND		10		ug/L			02/04/14 06:33	10
N-Propylbenzene	ND		10		ug/L			02/04/14 06:33	10
o-Xylene	ND		10		ug/L			02/04/14 06:33	10
sec-Butylbenzene	ND		10		ug/L			02/04/14 06:33	10
Styrene	ND		10		ug/L			02/04/14 06:33	10
Tert-amyl methyl ether	ND		50		ug/L			02/04/14 06:33	10
Tert-butyl ethyl ether	ND		50		ug/L			02/04/14 06:33	10
tert-Butylbenzene	ND		10		ug/L			02/04/14 06:33	10
Tetrachloroethene	ND		10		ug/L			02/04/14 06:33	10
Tetrahydrofuran	ND *		100		ug/L			02/04/14 06:33	10
Toluene	ND		10		ug/L			02/04/14 06:33	10
trans-1,2-Dichloroethene	ND		10		ug/L			02/04/14 06:33	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			02/04/14 06:33	10
Trichloroethene	100		10		ug/L			02/04/14 06:33	10
Trichlorofluoromethane	ND		10		ug/L			02/04/14 06:33	10
Vinyl chloride	110		10		ug/L			02/04/14 06:33	10
Dibromomethane	ND		10		ug/L			02/04/14 06:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		02/04/14 06:33	10
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		02/04/14 06:33	10
4-Bromofluorobenzene (Surr)	104		70 - 130		02/04/14 06:33	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-8-20140130-01

Lab Sample ID: 480-54029-8

Date Collected: 01/30/14 12:55

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			02/04/14 14:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			02/04/14 14:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/14 14:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			02/04/14 14:59	1
1,1-Dichloroethane	ND		1.0		ug/L			02/04/14 14:59	1
1,1-Dichloroethene	ND		1.0		ug/L			02/04/14 14:59	1
1,1-Dichloropropene	ND		1.0		ug/L			02/04/14 14:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/14 14:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			02/04/14 14:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/14 14:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			02/04/14 14:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			02/04/14 14:59	1
1,2-Dichloroethane	ND		1.0		ug/L			02/04/14 14:59	1
1,2-Dichloropropane	ND		1.0		ug/L			02/04/14 14:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			02/04/14 14:59	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/14 14:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			02/04/14 14:59	1
1,4-Dioxane	ND		50		ug/L			02/04/14 14:59	1
2,2-Dichloropropane	ND		1.0		ug/L			02/04/14 14:59	1
2-Butanone (MEK)	ND		10		ug/L			02/04/14 14:59	1
2-Chlorotoluene	ND		1.0		ug/L			02/04/14 14:59	1
2-Hexanone	ND		10		ug/L			02/04/14 14:59	1
4-Chlorotoluene	ND		1.0		ug/L			02/04/14 14:59	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/14 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			02/04/14 14:59	1
Acetone	ND		50		ug/L			02/04/14 14:59	1
Benzene	ND		1.0		ug/L			02/04/14 14:59	1
Bromobenzene	ND		1.0		ug/L			02/04/14 14:59	1
Bromoform	ND		1.0		ug/L			02/04/14 14:59	1
Bromomethane	ND		2.0		ug/L			02/04/14 14:59	1
Carbon disulfide	ND		10		ug/L			02/04/14 14:59	1
Carbon tetrachloride	ND		1.0		ug/L			02/04/14 14:59	1
Chlorobenzene	ND		1.0		ug/L			02/04/14 14:59	1
Chlorobromomethane	ND		1.0		ug/L			02/04/14 14:59	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/14 14:59	1
Chloroethane	ND		2.0		ug/L			02/04/14 14:59	1
Chloroform	ND		1.0		ug/L			02/04/14 14:59	1
Chloromethane	ND		2.0		ug/L			02/04/14 14:59	1
cis-1,2-Dichloroethene	17		1.0		ug/L			02/04/14 14:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 14:59	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/14 14:59	1
Dichlorodifluoromethane	ND *		1.0		ug/L			02/04/14 14:59	1
Ethyl ether	ND		1.0		ug/L			02/04/14 14:59	1
Ethylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
Ethylene Dibromide	ND		1.0		ug/L			02/04/14 14:59	1
Hexachlorobutadiene	ND		0.40		ug/L			02/04/14 14:59	1
Isopropyl ether	ND		10		ug/L			02/04/14 14:59	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-8-20140130-01

Lab Sample ID: 480-54029-8

Date Collected: 01/30/14 12:55

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/04/14 14:59	1
Methylene Chloride	ND		1.0		ug/L			02/04/14 14:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			02/04/14 14:59	1
Naphthalene	ND		5.0		ug/L			02/04/14 14:59	1
n-Butylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
N-Propylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
o-Xylene	ND		1.0		ug/L			02/04/14 14:59	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
Styrene	ND		1.0		ug/L			02/04/14 14:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			02/04/14 14:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			02/04/14 14:59	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/14 14:59	1
Tetrachloroethene	ND		1.0		ug/L			02/04/14 14:59	1
Tetrahydrofuran	ND	*	10		ug/L			02/04/14 14:59	1
Toluene	1.0		1.0		ug/L			02/04/14 14:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 14:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 14:59	1
Trichloroethene	1.5		1.0		ug/L			02/04/14 14:59	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/14 14:59	1
Vinyl chloride	7.1		1.0		ug/L			02/04/14 14:59	1
Dibromomethane	ND		1.0		ug/L			02/04/14 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/04/14 14:59	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		02/04/14 14:59	1
4-Bromofluorobenzene (Surr)	105		70 - 130		02/04/14 14:59	1

Client Sample ID: REW-9-20140130-01

Lab Sample ID: 480-54029-9

Date Collected: 01/30/14 12:15

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			02/04/14 07:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			02/04/14 07:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/14 07:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			02/04/14 07:20	1
1,1-Dichloroethane	ND		1.0		ug/L			02/04/14 07:20	1
1,1-Dichloroethene	ND		1.0		ug/L			02/04/14 07:20	1
1,1-Dichloropropene	ND		1.0		ug/L			02/04/14 07:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/14 07:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			02/04/14 07:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/14 07:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			02/04/14 07:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			02/04/14 07:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			02/04/14 07:20	1
1,2-Dichloroethane	ND		1.0		ug/L			02/04/14 07:20	1
1,2-Dichloropropane	ND		1.0		ug/L			02/04/14 07:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			02/04/14 07:20	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-9-20140130-01

Lab Sample ID: 480-54029-9

Date Collected: 01/30/14 12:15

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			02/04/14 07:20	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/14 07:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			02/04/14 07:20	1
1,4-Dioxane	ND		50		ug/L			02/04/14 07:20	1
2,2-Dichloropropane	ND		1.0		ug/L			02/04/14 07:20	1
2-Butanone (MEK)	78		10		ug/L			02/04/14 07:20	1
2-Chlorotoluene	ND		1.0		ug/L			02/04/14 07:20	1
2-Hexanone	ND		10		ug/L			02/04/14 07:20	1
4-Chlorotoluene	ND		1.0		ug/L			02/04/14 07:20	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/14 07:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			02/04/14 07:20	1
Acetone	ND		50		ug/L			02/04/14 07:20	1
Benzene	ND		1.0		ug/L			02/04/14 07:20	1
Bromobenzene	ND		1.0		ug/L			02/04/14 07:20	1
Bromoform	ND		1.0		ug/L			02/04/14 07:20	1
Bromomethane	ND		2.0		ug/L			02/04/14 07:20	1
Carbon disulfide	ND		10		ug/L			02/04/14 07:20	1
Carbon tetrachloride	ND		1.0		ug/L			02/04/14 07:20	1
Chlorobenzene	ND		1.0		ug/L			02/04/14 07:20	1
Chlorobromomethane	ND		1.0		ug/L			02/04/14 07:20	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/14 07:20	1
Chloroethane	ND		2.0		ug/L			02/04/14 07:20	1
Chloroform	ND		1.0		ug/L			02/04/14 07:20	1
Chloromethane	ND		2.0		ug/L			02/04/14 07:20	1
cis-1,2-Dichloroethene	67		1.0		ug/L			02/04/14 07:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 07:20	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/14 07:20	1
Dichlorodifluoromethane	ND *		1.0		ug/L			02/04/14 07:20	1
Ethyl ether	ND		1.0		ug/L			02/04/14 07:20	1
Ethylbenzene	ND		1.0		ug/L			02/04/14 07:20	1
Ethylene Dibromide	ND		1.0		ug/L			02/04/14 07:20	1
Hexachlorobutadiene	ND		0.40		ug/L			02/04/14 07:20	1
Isopropyl ether	ND		10		ug/L			02/04/14 07:20	1
Isopropylbenzene	ND		1.0		ug/L			02/04/14 07:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/04/14 07:20	1
Methylene Chloride	ND		1.0		ug/L			02/04/14 07:20	1
m-Xylene & p-Xylene	3.5		2.0		ug/L			02/04/14 07:20	1
Naphthalene	ND		5.0		ug/L			02/04/14 07:20	1
n-Butylbenzene	ND		1.0		ug/L			02/04/14 07:20	1
N-Propylbenzene	ND		1.0		ug/L			02/04/14 07:20	1
o-Xylene	ND		1.0		ug/L			02/04/14 07:20	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/14 07:20	1
Styrene	ND		1.0		ug/L			02/04/14 07:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			02/04/14 07:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			02/04/14 07:20	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/14 07:20	1
Tetrachloroethene	ND		1.0		ug/L			02/04/14 07:20	1
Tetrahydrofuran	ND *		10		ug/L			02/04/14 07:20	1
Toluene	46		1.0		ug/L			02/04/14 07:20	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-9-20140130-01

Lab Sample ID: 480-54029-9

Date Collected: 01/30/14 12:15

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 07:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 07:20	1
Trichloroethene	ND		1.0		ug/L			02/04/14 07:20	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/14 07:20	1
Vinyl chloride	22		1.0		ug/L			02/04/14 07:20	1
Dibromomethane	ND		1.0		ug/L			02/04/14 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/04/14 07:20	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		02/04/14 07:20	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/04/14 07:20	1

Client Sample ID: REW-12-20140130-01

Lab Sample ID: 480-54029-10

Date Collected: 01/30/14 09:10

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			02/04/14 07:44	4
1,1,1-Trichloroethane	ND		4.0		ug/L			02/04/14 07:44	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			02/04/14 07:44	4
1,1,2-Trichloroethane	ND		4.0		ug/L			02/04/14 07:44	4
1,1-Dichloroethane	ND		4.0		ug/L			02/04/14 07:44	4
1,1-Dichloroethene	ND		4.0		ug/L			02/04/14 07:44	4
1,1-Dichloropropene	ND		4.0		ug/L			02/04/14 07:44	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			02/04/14 07:44	4
1,2,3-Trichloropropane	ND		4.0		ug/L			02/04/14 07:44	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			02/04/14 07:44	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			02/04/14 07:44	4
1,2-Dichlorobenzene	ND		4.0		ug/L			02/04/14 07:44	4
1,2-Dichloroethane	ND		4.0		ug/L			02/04/14 07:44	4
1,2-Dichloropropane	ND		4.0		ug/L			02/04/14 07:44	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
1,3-Dichlorobenzene	ND		4.0		ug/L			02/04/14 07:44	4
1,3-Dichloropropane	ND		4.0		ug/L			02/04/14 07:44	4
1,4-Dichlorobenzene	ND		4.0		ug/L			02/04/14 07:44	4
1,4-Dioxane	ND		200		ug/L			02/04/14 07:44	4
2,2-Dichloropropane	ND		4.0		ug/L			02/04/14 07:44	4
2-Butanone (MEK)	ND		40		ug/L			02/04/14 07:44	4
2-Chlorotoluene	ND		4.0		ug/L			02/04/14 07:44	4
2-Hexanone	ND		40		ug/L			02/04/14 07:44	4
4-Chlorotoluene	ND		4.0		ug/L			02/04/14 07:44	4
4-Isopropyltoluene	ND		4.0		ug/L			02/04/14 07:44	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			02/04/14 07:44	4
Acetone	ND		200		ug/L			02/04/14 07:44	4
Benzene	ND		4.0		ug/L			02/04/14 07:44	4
Bromobenzene	ND		4.0		ug/L			02/04/14 07:44	4
Bromoform	ND		4.0		ug/L			02/04/14 07:44	4
Bromomethane	ND		8.0		ug/L			02/04/14 07:44	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-12-20140130-01

Lab Sample ID: 480-54029-10

Date Collected: 01/30/14 09:10

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		40		ug/L			02/04/14 07:44	4
Carbon tetrachloride	ND		4.0		ug/L			02/04/14 07:44	4
Chlorobenzene	ND		4.0		ug/L			02/04/14 07:44	4
Chlorobromomethane	ND		4.0		ug/L			02/04/14 07:44	4
Chlorodibromomethane	ND		2.0		ug/L			02/04/14 07:44	4
Chloroethane	ND		8.0		ug/L			02/04/14 07:44	4
Chloroform	ND		4.0		ug/L			02/04/14 07:44	4
Chloromethane	ND		8.0		ug/L			02/04/14 07:44	4
cis-1,2-Dichloroethene	340		4.0		ug/L			02/04/14 07:44	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			02/04/14 07:44	4
Dichlorobromomethane	ND		2.0		ug/L			02/04/14 07:44	4
Dichlorodifluoromethane	ND *		4.0		ug/L			02/04/14 07:44	4
Ethyl ether	ND		4.0		ug/L			02/04/14 07:44	4
Ethylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
Ethylene Dibromide	ND		4.0		ug/L			02/04/14 07:44	4
Hexachlorobutadiene	ND		1.6		ug/L			02/04/14 07:44	4
Isopropyl ether	ND		40		ug/L			02/04/14 07:44	4
Isopropylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
Methyl tert-butyl ether	ND		4.0		ug/L			02/04/14 07:44	4
Methylene Chloride	ND		4.0		ug/L			02/04/14 07:44	4
m-Xylene & p-Xylene	ND		8.0		ug/L			02/04/14 07:44	4
Naphthalene	ND		20		ug/L			02/04/14 07:44	4
n-Butylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
N-Propylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
o-Xylene	ND		4.0		ug/L			02/04/14 07:44	4
sec-Butylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
Styrene	ND		4.0		ug/L			02/04/14 07:44	4
Tert-amyl methyl ether	ND		20		ug/L			02/04/14 07:44	4
Tert-butyl ethyl ether	ND		20		ug/L			02/04/14 07:44	4
tert-Butylbenzene	ND		4.0		ug/L			02/04/14 07:44	4
Tetrachloroethene	ND		4.0		ug/L			02/04/14 07:44	4
Tetrahydrofuran	ND *		40		ug/L			02/04/14 07:44	4
Toluene	23		4.0		ug/L			02/04/14 07:44	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			02/04/14 07:44	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			02/04/14 07:44	4
Trichloroethene	52		4.0		ug/L			02/04/14 07:44	4
Trichlorofluoromethane	ND		4.0		ug/L			02/04/14 07:44	4
Vinyl chloride	58		4.0		ug/L			02/04/14 07:44	4
Dibromomethane	ND		4.0		ug/L			02/04/14 07:44	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/04/14 07:44	4
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		02/04/14 07:44	4
4-Bromofluorobenzene (Surr)	108		70 - 130		02/04/14 07:44	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: DupX-20140130-01

Lab Sample ID: 480-54029-11

Date Collected: 01/30/14 00:00

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			02/04/14 15:23	20
1,1,1-Trichloroethane	ND		20		ug/L			02/04/14 15:23	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			02/04/14 15:23	20
1,1,2-Trichloroethane	ND		20		ug/L			02/04/14 15:23	20
1,1-Dichloroethane	ND		20		ug/L			02/04/14 15:23	20
1,1-Dichloroethene	ND		20		ug/L			02/04/14 15:23	20
1,1-Dichloropropene	ND		20		ug/L			02/04/14 15:23	20
1,2,3-Trichlorobenzene	ND		20		ug/L			02/04/14 15:23	20
1,2,3-Trichloropropane	ND		20		ug/L			02/04/14 15:23	20
1,2,4-Trichlorobenzene	ND		20		ug/L			02/04/14 15:23	20
1,2,4-Trimethylbenzene	ND		20		ug/L			02/04/14 15:23	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			02/04/14 15:23	20
1,2-Dichlorobenzene	ND		20		ug/L			02/04/14 15:23	20
1,2-Dichloroethane	ND		20		ug/L			02/04/14 15:23	20
1,2-Dichloropropane	ND		20		ug/L			02/04/14 15:23	20
1,3,5-Trimethylbenzene	ND		20		ug/L			02/04/14 15:23	20
1,3-Dichlorobenzene	ND		20		ug/L			02/04/14 15:23	20
1,3-Dichloropropane	ND		20		ug/L			02/04/14 15:23	20
1,4-Dichlorobenzene	ND		20		ug/L			02/04/14 15:23	20
1,4-Dioxane	ND		1000		ug/L			02/04/14 15:23	20
2,2-Dichloropropane	ND		20		ug/L			02/04/14 15:23	20
2-Butanone (MEK)	ND		200		ug/L			02/04/14 15:23	20
2-Chlorotoluene	ND		20		ug/L			02/04/14 15:23	20
2-Hexanone	ND		200		ug/L			02/04/14 15:23	20
4-Chlorotoluene	ND		20		ug/L			02/04/14 15:23	20
4-Isopropyltoluene	ND		20		ug/L			02/04/14 15:23	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			02/04/14 15:23	20
Acetone	ND		1000		ug/L			02/04/14 15:23	20
Benzene	ND		20		ug/L			02/04/14 15:23	20
Bromobenzene	ND		20		ug/L			02/04/14 15:23	20
Bromoform	ND		20		ug/L			02/04/14 15:23	20
Bromomethane	ND		40		ug/L			02/04/14 15:23	20
Carbon disulfide	ND		200		ug/L			02/04/14 15:23	20
Carbon tetrachloride	ND		20		ug/L			02/04/14 15:23	20
Chlorobenzene	ND		20		ug/L			02/04/14 15:23	20
Chlorobromomethane	ND		20		ug/L			02/04/14 15:23	20
Chlorodibromomethane	ND		10		ug/L			02/04/14 15:23	20
Chloroethane	ND		40		ug/L			02/04/14 15:23	20
Chloroform	ND		20		ug/L			02/04/14 15:23	20
Chloromethane	ND		40		ug/L			02/04/14 15:23	20
cis-1,2-Dichloroethene	ND		20		ug/L			02/04/14 15:23	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			02/04/14 15:23	20
Dichlorobromomethane	ND		10		ug/L			02/04/14 15:23	20
Dichlorodifluoromethane	ND *		20		ug/L			02/04/14 15:23	20
Ethyl ether	ND		20		ug/L			02/04/14 15:23	20
Ethylbenzene	ND		20		ug/L			02/04/14 15:23	20
Ethylene Dibromide	ND		20		ug/L			02/04/14 15:23	20
Hexachlorobutadiene	ND		8.0		ug/L			02/04/14 15:23	20
Isopropyl ether	ND		200		ug/L			02/04/14 15:23	20

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: DupX-20140130-01

Lab Sample ID: 480-54029-11

Date Collected: 01/30/14 00:00

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		20		ug/L			02/04/14 15:23	20
Methyl tert-butyl ether	ND		20		ug/L			02/04/14 15:23	20
Methylene Chloride	ND		20		ug/L			02/04/14 15:23	20
m-Xylene & p-Xylene	67		40		ug/L			02/04/14 15:23	20
Naphthalene	ND		100		ug/L			02/04/14 15:23	20
n-Butylbenzene	ND		20		ug/L			02/04/14 15:23	20
N-Propylbenzene	ND		20		ug/L			02/04/14 15:23	20
o-Xylene	ND		20		ug/L			02/04/14 15:23	20
sec-Butylbenzene	ND		20		ug/L			02/04/14 15:23	20
Styrene	ND		20		ug/L			02/04/14 15:23	20
Tert-amyl methyl ether	ND		100		ug/L			02/04/14 15:23	20
Tert-butyl ethyl ether	ND		100		ug/L			02/04/14 15:23	20
tert-Butylbenzene	ND		20		ug/L			02/04/14 15:23	20
Tetrachloroethene	ND		20		ug/L			02/04/14 15:23	20
Tetrahydrofuran	ND *		200		ug/L			02/04/14 15:23	20
Toluene	1200		20		ug/L			02/04/14 15:23	20
trans-1,2-Dichloroethene	ND		20		ug/L			02/04/14 15:23	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			02/04/14 15:23	20
Trichloroethene	ND		20		ug/L			02/04/14 15:23	20
Trichlorofluoromethane	ND		20		ug/L			02/04/14 15:23	20
Vinyl chloride	250		20		ug/L			02/04/14 15:23	20
Dibromomethane	ND		20		ug/L			02/04/14 15:23	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		02/04/14 15:23	20
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		02/04/14 15:23	20
4-Bromofluorobenzene (Surr)	106		70 - 130		02/04/14 15:23	20

Client Sample ID: Trip Blank

Lab Sample ID: 480-54029-12

Date Collected: 01/30/14 00:00

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			02/04/14 15:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			02/04/14 15:47	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/14 15:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			02/04/14 15:47	1
1,1-Dichloroethane	ND		1.0		ug/L			02/04/14 15:47	1
1,1-Dichloroethene	ND		1.0		ug/L			02/04/14 15:47	1
1,1-Dichloropropene	ND		1.0		ug/L			02/04/14 15:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/14 15:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			02/04/14 15:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/14 15:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			02/04/14 15:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			02/04/14 15:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			02/04/14 15:47	1
1,2-Dichloroethane	ND		1.0		ug/L			02/04/14 15:47	1
1,2-Dichloropropane	ND		1.0		ug/L			02/04/14 15:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			02/04/14 15:47	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-54029-12

Date Collected: 01/30/14 00:00

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			02/04/14 15:47	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/14 15:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			02/04/14 15:47	1
1,4-Dioxane	ND		50		ug/L			02/04/14 15:47	1
2,2-Dichloropropane	ND		1.0		ug/L			02/04/14 15:47	1
2-Butanone (MEK)	ND		10		ug/L			02/04/14 15:47	1
2-Chlorotoluene	ND		1.0		ug/L			02/04/14 15:47	1
2-Hexanone	ND		10		ug/L			02/04/14 15:47	1
4-Chlorotoluene	ND		1.0		ug/L			02/04/14 15:47	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/14 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			02/04/14 15:47	1
Acetone	ND		50		ug/L			02/04/14 15:47	1
Benzene	ND		1.0		ug/L			02/04/14 15:47	1
Bromobenzene	ND		1.0		ug/L			02/04/14 15:47	1
Bromoform	ND		1.0		ug/L			02/04/14 15:47	1
Bromomethane	ND		2.0		ug/L			02/04/14 15:47	1
Carbon disulfide	ND		10		ug/L			02/04/14 15:47	1
Carbon tetrachloride	ND		1.0		ug/L			02/04/14 15:47	1
Chlorobenzene	ND		1.0		ug/L			02/04/14 15:47	1
Chlorobromomethane	ND		1.0		ug/L			02/04/14 15:47	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/14 15:47	1
Chloroethane	ND		2.0		ug/L			02/04/14 15:47	1
Chloroform	ND		1.0		ug/L			02/04/14 15:47	1
Chloromethane	ND		2.0		ug/L			02/04/14 15:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 15:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 15:47	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/14 15:47	1
Dichlorodifluoromethane	ND *		1.0		ug/L			02/04/14 15:47	1
Ethyl ether	ND		1.0		ug/L			02/04/14 15:47	1
Ethylbenzene	ND		1.0		ug/L			02/04/14 15:47	1
Ethylene Dibromide	ND		1.0		ug/L			02/04/14 15:47	1
Hexachlorobutadiene	ND		0.40		ug/L			02/04/14 15:47	1
Isopropyl ether	ND		10		ug/L			02/04/14 15:47	1
Isopropylbenzene	ND		1.0		ug/L			02/04/14 15:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/04/14 15:47	1
Methylene Chloride	ND		1.0		ug/L			02/04/14 15:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			02/04/14 15:47	1
Naphthalene	ND		5.0		ug/L			02/04/14 15:47	1
n-Butylbenzene	ND		1.0		ug/L			02/04/14 15:47	1
N-Propylbenzene	ND		1.0		ug/L			02/04/14 15:47	1
o-Xylene	ND		1.0		ug/L			02/04/14 15:47	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/14 15:47	1
Styrene	ND		1.0		ug/L			02/04/14 15:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			02/04/14 15:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			02/04/14 15:47	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/14 15:47	1
Tetrachloroethene	ND		1.0		ug/L			02/04/14 15:47	1
Tetrahydrofuran	ND *		10		ug/L			02/04/14 15:47	1
Toluene	ND		1.0		ug/L			02/04/14 15:47	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-54029-12

Date Collected: 01/30/14 00:00

Matrix: Water

Date Received: 01/31/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 15:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 15:47	1
Trichloroethene	ND		1.0		ug/L			02/04/14 15:47	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/14 15:47	1
Vinyl chloride	ND		1.0		ug/L			02/04/14 15:47	1
Dibromomethane	ND		1.0		ug/L			02/04/14 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/04/14 15:47	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		02/04/14 15:47	1
4-Bromofluorobenzene (Surr)	101		70 - 130		02/04/14 15:47	1

Surrogate Summary

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

TestAmerica Job ID: 480-54029-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-54029-1	MW-267S-20140130-01	102	98	104
480-54029-2	MW-267M-20140130-01	102	100	103
480-54029-3	MW-268M-20140130-01	106	100	109
480-54029-3 - DL	MW-268M-20140130-01	103	98	102
480-54029-3 MS	MW-268M-20140130-01	100	96	107
480-54029-3 MSD	MW-268M-20140130-01	100	97	106
480-54029-4	MW-561-20140130-01	101	98	104
480-54029-4 - DL	MW-561-20140130-01	101	100	105
480-54029-5	MW-553-20140130-01	102	99	103
480-54029-6	REW-6-20140130-01	102	98	104
480-54029-7	REW-7-20140130-01	103	96	104
480-54029-8	REW-8-20140130-01	101	98	105
480-54029-9	REW-9-20140130-01	101	98	106
480-54029-10	REW-12-20140130-01	101	101	108
480-54029-11	DupX-20140130-01	103	99	106
480-54029-12	Trip Blank	101	98	101
LCS 480-164338/4	Lab Control Sample	103	97	105
LCS 480-164408/4	Lab Control Sample	102	96	109
LCS 480-164532/4	Lab Control Sample	100	99	107
LCSD 480-164338/5	Lab Control Sample Dup	103	97	106
LCSD 480-164408/5	Lab Control Sample Dup	101	96	109
LCSD 480-164532/5	Lab Control Sample Dup	102	98	106
MB 480-164338/7	Method Blank	104	98	103
MB 480-164408/7	Method Blank	102	97	103
MB 480-164532/7	Method Blank	104	100	105

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: MB 480-164338/7

Matrix: Water

Analysis Batch: 164338

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			02/03/14 23:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			02/03/14 23:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/03/14 23:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			02/03/14 23:58	1
1,1-Dichloroethane	ND		1.0		ug/L			02/03/14 23:58	1
1,1-Dichloroethene	ND		1.0		ug/L			02/03/14 23:58	1
1,1-Dichloropropene	ND		1.0		ug/L			02/03/14 23:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/03/14 23:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			02/03/14 23:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/03/14 23:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			02/03/14 23:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			02/03/14 23:58	1
1,2-Dichloroethane	ND		1.0		ug/L			02/03/14 23:58	1
1,2-Dichloropropane	ND		1.0		ug/L			02/03/14 23:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			02/03/14 23:58	1
1,3-Dichloropropane	ND		1.0		ug/L			02/03/14 23:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			02/03/14 23:58	1
1,4-Dioxane	ND		50		ug/L			02/03/14 23:58	1
2,2-Dichloropropane	ND		1.0		ug/L			02/03/14 23:58	1
2-Butanone (MEK)	ND		10		ug/L			02/03/14 23:58	1
2-Chlorotoluene	ND		1.0		ug/L			02/03/14 23:58	1
2-Hexanone	ND		10		ug/L			02/03/14 23:58	1
4-Chlorotoluene	ND		1.0		ug/L			02/03/14 23:58	1
4-Isopropyltoluene	ND		1.0		ug/L			02/03/14 23:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			02/03/14 23:58	1
Acetone	ND		50		ug/L			02/03/14 23:58	1
Benzene	ND		1.0		ug/L			02/03/14 23:58	1
Bromobenzene	ND		1.0		ug/L			02/03/14 23:58	1
Bromoform	ND		1.0		ug/L			02/03/14 23:58	1
Bromomethane	ND		2.0		ug/L			02/03/14 23:58	1
Carbon disulfide	ND		10		ug/L			02/03/14 23:58	1
Carbon tetrachloride	ND		1.0		ug/L			02/03/14 23:58	1
Chlorobenzene	ND		1.0		ug/L			02/03/14 23:58	1
Chlorobromomethane	ND		1.0		ug/L			02/03/14 23:58	1
Chlorodibromomethane	ND		0.50		ug/L			02/03/14 23:58	1
Chloroethane	ND		2.0		ug/L			02/03/14 23:58	1
Chloroform	ND		1.0		ug/L			02/03/14 23:58	1
Chloromethane	ND		2.0		ug/L			02/03/14 23:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			02/03/14 23:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			02/03/14 23:58	1
Dichlorobromomethane	ND		0.50		ug/L			02/03/14 23:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			02/03/14 23:58	1
Ethyl ether	ND		1.0		ug/L			02/03/14 23:58	1
Ethylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
Ethylene Dibromide	ND		1.0		ug/L			02/03/14 23:58	1
Hexachlorobutadiene	ND		0.40		ug/L			02/03/14 23:58	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: MB 480-164338/7

Matrix: Water

Analysis Batch: 164338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			02/03/14 23:58	1
Isopropylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/03/14 23:58	1
Methylene Chloride	ND		1.0		ug/L			02/03/14 23:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			02/03/14 23:58	1
Naphthalene	ND		5.0		ug/L			02/03/14 23:58	1
n-Butylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
N-Propylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
o-Xylene	ND		1.0		ug/L			02/03/14 23:58	1
sec-Butylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
Styrene	ND		1.0		ug/L			02/03/14 23:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			02/03/14 23:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			02/03/14 23:58	1
tert-Butylbenzene	ND		1.0		ug/L			02/03/14 23:58	1
Tetrachloroethene	ND		1.0		ug/L			02/03/14 23:58	1
Tetrahydrofuran	ND		10		ug/L			02/03/14 23:58	1
Toluene	ND		1.0		ug/L			02/03/14 23:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/03/14 23:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			02/03/14 23:58	1
Trichloroethene	ND		1.0		ug/L			02/03/14 23:58	1
Trichlorofluoromethane	ND		1.0		ug/L			02/03/14 23:58	1
Vinyl chloride	ND		1.0		ug/L			02/03/14 23:58	1
Dibromomethane	ND		1.0		ug/L			02/03/14 23:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		70 - 130		02/03/14 23:58	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		02/03/14 23:58	1
4-Bromofluorobenzene (Surr)	103		70 - 130		02/03/14 23:58	1

Lab Sample ID: LCS 480-164338/4

Matrix: Water

Analysis Batch: 164338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130
1,1-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	25.0	28.5		ug/L		114	70 - 130
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	27.9		ug/L		112	70 - 130
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	25.0		ug/L		100	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCS 480-164338/4

Matrix: Water

Analysis Batch: 164338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dioxane	500	501		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	25.9		ug/L		103	70 - 130
2-Butanone (MEK)	125	136		ug/L		108	70 - 130
2-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
2-Hexanone	125	132		ug/L		105	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	70 - 130
Acetone	125	134		ug/L		107	70 - 130
Benzene	25.0	25.6		ug/L		102	70 - 130
Bromobenzene	25.0	26.5		ug/L		106	70 - 130
Bromoform	25.0	26.3		ug/L		105	70 - 130
Bromomethane	25.0	24.2		ug/L		97	70 - 130
Carbon disulfide	25.0	25.8		ug/L		103	70 - 130
Carbon tetrachloride	25.0	26.9		ug/L		108	70 - 130
Chlorobenzene	25.0	27.0		ug/L		108	70 - 130
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Chlorodibromomethane	24.5	25.9		ug/L		106	70 - 130
Chloroethane	25.0	25.5		ug/L		102	70 - 130
Chloroform	25.0	24.1		ug/L		96	70 - 130
Chloromethane	25.0	20.8		ug/L		83	70 - 130
cis-1,2-Dichloroethene	25.0	26.6		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	70 - 130
Dichlorobromomethane	25.0	25.1		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	16.1	*	ug/L		64	70 - 130
Ethyl ether	25.0	25.8		ug/L		103	70 - 130
Ethylbenzene	25.0	26.8		ug/L		107	70 - 130
Ethylene Dibromide	25.0	24.7		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	26.9		ug/L		107	70 - 130
Isopropyl ether	25.0	25.7		ug/L		103	70 - 130
Isopropylbenzene	25.0	25.4		ug/L		102	70 - 130
Methyl tert-butyl ether	25.0	24.6		ug/L		98	70 - 130
Methylene Chloride	25.0	24.6		ug/L		98	70 - 130
m-Xylene & p-Xylene	25.0	24.8		ug/L		99	70 - 130
Naphthalene	25.0	28.0		ug/L		112	70 - 130
n-Butylbenzene	25.0	27.2		ug/L		109	70 - 130
N-Propylbenzene	25.0	26.2		ug/L		105	70 - 130
o-Xylene	25.0	25.0		ug/L		100	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		103	70 - 130
Styrene	25.0	25.4		ug/L		102	70 - 130
Tert-amyl methyl ether	25.0	25.1		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130
tert-Butylbenzene	25.0	28.1		ug/L		113	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCS 480-164338/4

Matrix: Water

Analysis Batch: 164338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	27.2		ug/L		109	70 - 130
Tetrahydrofuran	50.0	65.9	*	ug/L		132	70 - 130
Toluene	25.0	26.4		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	26.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
Trichloroethene	25.0	27.1		ug/L		108	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	70 - 130
Vinyl chloride	25.0	21.5		ug/L		86	70 - 130
Dibromomethane	25.0	25.6		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 480-164338/5

Matrix: Water

Analysis Batch: 164338

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	70 - 130	2	20
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130	2	20
1,1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethane	25.0	25.5		ug/L		102	70 - 130	1	20
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	2	20
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	28.1		ug/L		112	70 - 130	2	20
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	27.5		ug/L		110	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	70 - 130	4	20
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	0	20
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130	0	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	1	20
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130	1	20
1,4-Dioxane	500	523		ug/L		105	70 - 130	4	20
2,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	6	20
2-Butanone (MEK)	125	144		ug/L		115	70 - 130	6	20
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130	2	20
2-Hexanone	125	129		ug/L		103	70 - 130	2	20
4-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130	2	20
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130	1	20
Acetone	125	138		ug/L		111	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCSD 480-164338/5

Matrix: Water

Analysis Batch: 164338

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Benzene	25.0	25.2		ug/L		101	70 - 130	1	20	
Bromobenzene	25.0	26.3		ug/L		105	70 - 130	1	20	
Bromoform	25.0	26.4		ug/L		105	70 - 130	0	20	
Bromomethane	25.0	24.8		ug/L		99	70 - 130	3	20	
Carbon disulfide	25.0	25.6		ug/L		102	70 - 130	1	20	
Carbon tetrachloride	25.0	26.4		ug/L		105	70 - 130	2	20	
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130	3	20	
Chlorobromomethane	25.0	25.8		ug/L		103	70 - 130	3	20	
Chlorodibromomethane	24.5	25.9		ug/L		106	70 - 130	0	20	
Chloroethane	25.0	24.8		ug/L		99	70 - 130	3	20	
Chloroform	25.0	23.7		ug/L		95	70 - 130	2	20	
Chloromethane	25.0	20.3		ug/L		81	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	2	20	
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130	1	20	
Dichlorodifluoromethane	25.0	15.5 *		ug/L		62	70 - 130	4	20	
Ethyl ether	25.0	26.1		ug/L		104	70 - 130	1	20	
Ethylbenzene	25.0	26.0		ug/L		104	70 - 130	3	20	
Ethylene Dibromide	25.0	24.1		ug/L		96	70 - 130	2	20	
Hexachlorobutadiene	25.0	26.0		ug/L		104	70 - 130	3	20	
Isopropyl ether	25.0	25.8		ug/L		103	70 - 130	0	20	
Isopropylbenzene	25.0	24.9		ug/L		100	70 - 130	2	20	
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130	0	20	
Methylene Chloride	25.0	23.8		ug/L		95	70 - 130	3	20	
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 130	2	20	
Naphthalene	25.0	27.6		ug/L		110	70 - 130	1	20	
n-Butylbenzene	25.0	26.8		ug/L		107	70 - 130	2	20	
N-Propylbenzene	25.0	25.8		ug/L		103	70 - 130	2	20	
o-Xylene	25.0	24.5		ug/L		98	70 - 130	2	20	
sec-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	0	20	
Styrene	25.0	25.2		ug/L		101	70 - 130	1	20	
Tert-amyl methyl ether	25.0	25.4		ug/L		102	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	24.4		ug/L		98	70 - 130	1	20	
tert-Butylbenzene	25.0	27.2		ug/L		109	70 - 130	3	20	
Tetrachloroethene	25.0	26.4		ug/L		106	70 - 130	3	20	
Tetrahydrofuran	50.0	65.5 *		ug/L		131	70 - 130	1	20	
Toluene	25.0	25.4		ug/L		102	70 - 130	4	20	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130	3	20	
trans-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	2	20	
Trichloroethene	25.0	26.4		ug/L		106	70 - 130	2	20	
Trichlorofluoromethane	25.0	23.9		ug/L		96	70 - 130	3	20	
Vinyl chloride	25.0	20.5		ug/L		82	70 - 130	5	20	
Dibromomethane	25.0	26.2		ug/L		105	70 - 130	2	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: 480-54029-3 MS

Matrix: Water

Analysis Batch: 164338

Client Sample ID: MW-268M-20140130-01

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		625	647		ug/L		104	70 - 130
1,1,1-Trichloroethane	ND		625	632		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	ND		625	628		ug/L		100	70 - 130
1,1,2-Trichloroethane	ND		625	614		ug/L		98	70 - 130
1,1-Dichloroethane	ND		625	643		ug/L		101	70 - 130
1,1-Dichloroethene	ND		625	614		ug/L		98	70 - 130
1,1-Dichloropropene	ND		625	627		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	ND		625	665		ug/L		106	70 - 130
1,2,3-Trichloropropane	ND		625	623		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	ND		625	647		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	ND		625	618		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	ND		625	615		ug/L		98	70 - 130
1,2-Dichlorobenzene	ND		625	654		ug/L		105	70 - 130
1,2-Dichloroethane	ND		625	612		ug/L		98	70 - 130
1,2-Dichloropropane	ND		625	633		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	ND		625	622		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		625	660		ug/L		106	70 - 130
1,3-Dichloropropane	ND		625	613		ug/L		98	70 - 130
1,4-Dichlorobenzene	ND		625	652		ug/L		104	70 - 130
1,4-Dioxane	ND		12500	13000		ug/L		104	70 - 130
2,2-Dichloropropane	ND		625	521		ug/L		83	70 - 130
2-Butanone (MEK)	ND		3130	5490	F1	ug/L		176	70 - 130
2-Chlorotoluene	ND		625	656		ug/L		105	70 - 130
2-Hexanone	ND		3130	3240		ug/L		104	70 - 130
4-Chlorotoluene	ND		625	601		ug/L		96	70 - 130
4-Isopropyltoluene	ND		625	666		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		3130	3120		ug/L		100	70 - 130
Acetone	ND		3130	3220		ug/L		103	70 - 130
Benzene	ND		625	620		ug/L		99	70 - 130
Bromobenzene	ND		625	653		ug/L		105	70 - 130
Bromoform	ND		625	520		ug/L		83	70 - 130
Bromomethane	ND		625	784		ug/L		125	70 - 130
Carbon disulfide	ND		625	564		ug/L		90	70 - 130
Carbon tetrachloride	ND		625	610		ug/L		98	70 - 130
Chlorobenzene	ND		625	656		ug/L		105	70 - 130
Chlorobromomethane	ND		625	637		ug/L		102	70 - 130
Chlorodibromomethane	ND		613	582		ug/L		95	70 - 130
Chloroethane	ND		625	743		ug/L		119	70 - 130
Chloroform	ND		625	585		ug/L		94	70 - 130
Chloromethane	ND		625	452		ug/L		72	70 - 130
cis-1,2-Dichloroethene	2500		625	2830	E 4	ug/L		51	70 - 130
cis-1,3-Dichloropropene	ND		625	584		ug/L		93	70 - 130
Dichlorobromomethane	ND		625	592		ug/L		95	70 - 130
Dichlorodifluoromethane	ND *		625	453		ug/L		73	70 - 130
Ethyl ether	ND		625	630		ug/L		101	70 - 130
Ethylbenzene	ND		625	643		ug/L		103	70 - 130
Ethylene Dibromide	ND		625	600		ug/L		96	70 - 130
Hexachlorobutadiene	ND		625	624		ug/L		100	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: 480-54029-3 MS

Matrix: Water

Analysis Batch: 164338

Client Sample ID: MW-268M-20140130-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Isopropyl ether	ND		625	626		ug/L		100	70 - 130
Isopropylbenzene	ND		625	621		ug/L		99	70 - 130
Methyl tert-butyl ether	ND		625	609		ug/L		97	70 - 130
Methylene Chloride	ND		625	589		ug/L		94	70 - 130
m-Xylene & p-Xylene	ND		625	613		ug/L		98	70 - 130
Naphthalene	ND		625	670		ug/L		107	70 - 130
n-Butylbenzene	ND		625	652		ug/L		104	70 - 130
N-Propylbenzene	ND		625	632		ug/L		101	70 - 130
o-Xylene	ND		625	610		ug/L		98	70 - 130
sec-Butylbenzene	ND		625	631		ug/L		101	70 - 130
Styrene	ND		625	625		ug/L		100	70 - 130
Tert-amyl methyl ether	ND		625	616		ug/L		99	70 - 130
Tert-butyl ethyl ether	ND		625	605		ug/L		97	70 - 130
tert-Butylbenzene	ND		625	675		ug/L		108	70 - 130
Tetrachloroethene	37		625	675		ug/L		102	70 - 130
Tetrahydrofuran	ND *		1250	1570		ug/L		126	70 - 130
Toluene	ND		625	639		ug/L		102	70 - 130
trans-1,2-Dichloroethene	ND		625	654		ug/L		105	70 - 130
trans-1,3-Dichloropropene	ND		625	547		ug/L		88	70 - 130
Trichloroethene	1100		625	1520		ug/L		70	70 - 130
Trichlorofluoromethane	ND		625	574		ug/L		92	70 - 130
Vinyl chloride	210		625	695		ug/L		78	70 - 130
Dibromomethane	ND		625	633		ug/L		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 480-54029-3 MSD

Matrix: Water

Analysis Batch: 164338

Client Sample ID: MW-268M-20140130-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		625	663		ug/L		106	70 - 130	2	20
1,1,1-Trichloroethane	ND		625	654		ug/L		105	70 - 130	3	20
1,1,1,2-Tetrachloroethane	ND		625	620		ug/L		99	70 - 130	1	20
1,1,2-Trichloroethane	ND		625	613		ug/L		98	70 - 130	0	20
1,1-Dichloroethane	ND		625	641		ug/L		101	70 - 130	0	20
1,1-Dichloroethene	ND		625	645		ug/L		103	70 - 130	5	20
1,1-Dichloropropene	ND		625	636		ug/L		102	70 - 130	2	20
1,2,3-Trichlorobenzene	ND		625	653		ug/L		105	70 - 130	2	20
1,2,3-Trichloropropane	ND		625	596		ug/L		95	70 - 130	4	20
1,2,4-Trichlorobenzene	ND		625	659		ug/L		105	70 - 130	2	20
1,2,4-Trimethylbenzene	ND		625	627		ug/L		100	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		625	602		ug/L		96	70 - 130	2	20
1,2-Dichlorobenzene	ND		625	655		ug/L		105	70 - 130	0	20
1,2-Dichloroethane	ND		625	614		ug/L		98	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: 480-54029-3 MSD

Matrix: Water

Analysis Batch: 164338

Client Sample ID: MW-268M-20140130-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2-Dichloropropane	ND		625	638		ug/L		102	70 - 130	1	20
1,3,5-Trimethylbenzene	ND		625	622		ug/L		99	70 - 130	0	20
1,3-Dichlorobenzene	ND		625	656		ug/L		105	70 - 130	1	20
1,3-Dichloropropane	ND		625	617		ug/L		99	70 - 130	1	20
1,4-Dichlorobenzene	ND		625	651		ug/L		104	70 - 130	0	20
1,4-Dioxane	ND		12500	13800		ug/L		110	70 - 130	6	20
2,2-Dichloropropane	ND		625	549		ug/L		88	70 - 130	5	20
2-Butanone (MEK)	ND		3130	5550	F 1	ug/L		178	70 - 130	1	20
2-Chlorotoluene	ND		625	655		ug/L		105	70 - 130	0	20
2-Hexanone	ND		3130	3270		ug/L		105	70 - 130	1	20
4-Chlorotoluene	ND		625	603		ug/L		96	70 - 130	0	20
4-Isopropyltoluene	ND		625	670		ug/L		107	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		3130	3090		ug/L		99	70 - 130	1	20
Acetone	ND		3130	3220		ug/L		103	70 - 130	0	20
Benzene	ND		625	630		ug/L		101	70 - 130	2	20
Bromobenzene	ND		625	649		ug/L		104	70 - 130	1	20
Bromoform	ND		625	542		ug/L		87	70 - 130	4	20
Bromomethane	ND		625	703		ug/L		112	70 - 130	11	20
Carbon disulfide	ND		625	585		ug/L		94	70 - 130	4	20
Carbon tetrachloride	ND		625	636		ug/L		102	70 - 130	4	20
Chlorobenzene	ND		625	668		ug/L		107	70 - 130	2	20
Chlorobromomethane	ND		625	657		ug/L		105	70 - 130	3	20
Chlorodibromomethane	ND		613	581		ug/L		95	70 - 130	0	20
Chloroethane	ND		625	692		ug/L		111	70 - 130	7	20
Chloroform	ND		625	595		ug/L		95	70 - 130	2	20
Chloromethane	ND		625	489		ug/L		78	70 - 130	8	20
cis-1,2-Dichloroethene	2500		625	2840	E 4	ug/L		54	70 - 130	1	20
cis-1,3-Dichloropropene	ND		625	586		ug/L		94	70 - 130	0	20
Dichlorobromomethane	ND		625	600		ug/L		96	70 - 130	1	20
Dichlorodifluoromethane	ND *		625	455		ug/L		73	70 - 130	0	20
Ethyl ether	ND		625	634		ug/L		101	70 - 130	1	20
Ethylbenzene	ND		625	656		ug/L		105	70 - 130	2	20
Ethylene Dibromide	ND		625	603		ug/L		97	70 - 130	0	20
Hexachlorobutadiene	ND		625	627		ug/L		100	70 - 130	0	20
Isopropyl ether	ND		625	628		ug/L		101	70 - 130	0	20
Isopropylbenzene	ND		625	624		ug/L		100	70 - 130	0	20
Methyl tert-butyl ether	ND		625	604		ug/L		97	70 - 130	1	20
Methylene Chloride	ND		625	599		ug/L		96	70 - 130	2	20
m-Xylene & p-Xylene	ND		625	629		ug/L		101	70 - 130	3	20
Naphthalene	ND		625	662		ug/L		106	70 - 130	1	20
n-Butylbenzene	ND		625	657		ug/L		105	70 - 130	1	20
N-Propylbenzene	ND		625	641		ug/L		103	70 - 130	1	20
o-Xylene	ND		625	619		ug/L		99	70 - 130	1	20
sec-Butylbenzene	ND		625	637		ug/L		102	70 - 130	1	20
Styrene	ND		625	640		ug/L		102	70 - 130	2	20
Tert-amyl methyl ether	ND		625	620		ug/L		99	70 - 130	1	20
Tert-butyl ethyl ether	ND		625	601		ug/L		96	70 - 130	1	20
tert-Butylbenzene	ND		625	672		ug/L		107	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: 480-54029-3 MSD

Matrix: Water

Analysis Batch: 164338

Client Sample ID: MW-268M-20140130-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Tetrachloroethene	37		625	669		ug/L		101	70 - 130	1	20
Tetrahydrofuran	ND	*	1250	1580		ug/L		126	70 - 130	1	20
Toluene	ND		625	647		ug/L		104	70 - 130	1	20
trans-1,2-Dichloroethene	ND		625	661		ug/L		106	70 - 130	1	20
trans-1,3-Dichloropropene	ND		625	560		ug/L		90	70 - 130	2	20
Trichloroethene	1100		625	1550		ug/L		74	70 - 130	2	20
Trichlorofluoromethane	ND		625	613		ug/L		98	70 - 130	7	20
Vinyl chloride	210		625	705		ug/L		80	70 - 130	1	20
Dibromomethane	ND		625	635		ug/L		102	70 - 130	0	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Toluene-d8 (Surr)	100		70 - 130								
1,2-Dichloroethane-d4 (Surr)	97		70 - 130								
4-Bromofluorobenzene (Surr)	106		70 - 130								

Lab Sample ID: MB 480-164408/7

Matrix: Water

Analysis Batch: 164408

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			02/04/14 12:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			02/04/14 12:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/14 12:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			02/04/14 12:22	1
1,1-Dichloroethane	ND		1.0		ug/L			02/04/14 12:22	1
1,1-Dichloroethene	ND		1.0		ug/L			02/04/14 12:22	1
1,1-Dichloropropene	ND		1.0		ug/L			02/04/14 12:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/14 12:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			02/04/14 12:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/14 12:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			02/04/14 12:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			02/04/14 12:22	1
1,2-Dichloroethane	ND		1.0		ug/L			02/04/14 12:22	1
1,2-Dichloropropane	ND		1.0		ug/L			02/04/14 12:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			02/04/14 12:22	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/14 12:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			02/04/14 12:22	1
1,4-Dioxane	ND		50		ug/L			02/04/14 12:22	1
2,2-Dichloropropane	ND		1.0		ug/L			02/04/14 12:22	1
2-Butanone (MEK)	ND		10		ug/L			02/04/14 12:22	1
2-Chlorotoluene	ND		1.0		ug/L			02/04/14 12:22	1
2-Hexanone	ND		10		ug/L			02/04/14 12:22	1
4-Chlorotoluene	ND		1.0		ug/L			02/04/14 12:22	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/14 12:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			02/04/14 12:22	1
Acetone	ND		50		ug/L			02/04/14 12:22	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: MB 480-164408/7

Matrix: Water

Analysis Batch: 164408

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.0		ug/L			02/04/14 12:22	1
Bromobenzene	ND		1.0		ug/L			02/04/14 12:22	1
Bromoform	ND		1.0		ug/L			02/04/14 12:22	1
Bromomethane	ND		2.0		ug/L			02/04/14 12:22	1
Carbon disulfide	ND		10		ug/L			02/04/14 12:22	1
Carbon tetrachloride	ND		1.0		ug/L			02/04/14 12:22	1
Chlorobenzene	ND		1.0		ug/L			02/04/14 12:22	1
Chlorobromomethane	ND		1.0		ug/L			02/04/14 12:22	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/14 12:22	1
Chloroethane	ND		2.0		ug/L			02/04/14 12:22	1
Chloroform	ND		1.0		ug/L			02/04/14 12:22	1
Chloromethane	ND		2.0		ug/L			02/04/14 12:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 12:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 12:22	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/14 12:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			02/04/14 12:22	1
Ethyl ether	ND		1.0		ug/L			02/04/14 12:22	1
Ethylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
Ethylene Dibromide	ND		1.0		ug/L			02/04/14 12:22	1
Hexachlorobutadiene	ND		0.40		ug/L			02/04/14 12:22	1
Isopropyl ether	ND		10		ug/L			02/04/14 12:22	1
Isopropylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/04/14 12:22	1
Methylene Chloride	ND		1.0		ug/L			02/04/14 12:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			02/04/14 12:22	1
Naphthalene	ND		5.0		ug/L			02/04/14 12:22	1
n-Butylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
N-Propylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
o-Xylene	ND		1.0		ug/L			02/04/14 12:22	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
Styrene	ND		1.0		ug/L			02/04/14 12:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			02/04/14 12:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			02/04/14 12:22	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/14 12:22	1
Tetrachloroethene	ND		1.0		ug/L			02/04/14 12:22	1
Tetrahydrofuran	ND		10		ug/L			02/04/14 12:22	1
Toluene	ND		1.0		ug/L			02/04/14 12:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 12:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 12:22	1
Trichloroethene	ND		1.0		ug/L			02/04/14 12:22	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/14 12:22	1
Vinyl chloride	ND		1.0		ug/L			02/04/14 12:22	1
Dibromomethane	ND		1.0		ug/L			02/04/14 12:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	102		70 - 130		02/04/14 12:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		02/04/14 12:22	1
4-Bromofluorobenzene (Surr)	103		70 - 130		02/04/14 12:22	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCS 480-164408/4

Matrix: Water

Analysis Batch: 164408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.8		ug/L		111	70 - 130
1,1,1-Trichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130
1,1-Dichloroethane	25.0	27.1		ug/L		108	70 - 130
1,1-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	27.0		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	28.1		ug/L		112	70 - 130
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	28.7		ug/L		115	70 - 130
1,2,4-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	70 - 130
1,2-Dichlorobenzene	25.0	27.4		ug/L		109	70 - 130
1,2-Dichloroethane	25.0	26.0		ug/L		104	70 - 130
1,2-Dichloropropane	25.0	26.4		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	27.8		ug/L		111	70 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	27.5		ug/L		110	70 - 130
1,4-Dioxane	500	563		ug/L		113	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
2-Butanone (MEK)	125	145		ug/L		116	70 - 130
2-Chlorotoluene	25.0	27.4		ug/L		110	70 - 130
2-Hexanone	125	138		ug/L		111	70 - 130
4-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	28.3		ug/L		113	70 - 130
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130
Acetone	125	145		ug/L		116	70 - 130
Benzene	25.0	26.0		ug/L		104	70 - 130
Bromobenzene	25.0	27.0		ug/L		108	70 - 130
Bromoform	25.0	28.4		ug/L		114	70 - 130
Bromomethane	25.0	25.8		ug/L		103	70 - 130
Carbon disulfide	25.0	26.2		ug/L		105	70 - 130
Carbon tetrachloride	25.0	27.3		ug/L		109	70 - 130
Chlorobenzene	25.0	27.5		ug/L		110	70 - 130
Chlorobromomethane	25.0	27.3		ug/L		109	70 - 130
Chlorodibromomethane	24.5	27.7		ug/L		113	70 - 130
Chloroethane	25.0	25.7		ug/L		103	70 - 130
Chloroform	25.0	24.8		ug/L		99	70 - 130
Chloromethane	25.0	18.5		ug/L		74	70 - 130
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	70 - 130
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
Dichlorobromomethane	25.0	26.6		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	12.8 *		ug/L		51	70 - 130
Ethyl ether	25.0	26.1		ug/L		105	70 - 130
Ethylbenzene	25.0	27.5		ug/L		110	70 - 130
Ethylene Dibromide	25.0	25.4		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCS 480-164408/4

Matrix: Water

Analysis Batch: 164408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	25.0	25.3		ug/L		101	70 - 130
Isopropylbenzene	25.0	25.9		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	25.3		ug/L		101	70 - 130
Methylene Chloride	25.0	24.9		ug/L		99	70 - 130
m-Xylene & p-Xylene	25.0	26.4		ug/L		105	70 - 130
Naphthalene	25.0	27.7		ug/L		111	70 - 130
n-Butylbenzene	25.0	28.1		ug/L		113	70 - 130
N-Propylbenzene	25.0	26.8		ug/L		107	70 - 130
o-Xylene	25.0	26.3		ug/L		105	70 - 130
sec-Butylbenzene	25.0	26.7		ug/L		107	70 - 130
Styrene	25.0	27.0		ug/L		108	70 - 130
Tert-amyl methyl ether	25.0	25.1		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130
tert-Butylbenzene	25.0	28.6		ug/L		115	70 - 130
Tetrachloroethene	25.0	27.7		ug/L		111	70 - 130
Tetrahydrofuran	50.0	67.2	*	ug/L		134	70 - 130
Toluene	25.0	27.0		ug/L		108	70 - 130
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
Trichloroethene	25.0	27.4		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	23.3		ug/L		93	70 - 130
Vinyl chloride	25.0	20.0		ug/L		80	70 - 130
Dibromomethane	25.0	26.1		ug/L		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 480-164408/5

Matrix: Water

Analysis Batch: 164408

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/L		108	70 - 130	3	20
1,1,1-Trichloroethane	25.0	26.1		ug/L		105	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130	5	20
1,1-Dichloroethane	25.0	26.6		ug/L		106	70 - 130	2	20
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	3	20
1,1-Dichloropropene	25.0	26.4		ug/L		106	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130	4	20
1,2,3-Trichloropropane	25.0	24.1		ug/L		96	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	70 - 130	2	20
1,2-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130	3	20
1,2-Dichloroethane	25.0	25.6		ug/L		102	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCSD 480-164408/5

Matrix: Water

Analysis Batch: 164408

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
1,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130	4	20
1,3-Dichloropropane	25.0	25.6		ug/L		102	70 - 130	1	20
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130	4	20
1,4-Dioxane	500	542		ug/L		108	70 - 130	4	20
2,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 130	3	20
2-Butanone (MEK)	125	147		ug/L		117	70 - 130	1	20
2-Chlorotoluene	25.0	26.6		ug/L		106	70 - 130	3	20
2-Hexanone	125	134		ug/L		107	70 - 130	3	20
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	4	20
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130	0	20
Acetone	125	142		ug/L		114	70 - 130	2	20
Benzene	25.0	25.8		ug/L		103	70 - 130	1	20
Bromobenzene	25.0	26.9		ug/L		108	70 - 130	0	20
Bromoform	25.0	27.8		ug/L		111	70 - 130	2	20
Bromomethane	25.0	25.4		ug/L		102	70 - 130	1	20
Carbon disulfide	25.0	25.9		ug/L		104	70 - 130	1	20
Carbon tetrachloride	25.0	26.9		ug/L		108	70 - 130	1	20
Chlorobenzene	25.0	26.9		ug/L		108	70 - 130	2	20
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130	2	20
Chlorodibromomethane	24.5	27.0		ug/L		110	70 - 130	3	20
Chloroethane	25.0	25.5		ug/L		102	70 - 130	1	20
Chloroform	25.0	24.9		ug/L		100	70 - 130	1	20
Chloromethane	25.0	17.7		ug/L		71	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 130	1	20
Dichlorobromomethane	25.0	25.7		ug/L		103	70 - 130	3	20
Dichlorodifluoromethane	25.0	12.4 *		ug/L		50	70 - 130	3	20
Ethyl ether	25.0	26.2		ug/L		105	70 - 130	0	20
Ethylbenzene	25.0	26.8		ug/L		107	70 - 130	3	20
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130	1	20
Hexachlorobutadiene	25.0	25.6		ug/L		102	70 - 130	7	20
Isopropyl ether	25.0	24.8		ug/L		99	70 - 130	2	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	3	20
Methyl tert-butyl ether	25.0	25.1		ug/L		101	70 - 130	1	20
Methylene Chloride	25.0	25.1		ug/L		100	70 - 130	1	20
m-Xylene & p-Xylene	25.0	25.6		ug/L		102	70 - 130	3	20
Naphthalene	25.0	27.4		ug/L		110	70 - 130	1	20
n-Butylbenzene	25.0	27.0		ug/L		108	70 - 130	4	20
N-Propylbenzene	25.0	25.8		ug/L		103	70 - 130	4	20
o-Xylene	25.0	25.8		ug/L		103	70 - 130	2	20
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	5	20
Styrene	25.0	26.1		ug/L		104	70 - 130	3	20
Tert-amyl methyl ether	25.0	25.2		ug/L		101	70 - 130	0	20
Tert-butyl ethyl ether	25.0	23.9		ug/L		96	70 - 130	1	20
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 130	8	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCSD 480-164408/5

Matrix: Water

Analysis Batch: 164408

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
Tetrachloroethene	25.0	27.2		ug/L		109	70 - 130	2	20
Tetrahydrofuran	50.0	67.2	*	ug/L		134	70 - 130	0	20
Toluene	25.0	26.0		ug/L		104	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	27.1		ug/L		108	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	0	20
Trichloroethene	25.0	27.0		ug/L		108	70 - 130	1	20
Trichlorofluoromethane	25.0	22.2		ug/L		89	70 - 130	5	20
Vinyl chloride	25.0	18.9		ug/L		76	70 - 130	5	20
Dibromomethane	25.0	26.3		ug/L		105	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 480-164532/7

Matrix: Water

Analysis Batch: 164532

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			02/04/14 23:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			02/04/14 23:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			02/04/14 23:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			02/04/14 23:41	1
1,1-Dichloroethane	ND		1.0		ug/L			02/04/14 23:41	1
1,1-Dichloroethene	ND		1.0		ug/L			02/04/14 23:41	1
1,1-Dichloropropene	ND		1.0		ug/L			02/04/14 23:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			02/04/14 23:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			02/04/14 23:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/04/14 23:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			02/04/14 23:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			02/04/14 23:41	1
1,2-Dichloroethane	ND		1.0		ug/L			02/04/14 23:41	1
1,2-Dichloropropane	ND		1.0		ug/L			02/04/14 23:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			02/04/14 23:41	1
1,3-Dichloropropane	ND		1.0		ug/L			02/04/14 23:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			02/04/14 23:41	1
1,4-Dioxane	ND		50		ug/L			02/04/14 23:41	1
2,2-Dichloropropane	ND		1.0		ug/L			02/04/14 23:41	1
2-Butanone (MEK)	ND		10		ug/L			02/04/14 23:41	1
2-Chlorotoluene	ND		1.0		ug/L			02/04/14 23:41	1
2-Hexanone	ND		10		ug/L			02/04/14 23:41	1
4-Chlorotoluene	ND		1.0		ug/L			02/04/14 23:41	1
4-Isopropyltoluene	ND		1.0		ug/L			02/04/14 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			02/04/14 23:41	1
Acetone	ND		50		ug/L			02/04/14 23:41	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: MB 480-164532/7

Matrix: Water

Analysis Batch: 164532

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.0		ug/L			02/04/14 23:41	1
Bromobenzene	ND		1.0		ug/L			02/04/14 23:41	1
Bromoform	ND		1.0		ug/L			02/04/14 23:41	1
Bromomethane	ND		2.0		ug/L			02/04/14 23:41	1
Carbon disulfide	ND		10		ug/L			02/04/14 23:41	1
Carbon tetrachloride	ND		1.0		ug/L			02/04/14 23:41	1
Chlorobenzene	ND		1.0		ug/L			02/04/14 23:41	1
Chlorobromomethane	ND		1.0		ug/L			02/04/14 23:41	1
Chlorodibromomethane	ND		0.50		ug/L			02/04/14 23:41	1
Chloroethane	ND		2.0		ug/L			02/04/14 23:41	1
Chloroform	ND		1.0		ug/L			02/04/14 23:41	1
Chloromethane	ND		2.0		ug/L			02/04/14 23:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 23:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 23:41	1
Dichlorobromomethane	ND		0.50		ug/L			02/04/14 23:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			02/04/14 23:41	1
Ethyl ether	ND		1.0		ug/L			02/04/14 23:41	1
Ethylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
Ethylene Dibromide	ND		1.0		ug/L			02/04/14 23:41	1
Hexachlorobutadiene	ND		0.40		ug/L			02/04/14 23:41	1
Isopropyl ether	ND		10		ug/L			02/04/14 23:41	1
Isopropylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/04/14 23:41	1
Methylene Chloride	ND		1.0		ug/L			02/04/14 23:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			02/04/14 23:41	1
Naphthalene	ND		5.0		ug/L			02/04/14 23:41	1
n-Butylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
N-Propylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
o-Xylene	ND		1.0		ug/L			02/04/14 23:41	1
sec-Butylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
Styrene	ND		1.0		ug/L			02/04/14 23:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			02/04/14 23:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			02/04/14 23:41	1
tert-Butylbenzene	ND		1.0		ug/L			02/04/14 23:41	1
Tetrachloroethene	ND		1.0		ug/L			02/04/14 23:41	1
Tetrahydrofuran	ND		10		ug/L			02/04/14 23:41	1
Toluene	ND		1.0		ug/L			02/04/14 23:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/04/14 23:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			02/04/14 23:41	1
Trichloroethene	ND		1.0		ug/L			02/04/14 23:41	1
Trichlorofluoromethane	ND		1.0		ug/L			02/04/14 23:41	1
Vinyl chloride	ND		1.0		ug/L			02/04/14 23:41	1
Dibromomethane	ND		1.0		ug/L			02/04/14 23:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		70 - 130		02/04/14 23:41	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		02/04/14 23:41	1
4-Bromofluorobenzene (Surr)	105		70 - 130		02/04/14 23:41	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCS 480-164532/4

Matrix: Water

Analysis Batch: 164532

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	70 - 130
1,1-Dichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloropropane	25.0	26.0		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,4-Dioxane	500	456		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130
2-Butanone (MEK)	125	139		ug/L		111	70 - 130
2-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
2-Hexanone	125	126		ug/L		101	70 - 130
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	70 - 130
Acetone	125	138		ug/L		111	70 - 130
Benzene	25.0	25.7		ug/L		103	70 - 130
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
Bromoform	25.0	25.7		ug/L		103	70 - 130
Bromomethane	25.0	29.2		ug/L		117	70 - 130
Carbon disulfide	25.0	25.9		ug/L		104	70 - 130
Carbon tetrachloride	25.0	26.7		ug/L		107	70 - 130
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130
Chlorobromomethane	25.0	26.8		ug/L		107	70 - 130
Chlorodibromomethane	24.5	25.9		ug/L		106	70 - 130
Chloroethane	25.0	29.6		ug/L		118	70 - 130
Chloroform	25.0	24.4		ug/L		98	70 - 130
Chloromethane	25.0	26.3		ug/L		105	70 - 130
cis-1,2-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	30.0		ug/L		120	70 - 130
Ethyl ether	25.0	25.9		ug/L		103	70 - 130
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	25.3		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCS 480-164532/4

Matrix: Water

Analysis Batch: 164532

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	25.0	25.9		ug/L		104	70 - 130
Isopropylbenzene	25.0	25.1		ug/L		100	70 - 130
Methyl tert-butyl ether	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	24.7		ug/L		99	70 - 130
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 130
Naphthalene	25.0	25.7		ug/L		103	70 - 130
n-Butylbenzene	25.0	26.7		ug/L		107	70 - 130
N-Propylbenzene	25.0	26.2		ug/L		105	70 - 130
o-Xylene	25.0	24.7		ug/L		99	70 - 130
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
Styrene	25.0	25.0		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	24.9		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130
tert-Butylbenzene	25.0	27.7		ug/L		111	70 - 130
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
Tetrahydrofuran	50.0	63.7		ug/L		127	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130
trans-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 130
Trichloroethene	25.0	27.1		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	27.7		ug/L		111	70 - 130
Vinyl chloride	25.0	27.1		ug/L		108	70 - 130
Dibromomethane	25.0	25.4		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 480-164532/5

Matrix: Water

Analysis Batch: 164532

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130	2	20
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	5	20
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130	1	20
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130	1	20
1,1-Dichloroethane	25.0	24.8		ug/L		99	70 - 130	6	20
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	7	20
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130	2	20
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	70 - 130	2	20
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	1	20
1,2-Dichloroethane	25.0	24.4		ug/L		98	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCSD 480-164532/5

Matrix: Water

Analysis Batch: 164532

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
1,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130	0	20
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	1	20
1,4-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	0	20
1,4-Dioxane	500	480		ug/L		96	70 - 130	5	20
2,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	3	20
2-Butanone (MEK)	125	133		ug/L		107	70 - 130	4	20
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	2	20
2-Hexanone	125	129		ug/L		103	70 - 130	2	20
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	1	20
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	70 - 130	1	20
Acetone	125	135		ug/L		108	70 - 130	2	20
Benzene	25.0	24.8		ug/L		99	70 - 130	4	20
Bromobenzene	25.0	26.4		ug/L		106	70 - 130	1	20
Bromoform	25.0	25.7		ug/L		103	70 - 130	0	20
Bromomethane	25.0	31.0		ug/L		124	70 - 130	6	20
Carbon disulfide	25.0	24.9		ug/L		100	70 - 130	4	20
Carbon tetrachloride	25.0	26.1		ug/L		104	70 - 130	2	20
Chlorobenzene	25.0	26.1		ug/L		104	70 - 130	0	20
Chlorobromomethane	25.0	26.0		ug/L		104	70 - 130	3	20
Chlorodibromomethane	24.5	25.4		ug/L		104	70 - 130	2	20
Chloroethane	25.0	29.5		ug/L		118	70 - 130	0	20
Chloroform	25.0	23.5		ug/L		94	70 - 130	4	20
Chloromethane	25.0	24.8		ug/L		99	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	2	20
Dichlorobromomethane	25.0	24.7		ug/L		99	70 - 130	3	20
Dichlorodifluoromethane	25.0	29.0		ug/L		116	70 - 130	3	20
Ethyl ether	25.0	25.3		ug/L		101	70 - 130	2	20
Ethylbenzene	25.0	25.9		ug/L		104	70 - 130	1	20
Ethylene Dibromide	25.0	24.1		ug/L		96	70 - 130	0	20
Hexachlorobutadiene	25.0	25.1		ug/L		100	70 - 130	1	20
Isopropyl ether	25.0	25.3		ug/L		101	70 - 130	3	20
Isopropylbenzene	25.0	25.1		ug/L		101	70 - 130	0	20
Methyl tert-butyl ether	25.0	24.4		ug/L		98	70 - 130	1	20
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130	4	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		98	70 - 130	1	20
Naphthalene	25.0	26.3		ug/L		105	70 - 130	2	20
n-Butylbenzene	25.0	26.7		ug/L		107	70 - 130	0	20
N-Propylbenzene	25.0	25.8		ug/L		103	70 - 130	2	20
o-Xylene	25.0	24.8		ug/L		99	70 - 130	0	20
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	0	20
Styrene	25.0	25.4		ug/L		102	70 - 130	1	20
Tert-amyl methyl ether	25.0	24.7		ug/L		99	70 - 130	1	20
Tert-butyl ethyl ether	25.0	23.9		ug/L		95	70 - 130	1	20
tert-Butylbenzene	25.0	27.3		ug/L		109	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-54029-1

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

Lab Sample ID: LCSD 480-164532/5

Matrix: Water

Analysis Batch: 164532

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Tetrachloroethene	25.0	26.6		ug/L		106	70 - 130	1	20
Tetrahydrofuran	50.0	63.4		ug/L		127	70 - 130	0	20
Toluene	25.0	25.4		ug/L		102	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130	0	20
Trichloroethene	25.0	26.1		ug/L		104	70 - 130	4	20
Trichlorofluoromethane	25.0	27.3		ug/L		109	70 - 130	1	20
Vinyl chloride	25.0	26.0		ug/L		104	70 - 130	4	20
Dibromomethane	25.0	25.4		ug/L		101	70 - 130	0	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130

QC Association Summary

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

TestAmerica Job ID: 480-54029-1

GC/MS VOA

Analysis Batch: 164338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54029-1	MW-267S-20140130-01	Total/NA	Water	8260C	
480-54029-2	MW-267M-20140130-01	Total/NA	Water	8260C	
480-54029-3	MW-268M-20140130-01	Total/NA	Water	8260C	
480-54029-3 MS	MW-268M-20140130-01	Total/NA	Water	8260C	
480-54029-3 MSD	MW-268M-20140130-01	Total/NA	Water	8260C	
480-54029-4	MW-561-20140130-01	Total/NA	Water	8260C	
480-54029-6	REW-6-20140130-01	Total/NA	Water	8260C	
480-54029-7	REW-7-20140130-01	Total/NA	Water	8260C	
480-54029-9	REW-9-20140130-01	Total/NA	Water	8260C	
480-54029-10	REW-12-20140130-01	Total/NA	Water	8260C	
LCS 480-164338/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-164338/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-164338/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 164408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54029-3 - DL	MW-268M-20140130-01	Total/NA	Water	8260C	
480-54029-4 - DL	MW-561-20140130-01	Total/NA	Water	8260C	
480-54029-8	REW-8-20140130-01	Total/NA	Water	8260C	
480-54029-11	DupX-20140130-01	Total/NA	Water	8260C	
480-54029-12	Trip Blank	Total/NA	Water	8260C	
LCS 480-164408/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-164408/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-164408/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 164532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-54029-5	MW-553-20140130-01	Total/NA	Water	8260C	
LCS 480-164532/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-164532/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-164532/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: MW-267S-20140130-01

Lab Sample ID: 480-54029-1

Date Collected: 01/30/14 12:50

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	164338	02/04/14 04:10	LCH	TAL BUF

Client Sample ID: MW-267M-20140130-01

Lab Sample ID: 480-54029-2

Date Collected: 01/30/14 12:10

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	164338	02/04/14 04:33	LCH	TAL BUF

Client Sample ID: MW-268M-20140130-01

Lab Sample ID: 480-54029-3

Date Collected: 01/30/14 11:25

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	164338	02/04/14 04:57	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	40	164408	02/04/14 13:47	RAL	TAL BUF

Client Sample ID: MW-561-20140130-01

Lab Sample ID: 480-54029-4

Date Collected: 01/30/14 09:10

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	164338	02/04/14 05:21	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	20	164408	02/04/14 14:11	RAL	TAL BUF

Client Sample ID: MW-553-20140130-01

Lab Sample ID: 480-54029-5

Date Collected: 01/30/14 10:30

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	164532	02/05/14 00:18	GTG	TAL BUF

Client Sample ID: REW-6-20140130-01

Lab Sample ID: 480-54029-6

Date Collected: 01/30/14 09:55

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	164338	02/04/14 06:08	LCH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-54029-1

Client Sample ID: REW-7-20140130-01

Lab Sample ID: 480-54029-7

Date Collected: 01/30/14 10:50

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	164338	02/04/14 06:33	LCH	TAL BUF

Client Sample ID: REW-8-20140130-01

Lab Sample ID: 480-54029-8

Date Collected: 01/30/14 12:55

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164408	02/04/14 14:59	RAL	TAL BUF

Client Sample ID: REW-9-20140130-01

Lab Sample ID: 480-54029-9

Date Collected: 01/30/14 12:15

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164338	02/04/14 07:20	LCH	TAL BUF

Client Sample ID: REW-12-20140130-01

Lab Sample ID: 480-54029-10

Date Collected: 01/30/14 09:10

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	164338	02/04/14 07:44	LCH	TAL BUF

Client Sample ID: DupX-20140130-01

Lab Sample ID: 480-54029-11

Date Collected: 01/30/14 00:00

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	164408	02/04/14 15:23	RAL	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-54029-12

Date Collected: 01/30/14 00:00

Matrix: Water

Date Received: 01/31/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	164408	02/04/14 15:47	RAL	TAL BUF

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 480-54029-1

Laboratory: TestAmerica Buffalo

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

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

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Method Summary

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

TestAmerica Job ID: 480-54029-1

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

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 480-54029-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-54029-1	MW-267S-20140130-01	Water	01/30/14 12:50	01/31/14 00:30
480-54029-2	MW-267M-20140130-01	Water	01/30/14 12:10	01/31/14 00:30
480-54029-3	MW-268M-20140130-01	Water	01/30/14 11:25	01/31/14 00:30
480-54029-4	MW-561-20140130-01	Water	01/30/14 09:10	01/31/14 00:30
480-54029-5	MW-553-20140130-01	Water	01/30/14 10:30	01/31/14 00:30
480-54029-6	REW-6-20140130-01	Water	01/30/14 09:55	01/31/14 00:30
480-54029-7	REW-7-20140130-01	Water	01/30/14 10:50	01/31/14 00:30
480-54029-8	REW-8-20140130-01	Water	01/30/14 12:55	01/31/14 00:30
480-54029-9	REW-9-20140130-01	Water	01/30/14 12:15	01/31/14 00:30
480-54029-10	REW-12-20140130-01	Water	01/30/14 09:10	01/31/14 00:30
480-54029-11	DupX-20140130-01	Water	01/30/14 00:00	01/31/14 00:30
480-54029-12	Trip Blank	Water	01/30/14 00:00	01/31/14 00:30

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-54029-1

Login Number: 54029

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client City		Project Manager Vicki P... Telephone Number (Area Code)/Fax Number 505-663-5125		Date 11/30/14	Chain of Custody Number 261455															
Address 25 ... St City		Lab Contact ... Lab Contact		Page 1	of 1															
Project Name and Location (State) ... Contract/Purchase Order/Quote No. R4-008		Carrier/Waybill Number		Analysis (Attach list if more space is needed)																
State WA		Zip Code 98001		Special Instructions/ Conditions of Receipt																
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives												
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH								
M... 2073-20140130-01	11/30/14	1250	X																	
M... 2074-20140130-01	11/30/14	1210	X																	
M... 2075-20140130-01	11/30/14	1145	X																	
M... 2076-20140130-01	11/30/14	0810	X																	
M... 2077-20140130-01	11/30/14	1030	X																	
M... 2078-20140130-01	11/30/14	0955	X																	
M... 2079-20140130-01	11/30/14	1050	X																	
M... 2080-20140130-01	11/30/14	1955	X																	
M... 2081-20140130-01	11/30/14	1915	X																	
M... 2082-20140130-01	11/30/14	0910	X																	
M... 2083-20140130-01	11/30/14	-	X																	
M... 2084-20140130-01	11/30/14	-	X																	
Possible Hazard Identification			Sample Disposal			Disposal By Lab			Archive For			Months								
<input checked="" type="checkbox"/> Non-Hazard			<input type="checkbox"/> Return To Client			<input checked="" type="checkbox"/> Unknown			<input type="checkbox"/> 1			<input type="checkbox"/> 2								
<input type="checkbox"/> Flammable			<input type="checkbox"/> Poison B			<input type="checkbox"/> 3			<input type="checkbox"/> 4			<input type="checkbox"/> 5								
<input type="checkbox"/> Skin Irritant			<input type="checkbox"/> 6			<input type="checkbox"/> 7			<input type="checkbox"/> 8			<input type="checkbox"/> 9								
<input type="checkbox"/> 48 Hours			<input type="checkbox"/> 7 Days			<input type="checkbox"/> 14 Days			<input type="checkbox"/> 21 Days			<input type="checkbox"/> Other								
1. Relinquished By			Date			Time			1. Received By			Date								
2. Relinquished By			Date			Time			2. Received By			Date								
3. Relinquished By			Date			Time			3. Received By			Date								

Comments

3.3 #1

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

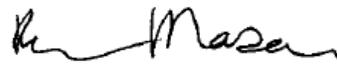
ANALYTICAL REPORT

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

TestAmerica Job ID: 480-57495-1
Client Project/Site: IDS Wayland
Revision: 1

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

Attn: Vicki Pariyar



Authorized for release by:
5/6/2014 10:32:22 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	13
Surrogate Summary	78
QC Sample Results	80
QC Association Summary	113
Lab Chronicle	115
Certification Summary	122
Method Summary	123
Sample Summary	124
Receipt Checklists	125
Chain of Custody	126

Definitions/Glossary

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

TestAmerica Job ID: 480-57495-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 480-57495-1

Job ID: 480-57495-1

Laboratory: TestAmerica Buffalo

Narrative

Revision: Per client request correct ID for 480-57495-7, the COC was incorrect. This replaces final report data 4/16/14.

Receipt

The samples were received on 4/9/2014 at 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 2.3° C.

GC/MS VOA

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

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

Method 8260B SIM: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: DupX3-20140408-01 (480-57495-36), MW-261S-20140408-01 (480-57495-3), MW-265M-20140408-01 (480-57495-7), MW-267M-20140405-01 (480-57495-12), MW-267S-20140405-01 (480-57495-11) and MW-552-20140407-01 (480-57495-18). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batches 174684 and 175485 exceeded control limits for the following analyte: Tetrahydrofuran. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-261S-20140408-01 (480-57495-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batches 175074, 175163 and 174949 exceeded control limits for the following analytes: 2-Hexanone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 175074 recovered outside control limits for the following analytes: 1,4-Dioxane.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 175074 were outside control limits.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-57495-17 MS), (480-57495-17 MSD), DupX2-20140406-01 (480-57495-35), MW-551-20140408-01 (480-57495-17), MW-560-20140407-01 (480-57495-20), MW-561-20140407-01 (480-57495-21), MW-562-20140407-01 (480-57495-22), REW-1-20140406-01 (480-57495-24), (480-57495-33 MS), (480-57495-33 MSD), MW-562-20140407-01 (480-57495-22), MW-563-20140407-01 (480-57495-23), REW-11-20140406-01 (480-57495-32), REW-12-20140406-01 (480-57495-33), REW-6-20140406-01 (480-57495-27), REW-7-20140406-01 (480-57495-28), MW-263M-20140408-01 (480-57495-7), MW-267S-20140405-01 (480-57495-11), MW-268M-20140407 (480-57495-14) and DupX3-20140408-01 (480-57495-36). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-267M-20140405-01 (480-57495-12). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 174949 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The method blank for batch 175163 contained Carbon Disulfide above the method detection limit. This target analyte concentration was less than the reporting limit (RL) so re-analysis of the associated samples was not performed.

Case Narrative

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

TestAmerica Job ID: 480-57495-1

Job ID: 480-57495-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 175163 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for batch 175163 was outside control limits. Sample matrix interference was suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No other analytical or quality issues were noted.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-57495**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the data set for the following Laboratory Sample ID Number(s):
480-57495 [1-36]

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

CAM Protocols (check all that apply below):

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

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

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

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

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

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

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

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

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

Signature:  Position: Technical Director, TestAmerica Westfield
 Printed Name: Richard Emerich Date: 4/15/14 15:29

This form has been electronically signed and approved.

Detection Summary

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DEP-19M-20140405-01

Lab Sample ID: 480-57495-1

No Detections.

Client Sample ID: DEP-21-20140405-01

Lab Sample ID: 480-57495-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-261S-20140408-01

Lab Sample ID: 480-57495-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11000		2500		ug/L	50		8260C	Total/NA

Client Sample ID: MW-263M-20140408-01

Lab Sample ID: 480-57495-4

No Detections.

Client Sample ID: MW-264M-20140408-01

Lab Sample ID: 480-57495-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	2.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265S-20140408-01

Lab Sample ID: 480-57495-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265M-20140408-01

Lab Sample ID: 480-57495-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	230		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	49		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.8		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.6		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.7		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	50 *		10		ug/L	1		8260C	Total/NA
Toluene	6.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	15		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	2200		250		ug/L	5		8260C	Total/NA

Client Sample ID: MW-265D-20140408-01

Lab Sample ID: 480-57495-8

No Detections.

Client Sample ID: MW-266Ma-20140405-01

Lab Sample ID: 480-57495-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.6		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-266Mb-20140405-01

Lab Sample ID: 480-57495-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	60		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	11		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	39		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	49		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-267S-20140405-01

Lab Sample ID: 480-57495-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	210	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	360		5.0		ug/L	5		8260C	Total/NA
Toluene	410		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	16		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: MW-267M-20140405-01

Lab Sample ID: 480-57495-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	180	*	100		ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	380		10		ug/L	10		8260C	Total/NA
Toluene	87		10		ug/L	10		8260C	Total/NA
Vinyl chloride	31		10		ug/L	10		8260C	Total/NA

Client Sample ID: MW-268S-20140407

Lab Sample ID: 480-57495-13

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

Client Sample ID: MW-268M-20140407

Lab Sample ID: 480-57495-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	25		1.6		ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	3100		40		ug/L	40		8260C	Total/NA
Trichloroethene	1200		40		ug/L	40		8260C	Total/NA
Vinyl chloride	180		40		ug/L	40		8260C	Total/NA

Client Sample ID: MW-268D-20140405

Lab Sample ID: 480-57495-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.5		1.0		ug/L	1		8260C	Total/NA
Toluene	2.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-269Ma-20140405

Lab Sample ID: 480-57495-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.9		1.6		ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	3.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-551-20140408-01

Lab Sample ID: 480-57495-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15000		2000		ug/L	40		8260C	Total/NA

Client Sample ID: MW-552-20140407-01

Lab Sample ID: 480-57495-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA
Toluene	2.4		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-553-20140407-01

Lab Sample ID: 480-57495-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.6		2.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	10		10		ug/L	1		8260C	Total/NA
Toluene	3.9		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	28		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-560-20140407-01

Lab Sample ID: 480-57495-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	210	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	48		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.8		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	6.9		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.7		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	42		1.0		ug/L	1		8260C	Total/NA
Toluene - DL	200		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: MW-561-20140407-01

Lab Sample ID: 480-57495-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	21		20		ug/L	10		8260C	Total/NA
Toluene	600		10		ug/L	10		8260C	Total/NA
Vinyl chloride	84		10		ug/L	10		8260C	Total/NA

Client Sample ID: MW-562-20140407-01

Lab Sample ID: 480-57495-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	150		20		ug/L	2		8260C	Total/NA
Ethylbenzene	6.6		2.0		ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene	23		4.0		ug/L	2		8260C	Total/NA
o-Xylene	7.2		2.0		ug/L	2		8260C	Total/NA
Toluene	46		2.0		ug/L	2		8260C	Total/NA
Acetone - DL	910		200		ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-563-20140407-01

Lab Sample ID: 480-57495-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	150		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	190		4.0		ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	11		8.0		ug/L	4		8260C	Total/NA
Toluene	37		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	90		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: REW-1-20140406-01

Lab Sample ID: 480-57495-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1500		250		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	6.0		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-4-20140406-01

Lab Sample ID: 480-57495-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-5-20140406-01

Lab Sample ID: 480-57495-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	62		1.0		ug/L	1		8260C	Total/NA
Toluene	3.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-6-20140406-01

Lab Sample ID: 480-57495-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	370		5.0		ug/L	5		8260C	Total/NA
Toluene	170		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	50		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	19		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-7-20140406-01

Lab Sample ID: 480-57495-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	660		10		ug/L	10		8260C	Total/NA
Toluene	12		10		ug/L	10		8260C	Total/NA
Trichloroethene	65		10		ug/L	10		8260C	Total/NA
Vinyl chloride	99		10		ug/L	10		8260C	Total/NA

Client Sample ID: REW-8-20140406-01

Lab Sample ID: 480-57495-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	75		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	27		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.4		2.0		ug/L	1		8260C	Total/NA
Toluene	36		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	36		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-9-20140406-01

Lab Sample ID: 480-57495-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	54		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	80		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.8		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.1		1.0		ug/L	1		8260C	Total/NA
Toluene	84		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	26		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-10-20140406-01

Lab Sample ID: 480-57495-31

No Detections.

Client Sample ID: REW-11-20140406-01

Lab Sample ID: 480-57495-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1800		25		ug/L	25		8260C	Total/NA
Trichloroethene	460		25		ug/L	25		8260C	Total/NA
Vinyl chloride	120		25		ug/L	25		8260C	Total/NA

Client Sample ID: REW-12-20140406-01

Lab Sample ID: 480-57495-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	310		4.0		ug/L	4		8260C	Total/NA
Toluene	28		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	50		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	55		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: DupX1-20140405-01

Lab Sample ID: 480-57495-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	58		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	10		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	37		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	43		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DupX2-20140406-01

Lab Sample ID: 480-57495-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.5		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
Benzene	1.5		1.0		ug/L	1		8260C	Total/NA
o-Xylene	1.1		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	16		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1500		25		ug/L	25		8260C	Total/NA
Trichloroethene - DL	390		25		ug/L	25		8260C	Total/NA
Vinyl chloride - DL	97		25		ug/L	25		8260C	Total/NA

Client Sample ID: DupX3-20140408-01

Lab Sample ID: 480-57495-36

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DupX3-20140408-01 (Continued)

Lab Sample ID: 480-57495-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	160		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	7.3		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	3.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	11		2.0		ug/L	1		8260C	Total/NA
o-Xylene	2.1		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	18		10		ug/L	1		8260C	Total/NA
Toluene	20		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.2		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	14000		2000		ug/L	40		8260C	Total/NA

Client Sample ID: Trip Blanks

Lab Sample ID: 480-57495-37

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DEP-19M-20140405-01

Lab Sample ID: 480-57495-1

Date Collected: 04/05/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 17:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 17:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 17:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 17:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 17:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 17:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 17:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 17:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 17:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 17:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 17:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 17:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 17:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 17:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 17:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 17:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 17:26	1
1,4-Dioxane	ND		50		ug/L			04/09/14 17:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 17:26	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 17:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 17:26	1
2-Hexanone	ND		10		ug/L			04/09/14 17:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 17:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 17:26	1
Acetone	ND		50		ug/L			04/09/14 17:26	1
Benzene	ND		1.0		ug/L			04/09/14 17:26	1
Bromobenzene	ND		1.0		ug/L			04/09/14 17:26	1
Bromoform	ND		1.0		ug/L			04/09/14 17:26	1
Bromomethane	ND		2.0		ug/L			04/09/14 17:26	1
Carbon disulfide	ND		10		ug/L			04/09/14 17:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 17:26	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 17:26	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 17:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 17:26	1
Chloroethane	ND		2.0		ug/L			04/09/14 17:26	1
Chloroform	ND		1.0		ug/L			04/09/14 17:26	1
Chloromethane	ND		2.0		ug/L			04/09/14 17:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 17:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 17:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 17:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 17:26	1
Ethyl ether	ND		1.0		ug/L			04/09/14 17:26	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 17:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 17:26	1
Isopropyl ether	ND		10		ug/L			04/09/14 17:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DEP-19M-20140405-01

Lab Sample ID: 480-57495-1

Date Collected: 04/05/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 17:26	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 17:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 17:26	1
Naphthalene	ND		5.0		ug/L			04/09/14 17:26	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
o-Xylene	ND		1.0		ug/L			04/09/14 17:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
Styrene	ND		1.0		ug/L			04/09/14 17:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 17:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 17:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 17:26	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 17:26	1
Tetrahydrofuran	ND	*	10		ug/L			04/09/14 17:26	1
Toluene	ND		1.0		ug/L			04/09/14 17:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 17:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 17:26	1
Trichloroethene	ND		1.0		ug/L			04/09/14 17:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 17:26	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 17:26	1
Dibromomethane	ND		1.0		ug/L			04/09/14 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/09/14 17:26	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/09/14 17:26	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/09/14 17:26	1

Client Sample ID: DEP-21-20140405-01

Lab Sample ID: 480-57495-2

Date Collected: 04/05/14 11:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 17:50	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 17:50	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 17:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 17:50	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 17:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 17:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 17:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 17:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 17:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 17:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 17:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 17:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 17:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 17:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 17:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 17:50	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DEP-21-20140405-01

Lab Sample ID: 480-57495-2

Date Collected: 04/05/14 11:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 17:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 17:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 17:50	1
1,4-Dioxane	ND		50		ug/L			04/09/14 17:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 17:50	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 17:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 17:50	1
2-Hexanone	ND		10		ug/L			04/09/14 17:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 17:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 17:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 17:50	1
Acetone	ND		50		ug/L			04/09/14 17:50	1
Benzene	ND		1.0		ug/L			04/09/14 17:50	1
Bromobenzene	ND		1.0		ug/L			04/09/14 17:50	1
Bromoform	ND		1.0		ug/L			04/09/14 17:50	1
Bromomethane	ND		2.0		ug/L			04/09/14 17:50	1
Carbon disulfide	ND		10		ug/L			04/09/14 17:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 17:50	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 17:50	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 17:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 17:50	1
Chloroethane	ND		2.0		ug/L			04/09/14 17:50	1
Chloroform	ND		1.0		ug/L			04/09/14 17:50	1
Chloromethane	ND		2.0		ug/L			04/09/14 17:50	1
cis-1,2-Dichloroethene	3.8		1.0		ug/L			04/09/14 17:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 17:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 17:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 17:50	1
Ethyl ether	ND		1.0		ug/L			04/09/14 17:50	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 17:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 17:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 17:50	1
Isopropyl ether	ND		10		ug/L			04/09/14 17:50	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 17:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 17:50	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 17:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 17:50	1
Naphthalene	ND		5.0		ug/L			04/09/14 17:50	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 17:50	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 17:50	1
o-Xylene	ND		1.0		ug/L			04/09/14 17:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 17:50	1
Styrene	ND		1.0		ug/L			04/09/14 17:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 17:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 17:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 17:50	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 17:50	1
Tetrahydrofuran	ND *		10		ug/L			04/09/14 17:50	1
Toluene	ND		1.0		ug/L			04/09/14 17:50	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DEP-21-20140405-01

Lab Sample ID: 480-57495-2

Date Collected: 04/05/14 11:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 17:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 17:50	1
Trichloroethene	1.0		1.0		ug/L			04/09/14 17:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 17:50	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 17:50	1
Dibromomethane	ND		1.0		ug/L			04/09/14 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/09/14 17:50	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					04/09/14 17:50	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/09/14 17:50	1

Client Sample ID: MW-261S-20140408-01

Lab Sample ID: 480-57495-3

Date Collected: 04/08/14 07:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/11/14 23:36	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	144		50 - 150					04/11/14 23:36	2
Dibromofluoromethane (Surr)	85		50 - 150					04/11/14 23:36	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1,1-Trichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			04/09/14 18:14	50
1,1,2-Trichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1-Dichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1-Dichloroethene	ND		50		ug/L			04/09/14 18:14	50
1,1-Dichloropropene	ND		50		ug/L			04/09/14 18:14	50
1,2,3-Trichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,2,3-Trichloropropane	ND		50		ug/L			04/09/14 18:14	50
1,2,4-Trichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,2,4-Trimethylbenzene	ND		50		ug/L			04/09/14 18:14	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			04/09/14 18:14	50
1,2-Dichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,2-Dichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,2-Dichloropropane	ND		50		ug/L			04/09/14 18:14	50
1,3,5-Trimethylbenzene	ND		50		ug/L			04/09/14 18:14	50
1,3-Dichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,3-Dichloropropane	ND		50		ug/L			04/09/14 18:14	50
1,4-Dichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,4-Dioxane	ND		2500		ug/L			04/09/14 18:14	50
2,2-Dichloropropane	ND		50		ug/L			04/09/14 18:14	50
2-Butanone (MEK)	ND		500		ug/L			04/09/14 18:14	50
2-Chlorotoluene	ND		50		ug/L			04/09/14 18:14	50
2-Hexanone	ND		500		ug/L			04/09/14 18:14	50

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-261S-20140408-01

Lab Sample ID: 480-57495-3

Date Collected: 04/08/14 07:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		50		ug/L			04/09/14 18:14	50
4-Isopropyltoluene	ND		50		ug/L			04/09/14 18:14	50
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			04/09/14 18:14	50
Acetone	11000		2500		ug/L			04/09/14 18:14	50
Benzene	ND		50		ug/L			04/09/14 18:14	50
Bromobenzene	ND		50		ug/L			04/09/14 18:14	50
Bromoform	ND		50		ug/L			04/09/14 18:14	50
Bromomethane	ND		100		ug/L			04/09/14 18:14	50
Carbon disulfide	ND		500		ug/L			04/09/14 18:14	50
Carbon tetrachloride	ND		50		ug/L			04/09/14 18:14	50
Chlorobenzene	ND		50		ug/L			04/09/14 18:14	50
Chlorobromomethane	ND		50		ug/L			04/09/14 18:14	50
Chlorodibromomethane	ND		25		ug/L			04/09/14 18:14	50
Chloroethane	ND		100		ug/L			04/09/14 18:14	50
Chloroform	ND		50		ug/L			04/09/14 18:14	50
Chloromethane	ND		100		ug/L			04/09/14 18:14	50
cis-1,2-Dichloroethene	ND		50		ug/L			04/09/14 18:14	50
cis-1,3-Dichloropropene	ND		20		ug/L			04/09/14 18:14	50
Dichlorobromomethane	ND		25		ug/L			04/09/14 18:14	50
Dichlorodifluoromethane	ND		50		ug/L			04/09/14 18:14	50
Ethyl ether	ND		50		ug/L			04/09/14 18:14	50
Ethylbenzene	ND		50		ug/L			04/09/14 18:14	50
Ethylene Dibromide	ND		50		ug/L			04/09/14 18:14	50
Hexachlorobutadiene	ND		20		ug/L			04/09/14 18:14	50
Isopropyl ether	ND		500		ug/L			04/09/14 18:14	50
Isopropylbenzene	ND		50		ug/L			04/09/14 18:14	50
Methyl tert-butyl ether	ND		50		ug/L			04/09/14 18:14	50
Methylene Chloride	ND		50		ug/L			04/09/14 18:14	50
m-Xylene & p-Xylene	ND		100		ug/L			04/09/14 18:14	50
Naphthalene	ND		250		ug/L			04/09/14 18:14	50
n-Butylbenzene	ND		50		ug/L			04/09/14 18:14	50
N-Propylbenzene	ND		50		ug/L			04/09/14 18:14	50
o-Xylene	ND		50		ug/L			04/09/14 18:14	50
sec-Butylbenzene	ND		50		ug/L			04/09/14 18:14	50
Styrene	ND		50		ug/L			04/09/14 18:14	50
Tert-amyl methyl ether	ND		250		ug/L			04/09/14 18:14	50
Tert-butyl ethyl ether	ND		250		ug/L			04/09/14 18:14	50
tert-Butylbenzene	ND		50		ug/L			04/09/14 18:14	50
Tetrachloroethene	ND		50		ug/L			04/09/14 18:14	50
Tetrahydrofuran	ND *		500		ug/L			04/09/14 18:14	50
Toluene	ND		50		ug/L			04/09/14 18:14	50
trans-1,2-Dichloroethene	ND		50		ug/L			04/09/14 18:14	50
trans-1,3-Dichloropropene	ND		20		ug/L			04/09/14 18:14	50
Trichloroethene	ND		50		ug/L			04/09/14 18:14	50
Trichlorofluoromethane	ND		50		ug/L			04/09/14 18:14	50
Vinyl chloride	ND		50		ug/L			04/09/14 18:14	50
Dibromomethane	ND		50		ug/L			04/09/14 18:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/09/14 18:14	50

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-261S-20140408-01

Lab Sample ID: 480-57495-3

Date Collected: 04/08/14 07:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/09/14 18:14	50
4-Bromofluorobenzene (Surr)	97		70 - 130		04/09/14 18:14	50

Client Sample ID: MW-263M-20140408-01

Lab Sample ID: 480-57495-4

Date Collected: 04/08/14 11:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 18:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 18:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 18:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 18:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 18:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 18:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 18:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 18:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 18:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 18:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 18:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 18:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 18:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 18:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 18:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 18:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 18:37	1
1,4-Dioxane	ND		50		ug/L			04/09/14 18:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 18:37	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 18:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 18:37	1
2-Hexanone	ND		10		ug/L			04/09/14 18:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 18:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 18:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 18:37	1
Acetone	ND		50		ug/L			04/09/14 18:37	1
Benzene	ND		1.0		ug/L			04/09/14 18:37	1
Bromobenzene	ND		1.0		ug/L			04/09/14 18:37	1
Bromoform	ND		1.0		ug/L			04/09/14 18:37	1
Bromomethane	ND		2.0		ug/L			04/09/14 18:37	1
Carbon disulfide	ND		10		ug/L			04/09/14 18:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 18:37	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 18:37	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 18:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 18:37	1
Chloroethane	ND		2.0		ug/L			04/09/14 18:37	1
Chloroform	ND		1.0		ug/L			04/09/14 18:37	1
Chloromethane	ND		2.0		ug/L			04/09/14 18:37	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-263M-20140408-01

Lab Sample ID: 480-57495-4

Date Collected: 04/08/14 11:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 18:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 18:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 18:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 18:37	1
Ethyl ether	ND		1.0		ug/L			04/09/14 18:37	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 18:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 18:37	1
Isopropyl ether	ND		10		ug/L			04/09/14 18:37	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 18:37	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 18:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 18:37	1
Naphthalene	ND		5.0		ug/L			04/09/14 18:37	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
o-Xylene	ND		1.0		ug/L			04/09/14 18:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
Styrene	ND		1.0		ug/L			04/09/14 18:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 18:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 18:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 18:37	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 18:37	1
Tetrahydrofuran	ND *		10		ug/L			04/09/14 18:37	1
Toluene	ND		1.0		ug/L			04/09/14 18:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 18:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 18:37	1
Trichloroethene	ND		1.0		ug/L			04/09/14 18:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 18:37	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 18:37	1
Dibromomethane	ND		1.0		ug/L			04/09/14 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/09/14 18:37	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/09/14 18:37	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/09/14 18:37	1

Client Sample ID: MW-264M-20140408-01

Lab Sample ID: 480-57495-5

Date Collected: 04/08/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 19:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 19:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 19:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 19:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 19:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 19:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 19:01	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-264M-20140408-01

Lab Sample ID: 480-57495-5

Date Collected: 04/08/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 19:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 19:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 19:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 19:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:01	1
1,4-Dioxane	ND		50		ug/L			04/09/14 19:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:01	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 19:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:01	1
2-Hexanone	ND		10		ug/L			04/09/14 19:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 19:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 19:01	1
Acetone	ND		50		ug/L			04/09/14 19:01	1
Benzene	ND		1.0		ug/L			04/09/14 19:01	1
Bromobenzene	ND		1.0		ug/L			04/09/14 19:01	1
Bromoform	ND		1.0		ug/L			04/09/14 19:01	1
Bromomethane	ND		2.0		ug/L			04/09/14 19:01	1
Carbon disulfide	ND		10		ug/L			04/09/14 19:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 19:01	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 19:01	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 19:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 19:01	1
Chloroethane	ND		2.0		ug/L			04/09/14 19:01	1
Chloroform	ND		1.0		ug/L			04/09/14 19:01	1
Chloromethane	ND		2.0		ug/L			04/09/14 19:01	1
cis-1,2-Dichloroethene	12		1.0		ug/L			04/09/14 19:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 19:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 19:01	1
Ethyl ether	ND		1.0		ug/L			04/09/14 19:01	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 19:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 19:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 19:01	1
Isopropyl ether	ND		10		ug/L			04/09/14 19:01	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 19:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 19:01	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 19:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 19:01	1
Naphthalene	ND		5.0		ug/L			04/09/14 19:01	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 19:01	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 19:01	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-264M-20140408-01

Lab Sample ID: 480-57495-5

Date Collected: 04/08/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/09/14 19:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 19:01	1
Styrene	ND		1.0		ug/L			04/09/14 19:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 19:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 19:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 19:01	1
Tetrachloroethene	2.9		1.0		ug/L			04/09/14 19:01	1
Tetrahydrofuran	ND	*	10		ug/L			04/09/14 19:01	1
Toluene	ND		1.0		ug/L			04/09/14 19:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 19:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:01	1
Trichloroethene	14		1.0		ug/L			04/09/14 19:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 19:01	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 19:01	1
Dibromomethane	ND		1.0		ug/L			04/09/14 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/09/14 19:01	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/09/14 19:01	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/09/14 19:01	1

Client Sample ID: MW-265S-20140408-01

Lab Sample ID: 480-57495-6

Date Collected: 04/08/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 19:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 19:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 19:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,4-Dioxane	ND		50		ug/L			04/09/14 19:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 19:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:25	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-265S-20140408-01

Lab Sample ID: 480-57495-6

Date Collected: 04/08/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/09/14 19:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 19:25	1
Acetone	ND		50		ug/L			04/09/14 19:25	1
Benzene	ND		1.0		ug/L			04/09/14 19:25	1
Bromobenzene	ND		1.0		ug/L			04/09/14 19:25	1
Bromoform	ND		1.0		ug/L			04/09/14 19:25	1
Bromomethane	ND		2.0		ug/L			04/09/14 19:25	1
Carbon disulfide	ND		10		ug/L			04/09/14 19:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 19:25	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 19:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 19:25	1
Chloroethane	ND		2.0		ug/L			04/09/14 19:25	1
Chloroform	ND		1.0		ug/L			04/09/14 19:25	1
Chloromethane	ND		2.0		ug/L			04/09/14 19:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 19:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 19:25	1
Ethyl ether	ND		1.0		ug/L			04/09/14 19:25	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 19:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 19:25	1
Isopropyl ether	ND		10		ug/L			04/09/14 19:25	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 19:25	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 19:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 19:25	1
Naphthalene	ND		5.0		ug/L			04/09/14 19:25	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
o-Xylene	ND		1.0		ug/L			04/09/14 19:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Styrene	ND		1.0		ug/L			04/09/14 19:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 19:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 19:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 19:25	1
Tetrahydrofuran	ND *		10		ug/L			04/09/14 19:25	1
Toluene	ND		1.0		ug/L			04/09/14 19:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:25	1
Trichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 19:25	1
Vinyl chloride	2.7		1.0		ug/L			04/09/14 19:25	1
Dibromomethane	ND		1.0		ug/L			04/09/14 19:25	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-265S-20140408-01

Lab Sample ID: 480-57495-6

Date Collected: 04/08/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/09/14 19:25	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/09/14 19:25	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/09/14 19:25	1

Client Sample ID: MW-265M-20140408-01

Lab Sample ID: 480-57495-7

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 00:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	136		50 - 150		04/12/14 00:00	2
Dibromofluoromethane (Surr)	86		50 - 150		04/12/14 00:00	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 19:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 19:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 19:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 19:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,4-Dioxane	ND		50		ug/L			04/09/14 19:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
2-Butanone (MEK)	230		10		ug/L			04/09/14 19:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:49	1
2-Hexanone	ND		10		ug/L			04/09/14 19:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 19:49	1
Benzene	ND		1.0		ug/L			04/09/14 19:49	1
Bromobenzene	ND		1.0		ug/L			04/09/14 19:49	1
Bromoform	ND		1.0		ug/L			04/09/14 19:49	1
Bromomethane	ND		2.0		ug/L			04/09/14 19:49	1
Carbon disulfide	ND		10		ug/L			04/09/14 19:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 19:49	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-265M-20140408-01

Lab Sample ID: 480-57495-7

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 19:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 19:49	1
Chloroethane	ND		2.0		ug/L			04/09/14 19:49	1
Chloroform	ND		1.0		ug/L			04/09/14 19:49	1
Chloromethane	ND		2.0		ug/L			04/09/14 19:49	1
cis-1,2-Dichloroethene	49		1.0		ug/L			04/09/14 19:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 19:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 19:49	1
Ethyl ether	ND		1.0		ug/L			04/09/14 19:49	1
Ethylbenzene	1.8		1.0		ug/L			04/09/14 19:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 19:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 19:49	1
Isopropyl ether	ND		10		ug/L			04/09/14 19:49	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 19:49	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 19:49	1
m-Xylene & p-Xylene	5.6		2.0		ug/L			04/09/14 19:49	1
Naphthalene	ND		5.0		ug/L			04/09/14 19:49	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
o-Xylene	1.7		1.0		ug/L			04/09/14 19:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
Styrene	ND		1.0		ug/L			04/09/14 19:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 19:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 19:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 19:49	1
Tetrahydrofuran	50 *		10		ug/L			04/09/14 19:49	1
Toluene	6.2		1.0		ug/L			04/09/14 19:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 19:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:49	1
Trichloroethene	1.9		1.0		ug/L			04/09/14 19:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 19:49	1
Vinyl chloride	15		1.0		ug/L			04/09/14 19:49	1
Dibromomethane	ND		1.0		ug/L			04/09/14 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/09/14 19:49	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/09/14 19:49	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/09/14 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2200		250		ug/L			04/10/14 15:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/10/14 15:48	5
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 15:48	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-265M-20140408-01

Lab Sample ID: 480-57495-7

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		04/10/14 15:48	5

Client Sample ID: MW-265D-20140408-01

Lab Sample ID: 480-57495-8

Date Collected: 04/08/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 16:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 16:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 16:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 16:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,4-Dioxane	ND		50		ug/L			04/10/14 16:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 16:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 16:14	1
2-Hexanone	ND	*	10		ug/L			04/10/14 16:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 16:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 16:14	1
Acetone	ND		50		ug/L			04/10/14 16:14	1
Benzene	ND		1.0		ug/L			04/10/14 16:14	1
Bromobenzene	ND		1.0		ug/L			04/10/14 16:14	1
Bromoform	ND		1.0		ug/L			04/10/14 16:14	1
Bromomethane	ND		2.0		ug/L			04/10/14 16:14	1
Carbon disulfide	ND		10		ug/L			04/10/14 16:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 16:14	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 16:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 16:14	1
Chloroethane	ND		2.0		ug/L			04/10/14 16:14	1
Chloroform	ND		1.0		ug/L			04/10/14 16:14	1
Chloromethane	ND		2.0		ug/L			04/10/14 16:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 16:14	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-265D-20140408-01

Lab Sample ID: 480-57495-8

Date Collected: 04/08/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 16:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 16:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 16:14	1
Ethyl ether	ND		1.0		ug/L			04/10/14 16:14	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 16:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 16:14	1
Isopropyl ether	ND		10		ug/L			04/10/14 16:14	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 16:14	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 16:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 16:14	1
Naphthalene	ND		5.0		ug/L			04/10/14 16:14	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
o-Xylene	ND		1.0		ug/L			04/10/14 16:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Styrene	ND		1.0		ug/L			04/10/14 16:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 16:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 16:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 16:14	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 16:14	1
Toluene	ND		1.0		ug/L			04/10/14 16:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 16:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 16:14	1
Trichloroethene	ND		1.0		ug/L			04/10/14 16:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 16:14	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 16:14	1
Dibromomethane	ND		1.0		ug/L			04/10/14 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/10/14 16:14	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/10/14 16:14	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/10/14 16:14	1

Client Sample ID: MW-266Ma-20140405-01

Lab Sample ID: 480-57495-9

Date Collected: 04/05/14 14:50

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/12/14 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	120		50 - 150		04/12/14 00:23	1
Dibromofluoromethane (Surr)	92		50 - 150		04/12/14 00:23	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-266Ma-20140405-01

Lab Sample ID: 480-57495-9

Date Collected: 04/05/14 14:50

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 20:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 20:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 20:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 20:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,4-Dioxane	ND		50		ug/L			04/09/14 20:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 20:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 20:37	1
2-Hexanone	ND		10		ug/L			04/09/14 20:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 20:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 20:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 20:37	1
Acetone	ND		50		ug/L			04/09/14 20:37	1
Benzene	ND		1.0		ug/L			04/09/14 20:37	1
Bromobenzene	ND		1.0		ug/L			04/09/14 20:37	1
Bromoform	ND		1.0		ug/L			04/09/14 20:37	1
Bromomethane	ND		2.0		ug/L			04/09/14 20:37	1
Carbon disulfide	ND		10		ug/L			04/09/14 20:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 20:37	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 20:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 20:37	1
Chloroethane	ND		2.0		ug/L			04/09/14 20:37	1
Chloroform	ND		1.0		ug/L			04/09/14 20:37	1
Chloromethane	ND		2.0		ug/L			04/09/14 20:37	1
cis-1,2-Dichloroethene	1.5		1.0		ug/L			04/09/14 20:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 20:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 20:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 20:37	1
Ethyl ether	ND		1.0		ug/L			04/09/14 20:37	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 20:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 20:37	1
Isopropyl ether	ND		10		ug/L			04/09/14 20:37	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-266Ma-20140405-01

Lab Sample ID: 480-57495-9

Date Collected: 04/05/14 14:50

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 20:37	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 20:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 20:37	1
Naphthalene	ND		5.0		ug/L			04/09/14 20:37	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
o-Xylene	ND		1.0		ug/L			04/09/14 20:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
Styrene	ND		1.0		ug/L			04/09/14 20:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 20:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 20:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 20:37	1
Tetrahydrofuran	ND	*	10		ug/L			04/09/14 20:37	1
Toluene	ND		1.0		ug/L			04/09/14 20:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 20:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 20:37	1
Trichloroethene	1.6		1.0		ug/L			04/09/14 20:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 20:37	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 20:37	1
Dibromomethane	ND		1.0		ug/L			04/09/14 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/09/14 20:37	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/09/14 20:37	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/09/14 20:37	1

Client Sample ID: MW-266Mb-20140405-01

Lab Sample ID: 480-57495-10

Date Collected: 04/05/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 21:00	1
1,1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 21:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 21:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 21:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 21:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-266Mb-20140405-01

Lab Sample ID: 480-57495-10

Date Collected: 04/05/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,4-Dioxane	ND		50		ug/L			04/09/14 21:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 21:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 21:00	1
2-Hexanone	ND		10		ug/L			04/09/14 21:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 21:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 21:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 21:00	1
Acetone	ND		50		ug/L			04/09/14 21:00	1
Benzene	ND		1.0		ug/L			04/09/14 21:00	1
Bromobenzene	ND		1.0		ug/L			04/09/14 21:00	1
Bromoform	ND		1.0		ug/L			04/09/14 21:00	1
Bromomethane	ND		2.0		ug/L			04/09/14 21:00	1
Carbon disulfide	ND		10		ug/L			04/09/14 21:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 21:00	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 21:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 21:00	1
Chloroethane	ND		2.0		ug/L			04/09/14 21:00	1
Chloroform	ND		1.0		ug/L			04/09/14 21:00	1
Chloromethane	ND		2.0		ug/L			04/09/14 21:00	1
cis-1,2-Dichloroethene	60		1.0		ug/L			04/09/14 21:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 21:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 21:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 21:00	1
Ethyl ether	ND		1.0		ug/L			04/09/14 21:00	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 21:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 21:00	1
Isopropyl ether	ND		10		ug/L			04/09/14 21:00	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 21:00	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 21:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 21:00	1
Naphthalene	ND		5.0		ug/L			04/09/14 21:00	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
o-Xylene	ND		1.0		ug/L			04/09/14 21:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
Styrene	ND		1.0		ug/L			04/09/14 21:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 21:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 21:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
Tetrachloroethene	11		1.0		ug/L			04/09/14 21:00	1
Tetrahydrofuran	ND	*	10		ug/L			04/09/14 21:00	1
Toluene	ND		1.0		ug/L			04/09/14 21:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-266Mb-20140405-01

Lab Sample ID: 480-57495-10

Date Collected: 04/05/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 21:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 21:00	1
Trichloroethene	39		1.0		ug/L			04/09/14 21:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 21:00	1
Vinyl chloride	49		1.0		ug/L			04/09/14 21:00	1
Dibromomethane	ND		1.0		ug/L			04/09/14 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/09/14 21:00	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/09/14 21:00	1
4-Bromofluorobenzene (Surr)	95		70 - 130					04/09/14 21:00	1

Client Sample ID: MW-267S-20140405-01

Lab Sample ID: 480-57495-11

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 00:48	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	137		50 - 150					04/12/14 00:48	2
Dibromofluoromethane (Surr)	85		50 - 150					04/12/14 00:48	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/10/14 16:39	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,1-Dichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,1-Dichloroethene	ND		5.0		ug/L			04/10/14 16:39	5
1,1-Dichloropropene	ND		5.0		ug/L			04/10/14 16:39	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/10/14 16:39	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2-Dichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,2-Dichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,3-Dichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,4-Dioxane	ND		250		ug/L			04/10/14 16:39	5
2,2-Dichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
2-Butanone (MEK)	210	*	50		ug/L			04/10/14 16:39	5
2-Chlorotoluene	ND		5.0		ug/L			04/10/14 16:39	5
2-Hexanone	ND	*	50		ug/L			04/10/14 16:39	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-267S-20140405-01

Lab Sample ID: 480-57495-11

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		5.0		ug/L			04/10/14 16:39	5
4-Isopropyltoluene	ND		5.0		ug/L			04/10/14 16:39	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/10/14 16:39	5
Acetone	ND		250		ug/L			04/10/14 16:39	5
Benzene	ND		5.0		ug/L			04/10/14 16:39	5
Bromobenzene	ND		5.0		ug/L			04/10/14 16:39	5
Bromoform	ND		5.0		ug/L			04/10/14 16:39	5
Bromomethane	ND		10		ug/L			04/10/14 16:39	5
Carbon disulfide	ND		50		ug/L			04/10/14 16:39	5
Carbon tetrachloride	ND		5.0		ug/L			04/10/14 16:39	5
Chlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
Chlorobromomethane	ND		5.0		ug/L			04/10/14 16:39	5
Chlorodibromomethane	ND		2.5		ug/L			04/10/14 16:39	5
Chloroethane	ND		10		ug/L			04/10/14 16:39	5
Chloroform	ND		5.0		ug/L			04/10/14 16:39	5
Chloromethane	ND		10		ug/L			04/10/14 16:39	5
cis-1,2-Dichloroethene	360		5.0		ug/L			04/10/14 16:39	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/10/14 16:39	5
Dichlorobromomethane	ND		2.5		ug/L			04/10/14 16:39	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/10/14 16:39	5
Ethyl ether	ND		5.0		ug/L			04/10/14 16:39	5
Ethylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Ethylene Dibromide	ND		5.0		ug/L			04/10/14 16:39	5
Hexachlorobutadiene	ND		2.0		ug/L			04/10/14 16:39	5
Isopropyl ether	ND		50		ug/L			04/10/14 16:39	5
Isopropylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/10/14 16:39	5
Methylene Chloride	ND		5.0		ug/L			04/10/14 16:39	5
m-Xylene & p-Xylene	ND		10		ug/L			04/10/14 16:39	5
Naphthalene	ND		25		ug/L			04/10/14 16:39	5
n-Butylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
N-Propylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
o-Xylene	ND		5.0		ug/L			04/10/14 16:39	5
sec-Butylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Styrene	ND		5.0		ug/L			04/10/14 16:39	5
Tert-amyl methyl ether	ND		25		ug/L			04/10/14 16:39	5
Tert-butyl ethyl ether	ND		25		ug/L			04/10/14 16:39	5
tert-Butylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Tetrachloroethene	ND		5.0		ug/L			04/10/14 16:39	5
Tetrahydrofuran	ND		50		ug/L			04/10/14 16:39	5
Toluene	410		5.0		ug/L			04/10/14 16:39	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/10/14 16:39	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/10/14 16:39	5
Trichloroethene	ND		5.0		ug/L			04/10/14 16:39	5
Trichlorofluoromethane	ND		5.0		ug/L			04/10/14 16:39	5
Vinyl chloride	16		5.0		ug/L			04/10/14 16:39	5
Dibromomethane	ND		5.0		ug/L			04/10/14 16:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/10/14 16:39	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-267S-20140405-01

Lab Sample ID: 480-57495-11

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/10/14 16:39	5
4-Bromofluorobenzene (Surr)	99		70 - 130		04/10/14 16:39	5

Client Sample ID: MW-267M-20140405-01

Lab Sample ID: 480-57495-12

Date Collected: 04/05/14 12:50

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 01:11	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	118		50 - 150		04/12/14 01:11	2
Dibromofluoromethane (Surr)	86		50 - 150		04/12/14 01:11	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1,1-Trichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/10/14 17:04	10
1,1,2-Trichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1-Dichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1-Dichloroethene	ND		10		ug/L			04/10/14 17:04	10
1,1-Dichloropropene	ND		10		ug/L			04/10/14 17:04	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,2,3-Trichloropropane	ND		10		ug/L			04/10/14 17:04	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/10/14 17:04	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/10/14 17:04	10
1,2-Dichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,2-Dichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,2-Dichloropropane	ND		10		ug/L			04/10/14 17:04	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/10/14 17:04	10
1,3-Dichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,3-Dichloropropane	ND		10		ug/L			04/10/14 17:04	10
1,4-Dichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,4-Dioxane	ND		500		ug/L			04/10/14 17:04	10
2,2-Dichloropropane	ND		10		ug/L			04/10/14 17:04	10
2-Butanone (MEK)	180	*	100		ug/L			04/10/14 17:04	10
2-Chlorotoluene	ND		10		ug/L			04/10/14 17:04	10
2-Hexanone	ND	*	100		ug/L			04/10/14 17:04	10
4-Chlorotoluene	ND		10		ug/L			04/10/14 17:04	10
4-Isopropyltoluene	ND		10		ug/L			04/10/14 17:04	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/10/14 17:04	10
Acetone	ND		500		ug/L			04/10/14 17:04	10
Benzene	ND		10		ug/L			04/10/14 17:04	10
Bromobenzene	ND		10		ug/L			04/10/14 17:04	10
Bromoform	ND		10		ug/L			04/10/14 17:04	10
Bromomethane	ND		20		ug/L			04/10/14 17:04	10
Carbon disulfide	ND		100		ug/L			04/10/14 17:04	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-267M-20140405-01

Lab Sample ID: 480-57495-12

Date Collected: 04/05/14 12:50

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		10		ug/L			04/10/14 17:04	10
Chlorobenzene	ND		10		ug/L			04/10/14 17:04	10
Chlorobromomethane	ND		10		ug/L			04/10/14 17:04	10
Chlorodibromomethane	ND		5.0		ug/L			04/10/14 17:04	10
Chloroethane	ND		20		ug/L			04/10/14 17:04	10
Chloroform	ND		10		ug/L			04/10/14 17:04	10
Chloromethane	ND		20		ug/L			04/10/14 17:04	10
cis-1,2-Dichloroethene	380		10		ug/L			04/10/14 17:04	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/10/14 17:04	10
Dichlorobromomethane	ND		5.0		ug/L			04/10/14 17:04	10
Dichlorodifluoromethane	ND		10		ug/L			04/10/14 17:04	10
Ethyl ether	ND		10		ug/L			04/10/14 17:04	10
Ethylbenzene	ND		10		ug/L			04/10/14 17:04	10
Ethylene Dibromide	ND		10		ug/L			04/10/14 17:04	10
Hexachlorobutadiene	ND		4.0		ug/L			04/10/14 17:04	10
Isopropyl ether	ND		100		ug/L			04/10/14 17:04	10
Isopropylbenzene	ND		10		ug/L			04/10/14 17:04	10
Methyl tert-butyl ether	ND		10		ug/L			04/10/14 17:04	10
Methylene Chloride	ND		10		ug/L			04/10/14 17:04	10
m-Xylene & p-Xylene	ND		20		ug/L			04/10/14 17:04	10
Naphthalene	ND		50		ug/L			04/10/14 17:04	10
n-Butylbenzene	ND		10		ug/L			04/10/14 17:04	10
N-Propylbenzene	ND		10		ug/L			04/10/14 17:04	10
o-Xylene	ND		10		ug/L			04/10/14 17:04	10
sec-Butylbenzene	ND		10		ug/L			04/10/14 17:04	10
Styrene	ND		10		ug/L			04/10/14 17:04	10
Tert-amyl methyl ether	ND		50		ug/L			04/10/14 17:04	10
Tert-butyl ethyl ether	ND		50		ug/L			04/10/14 17:04	10
tert-Butylbenzene	ND		10		ug/L			04/10/14 17:04	10
Tetrachloroethene	ND		10		ug/L			04/10/14 17:04	10
Tetrahydrofuran	ND		100		ug/L			04/10/14 17:04	10
Toluene	87		10		ug/L			04/10/14 17:04	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/10/14 17:04	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/10/14 17:04	10
Trichloroethene	ND		10		ug/L			04/10/14 17:04	10
Trichlorofluoromethane	ND		10		ug/L			04/10/14 17:04	10
Vinyl chloride	31		10		ug/L			04/10/14 17:04	10
Dibromomethane	ND		10		ug/L			04/10/14 17:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/10/14 17:04	10
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 17:04	10
4-Bromofluorobenzene (Surr)	98		70 - 130		04/10/14 17:04	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-268S-20140407

Lab Sample ID: 480-57495-13

Date Collected: 04/07/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/12/14 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	112		50 - 150					04/12/14 01:36	1
Dibromofluoromethane (Surr)	90		50 - 150					04/12/14 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 17:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 17:29	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 17:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 17:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,4-Dioxane	ND		50		ug/L			04/10/14 17:29	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 17:29	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 17:29	1
2-Hexanone	ND	*	10		ug/L			04/10/14 17:29	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 17:29	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 17:29	1
Acetone	ND		50		ug/L			04/10/14 17:29	1
Benzene	ND		1.0		ug/L			04/10/14 17:29	1
Bromobenzene	ND		1.0		ug/L			04/10/14 17:29	1
Bromoform	ND		1.0		ug/L			04/10/14 17:29	1
Bromomethane	ND		2.0		ug/L			04/10/14 17:29	1
Carbon disulfide	ND		10		ug/L			04/10/14 17:29	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 17:29	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 17:29	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 17:29	1
Chloroethane	ND		2.0		ug/L			04/10/14 17:29	1
Chloroform	ND		1.0		ug/L			04/10/14 17:29	1
Chloromethane	ND		2.0		ug/L			04/10/14 17:29	1
cis-1,2-Dichloroethene	11		1.0		ug/L			04/10/14 17:29	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 17:29	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-268S-20140407

Lab Sample ID: 480-57495-13

Date Collected: 04/07/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 17:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 17:29	1
Ethyl ether	ND		1.0		ug/L			04/10/14 17:29	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 17:29	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 17:29	1
Isopropyl ether	ND		10		ug/L			04/10/14 17:29	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 17:29	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 17:29	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 17:29	1
Naphthalene	ND		5.0		ug/L			04/10/14 17:29	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
o-Xylene	ND		1.0		ug/L			04/10/14 17:29	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Styrene	ND		1.0		ug/L			04/10/14 17:29	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 17:29	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 17:29	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 17:29	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 17:29	1
Toluene	ND		1.0		ug/L			04/10/14 17:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 17:29	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 17:29	1
Trichloroethene	11		1.0		ug/L			04/10/14 17:29	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 17:29	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 17:29	1
Dibromomethane	ND		1.0		ug/L			04/10/14 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/10/14 17:29	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 17:29	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/10/14 17:29	1

Client Sample ID: MW-268M-20140407

Lab Sample ID: 480-57495-14

Date Collected: 04/07/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	25		1.6		ug/L			04/12/14 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	80		50 - 150		04/12/14 02:00	1
Dibromofluoromethane (Surr)	83		50 - 150		04/12/14 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40		ug/L			04/10/14 17:54	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-268M-20140407

Lab Sample ID: 480-57495-14

Date Collected: 04/07/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,1,2,2-Tetrachloroethane	ND		20		ug/L			04/10/14 17:54	40
1,1,2-Trichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,1-Dichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,1-Dichloroethene	ND		40		ug/L			04/10/14 17:54	40
1,1-Dichloropropene	ND		40		ug/L			04/10/14 17:54	40
1,2,3-Trichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,2,3-Trichloropropane	ND		40		ug/L			04/10/14 17:54	40
1,2,4-Trichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,2,4-Trimethylbenzene	ND		40		ug/L			04/10/14 17:54	40
1,2-Dibromo-3-Chloropropane	ND		200		ug/L			04/10/14 17:54	40
1,2-Dichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,2-Dichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,2-Dichloropropane	ND		40		ug/L			04/10/14 17:54	40
1,3,5-Trimethylbenzene	ND		40		ug/L			04/10/14 17:54	40
1,3-Dichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,3-Dichloropropane	ND		40		ug/L			04/10/14 17:54	40
1,4-Dichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,4-Dioxane	ND		2000		ug/L			04/10/14 17:54	40
2,2-Dichloropropane	ND		40		ug/L			04/10/14 17:54	40
2-Butanone (MEK)	ND	*	400		ug/L			04/10/14 17:54	40
2-Chlorotoluene	ND		40		ug/L			04/10/14 17:54	40
2-Hexanone	ND	*	400		ug/L			04/10/14 17:54	40
4-Chlorotoluene	ND		40		ug/L			04/10/14 17:54	40
4-Isopropyltoluene	ND		40		ug/L			04/10/14 17:54	40
4-Methyl-2-pentanone (MIBK)	ND		400		ug/L			04/10/14 17:54	40
Acetone	ND		2000		ug/L			04/10/14 17:54	40
Benzene	ND		40		ug/L			04/10/14 17:54	40
Bromobenzene	ND		40		ug/L			04/10/14 17:54	40
Bromoform	ND		40		ug/L			04/10/14 17:54	40
Bromomethane	ND		80		ug/L			04/10/14 17:54	40
Carbon disulfide	ND		400		ug/L			04/10/14 17:54	40
Carbon tetrachloride	ND		40		ug/L			04/10/14 17:54	40
Chlorobenzene	ND		40		ug/L			04/10/14 17:54	40
Chlorobromomethane	ND		40		ug/L			04/10/14 17:54	40
Chlorodibromomethane	ND		20		ug/L			04/10/14 17:54	40
Chloroethane	ND		80		ug/L			04/10/14 17:54	40
Chloroform	ND		40		ug/L			04/10/14 17:54	40
Chloromethane	ND		80		ug/L			04/10/14 17:54	40
cis-1,2-Dichloroethene	3100		40		ug/L			04/10/14 17:54	40
cis-1,3-Dichloropropene	ND		16		ug/L			04/10/14 17:54	40
Dichlorobromomethane	ND		20		ug/L			04/10/14 17:54	40
Dichlorodifluoromethane	ND		40		ug/L			04/10/14 17:54	40
Ethyl ether	ND		40		ug/L			04/10/14 17:54	40
Ethylbenzene	ND		40		ug/L			04/10/14 17:54	40
Ethylene Dibromide	ND		40		ug/L			04/10/14 17:54	40
Hexachlorobutadiene	ND		16		ug/L			04/10/14 17:54	40
Isopropyl ether	ND		400		ug/L			04/10/14 17:54	40
Isopropylbenzene	ND		40		ug/L			04/10/14 17:54	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-268M-20140407

Lab Sample ID: 480-57495-14

Date Collected: 04/07/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		40		ug/L			04/10/14 17:54	40
Methylene Chloride	ND		40		ug/L			04/10/14 17:54	40
m-Xylene & p-Xylene	ND		80		ug/L			04/10/14 17:54	40
Naphthalene	ND		200		ug/L			04/10/14 17:54	40
n-Butylbenzene	ND		40		ug/L			04/10/14 17:54	40
N-Propylbenzene	ND		40		ug/L			04/10/14 17:54	40
o-Xylene	ND		40		ug/L			04/10/14 17:54	40
sec-Butylbenzene	ND		40		ug/L			04/10/14 17:54	40
Styrene	ND		40		ug/L			04/10/14 17:54	40
Tert-amyl methyl ether	ND		200		ug/L			04/10/14 17:54	40
Tert-butyl ethyl ether	ND		200		ug/L			04/10/14 17:54	40
tert-Butylbenzene	ND		40		ug/L			04/10/14 17:54	40
Tetrachloroethene	ND		40		ug/L			04/10/14 17:54	40
Tetrahydrofuran	ND		400		ug/L			04/10/14 17:54	40
Toluene	ND		40		ug/L			04/10/14 17:54	40
trans-1,2-Dichloroethene	ND		40		ug/L			04/10/14 17:54	40
trans-1,3-Dichloropropene	ND		16		ug/L			04/10/14 17:54	40
Trichloroethene	1200		40		ug/L			04/10/14 17:54	40
Trichlorofluoromethane	ND		40		ug/L			04/10/14 17:54	40
Vinyl chloride	180		40		ug/L			04/10/14 17:54	40
Dibromomethane	ND		40		ug/L			04/10/14 17:54	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/10/14 17:54	40
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 17:54	40
4-Bromofluorobenzene (Surr)	99		70 - 130		04/10/14 17:54	40

Client Sample ID: MW-268D-20140405

Lab Sample ID: 480-57495-15

Date Collected: 04/05/14 12:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 18:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 18:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 18:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2,3-Trichloropropene	ND		1.0		ug/L			04/10/14 18:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 18:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-268D-20140405

Lab Sample ID: 480-57495-15

Date Collected: 04/05/14 12:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 18:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,4-Dioxane	ND		50		ug/L			04/10/14 18:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:19	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 18:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:19	1
2-Hexanone	ND	*	10		ug/L			04/10/14 18:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 18:19	1
Acetone	ND		50		ug/L			04/10/14 18:19	1
Benzene	ND		1.0		ug/L			04/10/14 18:19	1
Bromobenzene	ND		1.0		ug/L			04/10/14 18:19	1
Bromoform	ND		1.0		ug/L			04/10/14 18:19	1
Bromomethane	ND		2.0		ug/L			04/10/14 18:19	1
Carbon disulfide	ND		10		ug/L			04/10/14 18:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 18:19	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 18:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 18:19	1
Chloroethane	ND		2.0		ug/L			04/10/14 18:19	1
Chloroform	ND		1.0		ug/L			04/10/14 18:19	1
Chloromethane	ND		2.0		ug/L			04/10/14 18:19	1
cis-1,2-Dichloroethene	8.5		1.0		ug/L			04/10/14 18:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 18:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 18:19	1
Ethyl ether	ND		1.0		ug/L			04/10/14 18:19	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 18:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 18:19	1
Isopropyl ether	ND		10		ug/L			04/10/14 18:19	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 18:19	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 18:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 18:19	1
Naphthalene	ND		5.0		ug/L			04/10/14 18:19	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
o-Xylene	ND		1.0		ug/L			04/10/14 18:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Styrene	ND		1.0		ug/L			04/10/14 18:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 18:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 18:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 18:19	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 18:19	1
Toluene	2.0		1.0		ug/L			04/10/14 18:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 18:19	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-268D-20140405

Lab Sample ID: 480-57495-15

Date Collected: 04/05/14 12:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:19	1
Trichloroethene	1.2		1.0		ug/L			04/10/14 18:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 18:19	1
Vinyl chloride	2.6		1.0		ug/L			04/10/14 18:19	1
Dibromomethane	ND		1.0		ug/L			04/10/14 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/10/14 18:19	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/10/14 18:19	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/10/14 18:19	1

Client Sample ID: MW-269Ma-20140405

Lab Sample ID: 480-57495-16

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.9		1.6		ug/L			04/12/14 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	111		50 - 150					04/12/14 02:24	1
Dibromofluoromethane (Surr)	92		50 - 150					04/12/14 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 18:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 18:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 18:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 18:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,4-Dioxane	ND		50		ug/L			04/10/14 18:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 18:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:44	1
2-Hexanone	ND	*	10		ug/L			04/10/14 18:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:44	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-269Ma-20140405

Lab Sample ID: 480-57495-16

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 18:44	1
Acetone	ND		50		ug/L			04/10/14 18:44	1
Benzene	ND		1.0		ug/L			04/10/14 18:44	1
Bromobenzene	ND		1.0		ug/L			04/10/14 18:44	1
Bromoform	ND		1.0		ug/L			04/10/14 18:44	1
Bromomethane	ND		2.0		ug/L			04/10/14 18:44	1
Carbon disulfide	ND		10		ug/L			04/10/14 18:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 18:44	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 18:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 18:44	1
Chloroethane	ND		2.0		ug/L			04/10/14 18:44	1
Chloroform	ND		1.0		ug/L			04/10/14 18:44	1
Chloromethane	ND		2.0		ug/L			04/10/14 18:44	1
cis-1,2-Dichloroethene	3.2		1.0		ug/L			04/10/14 18:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 18:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 18:44	1
Ethyl ether	ND		1.0		ug/L			04/10/14 18:44	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 18:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 18:44	1
Isopropyl ether	ND		10		ug/L			04/10/14 18:44	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 18:44	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 18:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 18:44	1
Naphthalene	ND		5.0		ug/L			04/10/14 18:44	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
o-Xylene	ND		1.0		ug/L			04/10/14 18:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Styrene	ND		1.0		ug/L			04/10/14 18:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 18:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 18:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 18:44	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 18:44	1
Toluene	ND		1.0		ug/L			04/10/14 18:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 18:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:44	1
Trichloroethene	2.2		1.0		ug/L			04/10/14 18:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 18:44	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 18:44	1
Dibromomethane	ND		1.0		ug/L			04/10/14 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/10/14 18:44	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		04/10/14 18:44	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-269Ma-20140405

Lab Sample ID: 480-57495-16

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		04/10/14 18:44	1

Client Sample ID: MW-551-20140408-01

Lab Sample ID: 480-57495-17

Date Collected: 04/08/14 12:05

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1,1-Trichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1,2,2-Tetrachloroethane	ND		20		ug/L			04/11/14 14:09	40
1,1,2-Trichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1-Dichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1-Dichloroethene	ND		40		ug/L			04/11/14 14:09	40
1,1-Dichloropropene	ND		40		ug/L			04/11/14 14:09	40
1,2,3-Trichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,2,3-Trichloropropane	ND		40		ug/L			04/11/14 14:09	40
1,2,4-Trichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,2,4-Trimethylbenzene	ND		40		ug/L			04/11/14 14:09	40
1,2-Dibromo-3-Chloropropane	ND		200		ug/L			04/11/14 14:09	40
1,2-Dichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,2-Dichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,2-Dichloropropane	ND		40		ug/L			04/11/14 14:09	40
1,3,5-Trimethylbenzene	ND		40		ug/L			04/11/14 14:09	40
1,3-Dichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,3-Dichloropropane	ND		40		ug/L			04/11/14 14:09	40
1,4-Dichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,4-Dioxane	ND		2000		ug/L			04/11/14 14:09	40
2,2-Dichloropropane	ND		40		ug/L			04/11/14 14:09	40
2-Butanone (MEK)	ND		400		ug/L			04/11/14 14:09	40
2-Chlorotoluene	ND		40		ug/L			04/11/14 14:09	40
2-Hexanone	ND *		400		ug/L			04/11/14 14:09	40
4-Chlorotoluene	ND		40		ug/L			04/11/14 14:09	40
4-Isopropyltoluene	ND		40		ug/L			04/11/14 14:09	40
4-Methyl-2-pentanone (MIBK)	ND		400		ug/L			04/11/14 14:09	40
Acetone	15000		2000		ug/L			04/11/14 14:09	40
Benzene	ND		40		ug/L			04/11/14 14:09	40
Bromobenzene	ND		40		ug/L			04/11/14 14:09	40
Bromoform	ND		40		ug/L			04/11/14 14:09	40
Bromomethane	ND		80		ug/L			04/11/14 14:09	40
Carbon disulfide	ND		400		ug/L			04/11/14 14:09	40
Carbon tetrachloride	ND		40		ug/L			04/11/14 14:09	40
Chlorobenzene	ND		40		ug/L			04/11/14 14:09	40
Chlorobromomethane	ND		40		ug/L			04/11/14 14:09	40
Chlorodibromomethane	ND		20		ug/L			04/11/14 14:09	40
Chloroethane	ND		80		ug/L			04/11/14 14:09	40
Chloroform	ND		40		ug/L			04/11/14 14:09	40
Chloromethane	ND		80		ug/L			04/11/14 14:09	40
cis-1,2-Dichloroethene	ND		40		ug/L			04/11/14 14:09	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-551-20140408-01

Lab Sample ID: 480-57495-17

Date Collected: 04/08/14 12:05

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		16		ug/L			04/11/14 14:09	40
Dichlorobromomethane	ND		20		ug/L			04/11/14 14:09	40
Dichlorodifluoromethane	ND		40		ug/L			04/11/14 14:09	40
Ethyl ether	ND		40		ug/L			04/11/14 14:09	40
Ethylbenzene	ND		40		ug/L			04/11/14 14:09	40
Ethylene Dibromide	ND		40		ug/L			04/11/14 14:09	40
Hexachlorobutadiene	ND		16		ug/L			04/11/14 14:09	40
Isopropyl ether	ND		400		ug/L			04/11/14 14:09	40
Isopropylbenzene	ND		40		ug/L			04/11/14 14:09	40
Methyl tert-butyl ether	ND		40		ug/L			04/11/14 14:09	40
Methylene Chloride	ND		40		ug/L			04/11/14 14:09	40
m-Xylene & p-Xylene	ND		80		ug/L			04/11/14 14:09	40
Naphthalene	ND		200		ug/L			04/11/14 14:09	40
n-Butylbenzene	ND		40		ug/L			04/11/14 14:09	40
N-Propylbenzene	ND		40		ug/L			04/11/14 14:09	40
o-Xylene	ND		40		ug/L			04/11/14 14:09	40
sec-Butylbenzene	ND		40		ug/L			04/11/14 14:09	40
Styrene	ND		40		ug/L			04/11/14 14:09	40
Tert-amyl methyl ether	ND		200		ug/L			04/11/14 14:09	40
Tert-butyl ethyl ether	ND		200		ug/L			04/11/14 14:09	40
tert-Butylbenzene	ND		40		ug/L			04/11/14 14:09	40
Tetrachloroethene	ND		40		ug/L			04/11/14 14:09	40
Tetrahydrofuran	ND		400		ug/L			04/11/14 14:09	40
Toluene	ND		40		ug/L			04/11/14 14:09	40
trans-1,2-Dichloroethene	ND		40		ug/L			04/11/14 14:09	40
trans-1,3-Dichloropropene	ND		16		ug/L			04/11/14 14:09	40
Trichloroethene	ND		40		ug/L			04/11/14 14:09	40
Trichlorofluoromethane	ND		40		ug/L			04/11/14 14:09	40
Vinyl chloride	ND		40		ug/L			04/11/14 14:09	40
Dibromomethane	ND		40		ug/L			04/11/14 14:09	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 14:09	40
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		04/11/14 14:09	40
4-Bromofluorobenzene (Surr)	100		70 - 130		04/11/14 14:09	40

Client Sample ID: MW-552-20140407-01

Lab Sample ID: 480-57495-18

Date Collected: 04/07/14 15:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 02:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	117		50 - 150		04/12/14 02:48	2
Dibromofluoromethane (Surr)	88		50 - 150		04/12/14 02:48	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-552-20140407-01

Lab Sample ID: 480-57495-18

Date Collected: 04/07/14 15:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 14:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 14:35	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 14:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 14:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,4-Dioxane	ND		50		ug/L			04/11/14 14:35	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 14:35	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 14:35	1
2-Hexanone	ND *		10		ug/L			04/11/14 14:35	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 14:35	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 14:35	1
Acetone	120		50		ug/L			04/11/14 14:35	1
Benzene	ND		1.0		ug/L			04/11/14 14:35	1
Bromobenzene	ND		1.0		ug/L			04/11/14 14:35	1
Bromoform	ND		1.0		ug/L			04/11/14 14:35	1
Bromomethane	ND		2.0		ug/L			04/11/14 14:35	1
Carbon disulfide	ND		10		ug/L			04/11/14 14:35	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 14:35	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 14:35	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 14:35	1
Chloroethane	ND		2.0		ug/L			04/11/14 14:35	1
Chloroform	ND		1.0		ug/L			04/11/14 14:35	1
Chloromethane	ND		2.0		ug/L			04/11/14 14:35	1
cis-1,2-Dichloroethene	2.6		1.0		ug/L			04/11/14 14:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 14:35	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 14:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 14:35	1
Ethyl ether	ND		1.0		ug/L			04/11/14 14:35	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 14:35	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 14:35	1
Isopropyl ether	ND		10		ug/L			04/11/14 14:35	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-552-20140407-01

Lab Sample ID: 480-57495-18

Date Collected: 04/07/14 15:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 14:35	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 14:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 14:35	1
Naphthalene	ND		5.0		ug/L			04/11/14 14:35	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
o-Xylene	ND		1.0		ug/L			04/11/14 14:35	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
Styrene	ND		1.0		ug/L			04/11/14 14:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 14:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 14:35	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 14:35	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 14:35	1
Toluene	2.4		1.0		ug/L			04/11/14 14:35	1
trans-1,2-Dichloroethene	2.8		1.0		ug/L			04/11/14 14:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 14:35	1
Trichloroethene	ND		1.0		ug/L			04/11/14 14:35	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 14:35	1
Vinyl chloride	4.6		1.0		ug/L			04/11/14 14:35	1
Dibromomethane	ND		1.0		ug/L			04/11/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 14:35	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/11/14 14:35	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/11/14 14:35	1

Client Sample ID: MW-553-20140407-01

Lab Sample ID: 480-57495-19

Date Collected: 04/07/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 15:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 15:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 15:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 15:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 15:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-553-20140407-01

Lab Sample ID: 480-57495-19

Date Collected: 04/07/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,4-Dioxane	ND		50		ug/L			04/11/14 15:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 15:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 15:00	1
2-Hexanone	ND	*	10		ug/L			04/11/14 15:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 15:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 15:00	1
Acetone	160		50		ug/L			04/11/14 15:00	1
Benzene	ND		1.0		ug/L			04/11/14 15:00	1
Bromobenzene	ND		1.0		ug/L			04/11/14 15:00	1
Bromoform	ND		1.0		ug/L			04/11/14 15:00	1
Bromomethane	ND		2.0		ug/L			04/11/14 15:00	1
Carbon disulfide	ND		10		ug/L			04/11/14 15:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 15:00	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 15:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 15:00	1
Chloroethane	ND		2.0		ug/L			04/11/14 15:00	1
Chloroform	ND		1.0		ug/L			04/11/14 15:00	1
Chloromethane	ND		2.0		ug/L			04/11/14 15:00	1
cis-1,2-Dichloroethene	22		1.0		ug/L			04/11/14 15:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 15:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 15:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 15:00	1
Ethyl ether	ND		1.0		ug/L			04/11/14 15:00	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 15:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 15:00	1
Isopropyl ether	ND		10		ug/L			04/11/14 15:00	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 15:00	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 15:00	1
m-Xylene & p-Xylene	2.6		2.0		ug/L			04/11/14 15:00	1
Naphthalene	ND		5.0		ug/L			04/11/14 15:00	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
o-Xylene	ND		1.0		ug/L			04/11/14 15:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Styrene	ND		1.0		ug/L			04/11/14 15:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 15:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 15:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 15:00	1
Tetrahydrofuran	10		10		ug/L			04/11/14 15:00	1
Toluene	3.9		1.0		ug/L			04/11/14 15:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-553-20140407-01

Lab Sample ID: 480-57495-19

Date Collected: 04/07/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.8		1.0		ug/L			04/11/14 15:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 15:00	1
Trichloroethene	ND		1.0		ug/L			04/11/14 15:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 15:00	1
Vinyl chloride	28		1.0		ug/L			04/11/14 15:00	1
Dibromomethane	ND		1.0		ug/L			04/11/14 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/11/14 15:00	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/11/14 15:00	1
4-Bromofluorobenzene (Surr)	104		70 - 130					04/11/14 15:00	1

Client Sample ID: MW-560-20140407-01

Lab Sample ID: 480-57495-20

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 20:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 20:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 20:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 20:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,4-Dioxane	ND		50		ug/L			04/10/14 20:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
2-Butanone (MEK)	210	*	10		ug/L			04/10/14 20:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 20:26	1
2-Hexanone	ND	*	10		ug/L			04/10/14 20:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 20:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 20:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 20:26	1
Acetone	ND		50		ug/L			04/10/14 20:26	1
Benzene	ND		1.0		ug/L			04/10/14 20:26	1
Bromobenzene	ND		1.0		ug/L			04/10/14 20:26	1
Bromoform	ND		1.0		ug/L			04/10/14 20:26	1
Bromomethane	ND		2.0		ug/L			04/10/14 20:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-560-20140407-01

Lab Sample ID: 480-57495-20

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/10/14 20:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 20:26	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 20:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 20:26	1
Chloroethane	ND		2.0		ug/L			04/10/14 20:26	1
Chloroform	ND		1.0		ug/L			04/10/14 20:26	1
Chloromethane	ND		2.0		ug/L			04/10/14 20:26	1
cis-1,2-Dichloroethene	48		1.0		ug/L			04/10/14 20:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 20:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 20:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 20:26	1
Ethyl ether	ND		1.0		ug/L			04/10/14 20:26	1
Ethylbenzene	1.8		1.0		ug/L			04/10/14 20:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 20:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 20:26	1
Isopropyl ether	ND		10		ug/L			04/10/14 20:26	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 20:26	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 20:26	1
m-Xylene & p-Xylene	6.9		2.0		ug/L			04/10/14 20:26	1
Naphthalene	ND		5.0		ug/L			04/10/14 20:26	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
o-Xylene	1.7		1.0		ug/L			04/10/14 20:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
Styrene	ND		1.0		ug/L			04/10/14 20:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 20:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 20:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 20:26	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 20:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 20:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 20:26	1
Trichloroethene	ND		1.0		ug/L			04/10/14 20:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 20:26	1
Vinyl chloride	42		1.0		ug/L			04/10/14 20:26	1
Dibromomethane	ND		1.0		ug/L			04/10/14 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/10/14 20:26	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 20:26	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/10/14 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	200		4.0		ug/L			04/11/14 15:26	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 15:26	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-560-20140407-01

Lab Sample ID: 480-57495-20

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/11/14 15:26	4
4-Bromofluorobenzene (Surr)	102		70 - 130		04/11/14 15:26	4

Client Sample ID: MW-561-20140407-01

Lab Sample ID: 480-57495-21

Date Collected: 04/07/14 12:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1,1-Trichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/11/14 15:51	10
1,1,2-Trichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1-Dichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1-Dichloroethene	ND		10		ug/L			04/11/14 15:51	10
1,1-Dichloropropene	ND		10		ug/L			04/11/14 15:51	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,2,3-Trichloropropane	ND		10		ug/L			04/11/14 15:51	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/11/14 15:51	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/11/14 15:51	10
1,2-Dichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,2-Dichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,2-Dichloropropane	ND		10		ug/L			04/11/14 15:51	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/11/14 15:51	10
1,3-Dichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,3-Dichloropropane	ND		10		ug/L			04/11/14 15:51	10
1,4-Dichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,4-Dioxane	ND		500		ug/L			04/11/14 15:51	10
2,2-Dichloropropane	ND		10		ug/L			04/11/14 15:51	10
2-Butanone (MEK)	ND		100		ug/L			04/11/14 15:51	10
2-Chlorotoluene	ND		10		ug/L			04/11/14 15:51	10
2-Hexanone	ND *		100		ug/L			04/11/14 15:51	10
4-Chlorotoluene	ND		10		ug/L			04/11/14 15:51	10
4-Isopropyltoluene	ND		10		ug/L			04/11/14 15:51	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/11/14 15:51	10
Acetone	ND		500		ug/L			04/11/14 15:51	10
Benzene	ND		10		ug/L			04/11/14 15:51	10
Bromobenzene	ND		10		ug/L			04/11/14 15:51	10
Bromoform	ND		10		ug/L			04/11/14 15:51	10
Bromomethane	ND		20		ug/L			04/11/14 15:51	10
Carbon disulfide	ND		100		ug/L			04/11/14 15:51	10
Carbon tetrachloride	ND		10		ug/L			04/11/14 15:51	10
Chlorobenzene	ND		10		ug/L			04/11/14 15:51	10
Chlorobromomethane	ND		10		ug/L			04/11/14 15:51	10
Chlorodibromomethane	ND		5.0		ug/L			04/11/14 15:51	10
Chloroethane	ND		20		ug/L			04/11/14 15:51	10
Chloroform	ND		10		ug/L			04/11/14 15:51	10
Chloromethane	ND		20		ug/L			04/11/14 15:51	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-561-20140407-01

Lab Sample ID: 480-57495-21

Date Collected: 04/07/14 12:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		10		ug/L			04/11/14 15:51	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 15:51	10
Dichlorobromomethane	ND		5.0		ug/L			04/11/14 15:51	10
Dichlorodifluoromethane	ND		10		ug/L			04/11/14 15:51	10
Ethyl ether	ND		10		ug/L			04/11/14 15:51	10
Ethylbenzene	ND		10		ug/L			04/11/14 15:51	10
Ethylene Dibromide	ND		10		ug/L			04/11/14 15:51	10
Hexachlorobutadiene	ND		4.0		ug/L			04/11/14 15:51	10
Isopropyl ether	ND		100		ug/L			04/11/14 15:51	10
Isopropylbenzene	ND		10		ug/L			04/11/14 15:51	10
Methyl tert-butyl ether	ND		10		ug/L			04/11/14 15:51	10
Methylene Chloride	ND		10		ug/L			04/11/14 15:51	10
m-Xylene & p-Xylene	21		20		ug/L			04/11/14 15:51	10
Naphthalene	ND		50		ug/L			04/11/14 15:51	10
n-Butylbenzene	ND		10		ug/L			04/11/14 15:51	10
N-Propylbenzene	ND		10		ug/L			04/11/14 15:51	10
o-Xylene	ND		10		ug/L			04/11/14 15:51	10
sec-Butylbenzene	ND		10		ug/L			04/11/14 15:51	10
Styrene	ND		10		ug/L			04/11/14 15:51	10
Tert-amyl methyl ether	ND		50		ug/L			04/11/14 15:51	10
Tert-butyl ethyl ether	ND		50		ug/L			04/11/14 15:51	10
tert-Butylbenzene	ND		10		ug/L			04/11/14 15:51	10
Tetrachloroethene	ND		10		ug/L			04/11/14 15:51	10
Tetrahydrofuran	ND		100		ug/L			04/11/14 15:51	10
Toluene	600		10		ug/L			04/11/14 15:51	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/11/14 15:51	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 15:51	10
Trichloroethene	ND		10		ug/L			04/11/14 15:51	10
Trichlorofluoromethane	ND		10		ug/L			04/11/14 15:51	10
Vinyl chloride	84		10		ug/L			04/11/14 15:51	10
Dibromomethane	ND		10		ug/L			04/11/14 15:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 15:51	10
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 15:51	10
4-Bromofluorobenzene (Surr)	98		70 - 130		04/11/14 15:51	10

Client Sample ID: MW-562-20140407-01

Lab Sample ID: 480-57495-22

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 02:04	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,1-Dichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,1-Dichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
1,1-Dichloropropene	ND		2.0		ug/L			04/11/14 02:04	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-562-20140407-01

Lab Sample ID: 480-57495-22

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/11/14 02:04	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2-Dichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,2-Dichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,3-Dichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,4-Dioxane	ND *		100		ug/L			04/11/14 02:04	2
2,2-Dichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
2-Butanone (MEK)	150		20		ug/L			04/11/14 02:04	2
2-Chlorotoluene	ND		2.0		ug/L			04/11/14 02:04	2
2-Hexanone	ND *		20		ug/L			04/11/14 02:04	2
4-Chlorotoluene	ND		2.0		ug/L			04/11/14 02:04	2
4-Isopropyltoluene	ND		2.0		ug/L			04/11/14 02:04	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/11/14 02:04	2
Benzene	ND		2.0		ug/L			04/11/14 02:04	2
Bromobenzene	ND		2.0		ug/L			04/11/14 02:04	2
Bromoform	ND		2.0		ug/L			04/11/14 02:04	2
Bromomethane	ND		4.0		ug/L			04/11/14 02:04	2
Carbon disulfide	ND		20		ug/L			04/11/14 02:04	2
Carbon tetrachloride	ND		2.0		ug/L			04/11/14 02:04	2
Chlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
Chlorobromomethane	ND		2.0		ug/L			04/11/14 02:04	2
Chlorodibromomethane	ND		1.0		ug/L			04/11/14 02:04	2
Chloroethane	ND		4.0		ug/L			04/11/14 02:04	2
Chloroform	ND		2.0		ug/L			04/11/14 02:04	2
Chloromethane	ND		4.0		ug/L			04/11/14 02:04	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/11/14 02:04	2
Dichlorobromomethane	ND		1.0		ug/L			04/11/14 02:04	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/11/14 02:04	2
Ethyl ether	ND		2.0		ug/L			04/11/14 02:04	2
Ethylbenzene	6.6		2.0		ug/L			04/11/14 02:04	2
Ethylene Dibromide	ND		2.0		ug/L			04/11/14 02:04	2
Hexachlorobutadiene	ND		0.80		ug/L			04/11/14 02:04	2
Isopropyl ether	ND		20		ug/L			04/11/14 02:04	2
Isopropylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/11/14 02:04	2
Methylene Chloride	ND		2.0		ug/L			04/11/14 02:04	2
m-Xylene & p-Xylene	23		4.0		ug/L			04/11/14 02:04	2
Naphthalene	ND		10		ug/L			04/11/14 02:04	2
n-Butylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
N-Propylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
o-Xylene	7.2		2.0		ug/L			04/11/14 02:04	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-562-20140407-01

Lab Sample ID: 480-57495-22

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
Styrene	ND		2.0		ug/L			04/11/14 02:04	2
Tert-amyl methyl ether	ND		10		ug/L			04/11/14 02:04	2
Tert-butyl ethyl ether	ND		10		ug/L			04/11/14 02:04	2
tert-Butylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
Tetrachloroethene	ND		2.0		ug/L			04/11/14 02:04	2
Tetrahydrofuran	ND		20		ug/L			04/11/14 02:04	2
Toluene	46		2.0		ug/L			04/11/14 02:04	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/11/14 02:04	2
Trichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
Trichlorofluoromethane	ND		2.0		ug/L			04/11/14 02:04	2
Vinyl chloride	ND		2.0		ug/L			04/11/14 02:04	2
Dibromomethane	ND		2.0		ug/L			04/11/14 02:04	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/11/14 02:04	2
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					04/11/14 02:04	2
4-Bromofluorobenzene (Surr)	104		70 - 130					04/11/14 02:04	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	910		200		ug/L			04/11/14 16:16	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/11/14 16:16	4
1,2-Dichloroethane-d4 (Surr)	97		70 - 130					04/11/14 16:16	4
4-Bromofluorobenzene (Surr)	102		70 - 130					04/11/14 16:16	4

Client Sample ID: MW-563-20140407-01

Lab Sample ID: 480-57495-23

Date Collected: 04/07/14 10:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/11/14 02:29	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,1-Dichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,1-Dichloroethene	ND		4.0		ug/L			04/11/14 02:29	4
1,1-Dichloropropene	ND		4.0		ug/L			04/11/14 02:29	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/11/14 02:29	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/11/14 02:29	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2-Dichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,2-Dichloropropane	ND		4.0		ug/L			04/11/14 02:29	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-563-20140407-01

Lab Sample ID: 480-57495-23

Date Collected: 04/07/14 10:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,3-Dichloropropane	ND		4.0		ug/L			04/11/14 02:29	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,4-Dioxane	ND	*	200		ug/L			04/11/14 02:29	4
2,2-Dichloropropane	ND		4.0		ug/L			04/11/14 02:29	4
2-Butanone (MEK)	150		40		ug/L			04/11/14 02:29	4
2-Chlorotoluene	ND		4.0		ug/L			04/11/14 02:29	4
2-Hexanone	ND	*	40		ug/L			04/11/14 02:29	4
4-Chlorotoluene	ND		4.0		ug/L			04/11/14 02:29	4
4-Isopropyltoluene	ND		4.0		ug/L			04/11/14 02:29	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/11/14 02:29	4
Acetone	ND		200		ug/L			04/11/14 02:29	4
Benzene	ND		4.0		ug/L			04/11/14 02:29	4
Bromobenzene	ND		4.0		ug/L			04/11/14 02:29	4
Bromoform	ND		4.0		ug/L			04/11/14 02:29	4
Bromomethane	ND		8.0		ug/L			04/11/14 02:29	4
Carbon disulfide	ND		40		ug/L			04/11/14 02:29	4
Carbon tetrachloride	ND		4.0		ug/L			04/11/14 02:29	4
Chlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
Chlorobromomethane	ND		4.0		ug/L			04/11/14 02:29	4
Chlorodibromomethane	ND		2.0		ug/L			04/11/14 02:29	4
Chloroethane	ND		8.0		ug/L			04/11/14 02:29	4
Chloroform	ND		4.0		ug/L			04/11/14 02:29	4
Chloromethane	ND		8.0		ug/L			04/11/14 02:29	4
cis-1,2-Dichloroethene	190		4.0		ug/L			04/11/14 02:29	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 02:29	4
Dichlorobromomethane	ND		2.0		ug/L			04/11/14 02:29	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/11/14 02:29	4
Ethyl ether	ND		4.0		ug/L			04/11/14 02:29	4
Ethylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Ethylene Dibromide	ND		4.0		ug/L			04/11/14 02:29	4
Hexachlorobutadiene	ND		1.6		ug/L			04/11/14 02:29	4
Isopropyl ether	ND		40		ug/L			04/11/14 02:29	4
Isopropylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/11/14 02:29	4
Methylene Chloride	ND		4.0		ug/L			04/11/14 02:29	4
m-Xylene & p-Xylene	11		8.0		ug/L			04/11/14 02:29	4
Naphthalene	ND		20		ug/L			04/11/14 02:29	4
n-Butylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
N-Propylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
o-Xylene	ND		4.0		ug/L			04/11/14 02:29	4
sec-Butylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Styrene	ND		4.0		ug/L			04/11/14 02:29	4
Tert-amyl methyl ether	ND		20		ug/L			04/11/14 02:29	4
Tert-butyl ethyl ether	ND		20		ug/L			04/11/14 02:29	4
tert-Butylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Tetrachloroethene	ND		4.0		ug/L			04/11/14 02:29	4
Tetrahydrofuran	ND		40		ug/L			04/11/14 02:29	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-563-20140407-01

Lab Sample ID: 480-57495-23

Date Collected: 04/07/14 10:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	37		4.0		ug/L			04/11/14 02:29	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/11/14 02:29	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 02:29	4
Trichloroethene	ND		4.0		ug/L			04/11/14 02:29	4
Trichlorofluoromethane	ND		4.0		ug/L			04/11/14 02:29	4
Vinyl chloride	90		4.0		ug/L			04/11/14 02:29	4
Dibromomethane	ND		4.0		ug/L			04/11/14 02:29	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	97		70 - 130					04/11/14 02:29	4
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		70 - 130					04/11/14 02:29	4
<i>4-Bromofluorobenzene (Surr)</i>	100		70 - 130					04/11/14 02:29	4

Client Sample ID: REW-1-20140406-01

Lab Sample ID: 480-57495-24

Date Collected: 04/06/14 13:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/11/14 16:42	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,1-Dichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,1-Dichloroethene	ND		5.0		ug/L			04/11/14 16:42	5
1,1-Dichloropropene	ND		5.0		ug/L			04/11/14 16:42	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/11/14 16:42	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2-Dichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,2-Dichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,3-Dichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,4-Dioxane	ND		250		ug/L			04/11/14 16:42	5
2,2-Dichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
2-Butanone (MEK)	ND		50		ug/L			04/11/14 16:42	5
2-Chlorotoluene	ND		5.0		ug/L			04/11/14 16:42	5
2-Hexanone	ND *		50		ug/L			04/11/14 16:42	5
4-Chlorotoluene	ND		5.0		ug/L			04/11/14 16:42	5
4-Isopropyltoluene	ND		5.0		ug/L			04/11/14 16:42	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/11/14 16:42	5
Acetone	1500		250		ug/L			04/11/14 16:42	5
Benzene	ND		5.0		ug/L			04/11/14 16:42	5
Bromobenzene	ND		5.0		ug/L			04/11/14 16:42	5
Bromoform	ND		5.0		ug/L			04/11/14 16:42	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-1-20140406-01

Lab Sample ID: 480-57495-24

Date Collected: 04/06/14 13:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		10		ug/L			04/11/14 16:42	5
Carbon disulfide	ND		50		ug/L			04/11/14 16:42	5
Carbon tetrachloride	ND		5.0		ug/L			04/11/14 16:42	5
Chlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
Chlorobromomethane	ND		5.0		ug/L			04/11/14 16:42	5
Chlorodibromomethane	ND		2.5		ug/L			04/11/14 16:42	5
Chloroethane	ND		10		ug/L			04/11/14 16:42	5
Chloroform	ND		5.0		ug/L			04/11/14 16:42	5
Chloromethane	ND		10		ug/L			04/11/14 16:42	5
cis-1,2-Dichloroethene	6.0		5.0		ug/L			04/11/14 16:42	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 16:42	5
Dichlorobromomethane	ND		2.5		ug/L			04/11/14 16:42	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/11/14 16:42	5
Ethyl ether	ND		5.0		ug/L			04/11/14 16:42	5
Ethylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Ethylene Dibromide	ND		5.0		ug/L			04/11/14 16:42	5
Hexachlorobutadiene	ND		2.0		ug/L			04/11/14 16:42	5
Isopropyl ether	ND		50		ug/L			04/11/14 16:42	5
Isopropylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/11/14 16:42	5
Methylene Chloride	ND		5.0		ug/L			04/11/14 16:42	5
m-Xylene & p-Xylene	ND		10		ug/L			04/11/14 16:42	5
Naphthalene	ND		25		ug/L			04/11/14 16:42	5
n-Butylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
N-Propylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
o-Xylene	ND		5.0		ug/L			04/11/14 16:42	5
sec-Butylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Styrene	ND		5.0		ug/L			04/11/14 16:42	5
Tert-amyl methyl ether	ND		25		ug/L			04/11/14 16:42	5
Tert-butyl ethyl ether	ND		25		ug/L			04/11/14 16:42	5
tert-Butylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Tetrachloroethene	ND		5.0		ug/L			04/11/14 16:42	5
Tetrahydrofuran	ND		50		ug/L			04/11/14 16:42	5
Toluene	ND		5.0		ug/L			04/11/14 16:42	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/11/14 16:42	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 16:42	5
Trichloroethene	ND		5.0		ug/L			04/11/14 16:42	5
Trichlorofluoromethane	ND		5.0		ug/L			04/11/14 16:42	5
Vinyl chloride	ND		5.0		ug/L			04/11/14 16:42	5
Dibromomethane	ND		5.0		ug/L			04/11/14 16:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 16:42	5
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/11/14 16:42	5
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 16:42	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-4-20140406-01

Lab Sample ID: 480-57495-25

Date Collected: 04/06/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 17:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 17:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 17:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 17:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,4-Dioxane	ND		50		ug/L			04/11/14 17:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 17:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:07	1
2-Hexanone	ND *		10		ug/L			04/11/14 17:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 17:07	1
Acetone	ND		50		ug/L			04/11/14 17:07	1
Benzene	ND		1.0		ug/L			04/11/14 17:07	1
Bromobenzene	ND		1.0		ug/L			04/11/14 17:07	1
Bromoform	ND		1.0		ug/L			04/11/14 17:07	1
Bromomethane	ND		2.0		ug/L			04/11/14 17:07	1
Carbon disulfide	ND		10		ug/L			04/11/14 17:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 17:07	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 17:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 17:07	1
Chloroethane	ND		2.0		ug/L			04/11/14 17:07	1
Chloroform	ND		1.0		ug/L			04/11/14 17:07	1
Chloromethane	ND		2.0		ug/L			04/11/14 17:07	1
cis-1,2-Dichloroethene	7.6		1.0		ug/L			04/11/14 17:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 17:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 17:07	1
Ethyl ether	ND		1.0		ug/L			04/11/14 17:07	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 17:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 17:07	1
Isopropyl ether	ND		10		ug/L			04/11/14 17:07	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-4-20140406-01

Lab Sample ID: 480-57495-25

Date Collected: 04/06/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 17:07	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 17:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 17:07	1
Naphthalene	ND		5.0		ug/L			04/11/14 17:07	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
o-Xylene	ND		1.0		ug/L			04/11/14 17:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
Styrene	ND		1.0		ug/L			04/11/14 17:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 17:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 17:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 17:07	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 17:07	1
Toluene	ND		1.0		ug/L			04/11/14 17:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 17:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:07	1
Trichloroethene	ND		1.0		ug/L			04/11/14 17:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 17:07	1
Vinyl chloride	4.0		1.0		ug/L			04/11/14 17:07	1
Dibromomethane	ND		1.0		ug/L			04/11/14 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	94		70 - 130		04/11/14 17:07	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	92		70 - 130		04/11/14 17:07	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		04/11/14 17:07	1

Client Sample ID: REW-5-20140406-01

Lab Sample ID: 480-57495-26

Date Collected: 04/06/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 17:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 17:33	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 17:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 17:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:33	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-5-20140406-01

Lab Sample ID: 480-57495-26

Date Collected: 04/06/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,4-Dioxane	ND		50		ug/L			04/11/14 17:33	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 17:33	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:33	1
2-Hexanone	ND	*	10		ug/L			04/11/14 17:33	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:33	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 17:33	1
Acetone	ND		50		ug/L			04/11/14 17:33	1
Benzene	ND		1.0		ug/L			04/11/14 17:33	1
Bromobenzene	ND		1.0		ug/L			04/11/14 17:33	1
Bromoform	ND		1.0		ug/L			04/11/14 17:33	1
Bromomethane	ND		2.0		ug/L			04/11/14 17:33	1
Carbon disulfide	ND		10		ug/L			04/11/14 17:33	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 17:33	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 17:33	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 17:33	1
Chloroethane	ND		2.0		ug/L			04/11/14 17:33	1
Chloroform	ND		1.0		ug/L			04/11/14 17:33	1
Chloromethane	ND		2.0		ug/L			04/11/14 17:33	1
cis-1,2-Dichloroethene	62		1.0		ug/L			04/11/14 17:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:33	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 17:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 17:33	1
Ethyl ether	ND		1.0		ug/L			04/11/14 17:33	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 17:33	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 17:33	1
Isopropyl ether	ND		10		ug/L			04/11/14 17:33	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 17:33	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 17:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 17:33	1
Naphthalene	ND		5.0		ug/L			04/11/14 17:33	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
o-Xylene	ND		1.0		ug/L			04/11/14 17:33	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Styrene	ND		1.0		ug/L			04/11/14 17:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 17:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 17:33	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 17:33	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 17:33	1
Toluene	3.2		1.0		ug/L			04/11/14 17:33	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-5-20140406-01

Lab Sample ID: 480-57495-26

Date Collected: 04/06/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 17:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:33	1
Trichloroethene	5.4		1.0		ug/L			04/11/14 17:33	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 17:33	1
Vinyl chloride	3.8		1.0		ug/L			04/11/14 17:33	1
Dibromomethane	ND		1.0		ug/L			04/11/14 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/11/14 17:33	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/11/14 17:33	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/11/14 17:33	1

Client Sample ID: REW-6-20140406-01

Lab Sample ID: 480-57495-27

Date Collected: 04/06/14 09:05

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/11/14 04:10	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,1-Dichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,1-Dichloroethene	ND		5.0		ug/L			04/11/14 04:10	5
1,1-Dichloropropene	ND		5.0		ug/L			04/11/14 04:10	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/11/14 04:10	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2-Dichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,2-Dichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,3-Dichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,4-Dioxane	ND *		250		ug/L			04/11/14 04:10	5
2,2-Dichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
2-Butanone (MEK)	ND		50		ug/L			04/11/14 04:10	5
2-Chlorotoluene	ND		5.0		ug/L			04/11/14 04:10	5
2-Hexanone	ND *		50		ug/L			04/11/14 04:10	5
4-Chlorotoluene	ND		5.0		ug/L			04/11/14 04:10	5
4-Isopropyltoluene	ND		5.0		ug/L			04/11/14 04:10	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/11/14 04:10	5
Acetone	ND		250		ug/L			04/11/14 04:10	5
Benzene	ND		5.0		ug/L			04/11/14 04:10	5
Bromobenzene	ND		5.0		ug/L			04/11/14 04:10	5
Bromoform	ND		5.0		ug/L			04/11/14 04:10	5
Bromomethane	ND		10		ug/L			04/11/14 04:10	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-6-20140406-01

Lab Sample ID: 480-57495-27

Date Collected: 04/06/14 09:05

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		50		ug/L			04/11/14 04:10	5
Carbon tetrachloride	ND		5.0		ug/L			04/11/14 04:10	5
Chlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
Chlorobromomethane	ND		5.0		ug/L			04/11/14 04:10	5
Chlorodibromomethane	ND		2.5		ug/L			04/11/14 04:10	5
Chloroethane	ND		10		ug/L			04/11/14 04:10	5
Chloroform	ND		5.0		ug/L			04/11/14 04:10	5
Chloromethane	ND		10		ug/L			04/11/14 04:10	5
cis-1,2-Dichloroethene	370		5.0		ug/L			04/11/14 04:10	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 04:10	5
Dichlorobromomethane	ND		2.5		ug/L			04/11/14 04:10	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/11/14 04:10	5
Ethyl ether	ND		5.0		ug/L			04/11/14 04:10	5
Ethylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Ethylene Dibromide	ND		5.0		ug/L			04/11/14 04:10	5
Hexachlorobutadiene	ND		2.0		ug/L			04/11/14 04:10	5
Isopropyl ether	ND		50		ug/L			04/11/14 04:10	5
Isopropylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/11/14 04:10	5
Methylene Chloride	ND		5.0		ug/L			04/11/14 04:10	5
m-Xylene & p-Xylene	ND		10		ug/L			04/11/14 04:10	5
Naphthalene	ND		25		ug/L			04/11/14 04:10	5
n-Butylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
N-Propylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
o-Xylene	ND		5.0		ug/L			04/11/14 04:10	5
sec-Butylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Styrene	ND		5.0		ug/L			04/11/14 04:10	5
Tert-amyl methyl ether	ND		25		ug/L			04/11/14 04:10	5
Tert-butyl ethyl ether	ND		25		ug/L			04/11/14 04:10	5
tert-Butylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Tetrachloroethene	ND		5.0		ug/L			04/11/14 04:10	5
Tetrahydrofuran	ND		50		ug/L			04/11/14 04:10	5
Toluene	170		5.0		ug/L			04/11/14 04:10	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/11/14 04:10	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 04:10	5
Trichloroethene	50		5.0		ug/L			04/11/14 04:10	5
Trichlorofluoromethane	ND		5.0		ug/L			04/11/14 04:10	5
Vinyl chloride	19		5.0		ug/L			04/11/14 04:10	5
Dibromomethane	ND		5.0		ug/L			04/11/14 04:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 04:10	5
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 04:10	5
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 04:10	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-7-20140406-01

Lab Sample ID: 480-57495-28

Date Collected: 04/06/14 09:35

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1,1-Trichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/11/14 04:36	10
1,1,2-Trichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1-Dichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1-Dichloroethene	ND		10		ug/L			04/11/14 04:36	10
1,1-Dichloropropene	ND		10		ug/L			04/11/14 04:36	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,2,3-Trichloropropane	ND		10		ug/L			04/11/14 04:36	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/11/14 04:36	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/11/14 04:36	10
1,2-Dichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,2-Dichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,2-Dichloropropane	ND		10		ug/L			04/11/14 04:36	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/11/14 04:36	10
1,3-Dichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,3-Dichloropropane	ND		10		ug/L			04/11/14 04:36	10
1,4-Dichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,4-Dioxane	ND *		500		ug/L			04/11/14 04:36	10
2,2-Dichloropropane	ND		10		ug/L			04/11/14 04:36	10
2-Butanone (MEK)	ND		100		ug/L			04/11/14 04:36	10
2-Chlorotoluene	ND		10		ug/L			04/11/14 04:36	10
2-Hexanone	ND *		100		ug/L			04/11/14 04:36	10
4-Chlorotoluene	ND		10		ug/L			04/11/14 04:36	10
4-Isopropyltoluene	ND		10		ug/L			04/11/14 04:36	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/11/14 04:36	10
Acetone	ND		500		ug/L			04/11/14 04:36	10
Benzene	ND		10		ug/L			04/11/14 04:36	10
Bromobenzene	ND		10		ug/L			04/11/14 04:36	10
Bromoform	ND		10		ug/L			04/11/14 04:36	10
Bromomethane	ND		20		ug/L			04/11/14 04:36	10
Carbon disulfide	ND		100		ug/L			04/11/14 04:36	10
Carbon tetrachloride	ND		10		ug/L			04/11/14 04:36	10
Chlorobenzene	ND		10		ug/L			04/11/14 04:36	10
Chlorobromomethane	ND		10		ug/L			04/11/14 04:36	10
Chlorodibromomethane	ND		5.0		ug/L			04/11/14 04:36	10
Chloroethane	ND		20		ug/L			04/11/14 04:36	10
Chloroform	ND		10		ug/L			04/11/14 04:36	10
Chloromethane	ND		20		ug/L			04/11/14 04:36	10
cis-1,2-Dichloroethene	660		10		ug/L			04/11/14 04:36	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 04:36	10
Dichlorobromomethane	ND		5.0		ug/L			04/11/14 04:36	10
Dichlorodifluoromethane	ND		10		ug/L			04/11/14 04:36	10
Ethyl ether	ND		10		ug/L			04/11/14 04:36	10
Ethylbenzene	ND		10		ug/L			04/11/14 04:36	10
Ethylene Dibromide	ND		10		ug/L			04/11/14 04:36	10
Hexachlorobutadiene	ND		4.0		ug/L			04/11/14 04:36	10
Isopropyl ether	ND		100		ug/L			04/11/14 04:36	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-7-20140406-01

Lab Sample ID: 480-57495-28

Date Collected: 04/06/14 09:35

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		10		ug/L			04/11/14 04:36	10
Methyl tert-butyl ether	ND		10		ug/L			04/11/14 04:36	10
Methylene Chloride	ND		10		ug/L			04/11/14 04:36	10
m-Xylene & p-Xylene	ND		20		ug/L			04/11/14 04:36	10
Naphthalene	ND		50		ug/L			04/11/14 04:36	10
n-Butylbenzene	ND		10		ug/L			04/11/14 04:36	10
N-Propylbenzene	ND		10		ug/L			04/11/14 04:36	10
o-Xylene	ND		10		ug/L			04/11/14 04:36	10
sec-Butylbenzene	ND		10		ug/L			04/11/14 04:36	10
Styrene	ND		10		ug/L			04/11/14 04:36	10
Tert-amyl methyl ether	ND		50		ug/L			04/11/14 04:36	10
Tert-butyl ethyl ether	ND		50		ug/L			04/11/14 04:36	10
tert-Butylbenzene	ND		10		ug/L			04/11/14 04:36	10
Tetrachloroethene	ND		10		ug/L			04/11/14 04:36	10
Tetrahydrofuran	ND		100		ug/L			04/11/14 04:36	10
Toluene	12		10		ug/L			04/11/14 04:36	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/11/14 04:36	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 04:36	10
Trichloroethene	65		10		ug/L			04/11/14 04:36	10
Trichlorofluoromethane	ND		10		ug/L			04/11/14 04:36	10
Vinyl chloride	99		10		ug/L			04/11/14 04:36	10
Dibromomethane	ND		10		ug/L			04/11/14 04:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/11/14 04:36	10
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/11/14 04:36	10
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 04:36	10

Client Sample ID: REW-8-20140406-01

Lab Sample ID: 480-57495-29

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 05:01	1
1,1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 05:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 05:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 05:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:01	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-8-20140406-01

Lab Sample ID: 480-57495-29

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,4-Dioxane	ND	*	50		ug/L			04/11/14 05:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
2-Butanone (MEK)	75		10		ug/L			04/11/14 05:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:01	1
2-Hexanone	ND	*	10		ug/L			04/11/14 05:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 05:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 05:01	1
Acetone	ND		50		ug/L			04/11/14 05:01	1
Benzene	ND		1.0		ug/L			04/11/14 05:01	1
Bromobenzene	ND		1.0		ug/L			04/11/14 05:01	1
Bromoform	ND		1.0		ug/L			04/11/14 05:01	1
Bromomethane	ND		2.0		ug/L			04/11/14 05:01	1
Carbon disulfide	ND		10		ug/L			04/11/14 05:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 05:01	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 05:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 05:01	1
Chloroethane	ND		2.0		ug/L			04/11/14 05:01	1
Chloroform	ND		1.0		ug/L			04/11/14 05:01	1
Chloromethane	ND		2.0		ug/L			04/11/14 05:01	1
cis-1,2-Dichloroethene	27		1.0		ug/L			04/11/14 05:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 05:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 05:01	1
Ethyl ether	ND		1.0		ug/L			04/11/14 05:01	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 05:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 05:01	1
Isopropyl ether	ND		10		ug/L			04/11/14 05:01	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 05:01	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 05:01	1
m-Xylene & p-Xylene	2.4		2.0		ug/L			04/11/14 05:01	1
Naphthalene	ND		5.0		ug/L			04/11/14 05:01	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
o-Xylene	ND		1.0		ug/L			04/11/14 05:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Styrene	ND		1.0		ug/L			04/11/14 05:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 05:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 05:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 05:01	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 05:01	1
Toluene	36		1.0		ug/L			04/11/14 05:01	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-8-20140406-01

Lab Sample ID: 480-57495-29

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 05:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:01	1
Trichloroethene	ND		1.0		ug/L			04/11/14 05:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 05:01	1
Vinyl chloride	36		1.0		ug/L			04/11/14 05:01	1
Dibromomethane	ND		1.0		ug/L			04/11/14 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/11/14 05:01	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130					04/11/14 05:01	1
4-Bromofluorobenzene (Surr)	102		70 - 130					04/11/14 05:01	1

Client Sample ID: REW-9-20140406-01

Lab Sample ID: 480-57495-30

Date Collected: 04/06/14 11:40

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 05:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 05:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 05:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 05:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,4-Dioxane	ND *		50		ug/L			04/11/14 05:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
2-Butanone (MEK)	54		10		ug/L			04/11/14 05:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:26	1
2-Hexanone	ND *		10		ug/L			04/11/14 05:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 05:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 05:26	1
Acetone	ND		50		ug/L			04/11/14 05:26	1
Benzene	ND		1.0		ug/L			04/11/14 05:26	1
Bromobenzene	ND		1.0		ug/L			04/11/14 05:26	1
Bromoform	ND		1.0		ug/L			04/11/14 05:26	1
Bromomethane	ND		2.0		ug/L			04/11/14 05:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-9-20140406-01

Lab Sample ID: 480-57495-30

Date Collected: 04/06/14 11:40

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/11/14 05:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 05:26	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 05:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 05:26	1
Chloroethane	ND		2.0		ug/L			04/11/14 05:26	1
Chloroform	ND		1.0		ug/L			04/11/14 05:26	1
Chloromethane	ND		2.0		ug/L			04/11/14 05:26	1
cis-1,2-Dichloroethene	80		1.0		ug/L			04/11/14 05:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 05:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 05:26	1
Ethyl ether	ND		1.0		ug/L			04/11/14 05:26	1
Ethylbenzene	1.3		1.0		ug/L			04/11/14 05:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 05:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 05:26	1
Isopropyl ether	ND		10		ug/L			04/11/14 05:26	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 05:26	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 05:26	1
m-Xylene & p-Xylene	4.8		2.0		ug/L			04/11/14 05:26	1
Naphthalene	ND		5.0		ug/L			04/11/14 05:26	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
o-Xylene	1.1		1.0		ug/L			04/11/14 05:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
Styrene	ND		1.0		ug/L			04/11/14 05:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 05:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 05:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 05:26	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 05:26	1
Toluene	84		1.0		ug/L			04/11/14 05:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 05:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:26	1
Trichloroethene	ND		1.0		ug/L			04/11/14 05:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 05:26	1
Vinyl chloride	26		1.0		ug/L			04/11/14 05:26	1
Dibromomethane	ND		1.0		ug/L			04/11/14 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 05:26	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/11/14 05:26	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/11/14 05:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-10-20140406-01

Lab Sample ID: 480-57495-31

Date Collected: 04/06/14 12:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 05:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 05:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 05:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,4-Dioxane	ND *		50		ug/L			04/11/14 05:51	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 05:51	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:51	1
2-Hexanone	ND *		10		ug/L			04/11/14 05:51	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:51	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 05:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 05:51	1
Acetone	ND		50		ug/L			04/11/14 05:51	1
Benzene	ND		1.0		ug/L			04/11/14 05:51	1
Bromobenzene	ND		1.0		ug/L			04/11/14 05:51	1
Bromoform	ND		1.0		ug/L			04/11/14 05:51	1
Bromomethane	ND		2.0		ug/L			04/11/14 05:51	1
Carbon disulfide	ND		10		ug/L			04/11/14 05:51	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 05:51	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 05:51	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 05:51	1
Chloroethane	ND		2.0		ug/L			04/11/14 05:51	1
Chloroform	ND		1.0		ug/L			04/11/14 05:51	1
Chloromethane	ND		2.0		ug/L			04/11/14 05:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:51	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 05:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 05:51	1
Ethyl ether	ND		1.0		ug/L			04/11/14 05:51	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 05:51	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 05:51	1
Isopropyl ether	ND		10		ug/L			04/11/14 05:51	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-10-20140406-01

Lab Sample ID: 480-57495-31

Date Collected: 04/06/14 12:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 05:51	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 05:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 05:51	1
Naphthalene	ND		5.0		ug/L			04/11/14 05:51	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
o-Xylene	ND		1.0		ug/L			04/11/14 05:51	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
Styrene	ND		1.0		ug/L			04/11/14 05:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 05:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 05:51	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 05:51	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 05:51	1
Toluene	ND		1.0		ug/L			04/11/14 05:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:51	1
Trichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 05:51	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 05:51	1
Dibromomethane	ND		1.0		ug/L			04/11/14 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/11/14 05:51	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		04/11/14 05:51	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/11/14 05:51	1

Client Sample ID: REW-11-20140406-01

Lab Sample ID: 480-57495-32

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1,1,1-Trichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1,1,2-Tetrachloroethane	ND		13		ug/L			04/11/14 06:16	25
1,1,2-Trichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1-Dichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1-Dichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1-Dichloropropene	ND		25		ug/L			04/11/14 06:16	25
1,2,3-Trichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,2,3-Trichloropropane	ND		25		ug/L			04/11/14 06:16	25
1,2,4-Trichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,2,4-Trimethylbenzene	ND		25		ug/L			04/11/14 06:16	25
1,2-Dibromo-3-Chloropropane	ND		130		ug/L			04/11/14 06:16	25
1,2-Dichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,2-Dichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,2-Dichloropropane	ND		25		ug/L			04/11/14 06:16	25
1,3,5-Trimethylbenzene	ND		25		ug/L			04/11/14 06:16	25

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-11-20140406-01

Lab Sample ID: 480-57495-32

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,3-Dichloropropane	ND		25		ug/L			04/11/14 06:16	25
1,4-Dichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,4-Dioxane	ND	*	1300		ug/L			04/11/14 06:16	25
2,2-Dichloropropane	ND		25		ug/L			04/11/14 06:16	25
2-Butanone (MEK)	ND		250		ug/L			04/11/14 06:16	25
2-Chlorotoluene	ND		25		ug/L			04/11/14 06:16	25
2-Hexanone	ND	*	250		ug/L			04/11/14 06:16	25
4-Chlorotoluene	ND		25		ug/L			04/11/14 06:16	25
4-Isopropyltoluene	ND		25		ug/L			04/11/14 06:16	25
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			04/11/14 06:16	25
Acetone	ND		1300		ug/L			04/11/14 06:16	25
Benzene	ND		25		ug/L			04/11/14 06:16	25
Bromobenzene	ND		25		ug/L			04/11/14 06:16	25
Bromoform	ND		25		ug/L			04/11/14 06:16	25
Bromomethane	ND		50		ug/L			04/11/14 06:16	25
Carbon disulfide	ND		250		ug/L			04/11/14 06:16	25
Carbon tetrachloride	ND		25		ug/L			04/11/14 06:16	25
Chlorobenzene	ND		25		ug/L			04/11/14 06:16	25
Chlorobromomethane	ND		25		ug/L			04/11/14 06:16	25
Chlorodibromomethane	ND		13		ug/L			04/11/14 06:16	25
Chloroethane	ND		50		ug/L			04/11/14 06:16	25
Chloroform	ND		25		ug/L			04/11/14 06:16	25
Chloromethane	ND		50		ug/L			04/11/14 06:16	25
cis-1,2-Dichloroethene	1800		25		ug/L			04/11/14 06:16	25
cis-1,3-Dichloropropene	ND		10		ug/L			04/11/14 06:16	25
Dichlorobromomethane	ND		13		ug/L			04/11/14 06:16	25
Dichlorodifluoromethane	ND		25		ug/L			04/11/14 06:16	25
Ethyl ether	ND		25		ug/L			04/11/14 06:16	25
Ethylbenzene	ND		25		ug/L			04/11/14 06:16	25
Ethylene Dibromide	ND		25		ug/L			04/11/14 06:16	25
Hexachlorobutadiene	ND		10		ug/L			04/11/14 06:16	25
Isopropyl ether	ND		250		ug/L			04/11/14 06:16	25
Isopropylbenzene	ND		25		ug/L			04/11/14 06:16	25
Methyl tert-butyl ether	ND		25		ug/L			04/11/14 06:16	25
Methylene Chloride	ND		25		ug/L			04/11/14 06:16	25
m-Xylene & p-Xylene	ND		50		ug/L			04/11/14 06:16	25
Naphthalene	ND		130		ug/L			04/11/14 06:16	25
n-Butylbenzene	ND		25		ug/L			04/11/14 06:16	25
N-Propylbenzene	ND		25		ug/L			04/11/14 06:16	25
o-Xylene	ND		25		ug/L			04/11/14 06:16	25
sec-Butylbenzene	ND		25		ug/L			04/11/14 06:16	25
Styrene	ND		25		ug/L			04/11/14 06:16	25
Tert-amyl methyl ether	ND		130		ug/L			04/11/14 06:16	25
Tert-butyl ethyl ether	ND		130		ug/L			04/11/14 06:16	25
tert-Butylbenzene	ND		25		ug/L			04/11/14 06:16	25
Tetrachloroethene	ND		25		ug/L			04/11/14 06:16	25
Tetrahydrofuran	ND		250		ug/L			04/11/14 06:16	25
Toluene	ND		25		ug/L			04/11/14 06:16	25

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-11-20140406-01

Lab Sample ID: 480-57495-32

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		25		ug/L			04/11/14 06:16	25
trans-1,3-Dichloropropene	ND		10		ug/L			04/11/14 06:16	25
Trichloroethene	460		25		ug/L			04/11/14 06:16	25
Trichlorofluoromethane	ND		25		ug/L			04/11/14 06:16	25
Vinyl chloride	120		25		ug/L			04/11/14 06:16	25
Dibromomethane	ND		25		ug/L			04/11/14 06:16	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/11/14 06:16	25
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					04/11/14 06:16	25
4-Bromofluorobenzene (Surr)	100		70 - 130					04/11/14 06:16	25

Client Sample ID: REW-12-20140406-01

Lab Sample ID: 480-57495-33

Date Collected: 04/06/14 13:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/11/14 06:42	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,1-Dichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,1-Dichloroethene	ND		4.0		ug/L			04/11/14 06:42	4
1,1-Dichloropropene	ND		4.0		ug/L			04/11/14 06:42	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/11/14 06:42	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2-Dichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,2-Dichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,3-Dichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,4-Dioxane	ND *		200		ug/L			04/11/14 06:42	4
2,2-Dichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
2-Butanone (MEK)	ND		40		ug/L			04/11/14 06:42	4
2-Chlorotoluene	ND		4.0		ug/L			04/11/14 06:42	4
2-Hexanone	ND *		40		ug/L			04/11/14 06:42	4
4-Chlorotoluene	ND		4.0		ug/L			04/11/14 06:42	4
4-Isopropyltoluene	ND		4.0		ug/L			04/11/14 06:42	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/11/14 06:42	4
Acetone	ND		200		ug/L			04/11/14 06:42	4
Benzene	ND		4.0		ug/L			04/11/14 06:42	4
Bromobenzene	ND		4.0		ug/L			04/11/14 06:42	4
Bromoform	ND		4.0		ug/L			04/11/14 06:42	4
Bromomethane	ND		8.0		ug/L			04/11/14 06:42	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-12-20140406-01

Lab Sample ID: 480-57495-33

Date Collected: 04/06/14 13:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		40		ug/L			04/11/14 06:42	4
Carbon tetrachloride	ND		4.0		ug/L			04/11/14 06:42	4
Chlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
Chlorobromomethane	ND		4.0		ug/L			04/11/14 06:42	4
Chlorodibromomethane	ND		2.0		ug/L			04/11/14 06:42	4
Chloroethane	ND		8.0		ug/L			04/11/14 06:42	4
Chloroform	ND		4.0		ug/L			04/11/14 06:42	4
Chloromethane	ND		8.0		ug/L			04/11/14 06:42	4
cis-1,2-Dichloroethene	310		4.0		ug/L			04/11/14 06:42	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 06:42	4
Dichlorobromomethane	ND		2.0		ug/L			04/11/14 06:42	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/11/14 06:42	4
Ethyl ether	ND		4.0		ug/L			04/11/14 06:42	4
Ethylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Ethylene Dibromide	ND		4.0		ug/L			04/11/14 06:42	4
Hexachlorobutadiene	ND		1.6		ug/L			04/11/14 06:42	4
Isopropyl ether	ND		40		ug/L			04/11/14 06:42	4
Isopropylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/11/14 06:42	4
Methylene Chloride	ND		4.0		ug/L			04/11/14 06:42	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/11/14 06:42	4
Naphthalene	ND		20		ug/L			04/11/14 06:42	4
n-Butylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
N-Propylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
o-Xylene	ND		4.0		ug/L			04/11/14 06:42	4
sec-Butylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Styrene	ND		4.0		ug/L			04/11/14 06:42	4
Tert-amyl methyl ether	ND		20		ug/L			04/11/14 06:42	4
Tert-butyl ethyl ether	ND		20		ug/L			04/11/14 06:42	4
tert-Butylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Tetrachloroethene	ND		4.0		ug/L			04/11/14 06:42	4
Tetrahydrofuran	ND		40		ug/L			04/11/14 06:42	4
Toluene	28		4.0		ug/L			04/11/14 06:42	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/11/14 06:42	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 06:42	4
Trichloroethene	50		4.0		ug/L			04/11/14 06:42	4
Trichlorofluoromethane	ND		4.0		ug/L			04/11/14 06:42	4
Vinyl chloride	55		4.0		ug/L			04/11/14 06:42	4
Dibromomethane	ND		4.0		ug/L			04/11/14 06:42	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 06:42	4
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/11/14 06:42	4
4-Bromofluorobenzene (Surr)	97		70 - 130		04/11/14 06:42	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DupX1-20140405-01

Lab Sample ID: 480-57495-34

Date Collected: 04/05/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 07:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 07:06	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 07:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 07:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,4-Dioxane	ND *		50		ug/L			04/11/14 07:06	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 07:06	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:06	1
2-Hexanone	ND *		10		ug/L			04/11/14 07:06	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:06	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 07:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 07:06	1
Acetone	ND		50		ug/L			04/11/14 07:06	1
Benzene	ND		1.0		ug/L			04/11/14 07:06	1
Bromobenzene	ND		1.0		ug/L			04/11/14 07:06	1
Bromoform	ND		1.0		ug/L			04/11/14 07:06	1
Bromomethane	ND		2.0		ug/L			04/11/14 07:06	1
Carbon disulfide	ND		10		ug/L			04/11/14 07:06	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 07:06	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 07:06	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 07:06	1
Chloroethane	ND		2.0		ug/L			04/11/14 07:06	1
Chloroform	ND		1.0		ug/L			04/11/14 07:06	1
Chloromethane	ND		2.0		ug/L			04/11/14 07:06	1
cis-1,2-Dichloroethene	58		1.0		ug/L			04/11/14 07:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:06	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 07:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 07:06	1
Ethyl ether	ND		1.0		ug/L			04/11/14 07:06	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 07:06	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 07:06	1
Isopropyl ether	ND		10		ug/L			04/11/14 07:06	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DupX1-20140405-01

Lab Sample ID: 480-57495-34

Date Collected: 04/05/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 07:06	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 07:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 07:06	1
Naphthalene	ND		5.0		ug/L			04/11/14 07:06	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
o-Xylene	ND		1.0		ug/L			04/11/14 07:06	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
Styrene	ND		1.0		ug/L			04/11/14 07:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 07:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 07:06	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
Tetrachloroethene	10		1.0		ug/L			04/11/14 07:06	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 07:06	1
Toluene	ND		1.0		ug/L			04/11/14 07:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 07:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:06	1
Trichloroethene	37		1.0		ug/L			04/11/14 07:06	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 07:06	1
Vinyl chloride	43		1.0		ug/L			04/11/14 07:06	1
Dibromomethane	ND		1.0		ug/L			04/11/14 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 07:06	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 07:06	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 07:06	1

Client Sample ID: DupX2-20140406-01

Lab Sample ID: 480-57495-35

Date Collected: 04/06/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 07:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 07:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 07:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 07:31	1
1,1-Dichloroethane	5.5		1.0		ug/L			04/11/14 07:31	1
1,1-Dichloroethene	2.5		1.0		ug/L			04/11/14 07:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 07:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 07:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 07:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:31	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DupX2-20140406-01

Lab Sample ID: 480-57495-35

Date Collected: 04/06/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,4-Dioxane	ND	*	50		ug/L			04/11/14 07:31	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 07:31	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:31	1
2-Hexanone	ND	*	10		ug/L			04/11/14 07:31	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 07:31	1
Acetone	ND		50		ug/L			04/11/14 07:31	1
Benzene	1.5		1.0		ug/L			04/11/14 07:31	1
Bromobenzene	ND		1.0		ug/L			04/11/14 07:31	1
Bromoform	ND		1.0		ug/L			04/11/14 07:31	1
Bromomethane	ND		2.0		ug/L			04/11/14 07:31	1
Carbon disulfide	ND		10		ug/L			04/11/14 07:31	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 07:31	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 07:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 07:31	1
Chloroethane	ND		2.0		ug/L			04/11/14 07:31	1
Chloroform	ND		1.0		ug/L			04/11/14 07:31	1
Chloromethane	ND		2.0		ug/L			04/11/14 07:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 07:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 07:31	1
Ethyl ether	ND		1.0		ug/L			04/11/14 07:31	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 07:31	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 07:31	1
Isopropyl ether	ND		10		ug/L			04/11/14 07:31	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 07:31	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 07:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 07:31	1
Naphthalene	ND		5.0		ug/L			04/11/14 07:31	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
o-Xylene	1.1		1.0		ug/L			04/11/14 07:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
Styrene	ND		1.0		ug/L			04/11/14 07:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 07:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 07:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
Tetrachloroethene	16		1.0		ug/L			04/11/14 07:31	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 07:31	1
Toluene	ND		1.0		ug/L			04/11/14 07:31	1
trans-1,2-Dichloroethene	3.3		1.0		ug/L			04/11/14 07:31	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DupX2-20140406-01

Lab Sample ID: 480-57495-35

Date Collected: 04/06/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 07:31	1
Dibromomethane	ND		1.0		ug/L			04/11/14 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/11/14 07:31	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					04/11/14 07:31	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/11/14 07:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1500		25		ug/L			04/11/14 17:58	25
Trichloroethene	390		25		ug/L			04/11/14 17:58	25
Vinyl chloride	97		25		ug/L			04/11/14 17:58	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/11/14 17:58	25
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/11/14 17:58	25
4-Bromofluorobenzene (Surr)	99		70 - 130					04/11/14 17:58	25

Client Sample ID: DupX3-20140408-01

Lab Sample ID: 480-57495-36

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 03:12	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	134		50 - 150					04/12/14 03:12	2
Dibromofluoromethane (Surr)	86		50 - 150					04/12/14 03:12	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 07:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 07:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 07:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 07:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DupX3-20140408-01

Lab Sample ID: 480-57495-36

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,4-Dioxane	ND	*	50		ug/L			04/11/14 07:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
2-Butanone (MEK)	160		10		ug/L			04/11/14 07:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:57	1
2-Hexanone	ND	*	10		ug/L			04/11/14 07:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 07:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 07:57	1
Benzene	ND		1.0		ug/L			04/11/14 07:57	1
Bromobenzene	ND		1.0		ug/L			04/11/14 07:57	1
Bromoform	ND		1.0		ug/L			04/11/14 07:57	1
Bromomethane	ND		2.0		ug/L			04/11/14 07:57	1
Carbon disulfide	ND		10		ug/L			04/11/14 07:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 07:57	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 07:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 07:57	1
Chloroethane	ND		2.0		ug/L			04/11/14 07:57	1
Chloroform	ND		1.0		ug/L			04/11/14 07:57	1
Chloromethane	ND		2.0		ug/L			04/11/14 07:57	1
cis-1,2-Dichloroethene	7.3		1.0		ug/L			04/11/14 07:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 07:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 07:57	1
Ethyl ether	ND		1.0		ug/L			04/11/14 07:57	1
Ethylbenzene	3.3		1.0		ug/L			04/11/14 07:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 07:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 07:57	1
Isopropyl ether	ND		10		ug/L			04/11/14 07:57	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 07:57	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 07:57	1
m-Xylene & p-Xylene	11		2.0		ug/L			04/11/14 07:57	1
Naphthalene	ND		5.0		ug/L			04/11/14 07:57	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
o-Xylene	2.1		1.0		ug/L			04/11/14 07:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
Styrene	ND		1.0		ug/L			04/11/14 07:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 07:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 07:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 07:57	1
Tetrahydrofuran	18		10		ug/L			04/11/14 07:57	1
Toluene	20		1.0		ug/L			04/11/14 07:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 07:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:57	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DupX3-20140408-01

Lab Sample ID: 480-57495-36

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.6		1.0		ug/L			04/11/14 07:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 07:57	1
Vinyl chloride	2.2		1.0		ug/L			04/11/14 07:57	1
Dibromomethane	ND		1.0		ug/L			04/11/14 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	96		70 - 130					04/11/14 07:57	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	95		70 - 130					04/11/14 07:57	1
<i>4-Bromofluorobenzene (Surr)</i>	104		70 - 130					04/11/14 07:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14000		2000		ug/L			04/14/14 00:11	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		70 - 130					04/14/14 00:11	40
<i>1,2-Dichloroethane-d4 (Surr)</i>	106		70 - 130					04/14/14 00:11	40
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130					04/14/14 00:11	40

Client Sample ID: Trip Blanks

Lab Sample ID: 480-57495-37

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 13:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 13:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 13:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,4-Dioxane	ND		50		ug/L			04/11/14 13:43	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 13:43	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 13:43	1
2-Hexanone	ND *		10		ug/L			04/11/14 13:43	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 13:43	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: Trip Blanks

Lab Sample ID: 480-57495-37

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 13:43	1
Acetone	ND		50		ug/L			04/11/14 13:43	1
Benzene	ND		1.0		ug/L			04/11/14 13:43	1
Bromobenzene	ND		1.0		ug/L			04/11/14 13:43	1
Bromoform	ND		1.0		ug/L			04/11/14 13:43	1
Bromomethane	ND		2.0		ug/L			04/11/14 13:43	1
Carbon disulfide	ND		10		ug/L			04/11/14 13:43	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 13:43	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 13:43	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 13:43	1
Chloroethane	ND		2.0		ug/L			04/11/14 13:43	1
Chloroform	ND		1.0		ug/L			04/11/14 13:43	1
Chloromethane	ND		2.0		ug/L			04/11/14 13:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 13:43	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 13:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 13:43	1
Ethyl ether	ND		1.0		ug/L			04/11/14 13:43	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 13:43	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 13:43	1
Isopropyl ether	ND		10		ug/L			04/11/14 13:43	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 13:43	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 13:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 13:43	1
Naphthalene	ND		5.0		ug/L			04/11/14 13:43	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
o-Xylene	ND		1.0		ug/L			04/11/14 13:43	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Styrene	ND		1.0		ug/L			04/11/14 13:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 13:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 13:43	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 13:43	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 13:43	1
Toluene	ND		1.0		ug/L			04/11/14 13:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 13:43	1
Trichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 13:43	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 13:43	1
Dibromomethane	ND		1.0		ug/L			04/11/14 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/11/14 13:43	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 13:43	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: Trip Blanks

Lab Sample ID: 480-57495-37

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	101		70 - 130		04/11/14 13:43	1

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

Surrogate Summary

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

TestAmerica Job ID: 480-57495-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BA-d9 (Surr) (50-150)	DBFM (50-150)
480-57495-3	MW-261S-20140408-01	144	85
480-57495-7	MW-265M-20140408-01	136	86
480-57495-9	MW-266Ma-20140405-01	120	92
480-57495-11	MW-267S-20140405-01	137	85
480-57495-12	MW-267M-20140405-01	118	86
480-57495-13	MW-268S-20140407	112	90
480-57495-14	MW-268M-20140407	80	83
480-57495-16	MW-269Ma-20140405	111	92
480-57495-18	MW-552-20140407-01	117	88
480-57495-36	DupX3-20140408-01	134	86
LCS 480-175364/4	Lab Control Sample	97	84
LCSD 480-175364/5	Lab Control Sample Dup	104	84
MB 480-175364/6	Method Blank	122	91

Surrogate Legend

TBA-d9 (Surr) = TBA-d9 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-57495-1	DEP-19M-20140405-01	98	103	98
480-57495-2	DEP-21-20140405-01	101	102	100
480-57495-3	MW-261S-20140408-01	101	101	97
480-57495-4	MW-263M-20140408-01	101	103	98
480-57495-5	MW-264M-20140408-01	98	103	96
480-57495-6	MW-265S-20140408-01	99	102	97
480-57495-7	MW-265M-20140408-01	100	97	99
480-57495-7 - DL	MW-265M-20140408-01	96	94	102
480-57495-8	MW-265D-20140408-01	95	97	98
480-57495-9	MW-266Ma-20140405-01	99	102	97
480-57495-10	MW-266Mb-20140405-01	98	103	95
480-57495-11	MW-267S-20140405-01	98	93	99
480-57495-12	MW-267M-20140405-01	95	94	98
480-57495-13	MW-268S-20140407	99	94	101
480-57495-14	MW-268M-20140407	98	94	99
480-57495-15	MW-268D-20140405	95	95	97
480-57495-16	MW-269Ma-20140405	96	96	99
480-57495-17	MW-551-20140408-01	96	96	100
480-57495-17 MS	MW-551-20140408-01	99	103	102
480-57495-17 MSD	MW-551-20140408-01	99	99	105
480-57495-18	MW-552-20140407-01	96	94	100
480-57495-19	MW-553-20140407-01	98	95	104
480-57495-20	MW-560-20140407-01	99	94	101
480-57495-20 - DL	MW-560-20140407-01	98	94	102
480-57495-21	MW-561-20140407-01	96	95	98

TestAmerica Buffalo

Surrogate Summary

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

TestAmerica Job ID: 480-57495-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-57495-22	MW-562-20140407-01	99	94	104
480-57495-22 - DL	MW-562-20140407-01	98	97	102
480-57495-23	MW-563-20140407-01	97	94	100
480-57495-24	REW-1-20140406-01	96	97	99
480-57495-25	REW-4-20140406-01	94	92	97
480-57495-26	REW-5-20140406-01	96	95	100
480-57495-27	REW-6-20140406-01	98	95	99
480-57495-28	REW-7-20140406-01	99	94	99
480-57495-29	REW-8-20140406-01	97	97	102
480-57495-30	REW-9-20140406-01	98	93	100
480-57495-31	REW-10-20140406-01	97	98	98
480-57495-32	REW-11-20140406-01	98	98	100
480-57495-33	REW-12-20140406-01	96	97	97
480-57495-33 MS	REW-12-20140406-01	100	103	101
480-57495-33 MSD	REW-12-20140406-01	97	95	102
480-57495-34	DupX1-20140405-01	98	95	99
480-57495-35	DupX2-20140406-01	101	93	100
480-57495-35 - DL	DupX2-20140406-01	97	95	99
480-57495-36	DupX3-20140408-01	96	95	104
480-57495-36 - DL	DupX3-20140408-01	99	106	96
480-57495-37	Trip Blanks	97	95	101
LCS 480-174684/6	Lab Control Sample	100	102	102
LCS 480-174949/5	Lab Control Sample	100	105	104
LCS 480-175074/5	Lab Control Sample	99	106	103
LCS 480-175163/5	Lab Control Sample	101	103	103
LCS 480-175485/6	Lab Control Sample	98	105	99
LCSD 480-174684/7	Lab Control Sample Dup	101	101	103
LCSD 480-174949/6	Lab Control Sample Dup	97	103	101
LCSD 480-175074/6	Lab Control Sample Dup	99	104	102
LCSD 480-175163/6	Lab Control Sample Dup	100	103	104
LCSD 480-175485/7	Lab Control Sample Dup	96	106	96
MB 480-174684/9	Method Blank	100	101	96
MB 480-174949/8	Method Blank	95	94	99
MB 480-175074/8	Method Blank	97	95	99
MB 480-175163/8	Method Blank	97	92	101
MB 480-175485/9	Method Blank	99	105	96

Surrogate Legend

- TOL = Toluene-d8 (Surr)
- 12DCE = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175364/6

Matrix: Water

Analysis Batch: 175364

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/11/14 23:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	122		50 - 150		04/11/14 23:06	1
Dibromofluoromethane (Surr)	91		50 - 150		04/11/14 23:06	1

Lab Sample ID: LCS 480-175364/4

Matrix: Water

Analysis Batch: 175364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	16.0	16.0		ug/L		100	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
TBA-d9 (Surr)	97		50 - 150
Dibromofluoromethane (Surr)	84		50 - 150

Lab Sample ID: LCSD 480-175364/5

Matrix: Water

Analysis Batch: 175364

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
1,4-Dioxane	16.0	17.0		ug/L		106	50 - 150	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
TBA-d9 (Surr)	104		50 - 150
Dibromofluoromethane (Surr)	84		50 - 150

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

Lab Sample ID: MB 480-174684/9

Matrix: Water

Analysis Batch: 174684

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			04/09/14 12:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 12:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 12:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 12:40	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-174684/9

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,4-Dioxane	ND		50		ug/L			04/09/14 12:40	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 12:40	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 12:40	1
2-Hexanone	ND		10		ug/L			04/09/14 12:40	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 12:40	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 12:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 12:40	1
Acetone	ND		50		ug/L			04/09/14 12:40	1
Benzene	ND		1.0		ug/L			04/09/14 12:40	1
Bromobenzene	ND		1.0		ug/L			04/09/14 12:40	1
Bromoform	ND		1.0		ug/L			04/09/14 12:40	1
Bromomethane	ND		2.0		ug/L			04/09/14 12:40	1
Carbon disulfide	ND		10		ug/L			04/09/14 12:40	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 12:40	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 12:40	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 12:40	1
Chloroethane	ND		2.0		ug/L			04/09/14 12:40	1
Chloroform	ND		1.0		ug/L			04/09/14 12:40	1
Chloromethane	ND		2.0		ug/L			04/09/14 12:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 12:40	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 12:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 12:40	1
Ethyl ether	ND		1.0		ug/L			04/09/14 12:40	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 12:40	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 12:40	1
Isopropyl ether	ND		10		ug/L			04/09/14 12:40	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 12:40	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 12:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 12:40	1
Naphthalene	ND		5.0		ug/L			04/09/14 12:40	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
o-Xylene	ND		1.0		ug/L			04/09/14 12:40	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Styrene	ND		1.0		ug/L			04/09/14 12:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 12:40	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-174684/9

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 12:40	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 12:40	1
Tetrahydrofuran	ND		10		ug/L			04/09/14 12:40	1
Toluene	ND		1.0		ug/L			04/09/14 12:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 12:40	1
Trichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 12:40	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 12:40	1
Dibromomethane	ND		1.0		ug/L			04/09/14 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/09/14 12:40	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/09/14 12:40	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/09/14 12:40	1

Lab Sample ID: LCS 480-174684/6

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.9		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130
1,1-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,2,3-Trichloropropene	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.6		ug/L		106	70 - 130
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130
1,2-Dichloropropane	25.0	26.6		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,4-Dioxane	500	510		ug/L		102	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
2-Butanone (MEK)	125	138		ug/L		111	70 - 130
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
2-Hexanone	125	133		ug/L		107	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-174684/6

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130
Acetone	125	129		ug/L		103	70 - 130
Benzene	25.0	26.3		ug/L		105	70 - 130
Bromobenzene	25.0	25.8		ug/L		103	70 - 130
Bromoform	25.0	24.0		ug/L		96	70 - 130
Bromomethane	25.0	26.8		ug/L		107	70 - 130
Carbon disulfide	25.0	25.7		ug/L		103	70 - 130
Carbon tetrachloride	25.0	27.0		ug/L		108	70 - 130
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chlorobromomethane	25.0	26.1		ug/L		104	70 - 130
Chlorodibromomethane	24.5	26.2		ug/L		107	70 - 130
Chloroethane	25.0	26.3		ug/L		105	70 - 130
Chloroform	25.0	25.9		ug/L		104	70 - 130
Chloromethane	25.0	25.1		ug/L		100	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	70 - 130
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	27.1		ug/L		108	70 - 130
Ethyl ether	25.0	26.6		ug/L		106	70 - 130
Ethylbenzene	25.0	25.9		ug/L		104	70 - 130
Ethylene Dibromide	25.0	26.1		ug/L		105	70 - 130
Hexachlorobutadiene	25.0	28.6		ug/L		114	70 - 130
Isopropyl ether	25.0	26.0		ug/L		104	70 - 130
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 130
Methyl tert-butyl ether	25.0	25.6		ug/L		102	70 - 130
Methylene Chloride	25.0	25.7		ug/L		103	70 - 130
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130
Naphthalene	25.0	27.5		ug/L		110	70 - 130
n-Butylbenzene	25.0	27.1		ug/L		108	70 - 130
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130
o-Xylene	25.0	25.8		ug/L		103	70 - 130
sec-Butylbenzene	25.0	26.5		ug/L		106	70 - 130
Styrene	25.0	26.3		ug/L		105	70 - 130
Tert-amyl methyl ether	25.0	25.9		ug/L		104	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		101	70 - 130
tert-Butylbenzene	25.0	25.6		ug/L		103	70 - 130
Tetrachloroethene	25.0	29.5		ug/L		118	70 - 130
Tetrahydrofuran	50.0	67.3 *		ug/L		135	70 - 130
Toluene	25.0	25.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	25.9		ug/L		103	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	26.1		ug/L		105	70 - 130
Trichlorofluoromethane	25.0	27.3		ug/L		109	70 - 130
Vinyl chloride	25.0	24.7		ug/L		99	70 - 130
Dibromomethane	25.0	26.4		ug/L		105	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-174684/6

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 480-174684/7

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130	2	20	
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	4	20	
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130	2	20	
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	70 - 130	1	20	
1,1-Dichloroethane	25.0	25.4		ug/L		102	70 - 130	2	20	
1,1-Dichloroethene	25.0	27.2		ug/L		109	70 - 130	3	20	
1,1-Dichloropropene	25.0	25.6		ug/L		103	70 - 130	3	20	
1,2,3-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130	1	20	
1,2,3-Trichloropropane	25.0	26.6		ug/L		106	70 - 130	3	20	
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	1	20	
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130	2	20	
1,2-Dibromo-3-Chloropropane	25.0	25.1		ug/L		101	70 - 130	5	20	
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130	1	20	
1,2-Dichloroethane	25.0	26.0		ug/L		104	70 - 130	1	20	
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	3	20	
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	1	20	
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	2	20	
1,3-Dichloropropane	25.0	26.0		ug/L		104	70 - 130	1	20	
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	1	20	
1,4-Dioxane	500	514		ug/L		103	70 - 130	1	20	
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	5	20	
2-Butanone (MEK)	125	141		ug/L		113	70 - 130	2	20	
2-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130	3	20	
2-Hexanone	125	131		ug/L		105	70 - 130	1	20	
4-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130	2	20	
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	2	20	
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		104	70 - 130	0	20	
Acetone	125	125		ug/L		100	70 - 130	3	20	
Benzene	25.0	25.5		ug/L		102	70 - 130	3	20	
Bromobenzene	25.0	25.5		ug/L		102	70 - 130	1	20	
Bromoform	25.0	23.8		ug/L		95	70 - 130	1	20	
Bromomethane	25.0	26.0		ug/L		104	70 - 130	3	20	
Carbon disulfide	25.0	24.8		ug/L		99	70 - 130	4	20	
Carbon tetrachloride	25.0	26.0		ug/L		104	70 - 130	4	20	
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20	
Chlorobromomethane	25.0	25.6		ug/L		102	70 - 130	2	20	
Chlorodibromomethane	24.5	25.9		ug/L		106	70 - 130	1	20	
Chloroethane	25.0	25.2		ug/L		101	70 - 130	4	20	
Chloroform	25.0	25.4		ug/L		101	70 - 130	2	20	
Chloromethane	25.0	24.6		ug/L		98	70 - 130	2	20	

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-174684/7

Matrix: Water

Analysis Batch: 174684

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		
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	4	20	
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 130	1	20	
Dichlorobromomethane	25.0	25.7		ug/L		103	70 - 130	3	20	
Dichlorodifluoromethane	25.0	25.5		ug/L		102	70 - 130	6	20	
Ethyl ether	25.0	25.9		ug/L		104	70 - 130	3	20	
Ethylbenzene	25.0	26.0		ug/L		104	70 - 130	0	20	
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130	1	20	
Hexachlorobutadiene	25.0	27.3		ug/L		109	70 - 130	4	20	
Isopropyl ether	25.0	25.2		ug/L		101	70 - 130	3	20	
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130	3	20	
Methyl tert-butyl ether	25.0	25.1		ug/L		101	70 - 130	2	20	
Methylene Chloride	25.0	24.6		ug/L		98	70 - 130	5	20	
m-Xylene & p-Xylene	25.0	25.8		ug/L		103	70 - 130	1	20	
Naphthalene	25.0	27.2		ug/L		109	70 - 130	1	20	
n-Butylbenzene	25.0	26.4		ug/L		106	70 - 130	2	20	
N-Propylbenzene	25.0	25.6		ug/L		102	70 - 130	0	20	
o-Xylene	25.0	25.5		ug/L		102	70 - 130	1	20	
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	4	20	
Styrene	25.0	26.3		ug/L		105	70 - 130	0	20	
Tert-amyl methyl ether	25.0	25.4		ug/L		102	70 - 130	2	20	
Tert-butyl ethyl ether	25.0	25.2		ug/L		101	70 - 130	1	20	
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130	2	20	
Tetrachloroethene	25.0	29.9		ug/L		120	70 - 130	2	20	
Tetrahydrofuran	50.0	64.6		ug/L		129	70 - 130	4	20	
Toluene	25.0	25.6		ug/L		102	70 - 130	0	20	
trans-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	4	20	
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	0	20	
Trichloroethene	25.0	25.4		ug/L		101	70 - 130	3	20	
Trichlorofluoromethane	25.0	25.7		ug/L		103	70 - 130	6	20	
Vinyl chloride	25.0	24.1		ug/L		96	70 - 130	3	20	
Dibromomethane	25.0	26.2		ug/L		105	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 480-174949/8

Matrix: Water

Analysis Batch: 174949

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		04/10/14 13:25	1	
1,1,1-Trichloroethane	ND		1.0		ug/L		04/10/14 13:25	1	
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L		04/10/14 13:25	1	
1,1,2-Trichloroethane	ND		1.0		ug/L		04/10/14 13:25	1	
1,1-Dichloroethane	ND		1.0		ug/L		04/10/14 13:25	1	
1,1-Dichloroethene	ND		1.0		ug/L		04/10/14 13:25	1	

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-174949/8

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 13:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 13:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 13:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,4-Dioxane	ND		50		ug/L			04/10/14 13:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
2-Butanone (MEK)	ND		10		ug/L			04/10/14 13:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 13:25	1
2-Hexanone	ND		10		ug/L			04/10/14 13:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 13:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 13:25	1
Acetone	ND		50		ug/L			04/10/14 13:25	1
Benzene	ND		1.0		ug/L			04/10/14 13:25	1
Bromobenzene	ND		1.0		ug/L			04/10/14 13:25	1
Bromoform	ND		1.0		ug/L			04/10/14 13:25	1
Bromomethane	ND		2.0		ug/L			04/10/14 13:25	1
Carbon disulfide	ND		10		ug/L			04/10/14 13:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 13:25	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 13:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 13:25	1
Chloroethane	ND		2.0		ug/L			04/10/14 13:25	1
Chloroform	ND		1.0		ug/L			04/10/14 13:25	1
Chloromethane	ND		2.0		ug/L			04/10/14 13:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 13:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 13:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 13:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 13:25	1
Ethyl ether	ND		1.0		ug/L			04/10/14 13:25	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 13:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 13:25	1
Isopropyl ether	ND		10		ug/L			04/10/14 13:25	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 13:25	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 13:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 13:25	1
Naphthalene	ND		5.0		ug/L			04/10/14 13:25	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-174949/8

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
o-Xylene	ND		1.0		ug/L			04/10/14 13:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Styrene	ND		1.0		ug/L			04/10/14 13:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 13:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 13:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 13:25	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 13:25	1
Toluene	ND		1.0		ug/L			04/10/14 13:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 13:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 13:25	1
Trichloroethene	ND		1.0		ug/L			04/10/14 13:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 13:25	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 13:25	1
Dibromomethane	ND		1.0		ug/L			04/10/14 13:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/10/14 13:25	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 13:25	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/10/14 13:25	1

Lab Sample ID: LCS 480-174949/5

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
1,1-Dichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	24.9		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.7		ug/L		107	70 - 130
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	22.9		ug/L		92	70 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,4-Dioxane	500	440		ug/L		88	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-174949/5

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
2-Butanone (MEK)	125	167	*	ug/L		134	70 - 130
2-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
2-Hexanone	125	190	*	ug/L		152	70 - 130
4-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130
4-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130
Acetone	125	108		ug/L		87	70 - 130
Benzene	25.0	24.6		ug/L		98	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	24.6		ug/L		99	70 - 130
Bromomethane	25.0	21.4		ug/L		86	70 - 130
Carbon disulfide	25.0	25.5		ug/L		102	70 - 130
Carbon tetrachloride	25.0	25.2		ug/L		101	70 - 130
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Chlorodibromomethane	24.5	26.7		ug/L		109	70 - 130
Chloroethane	25.0	22.5		ug/L		90	70 - 130
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	22.4		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
Dichlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	23.0		ug/L		92	70 - 130
Ethyl ether	25.0	24.9		ug/L		100	70 - 130
Ethylbenzene	25.0	25.6		ug/L		102	70 - 130
Ethylene Dibromide	25.0	25.4		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	28.5		ug/L		114	70 - 130
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	24.2		ug/L		97	70 - 130
Methylene Chloride	25.0	24.2		ug/L		97	70 - 130
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	70 - 130
Naphthalene	25.0	24.8		ug/L		99	70 - 130
n-Butylbenzene	25.0	26.1		ug/L		105	70 - 130
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130
o-Xylene	25.0	26.3		ug/L		105	70 - 130
sec-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
Styrene	25.0	26.1		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	23.0		ug/L		92	70 - 130
Tert-butyl ethyl ether	25.0	22.4		ug/L		90	70 - 130
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 130
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130
Tetrahydrofuran	50.0	49.8		ug/L		100	70 - 130
Toluene	25.0	26.1		ug/L		104	70 - 130
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 130
Trichloroethene	25.0	25.2		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-174949/5

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	21.3		ug/L		85	70 - 130
Vinyl chloride	25.0	21.9		ug/L		88	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 480-174949/6

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.1		ug/L		105	70 - 130	1	20
1,1,1-Trichloroethane	25.0	23.1		ug/L		93	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		101	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1-Dichloroethene	25.0	22.9		ug/L		92	70 - 130	5	20
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	5	20
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130	2	20
1,2,3-Trichloropropane	25.0	25.4		ug/L		101	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	0	20
1,2-Dichloroethane	25.0	22.6		ug/L		90	70 - 130	1	20
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		105	70 - 130	2	20
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	0	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
1,4-Dioxane	500	495		ug/L		99	70 - 130	12	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	3	20
2-Butanone (MEK)	125	161		ug/L		129	70 - 130	4	20
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130	1	20
2-Hexanone	125	186 *		ug/L		149	70 - 130	2	20
4-Chlorotoluene	25.0	27.6		ug/L		110	70 - 130	2	20
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	70 - 130	2	20
Acetone	125	106		ug/L		85	70 - 130	3	20
Benzene	25.0	23.6		ug/L		94	70 - 130	4	20
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	0	20
Bromoform	25.0	24.3		ug/L		97	70 - 130	2	20
Bromomethane	25.0	20.3		ug/L		81	70 - 130	5	20
Carbon disulfide	25.0	23.6		ug/L		94	70 - 130	8	20
Carbon tetrachloride	25.0	24.2		ug/L		97	70 - 130	4	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-174949/6

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Chlorobromomethane	25.0	24.6		ug/L		99	70 - 130	4	20
Chlorodibromomethane	24.5	26.3		ug/L		107	70 - 130	2	20
Chloroethane	25.0	21.4		ug/L		86	70 - 130	5	20
Chloroform	25.0	23.2		ug/L		93	70 - 130	2	20
Chloromethane	25.0	21.0		ug/L		84	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	2	20
Dichlorobromomethane	25.0	24.5		ug/L		98	70 - 130	2	20
Dichlorodifluoromethane	25.0	21.8		ug/L		87	70 - 130	5	20
Ethyl ether	25.0	24.2		ug/L		97	70 - 130	3	20
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	2	20
Hexachlorobutadiene	25.0	28.5		ug/L		114	70 - 130	0	20
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130	2	20
Isopropylbenzene	25.0	25.6		ug/L		102	70 - 130	1	20
Methyl tert-butyl ether	25.0	23.7		ug/L		95	70 - 130	2	20
Methylene Chloride	25.0	23.5		ug/L		94	70 - 130	3	20
m-Xylene & p-Xylene	25.0	25.6		ug/L		102	70 - 130	2	20
Naphthalene	25.0	25.9		ug/L		103	70 - 130	4	20
n-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	2	20
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130	1	20
o-Xylene	25.0	25.7		ug/L		103	70 - 130	3	20
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130	1	20
Styrene	25.0	25.6		ug/L		103	70 - 130	2	20
Tert-amyl methyl ether	25.0	22.8		ug/L		91	70 - 130	1	20
Tert-butyl ethyl ether	25.0	22.1		ug/L		88	70 - 130	2	20
tert-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	1	20
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130	1	20
Tetrahydrofuran	50.0	48.5		ug/L		97	70 - 130	3	20
Toluene	25.0	24.9		ug/L		100	70 - 130	5	20
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	26.4		ug/L		105	70 - 130	0	20
Trichloroethene	25.0	24.8		ug/L		99	70 - 130	2	20
Trichlorofluoromethane	25.0	20.0		ug/L		80	70 - 130	6	20
Vinyl chloride	25.0	20.5		ug/L		82	70 - 130	6	20
Dibromomethane	25.0	22.9		ug/L		91	70 - 130	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175074/8

Matrix: Water

Analysis Batch: 175074

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			04/11/14 01:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 01:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 01:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 01:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,4-Dioxane	ND		50		ug/L			04/11/14 01:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 01:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 01:02	1
2-Hexanone	ND		10		ug/L			04/11/14 01:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 01:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 01:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 01:02	1
Acetone	ND		50		ug/L			04/11/14 01:02	1
Benzene	ND		1.0		ug/L			04/11/14 01:02	1
Bromobenzene	ND		1.0		ug/L			04/11/14 01:02	1
Bromoform	ND		1.0		ug/L			04/11/14 01:02	1
Bromomethane	ND		2.0		ug/L			04/11/14 01:02	1
Carbon disulfide	ND		10		ug/L			04/11/14 01:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 01:02	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 01:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 01:02	1
Chloroethane	ND		2.0		ug/L			04/11/14 01:02	1
Chloroform	ND		1.0		ug/L			04/11/14 01:02	1
Chloromethane	ND		2.0		ug/L			04/11/14 01:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 01:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 01:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 01:02	1
Ethyl ether	ND		1.0		ug/L			04/11/14 01:02	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 01:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 01:02	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175074/8

Matrix: Water

Analysis Batch: 175074

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/11/14 01:02	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 01:02	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 01:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 01:02	1
Naphthalene	ND		5.0		ug/L			04/11/14 01:02	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
o-Xylene	ND		1.0		ug/L			04/11/14 01:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Styrene	ND		1.0		ug/L			04/11/14 01:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 01:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 01:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 01:02	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 01:02	1
Toluene	ND		1.0		ug/L			04/11/14 01:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 01:02	1
Trichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 01:02	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 01:02	1
Dibromomethane	ND		1.0		ug/L			04/11/14 01:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	97		70 - 130		04/11/14 01:02	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 01:02	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 01:02	1

Lab Sample ID: LCS 480-175074/5

Matrix: Water

Analysis Batch: 175074

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	70 - 130
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	21.9		ug/L		88	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175074/5

Matrix: Water

Analysis Batch: 175074

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.1		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,4-Dioxane	500	360		ug/L		72	70 - 130
2,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
2-Butanone (MEK)	125	127		ug/L		102	70 - 130
2-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
2-Hexanone	125	177 *		ug/L		142	70 - 130
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	25.7		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	70 - 130
Acetone	125	99.6		ug/L		80	70 - 130
Benzene	25.0	23.6		ug/L		94	70 - 130
Bromobenzene	25.0	24.4		ug/L		98	70 - 130
Bromoform	25.0	23.2		ug/L		93	70 - 130
Bromomethane	25.0	20.9		ug/L		84	70 - 130
Carbon disulfide	25.0	24.1		ug/L		96	70 - 130
Carbon tetrachloride	25.0	24.1		ug/L		97	70 - 130
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130
Chlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Chlorodibromomethane	24.5	25.1		ug/L		103	70 - 130
Chloroethane	25.0	22.4		ug/L		89	70 - 130
Chloroform	25.0	22.9		ug/L		92	70 - 130
Chloromethane	25.0	21.8		ug/L		87	70 - 130
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
Dichlorobromomethane	25.0	23.7		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130
Ethyl ether	25.0	23.9		ug/L		96	70 - 130
Ethylbenzene	25.0	24.1		ug/L		96	70 - 130
Ethylene Dibromide	25.0	24.1		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		108	70 - 130
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	23.0		ug/L		92	70 - 130
Methylene Chloride	25.0	23.4		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	25.1		ug/L		100	70 - 130
Naphthalene	25.0	23.5		ug/L		94	70 - 130
n-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
N-Propylbenzene	25.0	24.3		ug/L		97	70 - 130
o-Xylene	25.0	24.7		ug/L		99	70 - 130
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Styrene	25.0	24.7		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	22.8		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	22.2		ug/L		89	70 - 130
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175074/5

Matrix: Water

Analysis Batch: 175074

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 130	
Tetrahydrofuran	50.0	47.2		ug/L		94	70 - 130	
Toluene	25.0	24.5		ug/L		98	70 - 130	
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130	
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 130	
Trichloroethene	25.0	24.7		ug/L		99	70 - 130	
Trichlorofluoromethane	25.0	20.9		ug/L		84	70 - 130	
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130	
Dibromomethane	25.0	22.8		ug/L		91	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-175074/6

Matrix: Water

Analysis Batch: 175074

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130	0	20	
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	1	20	
1,1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130	0	20	
1,1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130	1	20	
1,1-Dichloroethane	25.0	23.5		ug/L		94	70 - 130	2	20	
1,1-Dichloroethene	25.0	22.4		ug/L		90	70 - 130	2	20	
1,1-Dichloropropene	25.0	23.3		ug/L		93	70 - 130	1	20	
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	2	20	
1,2,3-Trichloropropane	25.0	24.1		ug/L		96	70 - 130	2	20	
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130	1	20	
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130	3	20	
1,2-Dibromo-3-Chloropropane	25.0	25.4		ug/L		102	70 - 130	4	20	
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20	
1,2-Dichloroethane	25.0	21.9		ug/L		88	70 - 130	0	20	
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	2	20	
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20	
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	2	20	
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20	
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	1	20	
1,4-Dioxane	500	462	*	ug/L		92	70 - 130	25	20	
2,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	3	20	
2-Butanone (MEK)	125	154		ug/L		123	70 - 130	19	20	
2-Chlorotoluene	25.0	24.9		ug/L		99	70 - 130	2	20	
2-Hexanone	125	181	*	ug/L		145	70 - 130	2	20	
4-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130	4	20	
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130	3	20	
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	70 - 130	2	20	
Acetone	125	103		ug/L		82	70 - 130	3	20	

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-175074/6

Matrix: Water

Analysis Batch: 175074

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Benzene	25.0	22.9		ug/L		92	70 - 130	3	20
Bromobenzene	25.0	24.1		ug/L		97	70 - 130	1	20
Bromoform	25.0	23.4		ug/L		94	70 - 130	1	20
Bromomethane	25.0	20.3		ug/L		81	70 - 130	3	20
Carbon disulfide	25.0	23.1		ug/L		92	70 - 130	4	20
Carbon tetrachloride	25.0	23.7		ug/L		95	70 - 130	2	20
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130	1	20
Chlorobromomethane	25.0	24.2		ug/L		97	70 - 130	1	20
Chlorodibromomethane	24.5	24.9		ug/L		102	70 - 130	1	20
Chloroethane	25.0	21.6		ug/L		86	70 - 130	4	20
Chloroform	25.0	22.5		ug/L		90	70 - 130	2	20
Chloromethane	25.0	21.3		ug/L		85	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 130	0	20
Dichlorobromomethane	25.0	23.5		ug/L		94	70 - 130	1	20
Dichlorodifluoromethane	25.0	22.1		ug/L		88	70 - 130	2	20
Ethyl ether	25.0	23.5		ug/L		94	70 - 130	2	20
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130	2	20
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130	2	20
Hexachlorobutadiene	25.0	26.5		ug/L		106	70 - 130	2	20
Isopropyl ether	25.0	22.7		ug/L		91	70 - 130	2	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	3	20
Methyl tert-butyl ether	25.0	23.4		ug/L		94	70 - 130	2	20
Methylene Chloride	25.0	22.7		ug/L		91	70 - 130	3	20
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 130	3	20
Naphthalene	25.0	24.4		ug/L		98	70 - 130	4	20
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130	5	20
N-Propylbenzene	25.0	23.5		ug/L		94	70 - 130	3	20
o-Xylene	25.0	24.6		ug/L		98	70 - 130	0	20
sec-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	3	20
Styrene	25.0	24.8		ug/L		99	70 - 130	0	20
Tert-amyl methyl ether	25.0	22.9		ug/L		91	70 - 130	0	20
Tert-butyl ethyl ether	25.0	22.3		ug/L		89	70 - 130	0	20
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	4	20
Tetrachloroethene	25.0	27.0		ug/L		108	70 - 130	2	20
Tetrahydrofuran	50.0	45.9		ug/L		92	70 - 130	3	20
Toluene	25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 130	0	20
Trichloroethene	25.0	24.1		ug/L		97	70 - 130	2	20
Trichlorofluoromethane	25.0	20.5		ug/L		82	70 - 130	2	20
Vinyl chloride	25.0	20.4		ug/L		81	70 - 130	4	20
Dibromomethane	25.0	22.6		ug/L		91	70 - 130	1	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-33 MS

Matrix: Water

Analysis Batch: 175074

Client Sample ID: REW-12-20140406-01

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		100	81.2		ug/L		81	70 - 130
1,1,1-Trichloroethane	ND		100	62.2	F1	ug/L		62	70 - 130
1,1,2,2-Tetrachloroethane	ND		100	92.0		ug/L		92	70 - 130
1,1,2-Trichloroethane	ND		100	86.2		ug/L		86	70 - 130
1,1-Dichloroethane	ND		100	70.1		ug/L		70	70 - 130
1,1-Dichloroethene	ND		100	59.6	F1	ug/L		60	70 - 130
1,1-Dichloropropene	ND		100	61.7	F1	ug/L		62	70 - 130
1,2,3-Trichlorobenzene	ND		100	80.9		ug/L		81	70 - 130
1,2,3-Trichloropropane	ND		100	92.3		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	ND		100	74.6		ug/L		75	70 - 130
1,2,4-Trimethylbenzene	ND		100	72.9		ug/L		73	70 - 130
1,2-Dibromo-3-Chloropropane	ND		100	98.1		ug/L		98	70 - 130
1,2-Dichlorobenzene	ND		100	78.0		ug/L		78	70 - 130
1,2-Dichloroethane	ND		100	74.7		ug/L		75	70 - 130
1,2-Dichloropropane	ND		100	75.6		ug/L		76	70 - 130
1,3,5-Trimethylbenzene	ND		100	69.4	F1	ug/L		69	70 - 130
1,3-Dichlorobenzene	ND		100	74.5		ug/L		74	70 - 130
1,3-Dichloropropane	ND		100	84.6		ug/L		85	70 - 130
1,4-Dichlorobenzene	ND		100	75.6		ug/L		76	70 - 130
1,4-Dioxane	ND *		2000	1520		ug/L		76	70 - 130
2,2-Dichloropropane	ND		100	55.3	F1	ug/L		55	70 - 130
2-Butanone (MEK)	ND		500	504		ug/L		101	70 - 130
2-Chlorotoluene	ND		100	72.9		ug/L		73	70 - 130
2-Hexanone	ND *		500	703	F1	ug/L		141	70 - 130
4-Chlorotoluene	ND		100	76.3		ug/L		76	70 - 130
4-Isopropyltoluene	ND		100	67.8	F1	ug/L		68	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		500	485		ug/L		97	70 - 130
Acetone	ND		500	422		ug/L		84	70 - 130
Benzene	ND		100	69.2	F1	ug/L		69	70 - 130
Bromobenzene	ND		100	75.8		ug/L		76	70 - 130
Bromoform	ND		100	84.4		ug/L		84	70 - 130
Bromomethane	ND		100	61.2	F1	ug/L		61	70 - 130
Carbon disulfide	ND		100	62.3	F1	ug/L		62	70 - 130
Carbon tetrachloride	ND		100	62.0	F1	ug/L		62	70 - 130
Chlorobenzene	ND		100	72.4		ug/L		72	70 - 130
Chlorobromomethane	ND		100	83.0		ug/L		83	70 - 130
Chlorodibromomethane	ND		98.0	85.8		ug/L		88	70 - 130
Chloroethane	ND		100	62.2	F1	ug/L		62	70 - 130
Chloroform	ND		100	69.4	F1	ug/L		69	70 - 130
Chloromethane	ND		100	61.7	F1	ug/L		62	70 - 130
cis-1,2-Dichloroethene	310		100	382		ug/L		76	70 - 130
cis-1,3-Dichloropropene	ND		100	72.2		ug/L		72	70 - 130
Dichlorobromomethane	ND		100	76.8		ug/L		77	70 - 130
Dichlorodifluoromethane	ND		100	50.8	F1	ug/L		51	70 - 130
Ethyl ether	ND		100	82.8		ug/L		83	70 - 130
Ethylbenzene	ND		100	66.6	F1	ug/L		67	70 - 130
Ethylene Dibromide	ND		100	86.9		ug/L		87	70 - 130
Hexachlorobutadiene	ND		100	72.5		ug/L		73	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-33 MS

Matrix: Water

Analysis Batch: 175074

Client Sample ID: REW-12-20140406-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Isopropyl ether	ND		100	72.8		ug/L		73	70 - 130
Isopropylbenzene	ND		100	65.0	F1	ug/L		65	70 - 130
Methyl tert-butyl ether	ND		100	84.3		ug/L		84	70 - 130
Methylene Chloride	ND		100	74.3		ug/L		74	70 - 130
m-Xylene & p-Xylene	ND		100	70.5		ug/L		71	70 - 130
Naphthalene	ND		100	85.8		ug/L		86	70 - 130
n-Butylbenzene	ND		100	65.6	F1	ug/L		66	70 - 130
N-Propylbenzene	ND		100	64.2	F1	ug/L		64	70 - 130
o-Xylene	ND		100	72.4		ug/L		72	70 - 130
sec-Butylbenzene	ND		100	65.1	F1	ug/L		65	70 - 130
Styrene	ND		100	74.7		ug/L		75	70 - 130
Tert-amyl methyl ether	ND		100	79.3		ug/L		79	70 - 130
Tert-butyl ethyl ether	ND		100	73.8		ug/L		74	70 - 130
tert-Butylbenzene	ND		100	66.5	F1	ug/L		67	70 - 130
Tetrachloroethene	ND		100	66.5	F1	ug/L		64	70 - 130
Tetrahydrofuran	ND		200	194		ug/L		97	70 - 130
Toluene	28		100	98.6		ug/L		71	70 - 130
trans-1,2-Dichloroethene	ND		100	68.1	F1	ug/L		68	70 - 130
trans-1,3-Dichloropropene	ND		100	80.6		ug/L		81	70 - 130
Trichloroethene	50		100	118	F1	ug/L		68	70 - 130
Trichlorofluoromethane	ND		100	51.8	F1	ug/L		52	70 - 130
Vinyl chloride	55		100	108	F1	ug/L		52	70 - 130
Dibromomethane	ND		100	80.5		ug/L		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 480-57495-33 MSD

Matrix: Water

Analysis Batch: 175074

Client Sample ID: REW-12-20140406-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		100	84.0		ug/L		84	70 - 130	3	20
1,1,1-Trichloroethane	ND		100	66.7	F1	ug/L		67	70 - 130	7	20
1,1,1,2-Tetrachloroethane	ND		100	92.8		ug/L		93	70 - 130	1	20
1,1,2-Trichloroethane	ND		100	87.1		ug/L		87	70 - 130	1	20
1,1-Dichloroethane	ND		100	74.1		ug/L		74	70 - 130	6	20
1,1-Dichloroethene	ND		100	64.6	F1	ug/L		65	70 - 130	8	20
1,1-Dichloropropene	ND		100	68.2	F1	ug/L		68	70 - 130	10	20
1,2,3-Trichlorobenzene	ND		100	87.2		ug/L		87	70 - 130	7	20
1,2,3-Trichloropropane	ND		100	93.7		ug/L		94	70 - 130	2	20
1,2,4-Trichlorobenzene	ND		100	80.6		ug/L		81	70 - 130	8	20
1,2,4-Trimethylbenzene	ND		100	78.0		ug/L		78	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	ND		100	98.6		ug/L		99	70 - 130	1	20
1,2-Dichlorobenzene	ND		100	81.8		ug/L		82	70 - 130	5	20
1,2-Dichloroethane	ND		100	76.6		ug/L		77	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-33 MSD

Client Sample ID: REW-12-20140406-01

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 175074

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2-Dichloropropane	ND		100	80.4		ug/L		80	70 - 130	6	20
1,3,5-Trimethylbenzene	ND		100	74.6		ug/L		75	70 - 130	7	20
1,3-Dichlorobenzene	ND		100	79.7		ug/L		80	70 - 130	7	20
1,3-Dichloropropane	ND		100	87.7		ug/L		88	70 - 130	4	20
1,4-Dichlorobenzene	ND		100	80.2		ug/L		80	70 - 130	6	20
1,4-Dioxane	ND *		2000	1810		ug/L		90	70 - 130	18	20
2,2-Dichloropropane	ND		100	58.6	F1	ug/L		59	70 - 130	6	20
2-Butanone (MEK)	ND		500	512		ug/L		102	70 - 130	1	20
2-Chlorotoluene	ND		100	77.5		ug/L		77	70 - 130	6	20
2-Hexanone	ND *		500	699	F1	ug/L		140	70 - 130	1	20
4-Chlorotoluene	ND		100	81.9		ug/L		82	70 - 130	7	20
4-Isopropyltoluene	ND		100	74.4		ug/L		74	70 - 130	9	20
4-Methyl-2-pentanone (MIBK)	ND		500	478		ug/L		96	70 - 130	1	20
Acetone	ND		500	390		ug/L		78	70 - 130	8	20
Benzene	ND		100	73.0		ug/L		73	70 - 130	5	20
Bromobenzene	ND		100	82.2		ug/L		82	70 - 130	8	20
Bromoform	ND		100	88.1		ug/L		88	70 - 130	4	20
Bromomethane	ND		100	66.2	F1	ug/L		66	70 - 130	8	20
Carbon disulfide	ND		100	68.7	F1	ug/L		69	70 - 130	10	20
Carbon tetrachloride	ND		100	68.2	F1	ug/L		68	70 - 130	10	20
Chlorobenzene	ND		100	78.0		ug/L		78	70 - 130	8	20
Chlorobromomethane	ND		100	84.6		ug/L		85	70 - 130	2	20
Chlorodibromomethane	ND		98.0	88.8		ug/L		91	70 - 130	3	20
Chloroethane	ND		100	70.6		ug/L		71	70 - 130	13	20
Chloroform	ND		100	73.1		ug/L		73	70 - 130	5	20
Chloromethane	ND		100	69.9		ug/L		70	70 - 130	12	20
cis-1,2-Dichloroethene	310		100	373	F1	ug/L		68	70 - 130	2	20
cis-1,3-Dichloropropene	ND		100	76.9		ug/L		77	70 - 130	6	20
Dichlorobromomethane	ND		100	80.3		ug/L		80	70 - 130	5	20
Dichlorodifluoromethane	ND		100	59.2	F1	ug/L		59	70 - 130	15	20
Ethyl ether	ND		100	84.9		ug/L		85	70 - 130	2	20
Ethylbenzene	ND		100	71.9		ug/L		72	70 - 130	8	20
Ethylene Dibromide	ND		100	89.5		ug/L		89	70 - 130	3	20
Hexachlorobutadiene	ND		100	81.5		ug/L		82	70 - 130	12	20
Isopropyl ether	ND		100	71.6		ug/L		72	70 - 130	2	20
Isopropylbenzene	ND		100	70.4		ug/L		70	70 - 130	8	20
Methyl tert-butyl ether	ND		100	84.7		ug/L		85	70 - 130	0	20
Methylene Chloride	ND		100	76.2		ug/L		76	70 - 130	2	20
m-Xylene & p-Xylene	ND		100	76.3		ug/L		76	70 - 130	8	20
Naphthalene	ND		100	89.7		ug/L		90	70 - 130	4	20
n-Butylbenzene	ND		100	72.0		ug/L		72	70 - 130	9	20
N-Propylbenzene	ND		100	69.8		ug/L		70	70 - 130	8	20
o-Xylene	ND		100	77.7		ug/L		78	70 - 130	7	20
sec-Butylbenzene	ND		100	70.9		ug/L		71	70 - 130	9	20
Styrene	ND		100	79.3		ug/L		79	70 - 130	6	20
Tert-amyl methyl ether	ND		100	78.6		ug/L		79	70 - 130	1	20
Tert-butyl ethyl ether	ND		100	71.9		ug/L		72	70 - 130	3	20
tert-Butylbenzene	ND		100	73.6		ug/L		74	70 - 130	10	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-33 MSD

Matrix: Water

Analysis Batch: 175074

Client Sample ID: REW-12-20140406-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Tetrachloroethene	ND		100	72.7		ug/L		70	70 - 130	9	20
Tetrahydrofuran	ND		200	188		ug/L		94	70 - 130	3	20
Toluene	28		100	103		ug/L		76	70 - 130	5	20
trans-1,2-Dichloroethene	ND		100	70.8		ug/L		71	70 - 130	4	20
trans-1,3-Dichloropropene	ND		100	83.6		ug/L		84	70 - 130	4	20
Trichloroethene	50		100	122		ug/L		72	70 - 130	4	20
Trichlorofluoromethane	ND		100	60.8	F1	ug/L		61	70 - 130	16	20
Vinyl chloride	55		100	112	F1	ug/L		57	70 - 130	4	20
Dibromomethane	ND		100	83.2		ug/L		83	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 480-175163/8

Matrix: Water

Analysis Batch: 175163

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			04/11/14 12:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 12:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 12:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,4-Dioxane	ND		50		ug/L			04/11/14 12:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 12:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 12:27	1
2-Hexanone	ND		10		ug/L			04/11/14 12:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 12:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 12:27	1
Acetone	ND		50		ug/L			04/11/14 12:27	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175163/8

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/11/14 12:27	1
Bromobenzene	ND		1.0		ug/L			04/11/14 12:27	1
Bromoform	ND		1.0		ug/L			04/11/14 12:27	1
Bromomethane	ND		2.0		ug/L			04/11/14 12:27	1
Carbon disulfide	ND		10		ug/L			04/11/14 12:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 12:27	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 12:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 12:27	1
Chloroethane	ND		2.0		ug/L			04/11/14 12:27	1
Chloroform	ND		1.0		ug/L			04/11/14 12:27	1
Chloromethane	ND		2.0		ug/L			04/11/14 12:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 12:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 12:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 12:27	1
Ethyl ether	ND		1.0		ug/L			04/11/14 12:27	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 12:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 12:27	1
Isopropyl ether	ND		10		ug/L			04/11/14 12:27	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 12:27	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 12:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 12:27	1
Naphthalene	ND		5.0		ug/L			04/11/14 12:27	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
o-Xylene	ND		1.0		ug/L			04/11/14 12:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Styrene	ND		1.0		ug/L			04/11/14 12:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 12:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 12:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 12:27	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 12:27	1
Toluene	ND		1.0		ug/L			04/11/14 12:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 12:27	1
Trichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 12:27	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 12:27	1
Dibromomethane	ND		1.0		ug/L			04/11/14 12:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/11/14 12:27	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/11/14 12:27	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/11/14 12:27	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175163/5

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	70 - 130
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	22.2		ug/L		89	70 - 130
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 130
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,4-Dioxane	500	395		ug/L		79	70 - 130
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
2-Butanone (MEK)	125	131		ug/L		105	70 - 130
2-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
2-Hexanone	125	182 *		ug/L		145	70 - 130
4-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130
Acetone	125	104		ug/L		83	70 - 130
Benzene	25.0	24.2		ug/L		97	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	23.9		ug/L		95	70 - 130
Bromomethane	25.0	20.9		ug/L		83	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130
Carbon tetrachloride	25.0	24.5		ug/L		98	70 - 130
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130
Chlorobromomethane	25.0	25.1		ug/L		100	70 - 130
Chlorodibromomethane	24.5	25.8		ug/L		105	70 - 130
Chloroethane	25.0	22.1		ug/L		89	70 - 130
Chloroform	25.0	23.3		ug/L		93	70 - 130
Chloromethane	25.0	22.7		ug/L		91	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130
Dichlorobromomethane	25.0	24.5		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	24.2		ug/L		97	70 - 130
Ethyl ether	25.0	24.7		ug/L		99	70 - 130
Ethylbenzene	25.0	24.9		ug/L		100	70 - 130
Ethylene Dibromide	25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	27.8		ug/L		111	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175163/5

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 130
Naphthalene	25.0	25.0		ug/L		100	70 - 130
n-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	22.6		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	21.9		ug/L		88	70 - 130
tert-Butylbenzene	25.0	26.6		ug/L		106	70 - 130
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
Tetrahydrofuran	50.0	47.9		ug/L		96	70 - 130
Toluene	25.0	25.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	25.1		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	20.6		ug/L		83	70 - 130
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130
Dibromomethane	25.0	23.0		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-175163/6

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130	2	20
1,1,1-Trichloroethane	25.0	23.0		ug/L		92	70 - 130	3	20
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	1	20
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	2	20
1,1-Dichloroethane	25.0	22.5		ug/L		90	70 - 130	4	20
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	0	20
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.1		ug/L		101	70 - 130	2	20
1,2-Dichloroethane	25.0	22.3		ug/L		89	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-175163/6

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	2	20
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,4-Dioxane	500	466		ug/L		93	70 - 130	16	20
2,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130	5	20
2-Butanone (MEK)	125	127		ug/L		101	70 - 130	3	20
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	2	20
2-Hexanone	125	182 *		ug/L		145	70 - 130	0	20
4-Chlorotoluene	25.0	26.7		ug/L		107	70 - 130	5	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	70 - 130	1	20
Acetone	125	103		ug/L		82	70 - 130	1	20
Benzene	25.0	23.6		ug/L		95	70 - 130	3	20
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	0	20
Bromoform	25.0	24.1		ug/L		96	70 - 130	1	20
Bromomethane	25.0	20.3		ug/L		81	70 - 130	3	20
Carbon disulfide	25.0	24.0		ug/L		96	70 - 130	3	20
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 130	3	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	4	20
Chlorobromomethane	25.0	24.4		ug/L		97	70 - 130	3	20
Chlorodibromomethane	24.5	25.7		ug/L		105	70 - 130	0	20
Chloroethane	25.0	21.3		ug/L		85	70 - 130	4	20
Chloroform	25.0	22.8		ug/L		91	70 - 130	2	20
Chloromethane	25.0	21.5		ug/L		86	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	0	20
Dichlorobromomethane	25.0	24.0		ug/L		96	70 - 130	2	20
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130	7	20
Ethyl ether	25.0	24.4		ug/L		98	70 - 130	1	20
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130	2	20
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	3	20
Hexachlorobutadiene	25.0	27.6		ug/L		111	70 - 130	0	20
Isopropyl ether	25.0	22.1		ug/L		88	70 - 130	2	20
Isopropylbenzene	25.0	24.9		ug/L		99	70 - 130	3	20
Methyl tert-butyl ether	25.0	24.0		ug/L		96	70 - 130	1	20
Methylene Chloride	25.0	23.2		ug/L		93	70 - 130	3	20
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130	3	20
Naphthalene	25.0	25.5		ug/L		102	70 - 130	2	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	1	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
o-Xylene	25.0	25.2		ug/L		101	70 - 130	3	20
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20
Styrene	25.0	25.4		ug/L		102	70 - 130	2	20
Tert-amyl methyl ether	25.0	22.3		ug/L		89	70 - 130	1	20
Tert-butyl ethyl ether	25.0	21.6		ug/L		86	70 - 130	1	20
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-175163/6

Matrix: Water

Analysis Batch: 175163

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
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130	2	20
Tetrahydrofuran	50.0	47.5		ug/L		95	70 - 130	1	20
Toluene	25.0	24.8		ug/L		99	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	2	20
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	4	20
Trichlorofluoromethane	25.0	19.6		ug/L		78	70 - 130	5	20
Vinyl chloride	25.0	20.3		ug/L		81	70 - 130	5	20
Dibromomethane	25.0	23.0		ug/L		92	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 480-57495-17 MS

Matrix: Water

Analysis Batch: 175163

Client Sample ID: MW-551-20140408-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		1000	1070		ug/L		107	70 - 130
1,1,1-Trichloroethane	ND		1000	980		ug/L		98	70 - 130
1,1,1,2,2-Tetrachloroethane	ND		1000	992		ug/L		99	70 - 130
1,1,2-Trichloroethane	ND		1000	985		ug/L		99	70 - 130
1,1-Dichloroethane	ND		1000	1010		ug/L		101	70 - 130
1,1-Dichloroethene	ND		1000	987		ug/L		99	70 - 130
1,1-Dichloropropene	ND		1000	994		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	ND		1000	1010		ug/L		101	70 - 130
1,2,3-Trichloropropane	ND		1000	995		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	ND		1000	975		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	ND		1000	1050		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	ND		1000	975		ug/L		97	70 - 130
1,2-Dichlorobenzene	ND		1000	1010		ug/L		101	70 - 130
1,2-Dichloroethane	ND		1000	907		ug/L		91	70 - 130
1,2-Dichloropropane	ND		1000	1020		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	ND		1000	1040		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		1000	1020		ug/L		102	70 - 130
1,3-Dichloropropane	ND		1000	993		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		1000	1010		ug/L		101	70 - 130
1,4-Dioxane	ND		20000	15000		ug/L		75	70 - 130
2,2-Dichloropropane	ND		1000	881		ug/L		88	70 - 130
2-Butanone (MEK)	ND		5000	6380		ug/L		124	70 - 130
2-Chlorotoluene	ND		1000	1050		ug/L		105	70 - 130
2-Hexanone	ND *		5000	7010	F1	ug/L		140	70 - 130
4-Chlorotoluene	ND		1000	1080		ug/L		108	70 - 130
4-Isopropyltoluene	ND		1000	1050		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		5000	4930		ug/L		99	70 - 130
Acetone	15000		5000	19300		ug/L		92	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-17 MS

Matrix: Water

Analysis Batch: 175163

Client Sample ID: MW-551-20140408-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		1000	1000		ug/L		100	70 - 130
Bromobenzene	ND		1000	1020		ug/L		102	70 - 130
Bromoform	ND		1000	938		ug/L		94	70 - 130
Bromomethane	ND		1000	904		ug/L		90	70 - 130
Carbon disulfide	ND		1000	1000		ug/L		100	70 - 130
Carbon tetrachloride	ND		1000	1020		ug/L		102	70 - 130
Chlorobenzene	ND		1000	1010		ug/L		101	70 - 130
Chlorobromomethane	ND		1000	1040		ug/L		104	70 - 130
Chlorodibromomethane	ND		980	1020		ug/L		104	70 - 130
Chloroethane	ND		1000	966		ug/L		97	70 - 130
Chloroform	ND		1000	972		ug/L		97	70 - 130
Chloromethane	ND		1000	989		ug/L		99	70 - 130
cis-1,2-Dichloroethene	ND		1000	1030		ug/L		103	70 - 130
cis-1,3-Dichloropropene	ND		1000	948		ug/L		95	70 - 130
Dichlorobromomethane	ND		1000	994		ug/L		99	70 - 130
Dichlorodifluoromethane	ND		1000	1040		ug/L		104	70 - 130
Ethyl ether	ND		1000	997		ug/L		100	70 - 130
Ethylbenzene	ND		1000	1000		ug/L		100	70 - 130
Ethylene Dibromide	ND		1000	992		ug/L		99	70 - 130
Hexachlorobutadiene	ND		1000	1100		ug/L		110	70 - 130
Isopropyl ether	ND		1000	903		ug/L		90	70 - 130
Isopropylbenzene	ND		1000	1010		ug/L		101	70 - 130
Methyl tert-butyl ether	ND		1000	970		ug/L		97	70 - 130
Methylene Chloride	ND		1000	1010		ug/L		101	70 - 130
m-Xylene & p-Xylene	ND		1000	1040		ug/L		104	70 - 130
Naphthalene	ND		1000	952		ug/L		95	70 - 130
n-Butylbenzene	ND		1000	1010		ug/L		101	70 - 130
N-Propylbenzene	ND		1000	988		ug/L		99	70 - 130
o-Xylene	ND		1000	1040		ug/L		104	70 - 130
sec-Butylbenzene	ND		1000	1020		ug/L		102	70 - 130
Styrene	ND		1000	1030		ug/L		103	70 - 130
Tert-amyl methyl ether	ND		1000	898		ug/L		90	70 - 130
Tert-butyl ethyl ether	ND		1000	878		ug/L		88	70 - 130
tert-Butylbenzene	ND		1000	1050		ug/L		105	70 - 130
Tetrachloroethene	ND		1000	1020		ug/L		102	70 - 130
Tetrahydrofuran	ND		2000	1910		ug/L		95	70 - 130
Toluene	ND		1000	1030		ug/L		103	70 - 130
trans-1,2-Dichloroethene	ND		1000	1020		ug/L		102	70 - 130
trans-1,3-Dichloropropene	ND		1000	979		ug/L		98	70 - 130
Trichloroethene	ND		1000	1030		ug/L		103	70 - 130
Trichlorofluoromethane	ND		1000	894		ug/L		89	70 - 130
Vinyl chloride	ND		1000	966		ug/L		97	70 - 130
Dibromomethane	ND		1000	945		ug/L		94	70 - 130
		MS	MS						
Surrogate		%Recovery	Qualifier						Limits
Toluene-d8 (Surr)		99							70 - 130
1,2-Dichloroethane-d4 (Surr)		103							70 - 130
4-Bromofluorobenzene (Surr)		102							70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-17 MSD

Matrix: Water

Analysis Batch: 175163

Client Sample ID: MW-551-20140408-01

Prep Type: Total/NA

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result			Result					Limits		
1,1,1,2-Tetrachloroethane	ND		1000	1030		ug/L		103	70 - 130	4	20
1,1,1-Trichloroethane	ND		1000	931		ug/L		93	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		1000	985		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	ND		1000	978		ug/L		98	70 - 130	1	20
1,1-Dichloroethane	ND		1000	974		ug/L		97	70 - 130	4	20
1,1-Dichloroethene	ND		1000	923		ug/L		92	70 - 130	7	20
1,1-Dichloropropene	ND		1000	961		ug/L		96	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		1000	1020		ug/L		102	70 - 130	1	20
1,2,3-Trichloropropane	ND		1000	973		ug/L		97	70 - 130	2	20
1,2,4-Trichlorobenzene	ND		1000	985		ug/L		98	70 - 130	1	20
1,2,4-Trimethylbenzene	ND		1000	1030		ug/L		103	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		1000	1010		ug/L		101	70 - 130	4	20
1,2-Dichlorobenzene	ND		1000	996		ug/L		100	70 - 130	1	20
1,2-Dichloroethane	ND		1000	898		ug/L		90	70 - 130	1	20
1,2-Dichloropropane	ND		1000	994		ug/L		99	70 - 130	2	20
1,3,5-Trimethylbenzene	ND		1000	1020		ug/L		102	70 - 130	2	20
1,3-Dichlorobenzene	ND		1000	1010		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	ND		1000	982		ug/L		98	70 - 130	1	20
1,4-Dichlorobenzene	ND		1000	999		ug/L		100	70 - 130	1	20
1,4-Dioxane	ND		20000	18400	F2	ug/L		92	70 - 130	21	20
2,2-Dichloropropane	ND		1000	839		ug/L		84	70 - 130	5	20
2-Butanone (MEK)	ND		5000	6550		ug/L		127	70 - 130	3	20
2-Chlorotoluene	ND		1000	1030		ug/L		103	70 - 130	2	20
2-Hexanone	ND *		5000	7160	F1	ug/L		143	70 - 130	2	20
4-Chlorotoluene	ND		1000	1070		ug/L		107	70 - 130	2	20
4-Isopropyltoluene	ND		1000	1020		ug/L		102	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		5000	4950		ug/L		99	70 - 130	0	20
Acetone	15000		5000	19000		ug/L		85	70 - 130	2	20
Benzene	ND		1000	966		ug/L		97	70 - 130	4	20
Bromobenzene	ND		1000	1000		ug/L		100	70 - 130	2	20
Bromoform	ND		1000	943		ug/L		94	70 - 130	0	20
Bromomethane	ND		1000	832		ug/L		83	70 - 130	8	20
Carbon disulfide	ND		1000	987		ug/L		99	70 - 130	2	20
Carbon tetrachloride	ND		1000	971		ug/L		97	70 - 130	4	20
Chlorobenzene	ND		1000	1000		ug/L		100	70 - 130	1	20
Chlorobromomethane	ND		1000	1010		ug/L		101	70 - 130	4	20
Chlorodibromomethane	ND		980	1010		ug/L		103	70 - 130	1	20
Chloroethane	ND		1000	884		ug/L		88	70 - 130	9	20
Chloroform	ND		1000	932		ug/L		93	70 - 130	4	20
Chloromethane	ND		1000	893		ug/L		89	70 - 130	10	20
cis-1,2-Dichloroethene	ND		1000	1000		ug/L		100	70 - 130	3	20
cis-1,3-Dichloropropene	ND		1000	960		ug/L		96	70 - 130	1	20
Dichlorobromomethane	ND		1000	988		ug/L		99	70 - 130	1	20
Dichlorodifluoromethane	ND		1000	941		ug/L		94	70 - 130	10	20
Ethyl ether	ND		1000	983		ug/L		98	70 - 130	1	20
Ethylbenzene	ND		1000	981		ug/L		98	70 - 130	2	20
Ethylene Dibromide	ND		1000	981		ug/L		98	70 - 130	1	20
Hexachlorobutadiene	ND		1000	1070		ug/L		107	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-17 MSD

Matrix: Water

Analysis Batch: 175163

Client Sample ID: MW-551-20140408-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Isopropyl ether	ND		1000	892		ug/L		89	70 - 130	1	20
Isopropylbenzene	ND		1000	983		ug/L		98	70 - 130	2	20
Methyl tert-butyl ether	ND		1000	954		ug/L		95	70 - 130	2	20
Methylene Chloride	ND		1000	965		ug/L		96	70 - 130	4	20
m-Xylene & p-Xylene	ND		1000	1020		ug/L		102	70 - 130	2	20
Naphthalene	ND		1000	979		ug/L		98	70 - 130	3	20
n-Butylbenzene	ND		1000	971		ug/L		97	70 - 130	4	20
N-Propylbenzene	ND		1000	975		ug/L		98	70 - 130	1	20
o-Xylene	ND		1000	1010		ug/L		101	70 - 130	3	20
sec-Butylbenzene	ND		1000	990		ug/L		99	70 - 130	3	20
Styrene	ND		1000	1030		ug/L		103	70 - 130	1	20
Tert-amyl methyl ether	ND		1000	897		ug/L		90	70 - 130	0	20
Tert-butyl ethyl ether	ND		1000	865		ug/L		87	70 - 130	1	20
tert-Butylbenzene	ND		1000	1040		ug/L		104	70 - 130	1	20
Tetrachloroethene	ND		1000	991		ug/L		99	70 - 130	3	20
Tetrahydrofuran	ND		2000	1940		ug/L		97	70 - 130	2	20
Toluene	ND		1000	1010		ug/L		101	70 - 130	2	20
trans-1,2-Dichloroethene	ND		1000	971		ug/L		97	70 - 130	5	20
trans-1,3-Dichloropropene	ND		1000	976		ug/L		98	70 - 130	0	20
Trichloroethene	ND		1000	998		ug/L		100	70 - 130	3	20
Trichlorofluoromethane	ND		1000	821		ug/L		82	70 - 130	9	20
Vinyl chloride	ND		1000	874		ug/L		87	70 - 130	10	20
Dibromomethane	ND		1000	947		ug/L		95	70 - 130	0	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

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			04/13/14 22:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/13/14 22:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/13/14 22:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dioxane	ND		50		ug/L			04/13/14 22:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
2-Butanone (MEK)	ND		10		ug/L			04/13/14 22:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
2-Hexanone	ND		10		ug/L			04/13/14 22:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/13/14 22:07	1
Acetone	ND		50		ug/L			04/13/14 22:07	1
Benzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromoform	ND		1.0		ug/L			04/13/14 22:07	1
Bromomethane	ND		2.0		ug/L			04/13/14 22:07	1
Carbon disulfide	ND		10		ug/L			04/13/14 22:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobromomethane	ND		1.0		ug/L			04/13/14 22:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Chloroethane	ND		2.0		ug/L			04/13/14 22:07	1
Chloroform	ND		1.0		ug/L			04/13/14 22:07	1
Chloromethane	ND		2.0		ug/L			04/13/14 22:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Ethyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Ethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/13/14 22:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/13/14 22:07	1
Isopropyl ether	ND		10		ug/L			04/13/14 22:07	1
Isopropylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Methylene Chloride	ND		1.0		ug/L			04/13/14 22:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/13/14 22:07	1
Naphthalene	ND		5.0		ug/L			04/13/14 22:07	1
n-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
N-Propylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
o-Xylene	ND		1.0		ug/L			04/13/14 22:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Styrene	ND		1.0		ug/L			04/13/14 22:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/13/14 22:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/13/14 22:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrahydrofuran	ND		10		ug/L			04/13/14 22:07	1
Toluene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Trichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Vinyl chloride	ND		1.0		ug/L			04/13/14 22:07	1
Dibromomethane	ND		1.0		ug/L			04/13/14 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/13/14 22:07	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/13/14 22:07	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/13/14 22:07	1

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130
1,4-Dioxane	500	452		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	142		ug/L		113	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130
Acetone	125	125		ug/L		100	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.9		ug/L		100	70 - 130
Bromobenzene	25.0	24.3		ug/L		97	70 - 130
Bromoform	25.0	21.2		ug/L		85	70 - 130
Bromomethane	25.0	29.6		ug/L		118	70 - 130
Carbon disulfide	25.0	21.1		ug/L		84	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	24.9		ug/L		99	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	24.5	24.5		ug/L		100	70 - 130
Chloroethane	25.0	28.9		ug/L		116	70 - 130
Chloroform	25.0	25.1		ug/L		100	70 - 130
Chloromethane	25.0	24.2		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130
Ethyl ether	25.0	25.0		ug/L		100	70 - 130
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	25.5		ug/L		102	70 - 130
Isopropyl ether	25.0	26.3		ug/L		105	70 - 130
Isopropylbenzene	25.0	24.1		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	23.7		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 130
Naphthalene	25.0	25.8		ug/L		103	70 - 130
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	24.1		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	24.9		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		101	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130
Tetrahydrofuran	50.0	65.3 *		ug/L		131	70 - 130
Toluene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	24.0		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	27.1		ug/L		108	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.1		ug/L		104	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130	1	20
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 130	2	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	4	20
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,4-Dioxane	500	463		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	2	20
2-Butanone (MEK)	125	135		ug/L		108	70 - 130	4	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
2-Hexanone	125	123		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	21.2		ug/L		85	70 - 130	4	20
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	70 - 130	2	20
Acetone	125	126		ug/L		101	70 - 130	0	20
Benzene	25.0	24.7		ug/L		99	70 - 130	1	20
Bromobenzene	25.0	23.6		ug/L		95	70 - 130	3	20
Bromoform	25.0	21.4		ug/L		86	70 - 130	1	20
Bromomethane	25.0	30.4		ug/L		122	70 - 130	3	20
Carbon disulfide	25.0	20.4		ug/L		82	70 - 130	3	20
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 130	2	20
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130	5	20
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	2	20
Chlorodibromomethane	24.5	24.0		ug/L		98	70 - 130	2	20
Chloroethane	25.0	28.7		ug/L		115	70 - 130	1	20
Chloroform	25.0	25.0		ug/L		100	70 - 130	0	20
Chloromethane	25.0	24.6		ug/L		98	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	0	20
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	0	20
Dichlorodifluoromethane	25.0	23.1		ug/L		92	70 - 130	2	20
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	0	20
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	2	20
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130	5	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

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
Isopropyl ether	25.0	26.0		ug/L		104	70 - 130	1	20
Isopropylbenzene	25.0	23.1		ug/L		93	70 - 130	4	20
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130	1	20
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130	1	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 130	3	20
Naphthalene	25.0	25.0		ug/L		100	70 - 130	3	20
n-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	6	20
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130	4	20
o-Xylene	25.0	23.7		ug/L		95	70 - 130	2	20
sec-Butylbenzene	25.0	23.5		ug/L		94	70 - 130	5	20
Styrene	25.0	24.1		ug/L		96	70 - 130	3	20
Tert-amyl methyl ether	25.0	25.9		ug/L		103	70 - 130	1	20
Tert-butyl ethyl ether	25.0	26.0		ug/L		104	70 - 130	2	20
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130	3	20
Tetrachloroethene	25.0	24.5		ug/L		98	70 - 130	6	20
Tetrahydrofuran	50.0	66.1 *		ug/L		132	70 - 130	1	20
Toluene	25.0	23.3		ug/L		93	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	23.9		ug/L		95	70 - 130	1	20
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20
Trichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	3	20
Vinyl chloride	25.0	23.2		ug/L		93	70 - 130	3	20
Dibromomethane	25.0	25.6		ug/L		103	70 - 130	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

QC Association Summary

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

TestAmerica Job ID: 480-57495-1

GC/MS VOA

Analysis Batch: 174684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-1	DEP-19M-20140405-01	Total/NA	Water	8260C	
480-57495-2	DEP-21-20140405-01	Total/NA	Water	8260C	
480-57495-3	MW-261S-20140408-01	Total/NA	Water	8260C	
480-57495-4	MW-263M-20140408-01	Total/NA	Water	8260C	
480-57495-5	MW-264M-20140408-01	Total/NA	Water	8260C	
480-57495-6	MW-265S-20140408-01	Total/NA	Water	8260C	
480-57495-7	MW-265M-20140408-01	Total/NA	Water	8260C	
480-57495-9	MW-266Ma-20140405-01	Total/NA	Water	8260C	
480-57495-10	MW-266Mb-20140405-01	Total/NA	Water	8260C	
LCS 480-174684/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-174684/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-174684/9	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 174949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-7 - DL	MW-265M-20140408-01	Total/NA	Water	8260C	
480-57495-8	MW-265D-20140408-01	Total/NA	Water	8260C	
480-57495-11	MW-267S-20140405-01	Total/NA	Water	8260C	
480-57495-12	MW-267M-20140405-01	Total/NA	Water	8260C	
480-57495-13	MW-268S-20140407	Total/NA	Water	8260C	
480-57495-14	MW-268M-20140407	Total/NA	Water	8260C	
480-57495-15	MW-268D-20140405	Total/NA	Water	8260C	
480-57495-16	MW-269Ma-20140405	Total/NA	Water	8260C	
480-57495-20	MW-560-20140407-01	Total/NA	Water	8260C	
LCS 480-174949/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-174949/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-174949/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 175074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-22	MW-562-20140407-01	Total/NA	Water	8260C	
480-57495-23	MW-563-20140407-01	Total/NA	Water	8260C	
480-57495-27	REW-6-20140406-01	Total/NA	Water	8260C	
480-57495-28	REW-7-20140406-01	Total/NA	Water	8260C	
480-57495-29	REW-8-20140406-01	Total/NA	Water	8260C	
480-57495-30	REW-9-20140406-01	Total/NA	Water	8260C	
480-57495-31	REW-10-20140406-01	Total/NA	Water	8260C	
480-57495-32	REW-11-20140406-01	Total/NA	Water	8260C	
480-57495-33	REW-12-20140406-01	Total/NA	Water	8260C	
480-57495-33 MS	REW-12-20140406-01	Total/NA	Water	8260C	
480-57495-33 MSD	REW-12-20140406-01	Total/NA	Water	8260C	
480-57495-34	DupX1-20140405-01	Total/NA	Water	8260C	
480-57495-35	DupX2-20140406-01	Total/NA	Water	8260C	
480-57495-36	DupX3-20140408-01	Total/NA	Water	8260C	
LCS 480-175074/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175074/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175074/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 175163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-17	MW-551-20140408-01	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-57495-1

GC/MS VOA (Continued)

Analysis Batch: 175163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-17 MS	MW-551-20140408-01	Total/NA	Water	8260C	
480-57495-17 MSD	MW-551-20140408-01	Total/NA	Water	8260C	
480-57495-18	MW-552-20140407-01	Total/NA	Water	8260C	
480-57495-19	MW-553-20140407-01	Total/NA	Water	8260C	
480-57495-20 - DL	MW-560-20140407-01	Total/NA	Water	8260C	
480-57495-21	MW-561-20140407-01	Total/NA	Water	8260C	
480-57495-22 - DL	MW-562-20140407-01	Total/NA	Water	8260C	
480-57495-24	REW-1-20140406-01	Total/NA	Water	8260C	
480-57495-25	REW-4-20140406-01	Total/NA	Water	8260C	
480-57495-26	REW-5-20140406-01	Total/NA	Water	8260C	
480-57495-35 - DL	DupX2-20140406-01	Total/NA	Water	8260C	
480-57495-37	Trip Blanks	Total/NA	Water	8260C	
LCS 480-175163/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175163/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175163/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 175364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-3	MW-261S-20140408-01	Total/NA	Water	8260B SIM	
480-57495-7	MW-265M-20140408-01	Total/NA	Water	8260B SIM	
480-57495-9	MW-266Ma-20140405-01	Total/NA	Water	8260B SIM	
480-57495-11	MW-267S-20140405-01	Total/NA	Water	8260B SIM	
480-57495-12	MW-267M-20140405-01	Total/NA	Water	8260B SIM	
480-57495-13	MW-268S-20140407	Total/NA	Water	8260B SIM	
480-57495-14	MW-268M-20140407	Total/NA	Water	8260B SIM	
480-57495-16	MW-269Ma-20140405	Total/NA	Water	8260B SIM	
480-57495-18	MW-552-20140407-01	Total/NA	Water	8260B SIM	
480-57495-36	DupX3-20140408-01	Total/NA	Water	8260B SIM	
LCS 480-175364/4	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 480-175364/5	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
MB 480-175364/6	Method Blank	Total/NA	Water	8260B SIM	

Analysis Batch: 175485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-36 - DL	DupX3-20140408-01	Total/NA	Water	8260C	
LCS 480-175485/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175485/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175485/9	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: DEP-19M-20140405-01

Lab Sample ID: 480-57495-1

Date Collected: 04/05/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 17:26	LCH	TAL BUF

Client Sample ID: DEP-21-20140405-01

Lab Sample ID: 480-57495-2

Date Collected: 04/05/14 11:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 17:50	LCH	TAL BUF

Client Sample ID: MW-261S-20140408-01

Lab Sample ID: 480-57495-3

Date Collected: 04/08/14 07:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/11/14 23:36	CDC	TAL BUF
Total/NA	Analysis	8260C		50	174684	04/09/14 18:14	LCH	TAL BUF

Client Sample ID: MW-263M-20140408-01

Lab Sample ID: 480-57495-4

Date Collected: 04/08/14 11:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 18:37	LCH	TAL BUF

Client Sample ID: MW-264M-20140408-01

Lab Sample ID: 480-57495-5

Date Collected: 04/08/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 19:01	LCH	TAL BUF

Client Sample ID: MW-265S-20140408-01

Lab Sample ID: 480-57495-6

Date Collected: 04/08/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 19:25	LCH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-265M-20140408-01

Lab Sample ID: 480-57495-7

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 00:00	CDC	TAL BUF
Total/NA	Analysis	8260C	DL	5	174949	04/10/14 15:48	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	174684	04/09/14 19:49	LCH	TAL BUF

Client Sample ID: MW-265D-20140408-01

Lab Sample ID: 480-57495-8

Date Collected: 04/08/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174949	04/10/14 16:14	NMD1	TAL BUF

Client Sample ID: MW-266Ma-20140405-01

Lab Sample ID: 480-57495-9

Date Collected: 04/05/14 14:50

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 00:23	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174684	04/09/14 20:37	LCH	TAL BUF

Client Sample ID: MW-266Mb-20140405-01

Lab Sample ID: 480-57495-10

Date Collected: 04/05/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 21:00	LCH	TAL BUF

Client Sample ID: MW-267S-20140405-01

Lab Sample ID: 480-57495-11

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 00:48	CDC	TAL BUF
Total/NA	Analysis	8260C		5	174949	04/10/14 16:39	NMD1	TAL BUF

Client Sample ID: MW-267M-20140405-01

Lab Sample ID: 480-57495-12

Date Collected: 04/05/14 12:50

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 01:11	CDC	TAL BUF
Total/NA	Analysis	8260C		10	174949	04/10/14 17:04	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-268S-20140407

Lab Sample ID: 480-57495-13

Date Collected: 04/07/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 01:36	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174949	04/10/14 17:29	NMD1	TAL BUF

Client Sample ID: MW-268M-20140407

Lab Sample ID: 480-57495-14

Date Collected: 04/07/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 02:00	CDC	TAL BUF
Total/NA	Analysis	8260C		40	174949	04/10/14 17:54	NMD1	TAL BUF

Client Sample ID: MW-268D-20140405

Lab Sample ID: 480-57495-15

Date Collected: 04/05/14 12:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174949	04/10/14 18:19	NMD1	TAL BUF

Client Sample ID: MW-269Ma-20140405

Lab Sample ID: 480-57495-16

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 02:24	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174949	04/10/14 18:44	NMD1	TAL BUF

Client Sample ID: MW-551-20140408-01

Lab Sample ID: 480-57495-17

Date Collected: 04/08/14 12:05

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	175163	04/11/14 14:09	NMD1	TAL BUF

Client Sample ID: MW-552-20140407-01

Lab Sample ID: 480-57495-18

Date Collected: 04/07/14 15:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 02:48	CDC	TAL BUF
Total/NA	Analysis	8260C		1	175163	04/11/14 14:35	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: MW-553-20140407-01

Lab Sample ID: 480-57495-19

Date Collected: 04/07/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 15:00	NMD1	TAL BUF

Client Sample ID: MW-560-20140407-01

Lab Sample ID: 480-57495-20

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174949	04/10/14 20:26	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	4	175163	04/11/14 15:26	NMD1	TAL BUF

Client Sample ID: MW-561-20140407-01

Lab Sample ID: 480-57495-21

Date Collected: 04/07/14 12:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	175163	04/11/14 15:51	NMD1	TAL BUF

Client Sample ID: MW-562-20140407-01

Lab Sample ID: 480-57495-22

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	175074	04/11/14 02:04	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	4	175163	04/11/14 16:16	NMD1	TAL BUF

Client Sample ID: MW-563-20140407-01

Lab Sample ID: 480-57495-23

Date Collected: 04/07/14 10:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	175074	04/11/14 02:29	LCH	TAL BUF

Client Sample ID: REW-1-20140406-01

Lab Sample ID: 480-57495-24

Date Collected: 04/06/14 13:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	175163	04/11/14 16:42	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-4-20140406-01

Lab Sample ID: 480-57495-25

Date Collected: 04/06/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 17:07	NMD1	TAL BUF

Client Sample ID: REW-5-20140406-01

Lab Sample ID: 480-57495-26

Date Collected: 04/06/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 17:33	NMD1	TAL BUF

Client Sample ID: REW-6-20140406-01

Lab Sample ID: 480-57495-27

Date Collected: 04/06/14 09:05

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	175074	04/11/14 04:10	LCH	TAL BUF

Client Sample ID: REW-7-20140406-01

Lab Sample ID: 480-57495-28

Date Collected: 04/06/14 09:35

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	175074	04/11/14 04:36	LCH	TAL BUF

Client Sample ID: REW-8-20140406-01

Lab Sample ID: 480-57495-29

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 05:01	LCH	TAL BUF

Client Sample ID: REW-9-20140406-01

Lab Sample ID: 480-57495-30

Date Collected: 04/06/14 11:40

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 05:26	LCH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: REW-10-20140406-01

Lab Sample ID: 480-57495-31

Date Collected: 04/06/14 12:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 05:51	LCH	TAL BUF

Client Sample ID: REW-11-20140406-01

Lab Sample ID: 480-57495-32

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	175074	04/11/14 06:16	LCH	TAL BUF

Client Sample ID: REW-12-20140406-01

Lab Sample ID: 480-57495-33

Date Collected: 04/06/14 13:10

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	175074	04/11/14 06:42	LCH	TAL BUF

Client Sample ID: DupX1-20140405-01

Lab Sample ID: 480-57495-34

Date Collected: 04/05/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 07:06	LCH	TAL BUF

Client Sample ID: DupX2-20140406-01

Lab Sample ID: 480-57495-35

Date Collected: 04/06/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 07:31	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	25	175163	04/11/14 17:58	NMD1	TAL BUF

Client Sample ID: DupX3-20140408-01

Lab Sample ID: 480-57495-36

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 03:12	CDC	TAL BUF
Total/NA	Analysis	8260C		1	175074	04/11/14 07:57	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	40	175485	04/14/14 00:11	LCH	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

Client Sample ID: Trip Blanks

Lab Sample ID: 480-57495-37

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 13:43	NMD1	TAL BUF

Laboratory References:

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

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

Certification Summary

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

TestAmerica Job ID: 480-57495-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

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

TestAmerica Job ID: 480-57495-1

Method	Method Description	Protocol	Laboratory
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 480-57495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57495-1	DEP-19M-20140405-01	Water	04/05/14 10:30	04/09/14 01:30
480-57495-2	DEP-21-20140405-01	Water	04/05/14 11:25	04/09/14 01:30
480-57495-3	MW-261S-20140408-01	Water	04/08/14 07:20	04/09/14 01:30
480-57495-4	MW-263M-20140408-01	Water	04/08/14 11:45	04/09/14 01:30
480-57495-5	MW-264M-20140408-01	Water	04/08/14 10:30	04/09/14 01:30
480-57495-6	MW-265S-20140408-01	Water	04/08/14 09:25	04/09/14 01:30
480-57495-7	MW-265M-20140408-01	Water	04/08/14 08:45	04/09/14 01:30
480-57495-8	MW-265D-20140408-01	Water	04/08/14 08:15	04/09/14 01:30
480-57495-9	MW-266Ma-20140405-01	Water	04/05/14 14:50	04/09/14 01:30
480-57495-10	MW-266Mb-20140405-01	Water	04/05/14 15:20	04/09/14 01:30
480-57495-11	MW-267S-20140405-01	Water	04/05/14 13:20	04/09/14 01:30
480-57495-12	MW-267M-20140405-01	Water	04/05/14 12:50	04/09/14 01:30
480-57495-13	MW-268S-20140407	Water	04/07/14 08:45	04/09/14 01:30
480-57495-14	MW-268M-20140407	Water	04/07/14 09:25	04/09/14 01:30
480-57495-15	MW-268D-20140405	Water	04/05/14 12:20	04/09/14 01:30
480-57495-16	MW-269Ma-20140405	Water	04/05/14 14:10	04/09/14 01:30
480-57495-17	MW-551-20140408-01	Water	04/08/14 12:05	04/09/14 01:30
480-57495-18	MW-552-20140407-01	Water	04/07/14 15:25	04/09/14 01:30
480-57495-19	MW-553-20140407-01	Water	04/07/14 14:30	04/09/14 01:30
480-57495-20	MW-560-20140407-01	Water	04/07/14 11:10	04/09/14 01:30
480-57495-21	MW-561-20140407-01	Water	04/07/14 12:00	04/09/14 01:30
480-57495-22	MW-562-20140407-01	Water	04/07/14 13:30	04/09/14 01:30
480-57495-23	MW-563-20140407-01	Water	04/07/14 10:20	04/09/14 01:30
480-57495-24	REW-1-20140406-01	Water	04/06/14 13:45	04/09/14 01:30
480-57495-25	REW-4-20140406-01	Water	04/06/14 15:20	04/09/14 01:30
480-57495-26	REW-5-20140406-01	Water	04/06/14 14:30	04/09/14 01:30
480-57495-27	REW-6-20140406-01	Water	04/06/14 09:05	04/09/14 01:30
480-57495-28	REW-7-20140406-01	Water	04/06/14 09:35	04/09/14 01:30
480-57495-29	REW-8-20140406-01	Water	04/06/14 10:45	04/09/14 01:30
480-57495-30	REW-9-20140406-01	Water	04/06/14 11:40	04/09/14 01:30
480-57495-31	REW-10-20140406-01	Water	04/06/14 12:25	04/09/14 01:30
480-57495-32	REW-11-20140406-01	Water	04/06/14 08:15	04/09/14 01:30
480-57495-33	REW-12-20140406-01	Water	04/06/14 13:10	04/09/14 01:30
480-57495-34	DupX1-20140405-01	Water	04/05/14 00:00	04/09/14 01:30
480-57495-35	DupX2-20140406-01	Water	04/06/14 00:00	04/09/14 01:30
480-57495-36	DupX3-20140408-01	Water	04/08/14 00:00	04/09/14 01:30
480-57495-37	Trip Blanks	Water	04/08/14 00:00	04/09/14 01:30

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-57495-1

Login Number: 57495

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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





Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Inductive Engineering Solutions Inc**
 Address: **25 Spring St, Woburn, MA 02091**
 City: **Woburn, MA 02091**
 Project Name and Location (State): **Southon Woburn/Woburn MA**
 Contract/Purchase Order/Quote No.: **RA-008**

Project Manager: **Vicki Rainier**
 Telephone Number (Area Code)/Fax Number: **508-669-0033/15173**
 Site Contact: **Dean Sosa**
 Carrier/Waybill Number: _____

Date: **4/8/14** Chain of Custody Number: **261779**
 Lab Number: **45** Page: **1** of **4**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	soils	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc				
DEP-19M-20140405-01	4/5/14	1030	X													
DEP-21-20140405-01	4/5/14	1125	X													
mw-2613-20140408-01	4/8/14	0720	X													
mw-2631-20140408-01	4/8/14	1145	X													
mw-2640-20140408-01	4/8/14	1030	X													
mw-2653-20140408-01	4/8/14	0735	X													
mw-2635-20140408-01	4/8/14	0845	X													
mw-2652-20140408-01	4/8/14	0815	X													
mw-2666-20140405-01	4/5/14	1450	X													
mw-2666-20140405-01	4/5/14	1520	X													
mw-2673-20140405-01	4/5/14	1320	X													
mw-2677-20140405-01	4/5/14	1250	X													

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

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

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

QC Requirements (Specify)		1. Relinquished By		2. Relinquished By		3. Relinquished By	
Date	Time	Date	Time	Date	Time	Date	Time
4/8/14	1300	4/8/14	1300	4/8/14	1300	4/8/14	1300
4/8/14	1638	4/8/14	1638	4/8/14	1638	4/8/14	1638

Comments: **TAL**

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: Environmental Engineering Solutions Inc
 Address: 95 Spring St
 City: Woburn State: MA Zip Code: 02081
 Project Name and Location (State): Prothom Industrial, Woburn MA
 Contract/Purchase Order/Quote No.: RA-008

Project Manager: Vicki Reardon
 Telephone Number (Area Code)/Fax Number: 508-668-0033 / 5175
 Site Contact: Dave S... Lab Contact: _____
 Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
MA-268P-20140407 -01	4/7/14	0845	X													
MA-268M-20140407 -01	4/7/14	0925	X													
MA-268D-20140405 -01	4/5/14	1320	X													
MA-268M-20140405 -01	4/5/14	1410	X													
MA-551-20140408 -01	4/8/14	1205	X													
MA-553-20140407 -01	4/7/14	1525	X													
MA-553-20140407 -01	4/7/14	1430	X													
MA-560-20140407 -01	4/7/14	1110	X													
MA-561-20140407 -01	4/7/14	1200	X													
MA-562-20140407 -01	4/7/14	1320	X													
MA-563-20140407 -01	4/7/14	1020	X													
RES-1-20140406 -01	4/10/14	1345	X													

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

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

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

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

1. Relinquished By: [Signature] Date: 4/18/14 Time: 1300

2. Relinquished By: [Signature] Date: 4/18/14 Time: 1628

3. Relinquished By: _____ Date: _____ Time: _____

Comments: 2.3, 2.1 #1

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

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

Project Manager: Vicki P...
 Telephone Number (Area Code)/Fax Number: 508-668-0033 / 5175
 Date: 4/8/14
 Lab Number: 261784
 Page 3 of 4

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt		
			Air	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
RES-4-20140406 -01	4/6/14	1530	X								3				Note: ... destruction limit See diagram must be at least 3 ppb.
RES-5-20140406 -01	4/6/14	1430	X								3				
RES-6-20140406 -01	4/6/14	0905	X								3				
RES-7-20140406 -01	4/6/14	0935	X								3				
RES-8-20140406 -01	4/6/14	1045	X								3				
RES-9-20140406 -01	4/6/14	1140	X								3				
RES-10-20140406 -01	4/6/14	1225	X								3				
RES-11-20140406 -01	4/6/14	0815	X								3				
RES-12-20140406 -01	4/6/14	1310	X								3				
DupX1-20140405 -01	-	-	X								3				
DupX2-20140406 -01	-	-	X								3				
DupX3-20140408 -01	-	-	X								3				

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

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

1. Relinquished By: [Signature] Date: 4/8/14 Time: 1300

2. Relinquished By: [Signature] Date: 4/3/14 Time: 1638

3. Relinquished By: _____ Date: _____ Time: _____

Comments: 2.3, 2.1 #1



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client Interactive Engineering Solutions Inc Address 95 Spring St Worcester Project Name and Location (State) Bentley Warehouse (Worcester MA) Contract/Purchase Order/Quote No. RA-008		Project Manager Vicki Reisinger Telephone Number (Area Code)/Fax Number 508-668-0033 / 5175 Site Contact Dawn Sorey Carrier/Waybill Number		Date 4/8/14 Lab Number 261782 Page 4 of 4		Chain of Custody Number 261782
State MA Zip Code 02091		Analysis (Attach list if more space is needed)		Special Instructions/ Conditions of Receipt Note: detection limit seen Siouxons most best at least 3 eps		
Sample I.D. No. and Description (Containers for each sample may be combined on one line) Tap Blank		Matrix		Containers & Preservatives		Analysis (Attach list if more space is needed)
Date --		Time --		Unpres. H2SO4 HNO3 HCl NaOH ZNA/ NHOH		
Date --		Time --		Air X		Analysis (Attach list if more space is needed)
Date --		Time --		Soil Sed Aqueous		

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

Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input checked="" type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other		GC Requirements (Specify)	
1. Relinquished By 	Date 4/8/14	Time 1300	1. Received By
2. Relinquished By 	Date 4/8/14	Time 1630	2. Received By
3. Relinquished By	Date	Time	3. Received By

Comments

2-3 2-14

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



Report Date:
12-Feb-14 17:14



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: N0134
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N0134-01	MW-267S-20140130-01	Aqueous	30-Jan-14 12:50	31-Jan-14 11:08
N0134-02	MW-267M-20140130-01	Aqueous	30-Jan-14 12:10	31-Jan-14 11:08
N0134-03	MW-268M-20140130-01	Aqueous	30-Jan-14 11:25	31-Jan-14 11:08
N0134-04	MW-561-20140130-01	Aqueous	30-Jan-14 09:10	31-Jan-14 11:08
N0134-05	MW-553-20140130-01	Aqueous	30-Jan-14 10:30	31-Jan-14 11:08
N0134-06	REW-6-20140130-01	Aqueous	30-Jan-14 09:55	31-Jan-14 11:08
N0134-07	REW-7-20140130-01	Aqueous	30-Jan-14 10:50	31-Jan-14 11:08
N0134-08	REW-8-20140130-01	Aqueous	30-Jan-14 12:55	31-Jan-14 11:08
N0134-09	REW-9-20140130-01	Aqueous	30-Jan-14 12:15	31-Jan-14 11:08
N0134-10	REW-12-20140130-01	Aqueous	30-Jan-14 09:10	31-Jan-14 11:08
N0134-11	TRIPBLANK	Aqueous	30-Jan-14 00:00	31-Jan-14 11:08

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0134

RSK175, Dissolved Gases by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
RSK175

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V7

Instrument Type: GC-FID

Description: HP5890 II
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] CARBOXEM 1006
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

N/A.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA.

F. Dilutions:

The following samples were analyzed at dilution:

MW-267S-20140130-01 (N0134-01BDL) : Dilution Factor: 5
MW-267M-20140130-01 (N0134-02BDL) : Dilution Factor: 50
MW-268M-20140130-01 (N0134-03BDL) : Dilution Factor: 5
MW-561-20140130-01 (N0134-04BDL) : Dilution Factor: 10
MW-553-20140130-01 (N0134-05BDL) : Dilution Factor: 20
REW-6-20140130-01 (N0134-06BDL) : Dilution Factor: 10
REW-7-20140130-01 (N0134-07BDL) : Dilution Factor: 4
REW-9-20140130-01 (N0134-09BDL) : Dilution Factor: 2

REW-12-20140130-01 (N0134-10BDL) : Dilution Factor: 5

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

REW-7-20140130-01 (N0134-07B) Methane due to M7

VSTD005U7 Ethane , Ethene, Methane due to M7

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 2/12/2014 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0134

SW846 6010C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: OPTIMA3
Instrument Type: ICP

Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

Serial Dilution analysis was performed on sample: REW-12-20140130-01 (N0134-10ESD).

Percent difference was within the QC limits.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 02/06/14

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0134

EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B,
SM 4500P-E OP, SM 5310B TOC

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

IV. PREPARATION

Samples were prepared following procedures in laboratory test code:
EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: IC1
Instrument Type: IC
Description: DX-500
Manufacturer: Dionex
Model: DX-500
GC Column used: 0.25 m X 4 mm ID [um thickness] AS14A-7 capillary column.

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: TOC1
Instrument Type: TOC
Description: TOC
Manufacturer: Tekmar Dohrman
Model: Apollo 9000

Instrument Code: WC03
Instrument Type: Probe
Description: pH Meter
Manufacturer: Oakton Instruments
Model: Bench 2700 Series

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

The LCS/LCSD-75885 for SM 5310B TOC analysis method control limit is 20 while these LCS duplicates had a 20.05% RPD. Due to forms limitations, this result is R flagged.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-268M-20140130-01 (N0134-03AMS), MW-268M-20140130-01 (N0134-03AMSD), MW-561-20140130-01 (N0134-04DMS), MW-561-20140130-01 (N0134-04DMSD), REW-8-20140130-01 (N0134-08AMS) and REW-8-20140130-01 (N0134-08AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

E. Dilutions:

The following samples were analyzed at dilution:

MW-267S-20140130-01 (N0134-01A), dilution factor: 10 for Acetic Acid

MW-267M-20140130-01 (N0134-02A), dilution factor: 10 for Acetic Acid

MW-267M-20140130-01 (N0134-02D), dilution factor: 2 for Alkalinity, Total (As CaCO₃) and Orthophosphate (As PO₄)

MW-561-20140130-01 (N0134-04A), dilution factor: 10 for Acetic Acid

MW-561-20140130-01 (N0134-04C), dilution factor: 5 for Organic Carbon, Total

MW-553-20140130-01 (N0134-05A), dilution factor: 10 for Acetic Acid

REW-6-20140130-01 (N0134-06A), dilution factor: 10 for Acetic Acid

REW-7-20140130-01 (N0134-07A), dilution factor: 3 for Acetic Acid

REW-8-20140130-01 (N0134-08D), dilution factor: 2 for Orthophosphate (As PO₄)

REW-9-20140130-01 (N0134-09A), dilution factor: 10 for Acetic Acid

REW-9-20140130-01 (N0134-09D), dilution factor: 2 for Orthophosphate (As PO₄)

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 02/12/2014

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267S-20140130-01

Lab ID: N0134-01

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	3000	E	0.58	µg/L		102/07/2014 10:56	75852
Ethane	ND		1.2	µg/L		102/07/2014 10:56	75852
Ethene	15		1.5	µg/L		102/07/2014 10:56	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267S-20140130-01

Lab ID: N0134-01

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	4400		3.1	µg/L		5 02/07/2014 13:50	75852
Ethane		ND	6.3	µg/L		5 02/07/2014 13:50	75852
Ethene		ND	7.9	µg/L		5 02/07/2014 13:50	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267M-20140130-01

Lab ID: N0134-02

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	24000	E	0.58	µg/L		102/07/2014 11:03	75852
Ethane		ND	1.2	µg/L		102/07/2014 11:03	75852
Ethene		5.5	1.5	µg/L		102/07/2014 11:03	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267M-20140130-01

Lab ID: N0134-02

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	27000		31	µg/L	50	02/07/2014 13:00	75852
Ethane		ND	63	µg/L	50	02/07/2014 13:00	75852
Ethene		170	79	µg/L	50	02/07/2014 13:00	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140130-01

Lab ID: N0134-03

Project: Raytheon - Wayland

Collection Date: 01/30/14 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	2600	E	0.58	µg/L		102/07/2014 11:11	75852
Ethane	44		1.2	µg/L		102/07/2014 11:11	75852
Ethene	9.6		1.5	µg/L		102/07/2014 11:11	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140130-01

Lab ID: N0134-03

Project: Raytheon - Wayland

Collection Date: 01/30/14 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	1900		3.1	µg/L	5	02/07/2014 13:20	75852
Ethane	ND		6.3	µg/L	5	02/07/2014 13:20	75852
Ethene	21		7.9	µg/L	5	02/07/2014 13:20	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140130-01

Lab ID: N0134-04

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	10000	E	0.58	µg/L		102/07/2014 11:20	75852
Ethane	43		1.2	µg/L		102/07/2014 11:20	75852
Ethene	21		1.5	µg/L		102/07/2014 11:20	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140130-01

Lab ID: N0134-04

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	7000		6.1	µg/L		10 02/07/2014 13:27	75852
Ethane	ND		13	µg/L		10 02/07/2014 13:27	75852
Ethene	19		16	µg/L		10 02/07/2014 13:27	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140130-01

Lab ID: N0134-05

Project: Raytheon - Wayland

Collection Date: 01/30/14 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	20000	E	0.58	µg/L		102/07/2014 11:28	75852
Ethane	45		1.2	µg/L		102/07/2014 11:28	75852
Ethene	ND		1.5	µg/L		102/07/2014 11:28	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140130-01

Lab ID: N0134-05

Project: Raytheon - Wayland

Collection Date: 01/30/14 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	18000			12 µg/L		20 02/07/2014 15:20	75852
Ethane		ND		25 µg/L		20 02/07/2014 15:20	75852
Ethene		ND		32 µg/L		20 02/07/2014 15:20	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140130-01

Lab ID: N0134-06

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	9100	E	0.58	µg/L		102/07/2014 11:36	75852
Ethane	49		1.2	µg/L		102/07/2014 11:36	75852
Ethene	3.3		1.5	µg/L		102/07/2014 11:36	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140130-01

Lab ID: N0134-06

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	7200		6.1	µg/L		10 02/07/2014 14:23	75852
Ethane		ND	13	µg/L		10 02/07/2014 14:23	75852
Ethene		ND	16	µg/L		10 02/07/2014 14:23	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140130-01

Lab ID: N0134-07

Project: Raytheon - Wayland

Collection Date: 01/30/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	4100	E	0.58	µg/L		102/07/2014 11:45	75852
Ethane	89		1.2	µg/L		102/07/2014 11:45	75852
Ethene	61		1.5	µg/L		102/07/2014 11:45	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140130-01

Lab ID: N0134-07

Project: Raytheon - Wayland

Collection Date: 01/30/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	4100		2.5	µg/L		4 02/07/2014 14:31	75852
Ethane	ND		5.1	µg/L		4 02/07/2014 14:31	75852
Ethene	36		6.3	µg/L		4 02/07/2014 14:31	75852

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140130-01

Lab ID: N0134-08

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	830		0.61	µg/L		102/10/2014 11:20	75868
Ethane	ND		1.3	µg/L		102/10/2014 11:20	75868
Ethene	ND		1.6	µg/L		102/10/2014 11:20	75868

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140130-01

Lab ID: N0134-09

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	1400	E	0.61	µg/L		102/10/2014 11:32	75868
Ethane		ND	1.3	µg/L		102/10/2014 11:32	75868
Ethene		ND	1.6	µg/L		102/10/2014 11:32	75868

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140130-01

Lab ID: N0134-09

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID	
RSK175 -- Dissolved Gases by GC-FID							RSK175	
Methane		1900		1.2		µg/L	2 02/10/2014 12:08	75868
Ethane		ND		2.5		µg/L	2 02/10/2014 12:08	75868
Ethene		ND		3.2		µg/L	2 02/10/2014 12:08	75868

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140130-01

Lab ID: N0134-10

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	1200	E	0.61	µg/L		102/10/2014 11:40	75868
Ethane	ND		1.3	µg/L		102/10/2014 11:40	75868
Ethene	2.6		1.6	µg/L		102/10/2014 11:40	75868

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140130-01

Lab ID: N0134-10

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	1400		3.1	µg/L		5 02/10/2014 13:09	75868
Ethane		ND	6.3	µg/L		5 02/10/2014 13:09	75868
Ethene		ND	7.9	µg/L		5 02/10/2014 13:09	75868

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: TRIPBLANK

Lab ID: N0134-11

Project: Raytheon - Wayland

Collection Date: 01/30/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	1.1		0.60	µg/L		102/10/2014 11:07	75868
Ethane	ND		1.2	µg/L		102/10/2014 11:07	75868
Ethene	ND		1.5	µg/L		102/10/2014 11:07	75868

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0134

RSK175

Project: Raytheon - Wayland

RSK175 -- Dissolved Gases by GC-FID

Sample ID:	MB-75852	SampType:	MBLK	TestCode:	RSK175	Prep Date:	02/07/14 7:03	Run ID:	V7_140207A				
Client ID:	MB-75852	Batch ID:	75852	Units:	µg/L	Analysis Date:	02/07/14 9:39	SeqNo:	2045614				
Analyte	Result	MDL	MDL	RL	RL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.37	0.36	0.60	0.61								
Ethane	ND	0.53	0.51	1.2	1.3								
Ethene	ND	0.73	0.71	1.5	1.6								

Sample ID:	MB-75868	SampType:	MBLK	TestCode:	RSK175	Prep Date:	02/10/14 8:46	Run ID:	V7_140210A				
Client ID:	MB-75868	Batch ID:	75868	Units:	µg/L	Analysis Date:	02/10/14 9:57	SeqNo:	2045625				
Analyte	Result	MDL	MDL	RL	RL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36	0.36	0.60	0.60								
Ethane	ND	0.51	0.51	1.2	1.2								
Ethene	ND	0.71	0.71	1.5	1.5								

Sample ID:	LCS-75852	SampType:	LCS	TestCode:	RSK175	Prep Date:	02/07/14 7:03	Run ID:	V7_140207A				
Client ID:	LCS-75852	Batch ID:	75852	Units:	µg/L	Analysis Date:	02/07/14 8:54	SeqNo:	2045612				
Analyte	Result	MDL	MDL	RL	RL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	45.09	0.36	0.36	0.60	0.60	46.29	0	97.4	75	125	0		
Ethane	106.0	0.51	0.51	1.2	1.2	87.43	0	121	75	125	0		
Ethene	66.77	0.71	0.71	1.5	1.5	81.26	0	82.2	75	125	0		

Sample ID:	LCS-75868	SampType:	LCS	TestCode:	RSK175	Prep Date:	02/10/14 8:46	Run ID:	V7_140210A				
Client ID:	LCS-75868	Batch ID:	75868	Units:	µg/L	Analysis Date:	02/10/14 9:21	SeqNo:	2045623				
Analyte	Result	MDL	MDL	RL	RL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	36.50	0.36	0.36	0.60	0.60	46.29	0	78.9	75	125	0		
Ethane	106.1	0.51	0.51	1.2	1.2	87.43	0	121	75	125	0		
Ethene	72.97	0.71	0.71	1.5	1.5	81.26	0	89.8	75	125	0		

Sample ID:	LCSD-75852	SampType:	LCSD	TestCode:	RSK175	Prep Date:	02/07/14 7:03	Run ID:	V7_140207A				
Client ID:	LCSD-75852	Batch ID:	75852	Units:	µg/L	Analysis Date:	02/07/14 9:13	SeqNo:	2045613				
Analyte	Result	MDL	MDL	RL	RL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	36.56	0.36	0.36	0.60	0.60	46.29	0	79.0	75	125	45.09	20.9	30
Ethane	108.2	0.51	0.51	1.2	1.2	87.43	0	124	75	125	106.0	2.04	30
Ethene	68.67	0.71	0.71	1.5	1.5	81.26	0	84.5	75	125	66.77	2.81	30

Qualifiers: ND - Not Detected at the MDL

J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0134
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID: LCSD-75868 **SampType:** LCSD **TestCode:** RSK175 **Prep Date:** 02/10/14 8:46 **Run ID:** V7_140210A
Client ID: LCSD-75868 **Batch ID:** 75868 **Units:** µg/L **Analysis Date:** 02/10/14 9:39 **SeqNo:** 2045624

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	36.78	0.36	0.60	46.29	0	79.5	75	125	36.50	0.753	30	
Ethane	104.5	0.51	1.2	87.43	0	120	75	125	106.1	1.52	30	
Ethene	68.96	0.71	1.5	81.26	0	84.9	75	125	72.97	5.65	30	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-267S-20140130-01
Lab ID: N0134-01

Project: Raytheon - Wayland
Collection Date: 01/30/14 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	53000		200	ug/L	1	02/03/2014 16:01	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-267M-20140130-01
Lab ID: N0134-02

Project: Raytheon - Wayland
Collection Date: 01/30/14 12:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	140000		200	ug/L	1	02/03/2014 16:04	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-268M-20140130-01
Lab ID: N0134-03

Project: Raytheon - Wayland
Collection Date: 01/30/14 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	23000		200	ug/L	1	02/03/2014 16:08	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-561-20140130-01
Lab ID: N0134-04

Project: Raytheon - Wayland
Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	26000		200	ug/L	1	02/03/2014 16:11	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140130-01

Lab ID: N0134-05

Project: Raytheon - Wayland

Collection Date: 01/30/14 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	79000		200	ug/L	1	02/03/2014 16:15	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-6-20140130-01
Lab ID: N0134-06

Project: Raytheon - Wayland
Collection Date: 01/30/14 9:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	63000		200	ug/L	1	02/03/2014 16:25	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-7-20140130-01
Lab ID: N0134-07

Project: Raytheon - Wayland
Collection Date: 01/30/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	29000		200	ug/L	1	02/03/2014 16:29	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-8-20140130-01
Lab ID: N0134-08

Project: Raytheon - Wayland
Collection Date: 01/30/14 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	8600		200	ug/L	1	02/03/2014 16:33	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-9-20140130-01
Lab ID: N0134-09

Project: Raytheon - Wayland
Collection Date: 01/30/14 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	32000		200	ug/L	1	02/03/2014 16:36	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/06/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-12-20140130-01
Lab ID: N0134-10

Project: Raytheon - Wayland
Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	30000		200	ug/L	1	02/03/2014 16:40	75820

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0134

SW6010_W

Project: Raytheon - Wayland

SW846 6010C -- Metals by ICP

Sample ID: MB-75820	SampType: MBLK	TestCode: SW6010_W	Prep Date: 02/03/14 9:35	Run ID: OPTIMA3_140203E
Client ID: MB-75820	Batch ID: 75820	Units: ug/L	Analysis Date: 02/03/14 15:50	SeqNo: 2044245
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	ND	31	0	99.8
			SPK value	LowLimit
			RL	HighLimit
			200	120
			%RPD	RPDLimit
			0	0

Sample ID: LCS-75820	SampType: LCS	TestCode: SW6010_W	Prep Date: 02/03/14 9:35	Run ID: OPTIMA3_140203E
Client ID: LCS-75820	Batch ID: 75820	Units: ug/L	Analysis Date: 02/03/14 15:54	SeqNo: 2044246
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	4543	31	0	99.8
			SPK value	LowLimit
			RL	HighLimit
			200	120
			%RPD	RPDLimit
			0	0

Sample ID: LCSD-75820	SampType: LCSD	TestCode: SW6010_W	Prep Date: 02/03/14 9:35	Run ID: OPTIMA3_140203E
Client ID: LCSD-75820	Batch ID: 75820	Units: ug/L	Analysis Date: 02/03/14 15:57	SeqNo: 2044247
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	4858	31	0	107
			SPK value	LowLimit
			RL	HighLimit
			200	120
			%RPD	RPDLimit
			4543	6.7

Sample ID: N0134-10ESD	SampType: SD	TestCode: SW6010_W	Prep Date: 02/03/14 9:35	Run ID: OPTIMA3_140203E
Client ID: REW-12-20140130-0	Batch ID: 75820	Units: ug/L	Analysis Date: 02/03/14 16:43	SeqNo: 2044260
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	29300	160	0	0
			SPK value	LowLimit
			RL	HighLimit
			1000	0
			%RPD	RPDLimit
			29870	1.93

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.01.30.0842 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267S-20140130-01

Lab ID: N0134-01

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	0.72	BJ	5.0	mg/L		1 02/06/2014 12:33	75833
Acetic Acid	400		50	mg/L		10 02/07/2014 9:38	75833
Propionic Acid	ND		5.0	mg/L		1 02/06/2014 12:33	75833
Butyric Acid	1.3	J	5.0	mg/L		1 02/06/2014 12:33	75833
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	44	B	2.0	mg/L		1 01/31/2014 13:29	75813
Nitrogen, Nitrate (As N)	0.067	BJ	0.13	mg/L		1 01/31/2014 13:29	75813
Sulfate	ND		5.0	mg/L		1 01/31/2014 13:29	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3		1 02/03/2014 10:45	75816
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.8		1.0	S.U.		1 01/31/2014 12:00	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.45		0.050	mg/L		1 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	250		10	mg/L		1 02/11/2014 12:54	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267M-20140130-01

Lab ID: N0134-02

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 02/06/2014 12:55	75833
Acetic Acid	550		50	mg/L		10 02/07/2014 11:11	75833
Propionic Acid	9.6		5.0	mg/L		1 02/06/2014 12:55	75833
Butyric Acid	6.7		5.0	mg/L		1 02/06/2014 12:55	75833
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	32	B	2.0	mg/L		1 01/31/2014 13:41	75813
Nitrogen, Nitrate (As N)	0.081	BJ	0.13	mg/L		1 01/31/2014 13:41	75813
Sulfate	0.74	J	5.0	mg/L		1 01/31/2014 13:41	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	350		40	mg/L CaCO3		2 02/03/2014 10:45	75816
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.2		1.0	S.U.		1 01/31/2014 12:03	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.39		0.10	mg/L		2 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	140		10	mg/L		1 02/11/2014 13:17	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140130-01

Lab ID: N0134-03

Project: Raytheon - Wayland

Collection Date: 01/30/14 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 02/06/2014 13:16	75833
Acetic Acid	1.5	J	5.0	mg/L		1 02/06/2014 13:16	75833
Propionic Acid	ND		5.0	mg/L		1 02/06/2014 13:16	75833
Butyric Acid	ND		5.0	mg/L		1 02/06/2014 13:16	75833
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	21	B	2.0	mg/L		1 01/31/2014 13:53	75813
Nitrogen, Nitrate (As N)	0.069	BJ	0.13	mg/L		1 01/31/2014 13:53	75813
Sulfate	41		5.0	mg/L		1 01/31/2014 13:53	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	84		20	mg/L CaCO3		1 02/03/2014 10:45	75816
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.6		1.0	S.U.		1 01/31/2014 12:06	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.31		0.050	mg/L		1 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	2.8	J	10	mg/L		1 02/11/2014 13:40	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140130-01

Lab ID: N0134-04

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	0.52	BJ	5.0	mg/L		1 02/06/2014 14:20	75833
Acetic Acid	320		50	mg/L		10 02/07/2014 10:21	75833
Propionic Acid	1.1	J	5.0	mg/L		1 02/06/2014 14:20	75833
Butyric Acid	2.8	J	5.0	mg/L		1 02/06/2014 14:20	75833
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	27	B	2.0	mg/L		1 01/31/2014 14:05	75813
Nitrogen, Nitrate (As N)	0.070	BJ	0.13	mg/L		1 01/31/2014 14:05	75813
Sulfate	ND		5.0	mg/L		1 01/31/2014 14:05	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3		1 02/03/2014 10:45	75816
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 01/31/2014 12:09	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.28		0.050	mg/L		1 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	500		50	mg/L		5 02/11/2014 17:17	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140130-01

Lab ID: N0134-05

Project: Raytheon - Wayland

Collection Date: 01/30/14 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	1.6	J	5.0	mg/L		1 02/07/2014 13:17	75848
Acetic Acid	510		50	mg/L		10 02/10/2014 8:37	75848
Propionic Acid	7.8		5.0	mg/L		1 02/07/2014 13:17	75848
Butyric Acid	16		5.0	mg/L		1 02/07/2014 13:17	75848
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	27	B	2.0	mg/L		1 01/31/2014 15:03	75813
Nitrogen, Nitrate (As N)	0.067	BJ	0.13	mg/L		1 01/31/2014 15:03	75813
Sulfate	ND		5.0	mg/L		1 01/31/2014 15:03	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	230		20	mg/L CaCO3		1 02/03/2014 10:45	75816
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.8		1.0	S.U.		1 01/31/2014 12:12	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.22		0.050	mg/L		1 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	160		10	mg/L		1 02/11/2014 15:11	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140130-01

Lab ID: N0134-06

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	0.71	J	5.0	mg/L		1 02/07/2014 13:39	75848
Acetic Acid	310		50	mg/L		10 02/10/2014 8:59	75848
Propionic Acid	0.54	J	5.0	mg/L		1 02/07/2014 13:39	75848
Butyric Acid	4.8	J	5.0	mg/L		1 02/07/2014 13:39	75848
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	37	B	2.0	mg/L		1 01/31/2014 15:15	75813
Nitrogen, Nitrate (As N)	0.071	BJ	0.13	mg/L		1 01/31/2014 15:15	75813
Sulfate	14		5.0	mg/L		1 01/31/2014 15:15	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	130		20	mg/L CaCO3		1 02/06/2014 9:30	75838
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 01/31/2014 12:15	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.36		0.050	mg/L		1 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	110		10	mg/L		1 02/11/2014 15:33	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140130-01

Lab ID: N0134-07

Project: Raytheon - Wayland

Collection Date: 01/30/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	0.37	J	5.0	mg/L		1 02/07/2014 14:00	75848
Acetic Acid	140		15	mg/L		3 02/10/2014 9:20	75848
Propionic Acid	0.89	J	5.0	mg/L		1 02/07/2014 14:00	75848
Butyric Acid	0.70	J	5.0	mg/L		1 02/07/2014 14:00	75848
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	20	B	2.0	mg/L		1 01/31/2014 15:27	75813
Nitrogen, Nitrate (As N)	0.074	BJ	0.13	mg/L		1 01/31/2014 15:27	75813
Sulfate	14		5.0	mg/L		1 01/31/2014 15:27	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	92		20	mg/L CaCO3		1 02/06/2014 9:30	75838
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.6		1.0	S.U.		1 01/31/2014 12:18	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.45		0.050	mg/L		1 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	40		10	mg/L		1 02/11/2014 15:54	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140130-01

Lab ID: N0134-08

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 02/07/2014 14:22	75848
Acetic Acid	ND		5.0	mg/L		1 02/07/2014 14:22	75848
Propionic Acid	ND		5.0	mg/L		1 02/07/2014 14:22	75848
Butyric Acid	ND		5.0	mg/L		1 02/07/2014 14:22	75848
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	1.4	BJ	2.0	mg/L		1 01/31/2014 15:39	75813
Nitrogen, Nitrate (As N)	0.080	BJ	0.13	mg/L		1 01/31/2014 15:39	75813
Sulfate	8.7		5.0	mg/L		1 01/31/2014 15:39	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 02/06/2014 9:30	75838
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 01/31/2014 12:21	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.45		0.10	mg/L		2 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	13		10	mg/L		1 02/11/2014 16:15	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140130-01

Lab ID: N0134-09

Project: Raytheon - Wayland

Collection Date: 01/30/14 12:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids				E300_VOA_W
Lactic Acid	ND	5.0 mg/L	1 02/07/2014 15:47	75848
Acetic Acid	280	50 mg/L	10 02/10/2014 9:42	75848
Propionic Acid	2.1 J	5.0 mg/L	1 02/07/2014 15:47	75848
Butyric Acid	9.1	5.0 mg/L	1 02/07/2014 15:47	75848
EPA 300.0 -- Anions by Ion Chromotography (LOW)				E300IC_W
Chloride	22 B	2.0 mg/L	1 01/31/2014 15:50	75813
Nitrogen, Nitrate (As N)	0.066 BJ	0.13 mg/L	1 01/31/2014 15:50	75813
Sulfate	ND	5.0 mg/L	1 01/31/2014 15:50	75813
SM 2320B -- Alkalinity (Total)				SM2320_W
Alkalinity, Total (As CaCO3)	170	20 mg/L CaCO3	1 02/06/2014 9:30	75838
SM 4500 H+ B -- pH VALUE				SM4500_H+
pH	5.9	1.0 S.U.	1 01/31/2014 12:24	R79606
SM 4500P-E OP -- Orthophosphate				SM4500_OP_W
Orthophosphate (As PO4)	0.23	0.10 mg/L	2 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion				SM5310B_TOC_W
Organic Carbon, Total	85	10 mg/L	1 02/11/2014 16:35	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/12/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140130-01

Lab ID: N0134-10

Project: Raytheon - Wayland

Collection Date: 01/30/14 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	0.67	J	5.0	mg/L		1 02/07/2014 15:26	75848
Acetic Acid	83		5.0	mg/L		1 02/07/2014 15:26	75848
Propionic Acid	0.54	J	5.0	mg/L		1 02/07/2014 15:26	75848
Butyric Acid	1.1	J	5.0	mg/L		1 02/07/2014 15:26	75848
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	33	B	2.0	mg/L		1 01/31/2014 16:02	75813
Nitrogen, Nitrate (As N)	0.095	BJ	0.13	mg/L		1 01/31/2014 16:02	75813
Sulfate	31		5.0	mg/L		1 01/31/2014 16:02	75813
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	100		20	mg/L CaCO3		1 02/06/2014 9:30	75838
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 01/31/2014 12:27	R79606
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.24		0.050	mg/L		1 01/31/2014 15:47	75815
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	25		10	mg/L		1 02/11/2014 16:57	75885

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0134

E300_VOA_W

Project: Raytheon - Wayland

EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: MB-75833	SampType: MBLK	TestCode: E300_VOA_W	Prep Date: 02/06/14 8:22	Run ID: IC1_140206A						
Client ID: MB-75833	Batch ID: 75833	Units: mg/L	Analysis Date: 02/06/14 8:58	SeqNo: 2045222						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	1.380	0.18								J
Acetic Acid	ND	0.20								
Propionic Acid	ND	0.22								
Butyric Acid	ND	0.33								

Sample ID: MB-75848	SampType: MBLK	TestCode: E300_VOA_W	Prep Date: 02/07/14 8:07	Run ID: IC1_140207A						
Client ID: MB-75848	Batch ID: 75848	Units: mg/L	Analysis Date: 02/07/14 12:15	SeqNo: 2045643						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	ND	0.18								
Acetic Acid	ND	0.20								
Propionic Acid	ND	0.22								
Butyric Acid	ND	0.33								

Sample ID: LCS-75833	SampType: LCS	TestCode: E300_VOA_W	Prep Date: 02/06/14 8:22	Run ID: IC1_140206A						
Client ID: LCS-75833	Batch ID: 75833	Units: mg/L	Analysis Date: 02/06/14 9:20	SeqNo: 2045223						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	51.54	0.18	0	103	75	125	0			B
Acetic Acid	47.08	0.20	0	94.2	75	125	0			
Propionic Acid	45.95	0.22	0	91.9	75	125	0			
Butyric Acid	46.57	0.33	0	93.1	75	125	0			

Sample ID: LCS-75848	SampType: LCS	TestCode: E300_VOA_W	Prep Date: 02/07/14 8:07	Run ID: IC1_140207A						
Client ID: LCS-75848	Batch ID: 75848	Units: mg/L	Analysis Date: 02/07/14 12:56	SeqNo: 2045644						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	57.16	0.18	0	114	75	125	0			
Acetic Acid	50.15	0.20	0	100	75	125	0			
Propionic Acid	48.68	0.22	0	97.4	75	125	0			
Butyric Acid	46.77	0.33	0	93.5	75	125	0			

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

RL - Reporting Limit

R - RPD outside accepted recovery limits

m14.01.30.0842

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0134

Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300_VOA_W

EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: N0134-03AMS	SampType: MS	TestCode: E300_VOA_W	Prep Date: 02/06/14 8:22	Run ID: IC1_140206A								
Client ID: MW-268M-20140130	Batch ID: 75833	Units: mg/L	Analysis Date: 02/06/14 13:37	SeqNo: 2045206								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	59.49	0.18	5.0	50.00	0	119	75	125	0			B
Acetic Acid	49.53	0.20	5.0	50.00	1.494	96.1	75	125	0			
Propionic Acid	45.67	0.22	5.0	50.00	0	91.3	75	125	0			
Butyric Acid	47.34	0.33	5.0	50.00	0	94.7	75	125	0			

Sample ID: N0134-08AMS	SampType: MS	TestCode: E300_VOA_W	Prep Date: 02/07/14 8:07	Run ID: IC1_140207A								
Client ID: REW-8-20140130-01	Batch ID: 75848	Units: mg/L	Analysis Date: 02/07/14 14:43	SeqNo: 2045647								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	59.46	0.18	5.0	50.00	0	119	75	125	0			
Acetic Acid	49.87	0.20	5.0	50.00	0	99.7	75	125	0			
Propionic Acid	47.76	0.22	5.0	50.00	0	95.5	75	125	0			
Butyric Acid	46.77	0.33	5.0	50.00	0	93.5	75	125	0			

Sample ID: N0134-03AMSD	SampType: MSD	TestCode: E300_VOA_W	Prep Date: 02/06/14 8:22	Run ID: IC1_140206A								
Client ID: MW-268M-20140130	Batch ID: 75833	Units: mg/L	Analysis Date: 02/06/14 13:59	SeqNo: 2045207								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	60.86	0.18	5.0	50.00	0	122	75	125	59.49	2.28	25	B
Acetic Acid	50.29	0.20	5.0	50.00	1.494	97.6	75	125	49.53	1.51	25	
Propionic Acid	46.93	0.22	5.0	50.00	0	93.9	75	125	45.67	2.72	25	
Butyric Acid	48.68	0.33	5.0	50.00	0	97.4	75	125	47.34	2.79	25	

Sample ID: N0134-08AMSD	SampType: MSD	TestCode: E300_VOA_W	Prep Date: 02/07/14 8:07	Run ID: IC1_140207A								
Client ID: REW-8-20140130-01	Batch ID: 75848	Units: mg/L	Analysis Date: 02/07/14 15:04	SeqNo: 2045648								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	60.47	0.18	5.0	50.00	0	121	75	125	59.46	1.69	25	
Acetic Acid	50.24	0.20	5.0	50.00	0	100	75	125	49.87	0.741	25	
Propionic Acid	47.92	0.22	5.0	50.00	0	95.8	75	125	47.76	0.337	25	
Butyric Acid	46.88	0.33	5.0	50.00	0	93.8	75	125	46.77	0.244	25	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.01.30.0842 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0134
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W
EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: MB-75813	SampType: MBLK	TestCode: E300IC_W	Prep Date: 01/31/14 11:25	Run ID: IC1_140131A							
Client ID: MB-75813	Batch ID: 75813	Units: mg/L	Analysis Date: 01/31/14 13:06	SeqNo: 2044059							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.3631	0.078	2.0								J
Nitrogen, Nitrate (As N)	0.08116	0.023	0.13								J
Sulfate	ND	0.61	5.0								

Sample ID: LCS-75813	SampType: LCS	TestCode: E300IC_W	Prep Date: 01/31/14 11:25	Run ID: IC1_140131A							
Client ID: LCS-75813	Batch ID: 75813	Units: mg/L	Analysis Date: 01/31/14 13:18	SeqNo: 2044060							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.18	0.078	2.0	16.00	0	94.9	90	11.0	0		B
Nitrogen, Nitrate (As N)	0.9385	0.023	0.13	1.000	0	93.9	90	11.0	0		B
Sulfate	37.74	0.61	5.0	40.00	0	94.3	90	11.0	0		

Sample ID: N0134-04DMS	SampType: MS	TestCode: E300IC_W	Prep Date: 01/31/14 11:25	Run ID: IC1_140131A							
Client ID: MW-561-20140130-0	Batch ID: 75813	Units: mg/L	Analysis Date: 01/31/14 14:16	SeqNo: 2044068							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	41.86	0.078	2.0	16.00	26.66	95.0	80	12.0	0		B
Nitrogen, Nitrate (As N)	0.9656	0.023	0.13	1.000	0.07002	89.6	80	12.0	0		B
Sulfate	39.10	0.61	5.0	40.00	0	97.7	80	12.0	0		

Sample ID: N0134-04DMSD	SampType: MSD	TestCode: E300IC_W	Prep Date: 01/31/14 11:25	Run ID: IC1_140131A							
Client ID: MW-561-20140130-0	Batch ID: 75813	Units: mg/L	Analysis Date: 01/31/14 14:28	SeqNo: 2044069							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	42.60	0.078	2.0	16.00	26.66	99.6	80	12.0	41.86	1.74	20
Nitrogen, Nitrate (As N)	0.9915	0.023	0.13	1.000	0.07002	92.1	80	12.0	0.9656	2.65	20
Sulfate	40.39	0.61	5.0	40.00	0	101	80	12.0	39.10	3.25	20

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.01.30.0842 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0134
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM2320_W
SM 2320B -- Alkalinity (Total)

Sample ID: MB-75816	SampType: MBLK	TestCode: SM2320_W	Prep Date: 02/03/14 10:45	Run ID: MANUAL_140203A
Client ID: MB-75816	Batch ID: 75816	Units: mg/L CaCO3	Analysis Date: 02/03/14 10:45	SeqNo: 2044136
Analyte	Result	MDL	SPK value	SPK Ref Val
	ND	20	%REC	LowLimit HighLimit
Alkalinity, Total (As CaCO3)		20	RPD Ref Val	%RPD RPDLimit
				Qual

Sample ID: MB-75838	SampType: MBLK	TestCode: SM2320_W	Prep Date: 02/06/14 9:30	Run ID: MANUAL_140206A
Client ID: MB-75838	Batch ID: 75838	Units: mg/L CaCO3	Analysis Date: 02/06/14 9:30	SeqNo: 2045005
Analyte	Result	MDL	SPK value	SPK Ref Val
	ND	20	%REC	LowLimit HighLimit
Alkalinity, Total (As CaCO3)		20	RPD Ref Val	%RPD RPDLimit
				Qual

Sample ID: LCS-75816	SampType: LCS	TestCode: SM2320_W	Prep Date: 02/03/14 10:45	Run ID: MANUAL_140203A
Client ID: LCS-75816	Batch ID: 75816	Units: mg/L CaCO3	Analysis Date: 02/03/14 10:45	SeqNo: 2044134
Analyte	Result	MDL	SPK value	SPK Ref Val
	101.0	20	100.0	0
Alkalinity, Total (As CaCO3)		20	%REC	LowLimit HighLimit
			80	120
			RPD Ref Val	%RPD RPDLimit
				Qual

Sample ID: LCS-75838	SampType: LCS	TestCode: SM2320_W	Prep Date: 02/06/14 9:30	Run ID: MANUAL_140206A
Client ID: LCS-75838	Batch ID: 75838	Units: mg/L CaCO3	Analysis Date: 02/06/14 9:30	SeqNo: 2045003
Analyte	Result	MDL	SPK value	SPK Ref Val
	97.00	20	100.0	0
Alkalinity, Total (As CaCO3)		20	%REC	LowLimit HighLimit
			97.0	80
			120	
			RPD Ref Val	%RPD RPDLimit
				Qual

Sample ID: LCSD-75816	SampType: LCSD	TestCode: SM2320_W	Prep Date: 02/03/14 10:45	Run ID: MANUAL_140203A
Client ID: LCSD-75816	Batch ID: 75816	Units: mg/L CaCO3	Analysis Date: 02/03/14 10:45	SeqNo: 2044135
Analyte	Result	MDL	SPK value	SPK Ref Val
	99.00	20	100.0	0
Alkalinity, Total (As CaCO3)		20	%REC	LowLimit HighLimit
			99.0	80
			120	
			RPD Ref Val	%RPD RPDLimit
				Qual

Sample ID: LCSD-75838	SampType: LCSD	TestCode: SM2320_W	Prep Date: 02/06/14 9:30	Run ID: MANUAL_140206A
Client ID: LCSD-75838	Batch ID: 75838	Units: mg/L CaCO3	Analysis Date: 02/06/14 9:30	SeqNo: 2045004
Analyte	Result	MDL	SPK value	SPK Ref Val
	99.00	20	100.0	0
Alkalinity, Total (As CaCO3)		20	%REC	LowLimit HighLimit
			99.0	80
			120	
			RPD Ref Val	%RPD RPDLimit
				Qual

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.01.30.0842 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0134

SM4500_OP_W

Project: Raytheon - Wayland

SM 4500P-E OP -- Orthophosphate

Sample ID: MB-75815	SampType: MBLK	TestCode: SM4500_OP_W	Prep Date: 01/31/14 15:47	Run ID: SPEC2_140131A
Client ID: MB-75815	Batch ID: 75815	Units: mg/L	Analysis Date: 01/31/14 15:47	SeqNo: 2044639
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	0.050	0	87.7
			SPK value	LowLimit
			0.4128	80
			RPD Ref Val	%RPD
			0	0
			HighLimit	RPDLimit
			1.20	20

Sample ID: LCS-75815	SampType: LCS	TestCode: SM4500_OP_W	Prep Date: 01/31/14 15:47	Run ID: SPEC2_140131A
Client ID: LCS-75815	Batch ID: 75815	Units: mg/L	Analysis Date: 01/31/14 15:47	SeqNo: 2044637
Analyte	Result	MDL	SPK Ref Val	%REC
	0.3620	0.050	0	87.7
			SPK value	LowLimit
			0.4128	80
			RPD Ref Val	%RPD
			0	0
			HighLimit	RPDLimit
			1.20	20

Sample ID: LCSD-75815	SampType: LCSD	TestCode: SM4500_OP_W	Prep Date: 01/31/14 15:47	Run ID: SPEC2_140131A
Client ID: LCSD-75815	Batch ID: 75815	Units: mg/L	Analysis Date: 01/31/14 15:47	SeqNo: 2044638
Analyte	Result	MDL	SPK Ref Val	%REC
	0.3650	0.050	0	88.4
			SPK value	LowLimit
			0.4128	80
			RPD Ref Val	%RPD
			0	0.3620
			HighLimit	RPDLimit
			1.20	0.825
			20	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.01.30.0842 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0134
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM5310B_TOC_W
SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: MB-75885	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 02/11/14 8:47	Run ID: TOC1_140211A	
Client ID: MB-75885	Batch ID: 75885	Units: mg/L	Analysis Date: 02/11/14 10:22	SeqNo: 2046228	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	ND	2.0	0	84.8	80 120
Organic Carbon, Total			SPK value	%RPD	RPDLimit
			60.00	0	0

Sample ID: LCS-75885	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 02/11/14 8:47	Run ID: TOC1_140211A	
Client ID: LCS-75885	Batch ID: 75885	Units: mg/L	Analysis Date: 02/11/14 10:43	SeqNo: 2046229	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	50.91	2.0	0	84.8	80 120
Organic Carbon, Total			SPK value	%RPD	RPDLimit
			60.00	0	0

Sample ID: LCSD-75885	SampType: LCSD	TestCode: SM5310B_TOC_W	Prep Date: 02/11/14 8:47	Run ID: TOC1_140211A	
Client ID: LCSD-75885	Batch ID: 75885	Units: mg/L	Analysis Date: 02/11/14 11:05	SeqNo: 2046230	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	62.25	2.0	0	104	80 120
Organic Carbon, Total			SPK value	%RPD	RPDLimit
			60.00	0	20.1

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.01.30.0842 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Report Date:
07-Feb-14 11:06



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY
Laboratory Report

Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Agnes Huntley

Project: Raytheon-Wayland
Project #: N0134

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB84120-01	MW-267S-20140130-01	Aqueous	30-Jan-14 12:50	31-Jan-14 16:45
SB84120-02	MW-267M-20140130-01	Aqueous	30-Jan-14 12:10	31-Jan-14 16:45
SB84120-03	MW-268M-20140130-01	Aqueous	30-Jan-14 11:25	31-Jan-14 16:45
SB84120-04	MW-561-20140130-01	Aqueous	30-Jan-14 09:10	31-Jan-14 16:45
SB84120-05	MW-553-20140130-01	Aqueous	30-Jan-14 10:30	31-Jan-14 16:45
SB84120-06	REW-6-20140130-01	Aqueous	30-Jan-14 09:55	31-Jan-14 16:45
SB84120-07	REW-7-20140130-01	Aqueous	30-Jan-14 10:50	31-Jan-14 16:45
SB84120-08	REW-8-20140130-01	Aqueous	30-Jan-14 12:55	31-Jan-14 16:45
SB84120-09	REW-9-20140130-01	Aqueous	30-Jan-14 12:15	31-Jan-14 16:45
SB84120-10	REW-12-20140130-01	Aqueous	30-Jan-14 09:10	31-Jan-14 16:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received -0.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client: Spectrum Analytical, Inc. - North Kingstown, RI
 Project: Raytheon-Wayland / N0134
 Work Order: SB84120
 Sample(s) received on: 1/31/2014
 Received by: Allison Edens

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-267S-20140130-01 SB84120-01	N0134	Aqueous	30-Jan-14 12:50	31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.350			mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-267M-20140130-01 SB84120-02	N0134	Aqueous	30-Jan-14 12:10	31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-268M-20140130-01 SB84120-03	N0134	Aqueous	30-Jan-14 11:25	31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.140	J		mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	-------	---	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-561-20140130-01 SB84120-04	N0134	Aqueous	30-Jan-14 09:10	31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.630			mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-553-20140130-01 SB84120-05	N0134	Aqueous	30-Jan-14 10:30	31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	< 0.200	U		mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	---------	---	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
REW-6-20140130-01 SB84120-06	N0134	Aqueous	30-Jan-14 09:55	31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample IdentificationREW-7-20140130-01
SB84120-07Client Project #
N0134Matrix
AqueousCollection Date/Time
30-Jan-14 10:50Received
31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	< 0.200	U	mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	---------	---	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-8-20140130-01
SB84120-08Client Project #
N0134Matrix
AqueousCollection Date/Time
30-Jan-14 12:55Received
31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.140	J	mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	-------	---	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-9-20140130-01
SB84120-09Client Project #
N0134Matrix
AqueousCollection Date/Time
30-Jan-14 12:15Received
31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	< 0.200	U	mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	---------	---	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-12-20140130-01
SB84120-10Client Project #
N0134Matrix
AqueousCollection Date/Time
30-Jan-14 09:10Received
31-Jan-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	< 0.200	U	mg/l	0.200	0.118	1	SM4500-NH3 C.	04-Feb-14	04-Feb-14	EEM	1402688	X
--------------	---------	---	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1402688 - General Preparation										
<u>Blank (1402688-BLK1)</u>										
Ammonia as N	< 0.200	U	mg/l	0.200						
<u>LCS (1402688-BS1)</u>										
Ammonia as N	4.83		mg/l	0.200	5.00		97	90-110		
<u>Reference (1402688-SRM1)</u>										
Ammonia as N	0.980		mg/l	0.200	1.04		95	84-116		

This laboratory report is not valid without an authorized signature on the cover page.

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk



CHAIN-OF-CUSTODY RECORD

WorkOrder : N0134

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 2/12/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0134

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
Spectrum Analytical, Inc. - Agawam, MA
11 Almgren Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	# Matrix	DUP/MIS/MSD	Mitkem Sample ID
MM-267S-20140130-01	01/30/2014 12:50	1	Aqueous	N0134-01F
MM-267M-20140130-01	01/30/2014 12:10	1	Aqueous	N0134-02F
MM-268M-20140130-01	01/30/2014 11:25	1	Aqueous	N0134-03F
MM-551-20140130-01	01/30/2014 09:10	1	Aqueous	N0134-04F
MM-553-20140130-01	01/30/2014 10:30	1	Aqueous	N0134-05F
REW-6-20140130-01	01/30/2014 09:55	1	Aqueous	N0134-06F

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

0.011/0.04 IR 01
AW501-31-14

Reinquinshed by:	<i>Agnes R Huntley</i>	Date/Time	01/31/14 11:12
Received by:	<i>[Signature]</i>	Date/Time	01/31/14 11:20
Received by:	<i>[Signature]</i>	Date/Time	01-31-14 10:45

SB 84120-044

CHAIN-OF-CUSTODY RECORD

WorkOrder : N0134

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 2/12/2014

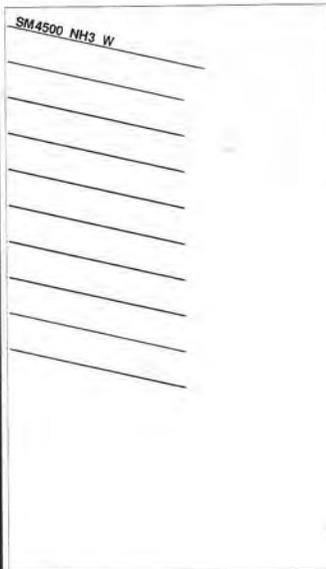
FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0134

EDD Types : Please generate a
Little PEL EDD

Requested Test



Subcontractor:
 Spectrum Analytical, Inc. - Agawam, MA
 11 Almgren Drive
 Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Milkem Sample ID
REW-7-20140130-01	01/30/2014 10:50	1	Aqueous		N0134-07F
REW-8-20140130-01	01/30/2014 12:55	1	Aqueous		N0134-08F
REW-9-20140130-01	01/30/2014 12:15	1	Aqueous		N0134-09F
REW-12-20140130-01	01/30/2014 09:10	1	Aqueous		N0134-10F

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample ID' to fit on reports. Use full 'Client Sample ID' when generating EDD.

0.01-11-04IR 01
 Anne 01-31-14

Reinquished by: Agnes R Huntley Date/Time: 01/31/14 11:12

Reinquished by: Agnes R Huntley Date/Time: 01/31/14 10:45

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0134

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 02/12/14

Fax Due:

EDD: CLF

Report Level: LEVEL 2

Special Program:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0134-01A	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-01B	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	RSK175	/					VOA
N0134-01C	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-01D	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-01D	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-01D	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-01D	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-01E	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-01F	MW-267S-20140130-01	01/30/2014 12:50	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-02A	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-02B	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	RSK175	/					VOA
N0134-02C	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-02D	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-02D	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-02D	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-02D	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-02E	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-02F	MW-267M-20140130-01	01/30/2014 12:10	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-03A	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-03B	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	RSK175	/					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0134

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 02/12/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0134-03C	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-03D	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-03D	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-03D	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-03D	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-03E	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-03F	MW-268M-20140130-01	01/30/2014 11:25	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-04A	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-04B	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	RSK175	/					VOA
N0134-04C	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-04D	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-04D	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-04D	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-04D	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-04E	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-04F	MW-561-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-05A	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-05B	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	RSK175	/					VOA
N0134-05C	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0134

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 02/12/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0134-05D	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-05D	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-05D	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-05D	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-05E	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-05F	MW-553-20140130-01	01/30/2014 10:30	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-06A	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-06B	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	RSK175	/					VOA
N0134-06C	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-06D	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-06D	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-06D	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-06D	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-06E	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-06F	REW-6-20140130-01	01/30/2014 09:55	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-07A	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-07B	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	RSK175	/					VOA
N0134-07C	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-07D	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-07D	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	SM2320_W	/					N3

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0134

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 02/12/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0134-07D	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-07D	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-07E	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-07F	REW-7-20140130-01	01/30/2014 10:50	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-08A	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-08B	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	RSK175	/					VOA
N0134-08C	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-08D	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-08D	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-08D	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-08D	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-08E	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-08F	REW-8-20140130-01	01/30/2014 12:55	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-09A	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-09B	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	RSK175	/					VOA
N0134-09C	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-09D	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-09D	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-09D	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-09D	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	SM4500_OP_W	/					N3

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0134

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 02/12/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

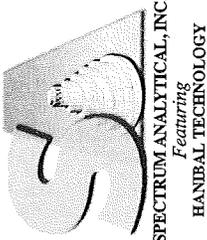
Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0134-09E	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-09F	REW-9-20140130-01	01/30/2014 12:15	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam				Y	SUB
N0134-10A	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	E300_VOA_W	/				Y	N3
N0134-10B	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	RSK175	/					VOA
N0134-10C	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM5310B_TOC_W	/					R22
N0134-10D	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	N3
N0134-10D	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM2320_W	/					N3
N0134-10D	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM4500_H+	/					N3
N0134-10D	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM4500_OP_W	/					N3
N0134-10E	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SW6010_W	/ Fe only				Y	M3
N0134-10F	REW-12-20140130-01	01/30/2014 09:10	01/31/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0134-11A	TRIPBLANK	01/30/2014 00:00	01/31/2014	Aqueous	RSK175	/					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



CHAIN OF CUSTODY RECORD

11 Almgren Drive
 8405 Benjamin Road, Ste A
 Agawam, MA 01001
 Tampa, FL 33634
 (413) 789-9018
 (813) 888-9507

Special Handling:

TAT- Ind icate Date Needed: _____
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 Samples disposed of after 60 days unless
 otherwise instructed.

Report To: Environmental Engineering Solutions Inc

83 Spear St
Woburn MA 02081

Telephone #: 508-668-0033

Project Mgr: Vicki Pickett

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8= NaHSO₄ 9= Deionized Water 10=H₃PO₄ 11=
 12=

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

Invoice To: Environmental Engineering Solutions Inc

83 Spear St
Woburn, MA 02081

P.O. No.: RA-008 RQN: _____

Project No.: RA-008

Site Name: Reuther's - Weyland

Location: Weyland State: MA

Sampler(s): Dave Jones, Debra Bells

List preservative code below:

2	10	4	3
---	----	---	---

Containers:

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Analyses:

TOC

Organic Acid

NH₄

Alkalinity

NO₃

NO₂

NO_x

NO₂

NO₃

NO_x

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix
01	MW-2672-20140130-01	1/30/14	12:50	G	CM 6
02	MW-2672-20140130-01	1/30/14	12:10	G	CM 6
03	MW-2680-20140130-01	1/30/14	11:25	G	CM 6
04	MW-511-20140130-01	1/30/14	09:10	G	CM 6
05	MW-511-20140130-01	1/30/14	10:30	G	CM 6
06	REW-6-20140130-01	1/30/14	05:55	G	CM 6
07	REW-7-20140130-01	1/30/14	10:50	G	CM 6
08	REW-8-20140130-01	1/30/14	12:55	G	CM 6
09	REW-9-20140130-01	1/30/14	12:15	G	CM 6
10	REW-10-20140130-01	1/30/14	09:10	G	CM 6

Relinquished by:

Received by:

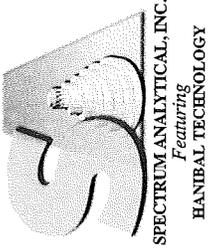
Temp °C

EDD Format

E-mail to info@spectrum-analytical.com

Condition upon receipt: Ambient Foc Iced
 Custody Seals: Present Intact Broken
 Refrigerated D/VOA Frozen Soil Jar Frozen

0.61-1/04/PR1
JUL 1 130



CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

TAT- Ind icate Date Needed: _____
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 Samples disposed of after 60 days unless otherwise instructed.

11 Almgren Drive
 Agawam, MA 01001
 (413) 789-9018

8405 Benjamin Road, Ste A
 N Kingstown, RI 02852
 (401) 732-3400

Report To: Environmental Engineering Solutions Inc
35 Spring St
Wolpole MA 02081

Invoice To: Environmental Engineering Solutions Inc
35 Spring St
Wolpole MA 02081

Telephone #: 508-663-0033
 Project Mgr. Wicks, Andrew

Project No.: RA-008
 Site Name: Realthos - Wolpole
 Location: Wolpole State: MA
 Sampler(s): Dawn Jones Dawson Nolis

P.O. No.: RA-008 RQN: _____
 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8= NaHSO₄ 9= Deionized Water 10=H₃PO₄ 11= _____ 12= _____

List preservative code below:

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

QA/QC Reporting Notes:
 QA/QC Reporting Level
 Level I Level II
 Level III Level IV
 Other _____
 State-specific reporting standards: _____

Lab Id.	Sample Id.	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyzes:	Temp °C
NA134												
11	Top Soil											

Relinquished by: [Signature]
 Received by: [Signature]
 Date: 1/30/14 Time: 15:10
 Date: 1/30/14 Time: 17:10
 Date: 1-31-14 Time: 11:08

Condition upon receipt: Ambient Refrigerated Present Broken Broken Broken
 E-mail to vip@jes.com DI/VOA Frozen Soil Jar Frozen

0.6/1.6/1.1
JUH 1/30

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

Received By: <u>[Signature]</u>	Page 01 of 00
Reviewed By: <u>[Signature]</u>	Log-in Date 01/31/2014
Work Order: N0134	Client Name: Innovative Engineering Solutions, Inc.

Project Name/Event: Raytheon - Wayland

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

	Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
		HNO3	H2SO4	HCl	NaOH	H3PO4		
1. Custody Seal(s) <u>Present / Absent</u> <u>Intact / Broken</u>	N0134-01	<2	<2			<2	H	
2. Custody Seal Nos. N/A	N0134-02	<2	<2			<2	H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists <u>Present / Absent</u>	N0134-03	<2	<2			<2	H	
	N0134-04	<2	<2			<2	H	
	N0134-05	<2	<2			<2	H	
4. Airbill <u>AirBill / Sticker</u> <u>Present / Absent</u>	N0134-06	<2	<2			<2	H	
	N0134-07	<2	<2			<2	H	
5. Airbill No. Courier N/A	N0134-08	<2	<2			<2	H	
	N0134-09	<2	<2			<2	H	
6. Sample Tags <u>Present / Absent</u> Sample Tag Numbers Listed / <u>Not Listed on Chain-of-Custody</u>	N0134-10	<2	<2			<2	H	
	N0134-11						H	

7. Sample Condition Intact / Broken / Leaking

8. Cooler Temperature Indicator Bottle Present / Absent

9. Cooler Temperature 2.3 °C

10. Does information on TR/COCs and sample tags agree? Yes / No

11. Date Received at Laboratory 01/31/2014

12. Time Received 11:08

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
-----------------------	----------------------------

Area #	Area #
--------	--------

By	By
----	----

On	On
----	----

IR Temp Gun ID: MT-74

Coolant Condition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A = Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

Last Page of Data Report

Report Date:
22-Apr-14 15:46



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: N0514
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N0514-01	MW-261S-20140408-01	Aqueous	08-Apr-14 07:20	09-Apr-14 13:00
N0514-02	MW-265M-20140408-01	Aqueous	08-Apr-14 08:45	09-Apr-14 13:00
N0514-03	MW-268S-20140407-01	Aqueous	07-Apr-14 08:45	09-Apr-14 13:00
N0514-04	MW-268M-20140407-01	Aqueous	07-Apr-14 09:25	09-Apr-14 13:00
N0514-05	MW-552-20140407-01	Aqueous	07-Apr-14 15:25	09-Apr-14 13:00
N0514-06	MW-553-20140407-01	Aqueous	07-Apr-14 14:30	09-Apr-14 13:00
N0514-07	MW-560-20140407-01	Aqueous	07-Apr-14 11:10	09-Apr-14 13:00
N0514-08	MW-561-20140407-01	Aqueous	07-Apr-14 12:00	09-Apr-14 13:00
N0514-09	MW-562-20140407-01	Aqueous	07-Apr-14 13:30	09-Apr-14 13:00
N0514-10	MW-563-20140407-01	Aqueous	07-Apr-14 10:20	09-Apr-14 13:00
N0514-11	REW-1-20140406-01	Aqueous	06-Apr-14 13:45	09-Apr-14 13:00
N0514-12	REW-4-20140406-01	Aqueous	06-Apr-14 15:20	09-Apr-14 13:00
N0514-13	REW-5-20140406-01	Aqueous	06-Apr-14 14:30	09-Apr-14 13:00
N0514-14	REW-6-20140406-01	Aqueous	06-Apr-14 09:05	09-Apr-14 13:00
N0514-15	REW-7-20140406-01	Aqueous	06-Apr-14 09:35	09-Apr-14 13:00
N0514-16	REW-8-20140406-01	Aqueous	06-Apr-14 10:45	09-Apr-14 13:00
N0514-17	REW-9-20140406-01	Aqueous	06-Apr-14 11:40	09-Apr-14 13:00
N0514-18	REW-10-20140406-01	Aqueous	06-Apr-14 12:25	09-Apr-14 13:00
N0514-19	REW-11-20140406-01	Aqueous	06-Apr-14 08:15	09-Apr-14 13:00
N0514-20	REW-12-20140406-01	Aqueous	06-Apr-14 13:10	09-Apr-14 13:00
N0514-21	TRIP BLANK	Aqueous	08-Apr-14 00:00	09-Apr-14 13:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the sample(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0514

RSK175, Dissolved Gases by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
RSK175

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V7

Instrument Type: GC-FID

Description: HP5890 II
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] CARBOXEM 1006
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

N/A.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA.

F. Dilutions:

The following samples were analyzed at dilution:

MW-261S-20140408-01 (N0514-01ADL) : Dilution Factor: 10
MW-265M-20140408-01 (N0514-02ADL) : Dilution Factor: 10
MW-552-20140407-01 (N0514-05ADL) : Dilution Factor: 20
MW-553-20140407-01 (N0514-06ADL) : Dilution Factor: 20
MW-560-20140407-01 (N0514-07ADL) : Dilution Factor: 20
MW-561-20140407-01 (N0514-08ADL) : Dilution Factor: 20
MW-562-20140407-01 (N0514-09ADL) : Dilution Factor: 100
MW-563-20140407-01 (N0514-10ADL) : Dilution Factor: 100

REW-1-20140406-01 (N0514-11ADL) : Dilution Factor: 20
REW-4-20140406-01 (N0514-12ADL) : Dilution Factor: 20
REW-5-20140406-01 (N0514-13ADL) : Dilution Factor: 10
REW-6-20140406-01 (N0514-14ADL) : Dilution Factor: 10
REW-8-20140406-01 (N0514-16ADL) : Dilution Factor: 20
REW-9-20140406-01 (N0514-17ADL) : Dilution Factor: 20
REW-10-20140406-01 (N0514-18ADL) : Dilution Factor: 10
REW-12-20140406-01 (N0514-20ADL) : Dilution Factor: 5

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

LCSD-76692 Ethene due to M1

REW-9-20140406-01 (N0514-17A) Methane due to M6

REW-10-20140406-01 (N0514-18A) Methane due to M6

REW-12-20140406-01 (N0514-20A) Methane due to M6

VSTD005H7 Methane due to M3

VSTD005I7 Methane due to M7

VSTD100007H Ethane due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written in a cursive style.

Signed: _____

Date: _____ 4/22/2014 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0514

SW846 6010C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: OPTIMA2
Instrument Type: ICP

Description: Optima 3100 XL
Manufacturer: Perkin-Elmer
Model: 3100 XL

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

Serial Dilution analysis was performed on sample: REW-12-20140406-01 (N0514-20DSD).

Percent difference was within the QC limits.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 04/21/14

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0514

EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP,
SM 5310B TOC

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

IV. PREPARATION

Samples were prepared following procedures in laboratory test codes: EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: IC1
Instrument Type: IC
Description: DX-500
Manufacturer: Dionex
Model: DX-500

GC Column used: 0.25 m X 4 mm ID [um thickness] AS14A-7 capillary column.

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: TOC1
Instrument Type: TOC
Description: TOC
Manufacturer: Tekmar Dohrman
Model: Apollo 9000

Instrument Code: WC03
Instrument Type: Probe
Description: pH Meter
Manufacturer: Oakton Instruments
Model: Bench 2700 Series

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-261S-20140408-01 (N0514-01BMS), MW-261S-20140408-01 (N0514-01BMSD), REW-12-20140406-01 (N0514-20EMS) and REW-12-20140406-01 (N0514-20EMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

E. Dilutions:

The following samples were analyzed at dilution:

MW-261S-20140408-01 (N0514-01B), dilution factor: 5 for Acetic Acid
MW-261S-20140408-01 (N0514-01BMS), dilution factor: 5 for Acetic Acid
MW-261S-20140408-01 (N0514-01BMSD), dilution factor: 5 for Acetic Acid
MW-265M-20140408-01 (N0514-02B), dilution factor: 20 for Acetic Acid
MW-560-20140407-01 (N0514-07B), dilution factor: 10 for Acetic Acid
MW-561-20140407-01 (N0514-08B), dilution factor: 10 for Acetic Acid
MW-562-20140407-01 (N0514-09B), dilution factor: 10 for Acetic Acid
MW-562-20140407-01 (N0514-09F), dilution factor: 2 for Orthophosphate
(As PO4)
MW-563-20140407-01 (N0514-10B), dilution factor: 10 for Acetic Acid
REW-6-20140406-01 (N0514-14B), dilution factor: 10 for Acetic Acid
REW-7-20140406-01 (N0514-15B), dilution factor: 2 for Acetic Acid
REW-8-20140406-01 (N0514-16B), dilution factor: 10 for Acetic Acid
REW-9-20140406-01 (N0514-17B), dilution factor: 10 for Acetic Acid

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 04/22/2014

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-261S-20140408-01

Lab ID: N0514-01

Project: Raytheon - Wayland

Collection Date: 04/08/14 7:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	6600 E	0.61 µg/L	1 04/14/2014 11:05	76598
Ethane	7.4	1.3 µg/L	1 04/14/2014 11:05	76598
Ethene	28	1.6 µg/L	1 04/14/2014 11:05	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-261S-20140408-01

Lab ID: N0514-01

Project: Raytheon - Wayland

Collection Date: 04/08/14 7:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	8500		6.1	µg/L		10 04/18/2014 11:45	76692
Ethane	ND		13	µg/L		10 04/18/2014 11:45	76692
Ethene	ND		16	µg/L		10 04/18/2014 11:45	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-265M-20140408-01

Lab ID: N0514-02

Project: Raytheon - Wayland

Collection Date: 04/08/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	8300	E	0.61	µg/L		104/14/2014 11:12	76598
Ethane	3.6		1.3	µg/L		104/14/2014 11:12	76598
Ethene	16		1.6	µg/L		104/14/2014 11:12	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-265M-20140408-01

Lab ID: N0514-02

Project: Raytheon - Wayland

Collection Date: 04/08/14 8:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	5000	6.1 µg/L	10 04/18/2014 12:38	76692
Ethane	ND	13 µg/L	10 04/18/2014 12:38	76692
Ethene	ND	16 µg/L	10 04/18/2014 12:38	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268S-20140407-01

Lab ID: N0514-03

Project: Raytheon - Wayland

Collection Date: 04/07/14 8:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	1000	0.60 µg/L	1 04/14/2014 11:25	76598
Ethane	ND	1.2 µg/L	1 04/14/2014 11:25	76598
Ethene	ND	1.5 µg/L	1 04/14/2014 11:25	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140407-01

Lab ID: N0514-04

Project: Raytheon - Wayland

Collection Date: 04/07/14 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	230		0.61	µg/L		104/14/2014 11:33	76598
Ethane	ND		1.3	µg/L		104/14/2014 11:33	76598
Ethene	5.0		1.6	µg/L		104/14/2014 11:33	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140407-01

Lab ID: N0514-05

Project: Raytheon - Wayland

Collection Date: 04/07/14 15:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	8700	E	0.60	µg/L		104/14/2014 11:54	76598
Ethane	3.0		1.2	µg/L		104/14/2014 11:54	76598
Ethene	38		1.5	µg/L		104/14/2014 11:54	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140407-01

Lab ID: N0514-05

Project: Raytheon - Wayland

Collection Date: 04/07/14 15:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	5800	12 µg/L	20 04/18/2014 13:27	76692
Ethane	ND	25 µg/L	20 04/18/2014 13:27	76692
Ethene	ND	31 µg/L	20 04/18/2014 13:27	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140407-01

Lab ID: N0514-06

Project: Raytheon - Wayland

Collection Date: 04/07/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	8000	E	0.61	µg/L		104/14/2014 12:55	76598
Ethane	2.4		1.3	µg/L		104/14/2014 12:55	76598
Ethene	6.0		1.6	µg/L		104/14/2014 12:55	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140407-01

Lab ID: N0514-06

Project: Raytheon - Wayland

Collection Date: 04/07/14 14:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	7700	12 µg/L	20 04/18/2014 13:34	76692
Ethane	ND	25 µg/L	20 04/18/2014 13:34	76692
Ethene	ND	32 µg/L	20 04/18/2014 13:34	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140407-01

Lab ID: N0514-07

Project: Raytheon - Wayland

Collection Date: 04/07/14 11:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	12000 E	0.60 µg/L	1 04/14/2014 13:15	76598
Ethane	ND	1.2 µg/L	1 04/14/2014 13:15	76598
Ethene	1.7	1.5 µg/L	1 04/14/2014 13:15	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140407-01

Lab ID: N0514-07

Project: Raytheon - Wayland

Collection Date: 04/07/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	15000		12	µg/L		20 04/18/2014 13:41	76692
Ethane		ND	25	µg/L		20 04/18/2014 13:41	76692
Ethene		ND	31	µg/L		20 04/18/2014 13:41	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140407-01

Lab ID: N0514-08

Project: Raytheon - Wayland

Collection Date: 04/07/14 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	17000 E	0.61 µg/L	1 04/14/2014 13:28	76598
Ethane	ND	1.3 µg/L	1 04/14/2014 13:28	76598
Ethene	19	1.6 µg/L	1 04/14/2014 13:28	76598

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140407-01

Lab ID: N0514-08

Project: Raytheon - Wayland

Collection Date: 04/07/14 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	6500		12	µg/L		20 04/18/2014 13:48	76692
Ethane		ND	25	µg/L		20 04/18/2014 13:48	76692
Ethene		ND	32	µg/L		20 04/18/2014 13:48	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140407-01

Lab ID: N0514-09

Project: Raytheon - Wayland

Collection Date: 04/07/14 13:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	18000 E	0.61 µg/L	1 04/18/2014 13:55	76692
Ethane	7.6	1.3 µg/L	1 04/18/2014 13:55	76692
Ethene	ND	1.6 µg/L	1 04/18/2014 13:55	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140407-01

Lab ID: N0514-09

Project: Raytheon - Wayland

Collection Date: 04/07/14 13:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	20000	61 µg/L	100 04/18/2014 14:16	76692
Ethane	ND	130 µg/L	100 04/18/2014 14:16	76692
Ethene	ND	160 µg/L	100 04/18/2014 14:16	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140407-01

Lab ID: N0514-10

Project: Raytheon - Wayland

Collection Date: 04/07/14 10:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	31000 E	0.61 µg/L	1 04/18/2014 14:09	76692
Ethane	2.0	1.3 µg/L	1 04/18/2014 14:09	76692
Ethene	10	1.6 µg/L	1 04/18/2014 14:09	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140407-01

Lab ID: N0514-10

Project: Raytheon - Wayland

Collection Date: 04/07/14 10:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	40000	61 µg/L	100 04/18/2014 14:23	76692
Ethane	ND	130 µg/L	100 04/18/2014 14:23	76692
Ethene	ND	160 µg/L	100 04/18/2014 14:23	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140406-01

Lab ID: N0514-11

Project: Raytheon - Wayland

Collection Date: 04/06/14 13:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	8900 E	0.61 µg/L	1 04/17/2014 11:09	76664
Ethane	3.2	1.3 µg/L	1 04/17/2014 11:09	76664
Ethene	ND	1.6 µg/L	1 04/17/2014 11:09	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140406-01

Lab ID: N0514-11

Project: Raytheon - Wayland

Collection Date: 04/06/14 13:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	9500	12 µg/L	20 04/18/2014 9:33	76692
Ethane	ND	25 µg/L	20 04/18/2014 9:33	76692
Ethene	ND	32 µg/L	20 04/18/2014 9:33	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140406-01

Lab ID: N0514-12

Project: Raytheon - Wayland

Collection Date: 04/06/14 15:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	7700 E	0.61 µg/L	1 04/17/2014 11:16	76664
Ethane	ND	1.3 µg/L	1 04/17/2014 11:16	76664
Ethene	5.5	1.6 µg/L	1 04/17/2014 11:16	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140406-01

Lab ID: N0514-12

Project: Raytheon - Wayland

Collection Date: 04/06/14 15:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	6000		12	µg/L		20 04/18/2014 9:51	76692
Ethane	ND		25	µg/L		20 04/18/2014 9:51	76692
Ethene	ND		32	µg/L		20 04/18/2014 9:51	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-5-20140406-01
Lab ID: N0514-13

Project: Raytheon - Wayland
Collection Date: 04/06/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	8800	E	0.60	µg/L		104/17/2014 11:24	76664
Ethane	2.3		1.2	µg/L		104/17/2014 11:24	76664
Ethene	3.1		1.5	µg/L		104/17/2014 11:24	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-5-20140406-01

Lab ID: N0514-13

Project: Raytheon - Wayland

Collection Date: 04/06/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	8300		6.0	µg/L		10 04/18/2014 10:03	76692
Ethane		ND	12	µg/L		10 04/18/2014 10:03	76692
Ethene		ND	15	µg/L		10 04/18/2014 10:03	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140406-01

Lab ID: N0514-14

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	8700 E	0.60 µg/L	1 04/17/2014 11:32	76664
Ethane	ND	1.2 µg/L	1 04/17/2014 11:32	76664
Ethene	ND	1.5 µg/L	1 04/17/2014 11:32	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140406-01

Lab ID: N0514-14

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	8000		6.0	µg/L		10 04/18/2014 10:28	76692
Ethane	ND		12	µg/L		10 04/18/2014 10:28	76692
Ethene	ND		15	µg/L		10 04/18/2014 10:28	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140406-01

Lab ID: N0514-15

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	200		0.61	µg/L		104/17/2014 11:39	76664
Ethane	ND		1.3	µg/L		104/17/2014 11:39	76664
Ethene	1.9		1.6	µg/L		104/17/2014 11:39	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140406-01

Lab ID: N0514-16

Project: Raytheon - Wayland

Collection Date: 04/06/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	16000	E	0.60	µg/L		104/17/2014 11:47	76664
Ethane	1.6		1.2	µg/L		104/17/2014 11:47	76664
Ethene	12		1.5	µg/L		104/17/2014 11:47	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140406-01

Lab ID: N0514-16

Project: Raytheon - Wayland

Collection Date: 04/06/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	15000		12	µg/L		20 04/18/2014 11:05	76692
Ethane		ND	25	µg/L		20 04/18/2014 11:05	76692
Ethene		ND	31	µg/L		20 04/18/2014 11:05	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140406-01

Lab ID: N0514-17

Project: Raytheon - Wayland

Collection Date: 04/06/14 11:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	7200 E	0.60 µg/L	1 04/17/2014 11:54	76664
Ethane	ND	1.2 µg/L	1 04/17/2014 11:54	76664
Ethene	2.1	1.5 µg/L	1 04/17/2014 11:54	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140406-01

Lab ID: N0514-17

Project: Raytheon - Wayland

Collection Date: 04/06/14 11:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	9400	12 µg/L	20 04/18/2014 11:14	76692
Ethane	ND	25 µg/L	20 04/18/2014 11:14	76692
Ethene	ND	31 µg/L	20 04/18/2014 11:14	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140406-01

Lab ID: N0514-18

Project: Raytheon - Wayland

Collection Date: 04/06/14 12:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	3900 E	0.61 µg/L	1 04/17/2014 12:03	76664
Ethane	ND	1.3 µg/L	1 04/17/2014 12:03	76664
Ethene	ND	1.6 µg/L	1 04/17/2014 12:03	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140406-01

Lab ID: N0514-18

Project: Raytheon - Wayland

Collection Date: 04/06/14 12:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	3400		6.1	µg/L		10 04/18/2014 11:25	76692
Ethane		ND	13	µg/L		10 04/18/2014 11:25	76692
Ethene		ND	16	µg/L		10 04/18/2014 11:25	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140406-01

Lab ID: N0514-19

Project: Raytheon - Wayland

Collection Date: 04/06/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	240		0.60	µg/L		1 04/17/2014 12:11	76664
Ethane	ND		1.2	µg/L		1 04/17/2014 12:11	76664
Ethene	2.7		1.5	µg/L		1 04/17/2014 12:11	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140406-01

Lab ID: N0514-20

Project: Raytheon - Wayland

Collection Date: 04/06/14 13:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	2200 E	0.61 µg/L	1 04/17/2014 12:19	76664
Ethane	ND	1.3 µg/L	1 04/17/2014 12:19	76664
Ethene	5.8	1.6 µg/L	1 04/17/2014 12:19	76664

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140406-01

Lab ID: N0514-20

Project: Raytheon - Wayland

Collection Date: 04/06/14 13:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	1200	3.1 µg/L	5 04/18/2014 11:33	76692
Ethane	ND	6.3 µg/L	5 04/18/2014 11:33	76692
Ethene	ND	7.9 µg/L	5 04/18/2014 11:33	76692

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: TRIP BLANK

Lab ID: N0514-21

Project: Raytheon - Wayland

Collection Date: 04/08/14 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	ND	0.60 µg/L	1 04/21/2014 14:52	76722
Ethane	ND	1.2 µg/L	1 04/21/2014 14:52	76722
Ethene	ND	1.5 µg/L	1 04/21/2014 14:52	76722

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0514
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID: MB-76598	SampType: MBLK	TestCode: RSK175	Prep Date: 04/14/14 7:09	Run ID: V7_140414A								
Client ID: MB-76598	Batch ID: 76598	Units: µg/L	Analysis Date 04/14/14 10:17	SeqNo: 2070421								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: MB-76664	SampType: MBLK	TestCode: RSK175	Prep Date: 04/17/14 8:10	Run ID: V7_140417A								
Client ID: MB-76664	Batch ID: 76664	Units: µg/L	Analysis Date 04/17/14 10:51	SeqNo: 2072688								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: MB-76692	SampType: MBLK	TestCode: RSK175	Prep Date: 04/18/14 6:43	Run ID: V7_140418A								
Client ID: MB-76692	Batch ID: 76692	Units: µg/L	Analysis Date 04/18/14 8:46	SeqNo: 2072779								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: MB-76722	SampType: MBLK	TestCode: RSK175	Prep Date: 04/21/14 8:05	Run ID: V7_140421A								
Client ID: MB-76722	Batch ID: 76722	Units: µg/L	Analysis Date 04/21/14 14:39	SeqNo: 2073110								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: LCS-76598	SampType: LCS	TestCode: RSK175	Prep Date: 04/14/14 7:09	Run ID: V7_140414A								
Client ID: LCS-76598	Batch ID: 76598	Units: µg/L	Analysis Date 04/14/14 10:08	SeqNo: 2070420								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	41.85	0.36		46.29	0	90.4	75	125	0			
Ethane	75.98	0.51		87.43	0	86.9	75	125	0			
Ethene	84.67	0.71		81.26	0	104	75	125	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.04.18.0954 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0514
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID: **LCS-76664** SampType: **LCS** TestCode: **RSK175** Prep Date: **04/17/14 8:10** Run ID: **V7_140417A**
 Client ID: **LCS-76664** Batch ID: **76664** Units: **µg/L** Analysis Date: **04/17/14 9:46** SeqNo: **2072687**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	35.33	0.36	0.60	46.29	0	76.3	75	125	0			
Ethane	72.69	0.51	1.2	87.43	0	83.1	75	125	0			
Ethene	82.60	0.71	1.5	81.26	0	102	75	125	0			

Sample ID: **LCS-76692** SampType: **LCS** TestCode: **RSK175** Prep Date: **04/18/14 6:43** Run ID: **V7_140418A**
 Client ID: **LCS-76692** Batch ID: **76692** Units: **µg/L** Analysis Date: **04/18/14 8:12** SeqNo: **2072777**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	35.54	0.36	0.60	46.29	0	76.8	75	125	0			
Ethane	76.72	0.51	1.2	87.43	0	87.8	75	125	0			
Ethene	89.05	0.71	1.5	81.26	0	110	75	125	0			

Sample ID: **LCS-76722** SampType: **LCS** TestCode: **RSK175** Prep Date: **04/21/14 8:05** Run ID: **V7_140421A**
 Client ID: **LCS-76722** Batch ID: **76722** Units: **µg/L** Analysis Date: **04/21/14 13:48** SeqNo: **2073109**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	49.60	0.36	0.60	46.29	0	107	75	125	0			
Ethane	69.84	0.51	1.2	87.43	0	79.9	75	125	0			
Ethene	81.39	0.71	1.5	81.26	0	100	75	125	0			

Sample ID: **LCSD-76664** SampType: **LCSD** TestCode: **RSK175** Prep Date: **04/17/14 8:10** Run ID: **V7_140417A**
 Client ID: **LCSD-76664** Batch ID: **76664** Units: **µg/L** Analysis Date: **04/17/14 13:18** SeqNo: **2072699**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	56.11	0.35	0.58	45.00	0	125	75	125	35.33	45.5	30	R
Ethane	65.63	0.50	1.2	85.00	0	77.2	75	125	72.69	10.2	30	
Ethene	66.54	0.69	1.5	79.00	0	84.2	75	125	82.60	21.5	30	

Sample ID: **LCSD-76692** SampType: **LCSD** TestCode: **RSK175** Prep Date: **04/18/14 6:43** Run ID: **V7_140418A**
 Client ID: **LCSD-76692** Batch ID: **76692** Units: **µg/L** Analysis Date: **04/18/14 8:29** SeqNo: **2072778**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	42.97	0.36	0.60	46.29	0	92.8	75	125	35.54	18.9	30	
Ethane	92.11	0.51	1.2	87.43	0	105	75	125	76.72	18.2	30	
Ethene	97.00	0.71	1.5	81.26	0	119	75	125	89.05	8.55	30	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.04.18.0954 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-261S-20140408-01
Lab ID: N0514-01

Project: Raytheon - Wayland
Collection Date: 04/08/14 7:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	100000	B	200	ug/L	1	04/16/2014 9:12	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-265M-20140408-01
Lab ID: N0514-02

Project: Raytheon - Wayland
Collection Date: 04/08/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	120000	B	200	ug/L	1	04/16/2014 9:16	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-268S-20140407-01
Lab ID: N0514-03

Project: Raytheon - Wayland
Collection Date: 04/07/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron		190	BJ	200	ug/L	1 04/16/2014 9:20	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-268M-20140407-01
Lab ID: N0514-04

Project: Raytheon - Wayland
Collection Date: 04/07/14 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	21000	B	200	ug/L	1	04/16/2014 9:23	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140407-01

Lab ID: N0514-05

Project: Raytheon - Wayland

Collection Date: 04/07/14 15:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	41000	B	200	ug/L	1	04/16/2014 9:27	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140407-01

Lab ID: N0514-06

Project: Raytheon - Wayland

Collection Date: 04/07/14 14:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W
Iron	21000 B	200 ug/L	1 04/16/2014 9:36	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140407-01

Lab ID: N0514-07

Project: Raytheon - Wayland

Collection Date: 04/07/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	94000	B	200	ug/L	1	04/16/2014 9:39	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140407-01

Lab ID: N0514-08

Project: Raytheon - Wayland

Collection Date: 04/07/14 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	26000	B	200	ug/L	1	04/16/2014 9:43	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140407-01

Lab ID: N0514-09

Project: Raytheon - Wayland

Collection Date: 04/07/14 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	290000	B	200	ug/L	1	04/16/2014 9:46	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-563-20140407-01
Lab ID: N0514-10

Project: Raytheon - Wayland
Collection Date: 04/07/14 10:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	120000	B	200	ug/L	1	04/16/2014 9:49	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140406-01

Lab ID: N0514-11

Project: Raytheon - Wayland

Collection Date: 04/06/14 13:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	13000	B	200	ug/L	1	04/16/2014 9:53	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140406-01

Lab ID: N0514-12

Project: Raytheon - Wayland

Collection Date: 04/06/14 15:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	13000	B	200	ug/L	1	04/16/2014 9:56	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-5-20140406-01

Lab ID: N0514-13

Project: Raytheon - Wayland

Collection Date: 04/06/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	15000	B	200	ug/L	1	04/16/2014 10:00	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140406-01

Lab ID: N0514-14

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	71000	B	200	ug/L	1	04/16/2014 10:03	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140406-01

Lab ID: N0514-15

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	42000	B	200	ug/L	1	04/16/2014 10:13	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140406-01

Lab ID: N0514-16

Project: Raytheon - Wayland

Collection Date: 04/06/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	89000	B	200	ug/L	1	04/16/2014 10:16	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140406-01

Lab ID: N0514-17

Project: Raytheon - Wayland

Collection Date: 04/06/14 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	64000	B	200	ug/L	1	04/16/2014 10:19	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140406-01

Lab ID: N0514-18

Project: Raytheon - Wayland

Collection Date: 04/06/14 12:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	130	BJ	200	ug/L	1	04/16/2014 10:22	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-11-20140406-01
Lab ID: N0514-19

Project: Raytheon - Wayland
Collection Date: 04/06/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	23000	B	200	ug/L	1	04/16/2014 10:26	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-12-20140406-01
Lab ID: N0514-20

Project: Raytheon - Wayland
Collection Date: 04/06/14 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	32000	B	200	ug/L	1	04/16/2014 10:29	76622

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0514

SW6010_W

Project: Raytheon - Wayland

SW846 6010C -- Metals by ICP

Sample ID: MB-76622	SampType: MBLK	TestCode: SW6010_W	Prep Date: 04/15/14 13:30	Run ID: OPTIMA2_140416A
Client ID: MB-76622	Batch ID: 76622	Units: ug/L	Analysis Date: 04/16/14 9:04	SeqNo: 2071046
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	34.19	31	0	100
			SPK value	LowLimit
			RPD Ref Val	HighLimit
			%RPD	RPDLimit
				Qual
				J

Sample ID: LCS-76622	SampType: LCS	TestCode: SW6010_W	Prep Date: 04/15/14 13:30	Run ID: OPTIMA2_140416A
Client ID: LCS-76622	Batch ID: 76622	Units: ug/L	Analysis Date: 04/16/14 9:07	SeqNo: 2071047
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	4567	31	0	100
			SPK value	LowLimit
			RPD Ref Val	HighLimit
			%RPD	RPDLimit
				Qual
				B

Sample ID: LCSD-76622	SampType: LCSD	TestCode: SW6010_W	Prep Date: 04/15/14 13:30	Run ID: OPTIMA2_140416A
Client ID: LCSD-76622	Batch ID: 76622	Units: ug/L	Analysis Date: 04/16/14 9:10	SeqNo: 2071048
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	4982	31	0	109
			SPK value	LowLimit
			RPD Ref Val	HighLimit
			%RPD	RPDLimit
				Qual
				B

Sample ID: N0514-20DSD	SampType: SD	TestCode: SW6010_W	Prep Date: 04/15/14 13:30	Run ID: OPTIMA2_140416A
Client ID: REW-12-20140406-0	Batch ID: 76622	Units: ug/L	Analysis Date: 04/16/14 10:33	SeqNo: 2071073
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	32490	160	0	0
			SPK value	LowLimit
			RPD Ref Val	HighLimit
			%RPD	RPDLimit
				Qual
				B

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.04.18.0954 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-261S-20140408-01

Lab ID: N0514-01

Project: Raytheon - Wayland

Collection Date: 04/08/14 7:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 15:41	76638
Acetic Acid	260		25	mg/L		5 04/18/2014 0:59	76638
Propionic Acid	5.4		5.0	mg/L		1 04/17/2014 15:41	76638
Butyric Acid	8.5		5.0	mg/L		1 04/17/2014 15:41	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	33		2.0	mg/L		1 04/09/2014 16:00	76537
Nitrogen, Nitrate (As N)	0.33		0.13	mg/L		1 04/09/2014 16:00	76537
Sulfate	0.40	J	5.0	mg/L		1 04/09/2014 16:00	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.6		1.0	S.U.		1 04/15/2014 11:36	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.47		0.050	mg/L		1 04/09/2014 15:37	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	120		10	mg/L		1 04/14/2014 21:00	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-265M-20140408-01

Lab ID: N0514-02

Project: Raytheon - Wayland

Collection Date: 04/08/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 16:46	76638
Acetic Acid	1100		100	mg/L		20 04/18/2014 2:04	76638
Propionic Acid	6.7		5.0	mg/L		1 04/17/2014 16:46	76638
Butyric Acid	26		5.0	mg/L		1 04/17/2014 16:46	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	26		2.0	mg/L		1 04/09/2014 16:12	76537
Nitrogen, Nitrate (As N)	0.089	J	0.13	mg/L		1 04/09/2014 16:12	76537
Sulfate	0.57	J	5.0	mg/L		1 04/09/2014 16:12	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 04/15/2014 11:38	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.098		0.050	mg/L		1 04/09/2014 15:40	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	380		10	mg/L		1 04/14/2014 21:20	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268S-20140407-01

Lab ID: N0514-03

Project: Raytheon - Wayland

Collection Date: 04/07/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
Acetic Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	9.9		2.0	mg/L		1 04/09/2014 16:24	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 16:24	76537
Sulfate	25		5.0	mg/L		1 04/09/2014 16:24	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.3		1.0	S.U.		1 04/15/2014 11:39	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 04/09/2014 15:43	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	ND		10	mg/L		1 04/14/2014 21:40	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140407-01

Lab ID: N0514-04

Project: Raytheon - Wayland

Collection Date: 04/07/14 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 17:29	76638
Acetic Acid	0.43	J	5.0	mg/L		1 04/17/2014 17:29	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 17:29	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 17:29	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	23		2.0	mg/L		1 04/09/2014 16:36	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 16:36	76537
Sulfate	41		5.0	mg/L		1 04/09/2014 16:36	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	24		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.9		1.0	S.U.		1 04/15/2014 11:40	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.082		0.050	mg/L		1 04/09/2014 15:45	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	ND		10	mg/L		1 04/14/2014 21:59	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140407-01

Lab ID: N0514-05

Project: Raytheon - Wayland

Collection Date: 04/07/14 15:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids				E300_VOA_W
Lactic Acid	ND	5.0 mg/L	1 04/17/2014 17:50	76638
Acetic Acid	17	5.0 mg/L	1 04/17/2014 17:50	76638
Propionic Acid	0.86 J	5.0 mg/L	1 04/17/2014 17:50	76638
Butyric Acid	ND	5.0 mg/L	1 04/17/2014 17:50	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)				E300IC_W
Chloride	23	2.0 mg/L	1 04/09/2014 16:47	76537
Nitrogen, Nitrate (As N)	ND	0.13 mg/L	1 04/09/2014 16:47	76537
Sulfate	1.7 J	5.0 mg/L	1 04/09/2014 16:47	76537
SM 2320B -- Alkalinity (Total)				SM2320_W
Alkalinity, Total (As CaCO3)	61	20 mg/L CaCO3	1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE				SM4500_H+
pH	7.0	1.0 S.U.	1 04/15/2014 11:41	R80881
SM 4500P-E OP -- Orthophosphate				SM4500_OP_W
Orthophosphate (As PO4)	0.61	0.050 mg/L	1 04/09/2014 15:48	76535
SM 5310B TOC -- Total Organic Carbon by combustion				SM5310B_TOC_W
Organic Carbon, Total	16	10 mg/L	1 04/14/2014 22:18	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140407-01

Lab ID: N0514-06

Project: Raytheon - Wayland

Collection Date: 04/07/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 18:54	76638
Acetic Acid	14		5.0	mg/L		1 04/17/2014 18:54	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 18:54	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 18:54	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	19		2.0	mg/L		1 04/09/2014 16:59	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 16:59	76537
Sulfate	0.61	J	5.0	mg/L		1 04/09/2014 16:59	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	40		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.2		1.0	S.U.		1 04/15/2014 11:42	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.11		0.050	mg/L		1 04/09/2014 15:50	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	17		10	mg/L		1 04/14/2014 22:37	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140407-01

Lab ID: N0514-07

Project: Raytheon - Wayland

Collection Date: 04/07/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 19:16	76638
Acetic Acid	780		50	mg/L		10 04/18/2014 9:14	76638
Propionic Acid	6.0		5.0	mg/L		1 04/17/2014 19:16	76638
Butyric Acid	16		5.0	mg/L		1 04/17/2014 19:16	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	22		2.0	mg/L		1 04/09/2014 17:11	76537
Nitrogen, Nitrate (As N)	0.095	J	0.13	mg/L		1 04/09/2014 17:11	76537
Sulfate	0.61	J	5.0	mg/L		1 04/09/2014 17:11	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	65		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.3		1.0	S.U.		1 04/15/2014 11:43	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.31		0.050	mg/L		1 04/09/2014 15:53	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	330		10	mg/L		1 04/14/2014 22:56	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140407-01

Lab ID: N0514-08

Project: Raytheon - Wayland

Collection Date: 04/07/14 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids				E300_VOA_W
Lactic Acid	ND	5.0 mg/L	1 04/17/2014 19:37	76638
Acetic Acid	330	50 mg/L	10 04/18/2014 9:35	76638
Propionic Acid	0.83 J	5.0 mg/L	1 04/17/2014 19:37	76638
Butyric Acid	2.9 J	5.0 mg/L	1 04/17/2014 19:37	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)				E300IC_W
Chloride	25	2.0 mg/L	1 04/09/2014 17:22	76537
Nitrogen, Nitrate (As N)	ND	0.13 mg/L	1 04/09/2014 17:22	76537
Sulfate	ND	5.0 mg/L	1 04/09/2014 17:22	76537
SM 2320B -- Alkalinity (Total)				SM2320_W
Alkalinity, Total (As CaCO3)	31	20 mg/L CaCO3	1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE				SM4500_H+
pH	6.6	1.0 S.U.	1 04/15/2014 11:44	R80881
SM 4500P-E OP -- Orthophosphate				SM4500_OP_W
Orthophosphate (As PO4)	0.053	0.050 mg/L	1 04/09/2014 15:56	76535
SM 5310B TOC -- Total Organic Carbon by combustion				SM5310B_TOC_W
Organic Carbon, Total	220	10 mg/L	1 04/15/2014 8:33	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140407-01

Lab ID: N0514-09

Project: Raytheon - Wayland

Collection Date: 04/07/14 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 19:59	76638
Acetic Acid	530		50	mg/L		10 04/18/2014 9:57	76638
Propionic Acid	8.5		5.0	mg/L		1 04/17/2014 19:59	76638
Butyric Acid	39		5.0	mg/L		1 04/17/2014 19:59	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	36		2.0	mg/L		1 04/09/2014 17:58	76537
Nitrogen, Nitrate (As N)	0.11	J	0.13	mg/L		1 04/09/2014 17:58	76537
Sulfate	0.64	J	5.0	mg/L		1 04/09/2014 17:58	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	140		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 04/15/2014 11:46	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.89		0.10	mg/L		2 04/09/2014 15:58	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	270		10	mg/L		1 04/15/2014 8:53	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140407-01

Lab ID: N0514-10

Project: Raytheon - Wayland

Collection Date: 04/07/14 10:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L	1	04/17/2014 20:20	76638
Acetic Acid	620		50	mg/L	10	04/18/2014 10:18	76638
Propionic Acid	5.5		5.0	mg/L	1	04/17/2014 20:20	76638
Butyric Acid	32		5.0	mg/L	1	04/17/2014 20:20	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	29		2.0	mg/L	1	04/09/2014 18:09	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	04/09/2014 18:09	76537
Sulfate	0.44	J	5.0	mg/L	1	04/09/2014 18:09	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	59		20	mg/L CaCO3	1	04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.0		1.0	S.U.	1	04/15/2014 11:47	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L	1	04/09/2014 16:01	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	270		10	mg/L	1	04/15/2014 9:13	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140406-01

Lab ID: N0514-11

Project: Raytheon - Wayland

Collection Date: 04/06/14 13:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 20:42	76638
Acetic Acid	12		5.0	mg/L		1 04/17/2014 20:42	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 20:42	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 20:42	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	8.0		2.0	mg/L		1 04/09/2014 18:21	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:21	76537
Sulfate	4.3	J	5.0	mg/L		1 04/09/2014 18:21	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	26		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.0		1.0	S.U.		1 04/15/2014 11:48	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.36		0.050	mg/L		1 04/09/2014 16:04	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	52		10	mg/L		1 04/15/2014 9:33	76597

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140406-01

Lab ID: N0514-12

Project: Raytheon - Wayland

Collection Date: 04/06/14 15:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
Acetic Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	5.1		2.0	mg/L		1 04/09/2014 18:33	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:33	76537
Sulfate	21		5.0	mg/L		1 04/09/2014 18:33	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.8		1.0	S.U.		1 04/15/2014 11:49	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.085		0.050	mg/L		1 04/09/2014 16:06	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	22	B	10	mg/L		1 04/15/2014 12:36	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-5-20140406-01

Lab ID: N0514-13

Project: Raytheon - Wayland

Collection Date: 04/06/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 21:25	76638
Acetic Acid	15		5.0	mg/L		1 04/17/2014 21:25	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 21:25	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 21:25	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	6.4		2.0	mg/L		1 04/09/2014 18:45	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:45	76537
Sulfate	6.3		5.0	mg/L		1 04/09/2014 18:45	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.7		1.0	S.U.		1 04/15/2014 11:50	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.50		0.050	mg/L		1 04/09/2014 16:09	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	29	B	10	mg/L		1 04/15/2014 12:55	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140406-01

Lab ID: N0514-14

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 21:46	76638
Acetic Acid	340		50	mg/L		10 04/18/2014 10:40	76638
Propionic Acid	2.0	J	5.0	mg/L		1 04/17/2014 21:46	76638
Butyric Acid	8.5		5.0	mg/L		1 04/17/2014 21:46	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	37		2.0	mg/L		1 04/09/2014 18:56	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:56	76537
Sulfate	14		5.0	mg/L		1 04/09/2014 18:56	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	34		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.3		1.0	S.U.		1 04/15/2014 11:51	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.45		0.050	mg/L		1 04/09/2014 16:11	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	220	B	10	mg/L		1 04/15/2014 13:15	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140406-01

Lab ID: N0514-15

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 22:50	76638
Acetic Acid	110		10	mg/L		2 04/18/2014 11:01	76638
Propionic Acid	1.5	J	5.0	mg/L		1 04/17/2014 22:50	76638
Butyric Acid	0.60	J	5.0	mg/L		1 04/17/2014 22:50	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	25		2.0	mg/L		1 04/09/2014 19:08	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 19:08	76537
Sulfate	10		5.0	mg/L		1 04/09/2014 19:08	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 04/15/2014 11:53	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.10		0.050	mg/L		1 04/09/2014 16:14	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	63	B	10	mg/L		1 04/15/2014 13:35	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140406-01

Lab ID: N0514-16

Project: Raytheon - Wayland

Collection Date: 04/06/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 23:12	76638
Acetic Acid	310		50	mg/L		10 04/18/2014 11:23	76638
Propionic Acid	4.5	J	5.0	mg/L		1 04/17/2014 23:12	76638
Butyric Acid	5.5		5.0	mg/L		1 04/17/2014 23:12	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	24		2.0	mg/L		1 04/09/2014 19:20	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 19:20	76537
Sulfate	1.7	J	5.0	mg/L		1 04/09/2014 19:20	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	49		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 04/15/2014 11:54	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.18		0.050	mg/L		1 04/09/2014 16:17	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	150	B	10	mg/L		1 04/15/2014 13:54	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140406-01

Lab ID: N0514-17

Project: Raytheon - Wayland

Collection Date: 04/06/14 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 23:33	76638
Acetic Acid	340		50	mg/L		10 04/18/2014 11:44	76638
Propionic Acid	3.1	J	5.0	mg/L		1 04/17/2014 23:33	76638
Butyric Acid	8.2		5.0	mg/L		1 04/17/2014 23:33	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	27		2.0	mg/L		1 04/09/2014 19:32	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 19:32	76537
Sulfate	13		5.0	mg/L		1 04/09/2014 19:32	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	33		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 04/15/2014 11:55	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.16		0.050	mg/L		1 04/09/2014 16:19	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	180	B	10	mg/L		1 04/15/2014 14:14	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140406-01

Lab ID: N0514-18

Project: Raytheon - Wayland

Collection Date: 04/06/14 12:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 23:55	76638
Acetic Acid	1.3	J	5.0	mg/L		1 04/17/2014 23:55	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 23:55	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 23:55	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	2.0	J	2.0	mg/L		1 04/09/2014 19:43	76537
Nitrogen, Nitrate (As N)	1.5		0.13	mg/L		1 04/09/2014 19:43	76537
Sulfate	13		5.0	mg/L		1 04/09/2014 19:43	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.3		1.0	S.U.		1 04/15/2014 11:56	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 04/09/2014 16:22	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	6.6	BJ	10	mg/L		1 04/15/2014 14:34	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140406-01

Lab ID: N0514-19

Project: Raytheon - Wayland

Collection Date: 04/06/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/18/2014 0:16	76638
Acetic Acid	48		5.0	mg/L		1 04/18/2014 0:16	76638
Propionic Acid	ND		5.0	mg/L		1 04/18/2014 0:16	76638
Butyric Acid	ND		5.0	mg/L		1 04/18/2014 0:16	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	22		2.0	mg/L		1 04/10/2014 8:16	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/10/2014 8:16	76537
Sulfate	34		5.0	mg/L		1 04/10/2014 8:16	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 04/15/2014 11:57	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.055		0.050	mg/L		1 04/09/2014 16:24	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	35	B	10	mg/L		1 04/15/2014 14:53	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140406-01

Lab ID: N0514-20

Project: Raytheon - Wayland

Collection Date: 04/06/14 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 04/18/2014 0:38	76638
Acetic Acid	93		5.0	mg/L		1 04/18/2014 0:38	76638
Propionic Acid	1.1	J	5.0	mg/L		1 04/18/2014 0:38	76638
Butyric Acid	1.1	J	5.0	mg/L		1 04/18/2014 0:38	76638
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	34		2.0	mg/L		1 04/10/2014 8:44	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/10/2014 8:44	76537
Sulfate	30		5.0	mg/L		1 04/10/2014 8:44	76537
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 14:00	76576
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.6		1.0	S.U.		1 04/15/2014 11:58	R80881
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 04/09/2014 16:27	76535
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	55	B	10	mg/L		1 04/15/2014 15:13	76601

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0514

E300_VOA_W

Project: Raytheon - Wayland

EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: MB-76638	SampType: MBLK	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A						
Client ID: MB-76638	Batch ID: 76638	Units: mg/L	Analysis Date: 04/17/14 14:58	SeqNo: 2072078						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	ND	2.2			5.0					
Acetic Acid	ND	0.35			5.0					
Propionic Acid	ND	0.50			5.0					
Butyric Acid	ND	0.45			5.0					

Sample ID: LCS-76638	SampType: LCS	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A						
Client ID: LCS-76638	Batch ID: 76638	Units: mg/L	Analysis Date: 04/17/14 15:20	SeqNo: 2072079						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	44.95	2.2	0	89.9	75	125	0			
Acetic Acid	48.35	0.35	0	96.7	75	125	0			
Propionic Acid	47.19	0.50	0	94.4	75	125	0			
Butyric Acid	46.65	0.45	0	93.3	75	125	0			

Sample ID: N0514-01BMS	SampType: MS	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A						
Client ID: MW-261S-20140408-	Batch ID: 76638	Units: mg/L	Analysis Date: 04/17/14 16:03	SeqNo: 2072081						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	48.45	2.2	0	96.9	75	125	0			
Propionic Acid	52.93	0.50	5.437	95.0	75	125	0			
Butyric Acid	55.86	0.45	8.475	94.8	75	125	0			

Sample ID: N0514-01BMS	SampType: MS	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A						
Client ID: MW-261S-20140408-	Batch ID: 76638	Units: mg/L	Analysis Date: 04/18/14 1:21	SeqNo: 2072098						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetic Acid	299.0	1.8	255.7	86.6	75	125	0			

Sample ID: N0514-01BMSD	SampType: MSD	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A						
Client ID: MW-261S-20140408-	Batch ID: 76638	Units: mg/L	Analysis Date: 04/17/14 16:24	SeqNo: 2072082						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	47.86	2.2	0	95.7	75	125	48.45	1.22	25	
Propionic Acid	52.60	0.50	5.437	94.3	75	125	52.93	0.629	25	
Butyric Acid	56.20	0.45	8.475	95.4	75	125	55.86	0.598	25	

Qualifiers: ND - Not Detected at the MDL

J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0514
Project: Raytheon - Wayland

E300_VOA_W
EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: N0514-01BMSD	SampType: MSD	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A
Client ID: MW-261S-20140408-	Batch ID: 76638	Units: mg/L	Analysis Date: 04/18/14 1:42	SeqNo: 2072099
Analyte	Result	MDL	SPK Ref Val	%REC
Acetic Acid	298.2	1.8	255.7	84.9
		RL	LowLimit	HighLimit
		25	75	125
			RPD Ref Val	%RPD
			299.0	0.284
			RPDLimit	Qual
				25

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0514
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W
EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: MB-76537	SampType: MBLK	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140409A							
Client ID: MB-76537	Batch ID: 76537	Units: mg/L	Analysis Date: 04/09/14 15:49	SeqNo: 2069423							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.28	2.0								
Nitrogen, Nitrate (As N)	ND	0.083	0.13								
Sulfate	ND	0.15	5.0								

Sample ID: LCS-76537	SampType: LCS	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140409A							
Client ID: LCS-76537	Batch ID: 76537	Units: mg/L	Analysis Date: 04/09/14 14:15	SeqNo: 2069415							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.97	0.28	2.0	0	99.8	90	11.0	0			
Nitrogen, Nitrate (As N)	0.9981	0.083	0.13	0	99.8	90	11.0	0			
Sulfate	40.26	0.15	5.0	0	101	90	11.0	0			

Sample ID: N0514-20EMS	SampType: MS	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140410A							
Client ID: REW-12-20140406-0	Batch ID: 76537	Units: mg/L	Analysis Date: 04/10/14 8:56	SeqNo: 2069622							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	49.24	0.28	2.0	34.09	94.7	80	12.0	0			
Nitrogen, Nitrate (As N)	0.9741	0.083	0.13	0	97.4	80	12.0	0			
Sulfate	70.44	0.15	5.0	30.42	100	80	12.0	0			

Sample ID: N0514-20EMSD	SampType: MSD	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140410A							
Client ID: REW-12-20140406-0	Batch ID: 76537	Units: mg/L	Analysis Date: 04/10/14 9:08	SeqNo: 2069623							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	49.52	0.28	2.0	34.09	96.5	80	12.0	49.24	0.571	20	
Nitrogen, Nitrate (As N)	0.9770	0.083	0.13	0	97.7	80	12.0	0.9741	0.293	20	
Sulfate	71.36	0.15	5.0	30.42	102	80	12.0	70.44	1.31	20	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.04.18.0954 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0514

SM2320_W

Project: Raytheon - Wayland

SM 2320B -- Alkalinity (Total)

Sample ID: MB-76576	SampType: MBLK	TestCode: SM2320_W	Prep Date: 04/11/14 13:15	Run ID: MANUAL_140411A
Client ID: MB-76576	Batch ID: 76576	Units: mg/L CaCO3	Analysis Date: 04/11/14 13:15	SeqNo: 2071169
Analyte	Result	MDL	SPK Ref Val	%REC
Alkalinity, Total (As CaCO3)	ND	20	0	95.0
		20	0	80
		20	0	1.20
		20	0	0
		20	0	95.00
		20	0	1.05

Sample ID: LCS-76576	SampType: LCS	TestCode: SM2320_W	Prep Date: 04/11/14 13:15	Run ID: MANUAL_140411A
Client ID: LCS-76576	Batch ID: 76576	Units: mg/L CaCO3	Analysis Date: 04/11/14 13:15	SeqNo: 2071170
Analyte	Result	MDL	SPK Ref Val	%REC
Alkalinity, Total (As CaCO3)	95.00	20	0	95.0
		20	0	80
		20	0	1.20
		20	0	0
		20	0	95.00
		20	0	1.05

Sample ID: LCSD-76576	SampType: LCSD	TestCode: SM2320_W	Prep Date: 04/11/14 13:15	Run ID: MANUAL_140411A
Client ID: LCSD-76576	Batch ID: 76576	Units: mg/L CaCO3	Analysis Date: 04/11/14 13:15	SeqNo: 2071171
Analyte	Result	MDL	SPK Ref Val	%REC
Alkalinity, Total (As CaCO3)	96.00	20	0	96.0
		20	0	80
		20	0	1.20
		20	0	1.05
		20	0	20

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.04.18.0954 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0514

SM4500_OP_W

Project: Raytheon - Wayland

SM 4500P-E OP -- Orthophosphate

Sample ID: MB-76535	SampType: MBLK	TestCode: SM4500_OP_W	Prep Date: 04/09/14 15:30	Run ID: SPEC2_140409A
Client ID: MB-76535	Batch ID: 76535	Units: mg/L	Analysis Date: 04/09/14 15:30	SeqNo: 2069517
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	0.050	0	106
			LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCS-76535	SampType: LCS	TestCode: SM4500_OP_W	Prep Date: 04/09/14 15:30	Run ID: SPEC2_140409A
Client ID: LCS-76535	Batch ID: 76535	Units: mg/L	Analysis Date: 04/09/14 15:32	SeqNo: 2069518
Analyte	Result	MDL	SPK Ref Val	%REC
	0.4380	0.050	0	106
			LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCSD-76535	SampType: LCSD	TestCode: SM4500_OP_W	Prep Date: 04/09/14 15:30	Run ID: SPEC2_140409A
Client ID: LCSD-76535	Batch ID: 76535	Units: mg/L	Analysis Date: 04/09/14 15:35	SeqNo: 2069519
Analyte	Result	MDL	SPK Ref Val	%REC
	0.4350	0.050	0	105
			LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPDLimit	Qual

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.04.18.0954 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N0514
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM5310B_TOC_W
SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: MB-76597	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 04/14/14 11:01	Run ID: TOC1_140414A
Client ID: MB-76597	Batch ID: 76597	Units: mg/L	Analysis Date: 04/14/14 16:07	SeqNo: 2070839
Analyte	Result	MDL	SPK value	SPK Ref Val
	ND	2.0	%REC LowLimit HighLimit	RPD Ref Val
Organic Carbon, Total				%RPD RPDLimit
				Qual

Sample ID: MB-76601	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 04/14/14 13:59	Run ID: TOC1_140414A
Client ID: MB-76601	Batch ID: 76601	Units: mg/L	Analysis Date: 04/15/14 9:53	SeqNo: 2070880
Analyte	Result	MDL	SPK value	SPK Ref Val
	2.698	2.0	%REC LowLimit HighLimit	RPD Ref Val
Organic Carbon, Total				%RPD RPDLimit
				Qual

Sample ID: LCS-76597	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 04/14/14 11:01	Run ID: TOC1_140414A
Client ID: LCS-76597	Batch ID: 76597	Units: mg/L	Analysis Date: 04/14/14 16:29	SeqNo: 2070840
Analyte	Result	MDL	SPK value	SPK Ref Val
	63.59	2.0	106	0
Organic Carbon, Total			80	120
				0

Sample ID: LCS-76601	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 04/14/14 13:59	Run ID: TOC1_140414A
Client ID: LCS-76601	Batch ID: 76601	Units: mg/L	Analysis Date: 04/15/14 10:12	SeqNo: 2070861
Analyte	Result	MDL	SPK value	SPK Ref Val
	48.83	2.0	81.4	0
Organic Carbon, Total			80	120
				0

Sample ID: LCSD-76601	SampType: LCSD	TestCode: SM5310B_TOC_W	Prep Date: 04/14/14 13:59	Run ID: TOC1_140414A
Client ID: LCSD-76601	Batch ID: 76601	Units: mg/L	Analysis Date: 04/15/14 10:31	SeqNo: 2070862
Analyte	Result	MDL	SPK value	SPK Ref Val
	51.88	2.0	86.5	0
Organic Carbon, Total			80	120
				48.83

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.04.18.0954 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Report Date:
21-Apr-14 14:54



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Agnes Huntley

Project: Raytheon-Wayland
Project #: N0514

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB87849-01	MW-261S-20140408-01	Aqueous	08-Apr-14 07:20	17-Apr-14 18:25
SB87849-02	MW-265M-20140408-01	Aqueous	08-Apr-14 08:45	17-Apr-14 18:25
SB87849-03	MW-268S-20140407-01	Aqueous	07-Apr-14 08:45	17-Apr-14 18:25
SB87849-04	MW-268M-20140407-01	Aqueous	07-Apr-14 09:25	17-Apr-14 18:25
SB87849-05	MW-552-20140407-01	Aqueous	07-Apr-14 15:25	17-Apr-14 18:25
SB87849-06	MW-553-20140407-01	Aqueous	07-Apr-14 14:30	17-Apr-14 18:25
SB87849-07	MW-560-20140407-01	Aqueous	07-Apr-14 11:10	17-Apr-14 18:25
SB87849-08	MW-561-20140407-01	Aqueous	07-Apr-14 12:00	17-Apr-14 18:25
SB87849-09	MW-562-20140407-01	Aqueous	07-Apr-14 13:30	17-Apr-14 18:25
SB87849-10	MW-563-20140407-01	Aqueous	07-Apr-14 10:20	17-Apr-14 18:25
SB87849-11	REW-1-20140406-01	Aqueous	06-Apr-14 13:45	17-Apr-14 18:25
SB87849-12	REW-4-20140406-01	Aqueous	06-Apr-14 15:20	17-Apr-14 18:25
SB87849-13	REW-5-20140406-01	Aqueous	06-Apr-14 14:30	17-Apr-14 18:25
SB87849-14	REW-6-20140406-01	Aqueous	06-Apr-14 09:05	17-Apr-14 18:25
SB87849-15	REW-7-20140406-01	Aqueous	06-Apr-14 09:35	17-Apr-14 18:25
SB87849-16	REW-8-20140406-01	Aqueous	06-Apr-14 10:45	17-Apr-14 18:25
SB87849-17	REW-9-20140406-01	Aqueous	06-Apr-14 11:40	17-Apr-14 18:25
SB87849-18	REW-10-20140406-01	Aqueous	06-Apr-14 12:25	17-Apr-14 18:25
SB87849-19	REW-11-20140406-01	Aqueous	06-Apr-14 08:15	17-Apr-14 18:25
SB87849-20	REW-12-20140406-01	Aqueous	06-Apr-14 13:10	17-Apr-14 18:25

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

A handwritten signature in black ink that reads "Nicole Leja". The signature is written in a cursive, flowing style.

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

This laboratory report is not valid without an authorized signature on the cover page.

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received -0.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client: Spectrum Analytical, Inc. - North Kingstown, RI
 Project: Raytheon-Wayland / N0514
 Work Order: SB87849
 Sample(s) received on: 4/17/2014
 Received by: Mary Wilson

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification
MW-261S-20140408-01
SB87849-01

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
08-Apr-14 07:20

Received
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	---------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample Identification
MW-265M-20140408-01
SB87849-02

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
08-Apr-14 08:45

Received
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

Ammonia as N	0.490			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample Identification
MW-268S-20140407-01
SB87849-03

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
07-Apr-14 08:45

Received
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	---------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample Identification
MW-268M-20140407-01
SB87849-04

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
07-Apr-14 09:25

Received
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	---------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample Identification
MW-552-20140407-01
SB87849-05

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
07-Apr-14 15:25

Received
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample Identification
MW-553-20140407-01
SB87849-06

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
07-Apr-14 14:30

Received
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	---------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-560-20140407-01 SB87849-07	N0514	Aqueous	07-Apr-14 11:10	17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.280			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-561-20140407-01 SB87849-08	N0514	Aqueous	07-Apr-14 12:00	17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.560			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-562-20140407-01 SB87849-09	N0514	Aqueous	07-Apr-14 13:30	17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	2.17			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-563-20140407-01 SB87849-10	N0514	Aqueous	07-Apr-14 10:20	17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	---------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
REW-1-20140406-01 SB87849-11	N0514	Aqueous	06-Apr-14 13:45	17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.490			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
REW-4-20140406-01 SB87849-12	N0514	Aqueous	06-Apr-14 15:20	17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.630			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--------------	-------	--	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample IdentificationREW-5-20140406-01
SB87849-13Client Project #
N0514Matrix
AqueousCollection Date/Time
06-Apr-14 14:30Received
17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

	Ammonia as N	< 0.200		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	---------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-6-20140406-01
SB87849-14Client Project #
N0514Matrix
AqueousCollection Date/Time
06-Apr-14 09:05Received
17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

	Ammonia as N	< 0.200		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	---------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-7-20140406-01
SB87849-15Client Project #
N0514Matrix
AqueousCollection Date/Time
06-Apr-14 09:35Received
17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

	Ammonia as N	< 0.200		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	---------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-8-20140406-01
SB87849-16Client Project #
N0514Matrix
AqueousCollection Date/Time
06-Apr-14 10:45Received
17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

	Ammonia as N	0.420		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	-------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-9-20140406-01
SB87849-17Client Project #
N0514Matrix
AqueousCollection Date/Time
06-Apr-14 11:40Received
17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

	Ammonia as N	0.210		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	-------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample IdentificationREW-10-20140406-01
SB87849-18Client Project #
N0514Matrix
AqueousCollection Date/Time
06-Apr-14 12:25Received
17-Apr-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

	Ammonia as N	< 0.200		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	---------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification
REW-11-20140406-01
SB87849-19

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
06-Apr-14 08:15

Received
17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

	Ammonia as N	< 0.200		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	---------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

Sample Identification
REW-12-20140406-01
SB87849-20

Client Project #
N0514

Matrix
Aqueous

Collection Date/Time
06-Apr-14 13:10

Received
17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

	Ammonia as N	< 0.200		mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
--	--------------	---------	--	------	-------	-------	---	---------------	-----------	-----------	-----	---------	---

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408590 - General Preparation										
<u>Blank (1408590-BLK1)</u>					<u>Prepared & Analyzed: 21-Apr-14</u>					
Ammonia as N	< 0.200		mg/l	0.200						
<u>LCS (1408590-BS1)</u>					<u>Prepared & Analyzed: 21-Apr-14</u>					
Ammonia as N	5.32		mg/l	0.200	5.00		106	90-110		
<u>Reference (1408590-SRM1)</u>					<u>Prepared & Analyzed: 21-Apr-14</u>					
Ammonia as N	1.82		mg/l	0.200	1.92		95	84-116		

This laboratory report is not valid without an authorized signature on the cover page.

Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:



CHAIN-OF-CUSTODY RECORD

OB: 87849-01

WorkOrder : N0514

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 4/21/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0514

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
Spectrum Analytical, Inc. - Agawam, MA
11 Almgreen Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID														
MMW-261S-20140408-01	04/08/2014 07:20	1	Aqueous		N0514-01G	X													87849-01
MMW-265M-20140408-01	04/08/2014 08:45	1	Aqueous		N0514-02G	X													03
MMW-268S-20140407-01	04/07/2014 08:45	1	Aqueous		N0514-03G	X													03
MMW-268M-20140407-01	04/07/2014 09:25	1	Aqueous		N0514-04G	X													04
MMW-552-20140407-01	04/07/2014 15:25	1	Aqueous		N0514-05G	X													05
MMW-553-20140407-01	04/07/2014 14:30	1	Aqueous		N0514-06G	X													06

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: MA Site, MCP/CAM reporting.

Relinquished by:		Date/Time	04/11/14 8:46
Relinquished by:		Received by:	
Relinquished by:		Received by:	
		Date/Time	4/17/14 18:35

02/11/02/R02
4-17-14



CHAIN-OF-CUSTODY RECORD

SB87849-02

WorkOrder : N0514

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 4/21/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0514

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
Spectrum Analytical, Inc. - Agawam, MA
11 Almgren Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/M/MS/MSD	Milekem Sample ID	SM4500 NH3 W
MMW-560-20140407-01	04/07/2014 11:10	1	Aqueous		N0514-07G	X
MMW-561-20140407-01	04/07/2014 12:00	1	Aqueous		N0514-08G	X
MMW-562-20140407-01	04/07/2014 13:30	1	Aqueous		N0514-09G	X
MMW-563-20140407-01	04/07/2014 10:20	1	Aqueous		N0514-10G	X
REW-1-20140406-01	04/06/2014 13:45	1	Aqueous		N0514-11G	X
REW-4-20140406-01	04/06/2014 15:20	1	Aqueous		N0514-12G	X

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample ID#' when reporting data. If needed, truncate 'Client Sample ID#' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: MA Site, MCP/CAM reporting.

Relinquished by: *Agnes R Huntley*
Date/Time: 04/11/14 8:46

Received by: *Bob Huntley*
Date/Time: 4-17-14 18:00

02-11-021R-02
4-17-14
RB



CHAIN-OF-CUSTODY RECORD

SBS87849-02

WorkOrder : N0514

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 4/21/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0514

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
Spectrum Analytical, Inc. - Agawam, MA
11 Almgren Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	# Matrix	DUP/MIS/MSD	Mitkem Sample ID	SM4500 NH3 W
REW-5-20140406-01	04/06/2014 14:30	1	Aqueous	N0514-13G	X
REW-6-20140406-01	04/06/2014 09:05	1	Aqueous	N0514-14G	X
REW-7-20140406-01	04/06/2014 09:35	1	Aqueous	N0514-15G	X
REW-8-20140406-01	04/06/2014 10:45	1	Aqueous	N0514-16G	X
REW-9-20140406-01	04/06/2014 11:40	1	Aqueous	N0514-17G	X
REW-10-20140406-01	04/06/2014 12:25	1	Aqueous	N0514-18G	X

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample ID's' when reporting data. If needed, truncate 'Client Sample ID's' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: MA Site, MCP/CAM reporting.

Relinquished by:	<i>Agnes R Huntley</i>	Date/Time	04/11/14 8:46
Received by:	<i>Agnes R Huntley</i>	Date/Time	4/17/14 12:51
Relinquished by:	<i>Greg Kelly</i>	Received by:	<i>MPB</i>
	<i>124=</i>	Date/Time	4/17/14 18:05

02H1001R02
4-17-14



CHAIN-OF-CUSTODY RECORD

SB 87849-UC

WorkOrder : N0514

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 4/21/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0514

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:

Spectrum Analytical, Inc. - Agawam, MA

11 Almgren Drive

Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SM 4500 NH3 W																
REW-11-20140406-01	04/06/2014 08:15	1	Aqueous		N0514-19G	X																
REW-12-20140406-01	04/06/2014 13:10	1	Aqueous		N0514-20G	X																

87849-19
20

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: MA Site, MCP/CAM reporting.

Relinquished by:		Date/Time	04/11/14 8:46	Received by:		Date/Time	4/17/14 18:05
Relinquished by:				Received by:			

QAL IR 03
4-17-14

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-01A	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	RSK175	/					VOA
N0514-01B	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-01C	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-01D	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-01E	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-01E	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-01E	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-01F	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-01G	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-02A	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	RSK175	/					VOA
N0514-02B	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-02C	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-02D	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-02E	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-02E	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-02E	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-02F	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-02G	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-03A	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	RSK175	/					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-03B	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-03C	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-03D	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-03E	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-03E	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-03E	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-03F	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-03G	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-04A	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	RSK175	/					VOA
N0514-04B	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-04C	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-04D	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-04E	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-04E	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-04E	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-04F	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-04G	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-05A	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	RSK175	/					VOA
N0514-05B	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

EDD: CLF

Report Level: LEVEL 2

Special Program:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-05C	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-05D	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-05E	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-05E	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-05E	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-05F	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-05G	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-06A	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	RSK175	/					VOA
N0514-06B	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-06C	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-06D	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-06E	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-06E	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-06E	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-06F	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-06G	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-07A	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	RSK175	/					VOA
N0514-07B	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-07C	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-07D	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-07E	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-07E	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-07E	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-07F	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-07G	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-08A	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	RSK175	/					VOA
N0514-08B	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-08C	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-08D	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-08E	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-08E	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-08E	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-08F	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-08G	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-09A	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	RSK175	/					VOA
N0514-09B	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-09C	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-09D	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-09E	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-09E	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-09E	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-09F	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-09G	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-10A	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	RSK175	/					VOA
N0514-10B	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-10C	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-10D	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-10E	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-10E	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-10E	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-10F	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-10G	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-11A	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	RSK175	/					VOA
N0514-11B	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-11C	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-11D	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-11E	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-11E	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-11E	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-11F	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-11G	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-12A	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	RSK175	/					VOA
N0514-12B	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-12C	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-12D	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-12E	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-12E	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-12E	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-12F	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-12G	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-13A	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	RSK175	/					VOA
N0514-13B	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-13C	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-13D	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-13E	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-13E	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM2320_W	/					E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-13E	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-13F	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-13G	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-14A	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	RSK175	/					VOA
N0514-14B	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-14C	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-14D	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-14E	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-14E	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-14E	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-14F	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-14G	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-15A	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	RSK175	/					VOA
N0514-15B	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-15C	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-15D	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-15E	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-15E	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-15E	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM4500_H+	/					E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

EDD: CLF

Report Level: LEVEL 2

Special Program:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-15F	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-15G	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-16A	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	RSK175	/					VOA
N0514-16B	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-16C	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-16D	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-16E	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-16E	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-16E	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-16F	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-16G	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-17A	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	RSK175	/					VOA
N0514-17B	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-17C	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-17D	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-17E	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-17E	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-17E	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-17F	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM4500_OP_W	/					E2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-17G	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-18A	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	RSK175	ONLY 1 VIAL USE CAUTION /					VOA
N0514-18B	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-18C	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-18D	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-18E	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-18E	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-18E	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-18F	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-18G	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-19A	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	RSK175	/					VOA
N0514-19B	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-19C	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-19D	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-19E	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-19E	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-19E	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-19F	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-19G	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

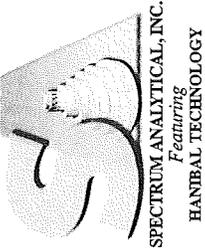
Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-20A	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	RSK175	/					VOA
N0514-20B	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-20C	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-20D	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-20E	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-20E	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-20E	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-20F	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-20G	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-21A	TRIP BLANK	04/08/2014 00:00	04/09/2014	Aqueous	RSK175	/					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



CHAIN OF CUSTODY RECORD

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

8405 Benjamin Road, Ste A
Tampa, FL 33634
(813) 888-9507

646 Camp Avenue
N Kingstown, RI 02852
(401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 Samples disposed of after 60 days unless otherwise instructed.

Report To:

Innovative Engineering Solutions Inc
25 Spring St
Waltham MA 02081

Telephone #: 508-657-0033

Project Mgr. Vicki Peavner

Invoice To: S&M

Project No.: RA-008

Site Name: Reddick Wisconsin

Location: Wisconsin State: MA

Sampler(s): Danny Smith

P.O. No.: RA-008 RQN:

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8= NaHSO₄ 9= Deionized Water 10=H₂PO₄ 11= NaCl 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

Containers:

Analytes:

QA/QC Reporting Level

- Level I Level II
 Level III Level IV
 Other SWI

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
N0514-01	MW-3612-20140408-01	41 8 114	0730	C	SW	6	6	6	6
-02	MW-3630-20140408-01	41 8 114	0845	C	SW	6	6	6	6
-03	MW-3682-20140407-01	41 7 114	0845	C	SW	6	6	6	6
-04	MW-3683-20140407-01	41 7 114	0925	C	SW	6	6	6	6
-05	MW-552-20140407-01	41 7 114	1525	C	SW	6	6	6	6
-06	MW-553-20140407-01	41 7 114	1430	C	SW	6	6	6	6
-07	MW-560-20140407-01	41 7 114	1110	C	SW	6	6	6	6
-08	MW-561-20140407-01	41 7 114	1300	C	SW	6	6	6	6
-09	MW-562-20140407-01	41 7 114	1330	C	SW	6	6	6	6
-10	MW-563-20140407-01	41 7 114	1030	C	SW	6	6	6	6

Relinquished by:

Received by:

Date:

Time:

Temp °C

[Signature]

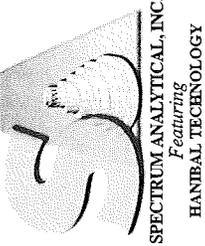
[Signature]

4/8/14

11:3

Sub Out FRIDAE
04/08/14 16:20
04/09/14 13:00
2.5C

EDD Format
 E-mail to v.peavner@innovative.com
 Condition upon receipt: Ambient Refrigerated DI/VOA Frozen Intact Broken Soil for Frozen



Page 3 of 3
CHAIN OF CUSTODY RECORD
 11 Almgren Drive
 8405 Benjamin Road, Ste A
 Agawam, MA 01001
 Tampa, FL 33634
 (413) 789-9018
 (813) 888-9507

Special Handling:
 TAT- Ind icate Date Needed: _____
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 Samples disposed of after 60 days unless otherwise instructed.

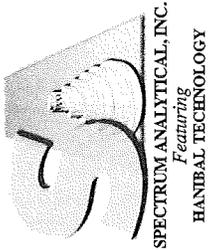
Report To: Environmental Engineering Solutions Inc
25 Spring St
Worcester MA 02081
 Telephone #: 508-673-0033
 Project Mgr: Sidki Panyan
 Invoice To: SEM
 Project No.: RA-008
 Site Name: Raytheon W. Camp
 Location: Worcester State: MA
 P.O. No.: RA-008 RQN: _____
 Sampler(s): Daisy Sosis

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8= NaHSO₄ 9= Deionized Water 10=H₂PO₄ 11= NONE 12= _____
 DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

List preservative code below:
 3 3 4 10 2 11 11
 Analyses:
 # of Amber Glass
 # of Clear Glass
 # of Plastic
 Matrix
 Type
 Date
 Time
 G=Grab C=Composite
 QA/QC Reporting Notes:
 QA/QC Reporting Level
 Level I
 Level II
 Level III
 Level IV
 Other SW-1
 State-specific reporting standards: _____

Lab Id	Sample Id	Date	Time	Type	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Matrix	Type	Date	Time
11	RA-008-1-20140406-01	4/16/14	1345	G	6			4	SW	G	4/16/14	11:05
12	RA-008-2-20140406-01	4/16/14	1520	C	6		4	4	SW	G	04/08/14	16:20
13	RA-008-3-20140406-01	4/16/14	1430	G	6		4	4	SW	G	04/09/14	13:00
14	RA-008-4-20140406-01	4/16/14	0905	G	6		4	4	SW	G		
15	RA-008-5-20140406-01	4/16/14	0935	G	6		4	4	SW	G		
16	RA-008-6-20140406-01	4/16/14	1045	G	6		4	4	SW	G		
17	RA-008-7-20140406-01	4/16/14	1140	G	6		4	4	SW	G		
18	RA-008-8-20140406-01	4/16/14	1225	G	6		4	4	SW	G		
19	RA-008-9-20140406-01	4/16/14	0815	G	6		4	4	SW	G		
20	RA-008-10-20140406-01	4/16/14	1310	G	6		4	4	SW	G		

Relinquished by: [Signature] Received by: [Signature]
 E-mail to: APRIL@SEMTESTLINE.COM
 Condition upon receipt: Ambient Filled Refrigerated DIVOAF Frozen Intact Broken Soil for Frozen
 www.spectrum-analytical.com
 Revised Feb 2013



CHAIN OF CUSTODY RECORD

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

8405 Benjamin Road, Ste A
Tampa, FL 33634
(813) 888-9507

646 Camp Avenue
N Kingstown, RI 02852
(401) 732-3400

Special Handling:

TAT- Ind icate Date Needed: _____
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 Samples disposed of after 60 days unless otherwise instructed.

Report To: Innovative Engineering Solutions, Inc.
25 Spinn ST
Westerly, MA 02081
 Telephone #: 508-668-0033
 Project Mgr. Vicki P. [Signature]

Invoice To: SCMC

P.O. No.: RA-008 RQN: _____

Project No.: RA-008
 Site Name: Rancho - Wayland
 Location: Wayland State: MA
 Sampler(s): Danny Jones

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8= NaHSO₄ 9= Deionized Water 10=H₃PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

List preservative code below:

2			
---	--	--	--

QA/QC Reporting Notes:

QA/QC Reporting Level

- Level I Level II
 Level III Level IV
 Other LOW-1

State-specific reporting standards:

Analyses:

Containers:

# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
00			

Lab Id.	Sample Id.	Date:	Time:	Type	Matrix	Date:	Time:	Temp°C
N0514-21	Trip Blank					4/8/14	11:15	
						04-08-14	11:20	
						04-08-14	11:21	
						04/08/14	13:00	25°C

Relinquished by: [Signature]
 Received by: [Signature]
Sub out PRIDGATE
[Signature]

EDD Format _____
 E-mail to _____

Condition upon receipt: Present Intact Broken
 Ambient Refrigerated D/VOA Frozen Soil for Frozen

1.0/0.1.0/RO1
DATE 04-08-14

Received By: VEB		Page 01 of 01	
Reviewed By: RP		Log-in Date 04/09/2014	
Work Order: N0514		Client Name: Innovative Engineering Solutions, Inc.	
Project Name/Event: Raytheon - Wayland			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			
		Preservation (pH)	
		HNO3	H2SO4
		HCl	NaOH
		H3PO4	VOA Matrix
		Soil HeadSpace or Air Bubble > or equal to 1/4"	
1. Custody Seal(s)	Present / Absent	Lab Sample ID	
		N0514-01	<2 <2
	Intact / Broken	N0514-02	<2 <2
2. Custody Seal Nos.	N/A	N0514-03	<2 <2
		N0514-04	<2 <2
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	N0514-05	<2 <2
		N0514-06	<2 <2
		N0514-07	<2 <2
4. Airbill	AirBill / Sticker	N0514-08	<2 <2
	Present / Absent	N0514-09	<2 <2
5. Airbill No.	Courier N/A	N0514-10	<2 <2
		N0514-11	<2 <2
6. Sample Tags	Present / Absent	N0514-12	<2 <2
Sample Tag Numbers	Listed /	N0514-13	<2 <2
	Not Listed on Chain-of-Custody	N0514-14	<2 <2
		N0514-15	<2 <2
7. Sample Condition	Intact / Broken / Leaking	N0514-16	<2 <2
		N0514-17	<2 <2
		N0514-18	<2 <2
		N0514-19	<2 <2
8. Cooler Temperature Indicator Bottle	Present / Absent	N0514-20	<2 <2
		N0514-21	<2 <2
9. Cooler Temperature	2.5 °C		
10. Does information on TR/COCs and sample tags agree?	Yes / No		
11. Date Received at Laboratory	04/09/2014		
12. Time Received	13:00		
Sample Transfer			
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO		
Area #	Area #		
By	By		
On	On		
IR Temp Gun ID: MT-74			
Coolant Condition: ICE			
Preservative Name/Lot No:			
		VOA Matrix Key:	
		US = Unpreserved Soil	A = Air
		UA = Unpreserved Aqueous	H = HCl
		M = MeOH	E = Encore
		N = NaHSO4	F = Freeze
		See Sample Condition Notification/Corrective Action Form Yes / No	
		Rad OK Yes / No	

Last Page of Data Report

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-276S-20140130-01	DATE	30-Jan-14
TIME	START 1225 END 1305		

**Innovative
Engineering
Solutions, Inc.**
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT					
<input checked="" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="text" value=""/>	FT	PROTECTIVE CASING/WELL DIFFERENCE
<input type="checkbox"/>	TOP OF PROTECTIVE CASING				<input type="text" value=""/>
<input type="checkbox"/>	OTHER				FT
INITIAL DEPTH TO WATER	<input type="text" value="11.91"/>	FT	WELL DEPTH	<input type="text" value="75.10"/>	FT
FINAL DEPTH TO WATER	<input type="text" value="15.66"/>	FT	SCREEN LENGTH	<input type="text" value=""/>	FT
DRAWDOWN VOLUME	<input type="text" value="0.61"/>	GAL	WELL INTEGRITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>	WELL DIAMETER
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})			CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="text" value="2 IN"/>
TOTAL VOLUME PURGED	<input type="text" value="3.12"/>	GAL	CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	PID AMBIENT AIR
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)			LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="text" value="NA PPM"/>
			COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	PID WELL MOUTH
					<input type="text" value="NA PPM"/>

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1225	12.46	300	8.83	426	5.68	49.28	N/A	15.8	
1235	14.32	300	9.76	468	5.63	5.90	N/A	-22.8	
1240	15.10	300	9.80	470	5.63	6.14	N/A	-23.6	
1245	15.41	300	9.78	472	5.62	6.09	N/A	-20.7	
1250	15.66	300	9.91	473	5.62	6.07	N/A	-26.2	
									sampled @ 1250

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
<u>GEO 2</u>	<u>SILICON/ POLY</u>	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, odor, no sheen

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED: _____

NOTES

SIGNATURE: _____ **DHR**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING			
PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-276M-20140130-01	DATE	30-Jan-14
TIME	START 1145 END 1220		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS							
MEASUREMENT POINT		PROTECTIVE CASING STICKUP (FROM GROUND)		PROTECTIVE CASING/WELL DIFFERENCE			
<input checked="" type="checkbox"/>	TOP OF WELL RISER						
<input type="checkbox"/>	TOP OF PROTECTIVE CASING						
<input type="checkbox"/>	OTHER						
INITIAL DEPTH TO WATER	10.24 FT	WELL DEPTH	98.00 FT	WELL DIAMETER	2 IN		
FINAL DEPTH TO WATER	12.11 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM		
DRAWDOWN VOLUME	0.14 GAL	WELL INTEGRITY	YES NO N/A	PID WELL MOUTH	NA PPM		
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
TOTAL VOLUME PURGED	2.73 GAL	CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)		LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>				
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				

PURGE DATA									
TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1145	11.11	300	8.03	489	6.34	4.58	N/A	-66.1	
1155	11.95	300	9.35	519	6.13	1.67	N/A	-48.1	
1200	12.06	300	9.29	532	6.16	1.52	N/A	-52.8	
1205	12.11	300	9.44	549	6.22	1.94	N/A	-61.9	
1210	12.11	300	9.31	563	6.28	1.56	N/A	-71.2	
									sampled @ 1210

EQUIPMENT DOCUMENTATION		
TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS		METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/>	TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	

PURGE WATER DESCRIPTION	clear, odor, no sheen	NOTES
PURGE WATER CONTAINERIZED	Pour back into well	SIGNATURE DHR
	NUMBER OF BUCKETS GENERATED	

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT RA-006 JOB NUMBER N/A
WELL ID MW-268M-20140130-01 DATE 30-Jan-14
TIME START 1100 END 1140

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 9.45 FT
FINAL DEPTH TO WATER 9.95 FT
DRAWDOWN VOLUME 0.08 GAL
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED 3.12 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL DEPTH 81.70 FT
SCREEN LENGTH _____ FT
WELL DIAMETER 2 IN

WELL INTEGRITY YES NO N/A
CAP
CASING
LOCKED
COLLAR

PID AMBIENT AIR NA PPM
PID WELL MOUTH NA PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1100	9.84	300	6.04	195	6.43	11.00	N/A	14.1	
1110	10.05	300	7.45	219	7.13	0.37	N/A	-129.4	
1115	9.95	300	7.08	219	7.19	0.34	N/A	-143.5	
1120	9.95	300	6.62	217	7.19	0.52	N/A	-145.1	
1125	9.95	300	6.39	216	7.19	0.40	N/A	-145.5	
									sampled @

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: GEO 2 TYPE OF TUBING: SILICON/ POLY TYPE OF PUMP MATERIAL: Peristaltic

ANALYTICAL PARAMETERS

<input type="checkbox"/>	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, odor, no sheen

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED: _____

NOTES

SIGNATURE: _____ **DHR**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT

RA-006

JOB NUMBER

N/A

WELL ID

MW-553-20140130-01

DATE

30-Jan-14

TIME

START 1005 END 1045

**Innovative
Engineering
Solutions, Inc.**
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT

TOP OF WELL RISER

TOP OF PROTECTIVE CASING

OTHER

PROTECTIVE

CASING STICKUP

(FROM GROUND)

_____ FT

PROTECTIVE

CASING/WELL

DIFFERENCE

_____ FT

INITIAL DEPTH

TO WATER

7.79 FT

WELL

DEPTH

64.80 FT

WELL

DIAMETER

2 IN

FINAL DEPTH

TO WATER

10.05 FT

SCREEN

LENGTH

_____ FT

PID

AMBIENT AIR

NA PPM

DRAWDOWN

VOLUME

0.37 GAL

WELL INTEGRITY

YES

NO

N/A

CAP

PID

WELL MOUTH

NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

LOCKED

COLLAR

TOTAL VOLUME

PURGED

3.12 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1005	8.04	300	9.98	493	5.73	13.2	N/A	31	
1015	9.41	300	9.25	517	5.67	2.99	N/A	20	
1020	9.60	300	9.47	519	5.67	5.14	N/A	16.4	
1025	9.99	300	9.44	518	5.66	5.84	N/A	13.1	
1030	10.05	300	9.55	520	5.55	7.20	N/A	12.3	
									sampled @ 1030

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

TYPE OF TUBING

TYPE OF PUMP MATERIAL

GEO 2

SILICON/ POLY

Peristaltic

ANALYTICAL PARAMETERS

TA

Spectrum

Spectrum

Spectrum

Spectrum

Spectrum

Spectrum

METHOD

NUMBER

8260

Dissolved Gases

TOC

Acids

Total Iron

NH3

PO4, Anions, pH, Alkalinity

PRESERVATION

METHOD

HCL/4 DEG C

HCL/4 DEG C

H3PO4/4 DEG C

4 DEG C

HNO3/4 DEG C

H2SO4/4 DEG C

4 DEG C

VOLUME

REQUIRED

3 x 40 ml

2 x 40 ml

2 x 40 ml

2 x 40 ml

1 x 250 ml

1 x 250 ml

1 x 500 ml

SAMPLE

COLLECTED

SAMPLE

RESULTS

PURGE WATER

DESCRIPTION

clear, odor, no sheen

NOTES

PURGE WATER

CONTAINERIZED

Pour back into well

NUMBER OF BUCKETS

GENERATED

SIGNATURE

DHR

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING		Innovative Engineering Solutions, Inc. 25 Spring Street Walpole Massachusetts 02081		
PROJECT	RA-006		JOB NUMBER	N/A
WELL ID	MW-561-20140130-01		DATE	30-Jan-14
TIME	START 0845 END 0950			

WATER LEVEL/PUMP SETTINGS			
MEASUREMENT POINT			
<input checked="" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	
<input type="checkbox"/>	TOP OF PROTECTIVE CASING		
<input type="checkbox"/>	OTHER _____		
INITIAL DEPTH TO WATER	10.62 FT	WELL DEPTH	53.45 FT
FINAL DEPTH TO WATER	10.9 FT	SCREEN LENGTH	_____ FT
DRAWDOWN VOLUME (initial - final x 0.163 {2-inch} or x 0.654 {4-inch})	0.05 GAL	WELL INTEGRITY	YES NO N/A
TOTAL VOLUME PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	5.07 GAL	CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0845	11.05	300	7.48	345	6.12	1.97	N/A	70.5	DupX
0855	10.90	300	7.88	345	6.72	0.14	N/A	-47.9	
0900	10.90	300	8.07	347	6.68	0.18	N/A	-57.6	
0905	10.90	300	8.17	348	6.66	0.20	N/A	-52.3	
0910	10.90	300	8.20	348	6.63	0.47	N/A	-52.8	
									sampled @ 0910

EQUIPMENT DOCUMENTATION			
TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	
GEO 2	SILICON/ POLY	Peristaltic	

ANALYTICAL PARAMETERS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION	clear, strong odor, no sheen	NOTES	
PURGE WATER CONTAINERIZED	Pour back into well		
NUMBER OF BUCKETS GENERATED		DupX	
		SIGNATURE _____	DHR

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: **RA-006** JOB NUMBER: **N/A**

WELL ID: **REW-7-20140130-01** DATE: **30-Jan-14**

TIME: START **1025** END **1100**

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) **_____ FT**

PROTECTIVE CASING/WELL DIFFERENCE **_____ FT**

INITIAL DEPTH TO WATER **Note 1 FT** WELL DEPTH **Note 1 FT** WELL DIAMETER **2 IN**

FINAL DEPTH TO WATER **Note 1 FT** SCREEN LENGTH **_____ FT** PID AMBIENT AIR **NA PPM**

DRAWDOWN VOLUME **Note 1 GAL** WELL INTEGRITY YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR

PID WELL MOUTH **NA PPM**

TOTAL VOLUME PURGED **1.82 GAL**

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1035	Note 1	200	7.98	267	6.78	0.54	N/A	-126.8	
1040	Note 1	200	7.94	266	6.79	0.46	N/A	-133.1	
1045	Note 1	200	8.22	270	6.79	0.44	N/A	-135.1	
1050	Note 1	200	7.91	267	6.79	0.42	N/A	-139.8	
									sampled @ 1050

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: GEO 2 TYPE OF TUBING: SILICON/ POLY TYPE OF PUMP MATERIAL: Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well NUMBER OF BUCKETS GENERATED: _____

NOTES
 Note 1: pump in well and operating

SIGNATURE: _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING		<i>Innovative Engineering Solutions, Inc.</i> 25 Spring Street Walpole Massachusetts 02081	
PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	REW-8-20140130-01	DATE	30-Jan-14
TIME	START 1230 END 1305		

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 TOP OF PROTECTIVE CASING PROTECTIVE CASING/WELL DIFFERENCE _____ FT
 OTHER _____

INITIAL DEPTH TO WATER Note 1 FT WELL DEPTH Note 1 FT WELL DIAMETER 2 IN

FINAL DEPTH TO WATER Note 1 FT SCREEN LENGTH _____ FT PID AMBIENT AIR NA PPM

DRAWDOWN VOLUME Note 1 GAL
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch}) WELL INTEGRITY YES NO N/A

TOTAL VOLUME PURGED 2.08 GAL CAP

LOCKED

COLLAR

WELL MOUTH PID NA PPM

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1240	Note 1	200	7.69	41	6.23	0.65	N/A	-61.1	
1245	Note 1	200	7.30	41	6.27	0.56	N/A	-63.9	
1250	Note 1	200	7.47	41	6.26	0.54	N/A	-66.4	
1255	Note 1	200	7.87	41	6.26	0.52	N/A	-70.3	
									sampled @ 1255

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
<u>GEO 2</u>	<u>SILICON/ POLY</u>	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
				<input type="checkbox"/>	
				<input type="checkbox"/>	
				<input type="checkbox"/>	
				<input type="checkbox"/>	

<p>PURGE WATER DESCRIPTION: clear, slight bio odor</p> <p>PURGE WATER CONTAINERIZED: Pour back into well</p> <p>NUMBER OF BUCKETS GENERATED: _____</p>	<p>NOTES</p> <p>Note 1: pump in well and operating</p> <p>SIGNATURE _____ DAJ</p>
--	---

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT **RA-006** JOB NUMBER **N/A**
 WELL ID **REW-9-20140130-01** DATE **30-Jan-14**
 TIME **START 1140 END 1215**

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER **Note 1** FT
 WELL DEPTH **Note 1** FT
 WELL DIAMETER **2 IN**

FINAL DEPTH TO WATER **Note 1** FT
 SCREEN LENGTH _____ FT
 PID AMBIENT AIR **NA PPM**

DRAWDOWN VOLUME **Note 1** GAL
 WELL INTEGRITY YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR
 PID WELL MOUTH **NA PPM**

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1150	Note 1	200	7.65	277	5.93	2.17	N/A	-27.4	
1155	Note 1	200	7.68	294	5.92	0.51	N/A	-85.1	
1200	Note 1	200	7.77	296	5.94	0.50	N/A	-86.3	
1205	Note 1	200	7.81	302	5.94	0.49	N/A	-89.9	
									sampled @ 1205

EQUIPMENT DOCUMENTATION

TYPE OF PUMP GEO 2 TYPE OF TUBING SILICON/ POLY TYPE OF PUMP MATERIAL Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION **clear, strong bio odor**

PURGE WATER CONTAINERIZED **Pour back into well**

NUMBER OF BUCKETS GENERATED _____

NOTES
 Note 1: pump in well and operating

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT RA-006 JOB NUMBER N/A
 WELL ID REW-12-20140130-01 DATE 30-Jan-14
 TIME START 0845 END 0920

**Innovative
Engineering
Solutions, Inc.**
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____
 PROTECTIVE CASING STICKUP (FROM GROUND) FT
 PROTECTIVE CASING/WELL DIFFERENCE FT
 INITIAL DEPTH TO WATER Note 1 FT
 WELL DEPTH Note 1 FT
 WELL DIAMETER 2 IN
 FINAL DEPTH TO WATER Note 1 FT
 SCREEN LENGTH FT
 PID AMBIENT AIR NA PPM
 DRAWDOWN VOLUME Note 1 GAL
 WELL INTEGRITY YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR
 PID WELL MOUTH NA PPM
 (initial - final x 0.163 {2-inch} or x 0.654 {4-inch})
 TOTAL VOLUME PURGED 1.82 GAL
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0855	Note 1	200	8.73	286	6.69	0.41	N/A	-132.1	
0900	Note 1	200	7.88	278	6.71	0.31	N/A	-141.3	
0905	Note 1	200	7.83	277	6.70	0.30	N/A	-143.1	
0910	Note 1	200	7.63	275	6.71	0.29	N/A	-142.9	
									sampled @ 0910

EQUIPMENT DOCUMENTATION

TYPE OF PUMP GEO 2 TYPE OF TUBING SILICON/ POLY TYPE OF PUMP MATERIAL Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Total Iron	HNO3/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4, Anions, pH, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION clear, strong bio odor
 PURGE WATER CONTAINERIZED Pour back into well
 NUMBER OF BUCKETS GENERATED _____

NOTES
Note 1: pump in well and operating
 SIGNATURE _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT **RA-006** JOB NUMBER N/A
 WELL ID **DEP-19M-20140405-01** DATE 5-Apr-14
 TIME START 1005 END 1040

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER **6.35 FT** WELL DEPTH **39.80 FT** WELL DIAMETER **3/8 IN**
 FINAL DEPTH TO WATER **Note 1 FT** SCREEN LENGTH _____ FT
 DRAWDOWN VOLUME **Note 1 GAL** WELL INTEGRITY YES NO N/A
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch}) CAP
 CASING
 TOTAL VOLUME PURGED **1.82 GAL** LOCKED
 COLLAR
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PID AMBIENT AIR **NA PPM**
 PID WELL MOUTH **NA PPM**

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1015	Note 1	200	8.29	85	9.92	0.98	N/A	-490.5	
1020	Note 1	200	8.56	81	9.87	0.56	N/A	-469.8	
1025	Note 1	200	8.50	78	9.86	0.58	N/A	-461.3	
1030	Note 1	200	8.51	77	9.88	0.61	N/A	-458.7	
									sampled @ 1030

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: GEO 2 TYPE OF TUBING: SILICON/POLY TYPE OF PUMP MATERIAL: Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, no odor
 PURGE WATER CONTAINERIZED: Pour back into well
 NUMBER OF BUCKETS GENERATED: _____

NOTES
 Note 1: could not fit tubing and level probe in well at same time.
 SIGNATURE: _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	DEP-21-20140405-01	DATE	5-Apr-14
TIME	START <input type="text"/> 1100 END <input type="text"/> 1130		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT			PROTECTIVE CASING STICKUP (FROM GROUND)			PROTECTIVE CASING/WELL DIFFERENCE		
<input checked="" type="checkbox"/> TOP OF WELL RISER	<input type="checkbox"/> TOP OF PROTECTIVE CASING	<input type="checkbox"/> OTHER	<input type="text"/> FT	<input type="text"/> FT	<input type="text"/> FT	<input type="text"/> FT	<input type="text"/> FT	<input type="text"/> FT
INITIAL DEPTH TO WATER	<input type="text"/> 8 FT	WELL DEPTH	<input type="text"/> 49.61 FT	WELL DIAMETER	<input type="text"/> 1/2 IN			
FINAL DEPTH TO WATER	<input type="text"/> Note 1 FT	SCREEN LENGTH	<input type="text"/> FT	PID AMBIENT AIR	<input type="text"/> NA PPM			
DRAWDOWN VOLUME	<input type="text"/> Note 1 GAL	WELL INTEGRITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>	PID WELL MOUTH	<input type="text"/> NA PPM			
<small>(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})</small>			CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
			CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
			LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>				
			COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				
TOTAL VOLUME PURGED			<input type="text"/> 1.56 GAL			<small>(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)</small>		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1110	Note 1	200	9.17	73	9.92	1.65	N/A	-529.3	
1115	Note 1	200	9.11	66	9.83	0.76	N/A	-463.8	
1120	Note 1	200	9.33	67	9.84	0.61	N/A	-465.2	
1125	Note 1	200	9.41	67	9.82	0.58	N/A	-467.5	
									sampled @ 1125

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES
 Note 1: could not fit tubing and level probe in well at same time.

SIGNATURE: DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

PROJECT: RA-006 JOB NUMBER: N/A
 WELL ID: MW-263M-20140406-01 DATE: 8-Apr-14
 TIME: START 1110 END 1150

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT		PROTECTIVE CASING STICKUP (FROM GROUND)		PROTECTIVE CASING/WELL DIFFERENCE	
<input checked="" type="checkbox"/> TOP OF WELL RISER		<u> </u>	FT	<u> </u>	FT
<input type="checkbox"/> TOP OF PROTECTIVE CASING		<u> </u>		<u> </u>	
<input type="checkbox"/> OTHER	<u> </u>	<u> </u>		<u> </u>	

INITIAL DEPTH TO WATER: <u>8.84</u> FT	WELL DEPTH: <u>52.68</u> FT	WELL DIAMETER: <u>2</u> IN
FINAL DEPTH TO WATER: <u>8.86</u> FT	SCREEN LENGTH: <u> </u> FT	PID AMBIENT AIR: <u>NA</u> PPM
DRAWDOWN VOLUME: <u>0.003</u> GAL <small>(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})</small>	WELL INTEGRITY	PID WELL MOUTH: <u>NA</u> PPM
TOTAL VOLUME PURGED: <u>3.1</u> GAL <small>(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)</small>	YES: CAP <input checked="" type="checkbox"/> CASING <input checked="" type="checkbox"/> LOCKED <input type="checkbox"/> COLLAR <input type="checkbox"/> NO: CAP <input type="checkbox"/> CASING <input type="checkbox"/> LOCKED <input checked="" type="checkbox"/> COLLAR <input type="checkbox"/> N/A: CAP <input type="checkbox"/> CASING <input type="checkbox"/> LOCKED <input checked="" type="checkbox"/> COLLAR <input type="checkbox"/>	

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1115	8.86	300	9.37	302	6.95	2.33	N/A	-108.1	
1125	8.85	300	9.59	325	7.39	0.83	N/A	-153.7	
1135	8.86	300	9.80	332	7.48	0.81	N/A	-145.8	
1140	8.86	300	9.83	333	7.50	0.86	N/A	-142.7	
1145	8.86	300	9.82	334	7.51	0.75	N/A	-142.1	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: <u>GEO 2</u>	TYPE OF TUBING: <u>SILICON/ POLY</u>	TYPE OF PUMP MATERIAL: <u>Peristaltic</u>
----------------------------	--------------------------------------	---

ANALYTICAL PARAMETERS

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA 8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	

PURGE WATER DESCRIPTION: <u>clear, slight odor, no sheen</u> PURGE WATER CONTAINERIZED: <u>Pour back into well</u>	NOTES SIGNATURE: <u>DHR</u>
---	---

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-264M-20140406-01	DATE	8-Apr-14
TIME	START 0945 END 1035		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING/WELL DIFFERENCE FT

INITIAL DEPTH TO WATER FT

WELL DEPTH FT

WELL DIAMETER IN

FINAL DEPTH TO WATER FT

SCREEN LENGTH FT

PID AMBIENT AIR PPM

DRAWDOWN VOLUME GAL

WELL INTEGRITY YES NO N/A

CAP

CASING

LOCKED

COLLAR

PID WELL MOUTH PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
095	6.55	300	9.41	147	6.77	13.90	N/A	221.4	
1000	6.59	300	9.50	133	6.20	8.81	N/A	247.5	turn pump down
1010	6.57	300	9.36	130	6.39	7.96	N/A	190.7	
1020	6.57	300	9.45	145	6.10	4.02	N/A	80.2	
1025	6.57	300	9.52	149	6.06	3.28	N/A	77.3	
1030	6.57	300	9.54	155	6.05	3.17	N/A	76.8	
									sampled @ 1030

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, no odor, no sheen

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED

NOTES

SIGNATURE _____ **DHR**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-265S-20140408-01	DATE	8-Apr-14
TIME	START 0900 END 0930		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT <input checked="checked" type="checkbox"/> TOP OF WELL RISER <input type="checkbox"/> TOP OF PROTECTIVE CASING <input type="checkbox"/> OTHER	PROTECTIVE CASING STICKUP (FROM GROUND) <input type="text" value=""/> FT	PROTECTIVE CASING/WELL DIFFERENCE <input type="text" value=""/> FT
INITIAL DEPTH TO WATER <input type="text" value="6.03"/> FT	WELL DEPTH <input type="text" value="21.00"/> FT	WELL DIAMETER <input type="text" value="2"/> IN
FINAL DEPTH TO WATER <input type="text" value="6.12"/> FT	SCREEN LENGTH <input type="text" value=""/> FT	PID AMBIENT AIR <input type="text" value="NA"/> PPM
DRAWDOWN VOLUME <input type="text" value="0.02"/> GAL <small>(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})</small>	WELL INTEGRITY YES <input checked="checked" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>	PID WELL MOUTH <input type="text" value="NA"/> PPM
TOTAL VOLUME PURGED <input type="text" value="1.56"/> GAL	CAP <input checked="checked" type="checkbox"/> CASING <input checked="checked" type="checkbox"/> LOCKED <input type="checkbox"/> COLLAR <input type="checkbox"/>	
<small>(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)</small>		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0910	6.12	200	7.77	125	6.09	0.73	N/A	62	
0915	6.12	200	7.71	122	6.08	0.49	N/A	73.9	
0920	6.12	200	7.48	122	6.05	0.48	N/A	84.5	
0925	6.12	200	7.26	121	6.04	0.49	N/A	92.4	
									sampled @ 0925

EQUIPMENT DOCUMENTATION

TYPE OF PUMP <u>GEO 2</u>	TYPE OF TUBING <u>SILICON/POLY</u>	TYPE OF PUMP MATERIAL Peristaltic
------------------------------	---------------------------------------	--------------------------------------

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="checked" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="checked" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION	clear, no odor
PURGE WATER CONTAINERIZED	Pour back into well
NUMBER OF BUCKETS GENERATED	

NOTES
SIGNATURE DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-265M-20140408-01	DATE	8-Apr-14
TIME	START 0820 END 0855		

**Innovative
Engineering
Solutions, Inc.**
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT				
<input checked="" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="text" value=""/>	PROTECTIVE CASING/WELL DIFFERENCE
<input type="checkbox"/>	TOP OF PROTECTIVE CASING		<input type="text" value=""/>	<input type="text" value=""/>
<input type="checkbox"/>	OTHER		<input type="text" value=""/>	<input type="text" value=""/>
INITIAL DEPTH TO WATER	<input type="text" value="9.46"/> FT	WELL DEPTH	<input type="text" value="48.40"/> FT	WELL DIAMETER
FINAL DEPTH TO WATER	<input type="text" value="10.13"/> FT	SCREEN LENGTH	<input type="text" value=""/>	PID AMBIENT AIR
DRAWDOWN VOLUME	<input type="text" value="0.11"/> GAL	WELL INTEGRITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>	PID WELL MOUTH
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="text" value="NA PPM"/>
TOTAL VOLUME PURGED	<input type="text" value="1.82"/> GAL	LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="text" value="NA PPM"/>
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0830	10.13	200	9.42	1151	6.42	0.93	N/A	-35.2	
0835	10.13	200	9.48	1167	6.43	0.60	N/A	-40.1	
0840	10.13	200	9.56	1173	6.43	0.58	N/A	-42.3	
0845	10.13	200	9.60	1177	6.43	0.56	N/A	-43.4	
									sampled @ 0845

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
<u>GEO 2</u>	<u>SILICON/ POLY</u>	Peristaltic

ANALYTICAL PARAMETERS

METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> TA	8260SIM HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3 H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4 H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids 4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity 4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	
<input type="checkbox"/>			<input type="checkbox"/>	

PURGE WATER DESCRIPTION	clear, no odor
PURGE WATER CONTAINERIZED	Pour back into well
NUMBER OF BUCKETS GENERATED	

NOTES

SIGNATURE _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: **RA-006** JOB NUMBER: **N/A**
 WELL ID: **MW-266Ma-20140405-01** DATE: **5-Apr-14**
 TIME: START **1420** END **1455**

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER: **8.93 FT** WELL DEPTH: **55.10 FT** WELL DIAMETER: **2 IN**
 FINAL DEPTH TO WATER: **10.39 FT** SCREEN LENGTH: _____ FT PID AMBIENT AIR: **NA PPM**
 DRAWDOWN VOLUME: **0.24 GAL** WELL INTEGRITY: YES NO N/A
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch}) CAP:
 TOTAL VOLUME PURGED: **1.82 GAL** LOCKED:
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter) COLLAR:
 PID WELL MOUTH: **NA PPM**

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1430	10.48	200	9.75	97	6.46	8.17	N/A	176.1	
1435	10.46	200	9.72	89	6.48	7.23	N/A	147	
1440	10.41	200	9.63	88	6.50	6.34	N/A	112.7	
1445	10.39	200	9.60	89	6.51	6.26	N/A	98.1	
1450	10.39	200	9.59	89	6.52	5.84	N/A	94.3	
									sampled @ 1450

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: GEO 2 TYPE OF TUBING: SILICON/ POLY TYPE OF PUMP MATERIAL: Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> TA	8260SIM	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: **clear, no odor**

PURGE WATER CONTAINERIZED: **Pour back into well**

NUMBER OF BUCKETS GENERATED: _____

NOTES

SIGNATURE: _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING				<p align="center">Innovative Engineering Solutions, Inc. 25 Spring Street Walpole Massachusetts 02081</p>
PROJECT	RA-006	JOB NUMBER	N/A	
WELL ID	MW-266Mb-20140405-01	DATE	5-Apr-14	
TIME	START 1455 END 1525			

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT																													
<input checked="" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)		PROTECTIVE CASING/WELL DIFFERENCE																									
<input type="checkbox"/>	TOP OF PROTECTIVE CASING																												
<input type="checkbox"/>	OTHER _____		<input type="text" value="FT"/>		<input type="text" value="FT"/>																								
INITIAL DEPTH TO WATER	<input type="text" value="8.19 FT"/>	WELL DEPTH	<input type="text" value="70.10 FT"/>	WELL DIAMETER	<input type="text" value="2 IN"/>																								
FINAL DEPTH TO WATER	<input type="text" value="8.41 FT"/>	SCREEN LENGTH	<input type="text" value="FT"/>	PID AMBIENT AIR	<input type="text" value="NA PPM"/>																								
DRAWDOWN VOLUME	<input type="text" value="0.04 GAL"/>	WELL INTEGRITY CAP	<table border="0"> <tr><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td><td><input type="checkbox"/></td><td>N/A</td><td><input type="checkbox"/></td></tr> <tr><td>CASING</td><td><input checked="" type="checkbox"/></td><td></td><td><input type="checkbox"/></td><td></td><td><input type="checkbox"/></td></tr> <tr><td>LOCKED</td><td><input type="checkbox"/></td><td></td><td><input checked="" type="checkbox"/></td><td></td><td><input type="checkbox"/></td></tr> <tr><td>COLLAR</td><td><input type="checkbox"/></td><td></td><td><input type="checkbox"/></td><td></td><td><input checked="" type="checkbox"/></td></tr> </table>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	N/A	<input type="checkbox"/>	CASING	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	LOCKED	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>	COLLAR	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	PID WELL MOUTH	<input type="text" value="NA PPM"/>
YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	N/A	<input type="checkbox"/>																								
CASING	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																								
LOCKED	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>																								
COLLAR	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>																								
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})																													
TOTAL VOLUME PURGED	<input type="text" value="1.56 GAL"/>	(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)																											

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1505	8.41	200	9.96	150	6.74	1.95	N/A	167	DupX1-20140405-01
1510	8.41	200	9.81	156	6.70	1.28	N/A	71.3	
1515	8.41	200	9.76	159	6.70	1.25	N/A	62.4	
1520	8.41	200	9.69	165	6.69	1.18	N/A	53.9	
									sampled @ 1520

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u> GEO 2	<u>TYPE OF TUBING</u> SILICON/POLY	<u>TYPE OF PUMP MATERIAL</u> Peristaltic
------------------------------	---------------------------------------	---

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION clear, no odor PURGE WATER CONTAINERIZED Pour back into well	NUMBER OF BUCKETS GENERATED SIGNATURE <u>DAJ</u>	NOTES <input type="text" value="DupX1-20140405-01"/>
---	---	--

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT RA-006 JOB NUMBER N/A
 WELL ID MW-267S-20140405-01 DATE 5-Apr-14
 TIME START 1255 END 1325

**Innovative
Engineering
Solutions, Inc.**
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER 9.71 FT WELL DEPTH 76.40 FT WELL DIAMETER 2 IN
 FINAL DEPTH TO WATER 12.98 FT SCREEN LENGTH _____ FT
 DRAWDOWN VOLUME 0.53 GAL WELL INTEGRITY YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR

PID AMBIENT AIR NA PPM
 PID WELL MOUTH NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1305	12.68	200	10.32	549	6.07	0.28	N/A	-110.4	
1310	12.98	200	10.35	549	6.06	0.20	N/A	-115.5	
1315	12.98	200	10.38	551	6.06	0.19	N/A	-118.8	
1320	12.98	200	10.40	551	6.05	0.19	N/A	-121	
									sampled @ 1320

EQUIPMENT DOCUMENTATION

TYPE OF PUMP GEO 2 TYPE OF TUBING SILICON/ POLY TYPE OF PUMP MATERIAL Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> TA	8260SIM	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION clear, slight bio odor

PURGE WATER CONTAINERIZED Pour back into well NUMBER OF BUCKETS GENERATED _____

NOTES

SIGNATURE DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT **RA-006** JOB NUMBER N/A

WELL ID **MW-267M-20140405-01** DATE **5-Apr-14**

TIME START **1225** END **1255**

**Innovative
Engineering
Solutions, Inc.**
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER **8.46 FT** WELL DEPTH **98.20 FT** WELL DIAMETER **2 IN**

FINAL DEPTH TO WATER **10.46 FT** SCREEN LENGTH _____ FT
 PID AMBIENT AIR **NA PPM**

DRAWDOWN VOLUME **0.33 GAL** WELL INTEGRITY YES NO N/A
 CAP CASING LOCKED COLLAR

TOTAL VOLUME PURGED **1.56 GAL** PID WELL MOUTH **NA PPM**

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})
 (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1235	10.56	200	10.25	813	6.03	0.32	N/A	-113.1	
1240	10.46	200	9.93	827	6.03	0.30	N/A	-111.3	
1245	10.46	200	9.97	841	6.01	0.32	N/A	-109.3	
1250	10.46	200	10.26	876	5.99	0.34	N/A	-105.6	
									sampled @ 1250

EQUIPMENT DOCUMENTATION

TYPE OF PUMP GEO 2 TYPE OF TUBING SILICON/ POLY TYPE OF PUMP MATERIAL Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> TA	8260SIM	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION **cloudy, slight bio odor**

PURGE WATER CONTAINERIZED **Pour back into well** NUMBER OF BUCKETS GENERATED _____ SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-268S-20140407-01	DATE	7-Apr-14
TIME	START 0820 END 0900		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT				
<input checked="" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="text" value=""/>	PROTECTIVE CASING/WELL DIFFERENCE <input type="text" value=""/>
<input type="checkbox"/>	TOP OF PROTECTIVE CASING		FT	FT
<input type="checkbox"/>	OTHER			
INITIAL DEPTH TO WATER	<input type="text" value="7.73"/> FT	WELL DEPTH	<input type="text" value="77.00"/> FT	WELL DIAMETER <input type="text" value="2"/> IN
FINAL DEPTH TO WATER	<input type="text" value="12.7"/> FT	SCREEN LENGTH	<input type="text" value=""/>	PID AMBIENT AIR <input type="text" value="NA"/> PPM
DRAWDOWN VOLUME	<input type="text" value="0.81"/> GAL	WELL INTEGRITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>	PID WELL MOUTH <input type="text" value="NA"/> PPM
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
TOTAL VOLUME PURGED	<input type="text" value="2.08"/> GAL	CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)		LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0830	10.72	200	8.70	134	7.06	1.95	N/A	209.8	
0835	11.32	200	8.74	132	7.04	1.40	N/A	201.8	
0840	12.31	200	8.84	130	7.03	1.36	N/A	199.6	
0845	12.70	200	8.89	129	7.02	1.36	N/A	200.8	
									sampled @ 0845

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

<input type="checkbox"/>	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/>	TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	TA	8260SIM	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED

NOTES

SIGNATURE: DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING				<i>Innovative Engineering Solutions, Inc.</i> 25 Spring Street Walpole Massachusetts 02081	
PROJECT	RA-006		JOB NUMBER		N/A
WELL ID	MW-268M-20140407-01		DATE		7-Apr-14
TIME	START	0910	END		0940

WATER LEVEL/PUMP SETTI					
<input checked="" type="checkbox"/>	TOP OF WELL RISER		PROTECTIVE CASING STICKUP (FROM GROUND)	FT	
<input type="checkbox"/>	TOP OF PROTECTIVE CASING			FT	
<input type="checkbox"/>	OTHER				
INITIAL DEPTH TO WATER	6.86 FT	WELL DEPTH	93.80 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.53 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.11 GAL	WELL INTEGRITY	YES NO N/A	PID WELL MOUTH	NA PPM
<small>(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})</small>		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
		CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
TOTAL VOLUME PURGED	2.08 GAL	LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
<small>(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)</small>					

PURGE DATA									
TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0910	7.53	200	9.20	225	7.22	1.95	N/A	-18.4	
0915	7.53	200	9.20	225	7.23	0.80	N/A	58.9	
0920	7.53	200	9.14	225	7.24	0.78	N/A	-58.4	
0925	7.53	200	9.21	225	7.24	0.74	N/A	-60.9	
									sampled @ 0925

EQUIPMENT DOCUMENTATION		
<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS		METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/>	TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	TA	8260SIM	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/>					<input type="checkbox"/>	

PURGE WATER DESCRIPTION clear, no odor	NOTES SIGNATURE <u> DAJ </u>
PURGE WATER CONTAINERIZED Pour back into well	NUMBER OF BUCKETS GENERATED

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-268D-20140405-01	DATE	5-Apr-14
TIME	START 1155 END 1225		

**Innovative
Engineering
Solutions, Inc.**
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT

TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER

PROTECTIVE CASING STICKUP (FROM GROUND) FT

PROTECTIVE CASING/WELL DIFFERENCE FT

INITIAL DEPTH TO WATER FT

WELL DEPTH FT

WELL DIAMETER IN

FINAL DEPTH TO WATER FT

SCREEN LENGTH FT

PID AMBIENT AIR PPM

DRAWDOWN VOLUME GAL

WELL INTEGRITY YES NO N/A

CAP

CASING

PID WELL MOUTH PPM

LOCKED

TOTAL VOLUME PURGED GAL

COLLAR

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1205	7.25	200	9.31	235	8.39	0.64	N/A	-194.8	
1215	7.25	200	9.37	239	8.35	0.45	N/A	-209.3	
1215	7.25	200	9.28	239	8.35	0.43	N/A	-219.6	
1220	7.25	200	9.12	238	8.35	0.44	N/A	-211.3	
									sampled @ 1220

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u> <u>GEO 2</u>	<u>TYPE OF TUBING</u> <u>SILICON/ POLY</u>	<u>TYPE OF PUMP MATERIAL</u> Peristaltic
-------------------------------------	---	---

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED: _____

NOTES

SIGNATURE: DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-269Ma-20140405-01	DATE	5-Apr-14
TIME	START 1335 END 1415		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT					
<input checked="" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="text" value=""/>	FT	
<input type="checkbox"/>	TOP OF PROTECTIVE CASING	PROTECTIVE CASING/WELL DIFFERENCE	<input type="text" value=""/>	FT	
<input type="checkbox"/>	OTHER				
INITIAL DEPTH TO WATER	<input type="text" value="5.91"/> FT	WELL DEPTH	<input type="text" value="33.68"/> FT	WELL DIAMETER	<input type="text" value="2"/> IN
FINAL DEPTH TO WATER	<input type="text" value="7.87"/> FT	SCREEN LENGTH	<input type="text" value=""/>	PID AMBIENT AIR	<input type="text" value="NA"/> PPM
DRAWDOWN VOLUME	<input type="text" value="0.32"/> GAL	WELL INTEGRITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>	PID WELL MOUTH	<input type="text" value="NA"/> PPM
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
TOTAL VOLUME PURGED	<input type="text" value="2.08"/> GAL	CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
		LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1345	8.06	200	9.76	278	7.06	1.60	N/A	20.7	
1355	8.13	200	9.66	279	7.14	0.37	N/A	-54.2	
1400	8.02	200	9.46	278	7.17	0.28	N/A	-69.6	
1405	7.90	200	9.51	278	7.17	0.26	N/A	-77.6	
1415	7.87	200	9.53	278	7.17	0.25	N/A	-82	
									sampled @ 1410

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> TA	8260SIM	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: cloudy, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED

NOTES

SIGNATURE: DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-552-20140407-01	DATE	7-Apr-14
TIME	START 1500 END 1535		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

<input checked="" type="checkbox"/> TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="checkbox"/> TOP OF PROTECTIVE CASING	PROTECTIVE CASING/WELL DIFFERENCE	<input type="checkbox"/> OTHER
INITIAL DEPTH TO WATER	WELL DEPTH	FINAL DEPTH TO WATER	WELL DIAMETER	
DRAWDOWN VOLUME	WELL INTEGRITY	TOTAL VOLUME PURGED	PID AMBIENT AIR	PID WELL MOUTH
YES NO N/A CAP <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CASING <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> LOCKED <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> COLLAR <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		(initial - final x 0.163 {2-inch} or x 0.654 {4-inch}) (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1510	8.98	200	9.89	672	7.24	0.37	N/A	-100.9	
1515	9.00	200	9.88	689	7.21	0.26	N/A	-109.7	
1520	9.00	200	9.95	705	7.20	0.27	N/A	-117.1	
1525	9.00	200	10.08	724	7.19	0.26	N/A	-123	
									sampled @ 1525

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> TA	8260SIM	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING				Innovative Engineering Solutions, Inc. 25 Spring Street Walpole Massachusetts 02081	
PROJECT	RA-006		JOB NUMBER		N/A
WELL ID	MW-553-20140407-01		DATE		7-Apr-14
TIME	START	1405	END		1450

WATER LEVEL/PUMP SETTI

<input checked="" type="checkbox"/> TOP OF WELL RISER		PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="text" value=""/>	FT	PROTECTIVE CASING/WELL DIFFERENCE	<input type="text" value=""/>	FT
<input type="checkbox"/> TOP OF PROTECTIVE CASING							
<input type="checkbox"/> OTHER							
INITIAL DEPTH TO WATER	<input type="text" value="8.57 FT"/>		WELL DEPTH	<input type="text" value="21.50 FT"/>		WELL DIAMETER	<input type="text" value="2 IN"/>
FINAL DEPTH TO WATER	<input type="text" value="15.53 FT"/>		SCREEN LENGTH	<input type="text" value=""/>		PID AMBIENT AIR	<input type="text" value="NA PPM"/>
DRAWDOWN VOLUME	<input type="text" value="1.13 GAL"/>		WELL INTEGRITY CAP	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
<small>(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})</small>			CASING LOCKED	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	N/A
TOTAL VOLUME PURGED	<input type="text" value="2.34 GAL"/>		COLLAR	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
				<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	WELL MOUTH PID
							<input type="text" value="NA PPM"/>

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1415	12.01	200	9.58	676	7.36	0.39	N/A	-155	
1420	13.66	200	9.45	669	7.37	0.32	N/A	-155	
1425	14.16	200	9.49	667	7.37	0.30	N/A	-154	
1430	15.53	200	9.53	664	7.36	0.32	N/A	-151.8	
									sampled @ 1430

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

<input type="checkbox"/>	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/>	TA	8260B HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	NH3 H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	PO4 H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Metals HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	TOC H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Dissolved Gases HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	Acids 4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Spectrum	pH, Anions, Alkalinity 4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION	clear, slight bio odor	NOTES
PURGE WATER CONTAINERIZED	Pour back into well	
	NUMBER OF BUCKETS GENERATED	SIGNATURE
		DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-560-20140407-01	DATE	7-Apr-14
TIME	START 1045 END 1120		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

<input checked="" type="checkbox"/> TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="checkbox"/> TOP OF PROTECTIVE CASING	PROTECTIVE CASING/WELL DIFFERENCE
<input type="checkbox"/> OTHER			
INITIAL DEPTH TO WATER	8.73 FT	WELL DEPTH	65.20 FT
FINAL DEPTH TO WATER	10.44 FT	SCREEN LENGTH	
DRAWDOWN VOLUME	0.28 GAL	WELL INTEGRITY	YES NO N/A
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
TOTAL VOLUME PURGED	2.34 GAL	CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)		LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
		WELL DIAMETER	2 IN
		PID AMBIENT AIR	NA PPM
		PID WELL MOUTH	NA PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1055	9.98	200	10.01	860	7.01	0.71	N/A	-121.8	
1100	10.26	200	10.28	869	7.06	0.58	N/A	-129.5	
1105	10.36	200	10.23	871	7.06	0.55	N/A	-131.8	
1110	10.44	200	10.40	875	7.05	0.51	N/A	-125.8	
									sampled @ 1110

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: cloudy, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-561-20140407-01	DATE	7-Apr-14
TIME	START 1135 END 1215		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

<input checked="" type="checkbox"/> TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	FT	PROTECTIVE CASING/WELL DIFFERENCE	FT	
<input type="checkbox"/> TOP OF PROTECTIVE CASING					
<input type="checkbox"/> OTHER					
INITIAL DEPTH TO WATER	8.15 FT	WELL DEPTH	53.65 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.48 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.05 GAL	WELL INTEGRITY	YES NO N/A	PID WELL MOUTH	NA PPM
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
		CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
TOTAL VOLUME PURGED	2.08 GAL	LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)					

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1145	8.48	200	11.44	399	6.85	0.58	N/A	-74.8	
1150	8.48	200	11.42	397	6.88	0.58	N/A	-86.8	
1155	8.48	200	11.37	396	6.89	0.54	N/A	-91	
1200	8.48	200	11.34	396	6.87	0.52	N/A	-83.2	
									sampled @ 1200

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED

NOTES

SIGNATURE: DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-562-20140407-01	DATE	7-Apr-14
TIME	START 1305 END 1345		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

<input checked="checked" type="checkbox"/> TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="text" value=""/>	FT	PROTECTIVE CASING/WELL DIFFERENCE	<input type="text" value=""/>	FT
<input type="checkbox"/> TOP OF PROTECTIVE CASING						
<input type="checkbox"/> OTHER						
INITIAL DEPTH TO WATER	<input type="text" value="6.63"/> FT	WELL DEPTH	<input type="text" value="41.60"/> FT	WELL DIAMETER	<input type="text" value="2"/> IN	
FINAL DEPTH TO WATER	<input type="text" value="7.43"/> FT	SCREEN LENGTH	<input type="text" value=""/>	PID AMBIENT AIR	<input type="text" value="NA"/> PPM	
DRAWDOWN VOLUME	<input type="text" value="0.1"/> GAL	WELL INTEGRITY	YES <input checked="checked" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> CAP <input checked="checked" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CASING <input checked="checked" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> LOCKED <input type="checkbox"/> <input checked="checked" type="checkbox"/> <input type="checkbox"/> COLLAR <input type="checkbox"/> <input type="checkbox"/> <input checked="checked" type="checkbox"/>	PID WELL MOUTH	<input type="text" value="NA"/> PPM	
TOTAL VOLUME PURGED	<input type="text" value="2.08"/> GAL					

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1315	7.48	200	11.73	1345	6.69	0.82	N/A	-130.4	
1320	7.45	200	11.90	1388	6.64	0.78	N/A	-126.1	
1325	7.43	200	11.83	1404	6.62	0.74	N/A	-125	
1330	7.43	200	11.76	1392	6.62	0.72	N/A	-125.1	
									sampled @ 1330

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="checked" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="checked" type="checkbox"/>	
<input checked="checked" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="checked" type="checkbox"/>	
<input checked="checked" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="checked" type="checkbox"/>	
<input checked="checked" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="checked" type="checkbox"/>	
<input checked="checked" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="checked" type="checkbox"/>	
<input checked="checked" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="checked" type="checkbox"/>	
<input checked="checked" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="checked" type="checkbox"/>	
<input checked="checked" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="checked" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION clear, slight bio odor

PURGE WATER CONTAINERIZED Pour back into well

NUMBER OF BUCKETS GENERATED

NOTES

SIGNATURE DAJ

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	MW-563-20140407-01	DATE	7-Apr-14
TIME	START 0955 END 1035		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

<input checked="" type="checkbox"/> TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	<input type="checkbox"/> TOP OF PROTECTIVE CASING	PROTECTIVE CASING/WELL DIFFERENCE
<input type="checkbox"/> OTHER	<input type="text" value=""/> FT		<input type="text" value=""/> FT
INITIAL DEPTH TO WATER	<input type="text" value="6.31"/> FT	WELL DEPTH	<input type="text" value="65.20"/> FT
FINAL DEPTH TO WATER	<input type="text" value="8.81"/> FT	SCREEN LENGTH	<input type="text" value=""/> FT
DRAWDOWN VOLUME	<input type="text" value="0.41"/> GAL	WELL INTEGRITY	YES NO N/A
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
TOTAL VOLUME PURGED	<input type="text" value="2.08"/> GAL	CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
		WELL MOUTH	PID NA PPM
			PID NA PPM

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1005	8.26	200	10.16	613	5.74	0.88	N/A	40.9	
1010	8.46	200	10.21	614	5.75	0.79	N/A	39.5	
1015	8.75	200	10.38	619	5.76	0.79	N/A	39.1	
1020	8.81	200	10.41	622	5.76	0.79	N/A	37.2	
									sampled @ 1020

EQUIPMENT DOCUMENTATION

<u>TYPE OF PUMP</u>	<u>TYPE OF TUBING</u>	<u>TYPE OF PUMP MATERIAL</u>
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: clear, strong bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED: _____

NOTES

SIGNATURE: _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING				<i>Innovative Engineering Solutions, Inc.</i> 25 Spring Street Walpole Massachusetts 02081		
PROJECT	RA-006	JOB NUMBER	N/A			
WELL ID	REW-1-20140406-01	DATE	6-Apr-14			
TIME	START 1320 END 1355					

WATER LEVEL/PUMP SETTINGS							
MEASUREMENT POINT							
<input checked="" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	_____ FT	PROTECTIVE CASING/WELL DIFFERENCE	_____ FT		
<input type="checkbox"/>	TOP OF PROTECTIVE CASING						
<input type="checkbox"/>	OTHER						
INITIAL DEPTH TO WATER	4.81 FT	WELL DEPTH	39.13 FT		WELL DIAMETER	4 IN	
FINAL DEPTH TO WATER	5.15 FT	SCREEN LENGTH			PID AMBIENT AIR	NA PPM	
DRAWDOWN VOLUME	0.22 GAL	WELL INTEGRITY CAP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PID WELL MOUTH	NA PPM
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CASING LOCKED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
TOTAL VOLUME PURGED	1.82 GAL	COLLAR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)							

PURGE DATA									
TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1330	5.15	200	10.32	359	7.08	0.52	N/A	-100.9	
1335	5.15	200	10.27	359	7.09	0.45	N/A	-104.3	
1340	5.15	200	10.39	360	7.09	0.42	N/A	-106.7	
1345	5.15	200	10.42	360	7.09	0.40	N/A	-106.6	

EQUIPMENT DOCUMENTATION		
TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION clear, slight bio odor	NOTES PURGE WATER CONTAINERIZED: Pour back into well NUMBER OF BUCKETS GENERATED: _____ SIGNATURE: _____ DAJ _____
---	---

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT **RA-006** JOB NUMBER **N/A**
 WELL ID **REW-4-20140406-01** DATE **6-Apr-14**
 TIME **START 1455 END 1535**

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER **5.42 FT** WELL DEPTH **46.80 FT** WELL DIAMETER **4 IN**
 FINAL DEPTH TO WATER **6.43 FT** SCREEN LENGTH _____ FT
 DRAWDOWN VOLUME **0.66 GAL** WELL INTEGRITY YES NO N/A
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch}) CAP
 CASING
 TOTAL VOLUME PURGED **2.08 GAL** LOCKED
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter) COLLAR
 PID AMBIENT AIR **NA PPM**
 PID WELL MOUTH **NA PPM**

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1505	6.23	200	10.74	196	6.50	1.13	N/A	-38.3	
1510	6.32	200	10.63	196	6.49	0.73	N/A	-43.2	
1515	6.39	200	10.71	196	6.49	0.69	N/A	-41.6	
1520	6.43	200	10.60	196	6.50	0.70	N/A	-40	
									sampled @ 1520

EQUIPMENT DOCUMENTATION

TYPE OF PUMP GEO 2 TYPE OF TUBING SILICON/ POLY TYPE OF PUMP MATERIAL Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION **clear, moderate bio odor**

PURGE WATER CONTAINERIZED **Pour back into well** NUMBER OF BUCKETS GENERATED _____

NOTES

SIGNATURE _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT **RA-006** JOB NUMBER **N/A**
 WELL ID **REW-5-20140406-01** DATE **6-Apr-14**
 TIME **START 1405 END 1440**

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) _____ FT
 PROTECTIVE CASING/WELL DIFFERENCE _____ FT

INITIAL DEPTH TO WATER **4.13 FT** WELL DEPTH **39.68 FT** WELL DIAMETER **4 IN**
 FINAL DEPTH TO WATER **5.37 FT** SCREEN LENGTH _____ FT
 DRAWDOWN VOLUME **0.89 GAL** WELL INTEGRITY YES NO N/A
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch}) CAP
 CASING
 TOTAL VOLUME PURGED **1.82 GAL** LOCKED
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter) COLLAR
 PID AMBIENT AIR **NA PPM**
 PID WELL MOUTH **NA PPM**

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1415	5.37	200	10.69	185	6.88	0.97	N/A	-80.4	
1420	5.37	200	10.73	185	6.88	0.62	N/A	-79.6	
1425	5.37	200	10.85	186	6.88	0.59	N/A	-79	
1430	5.37	200	11.02	186	6.88	0.56	N/A	-78.5	
									sampled @ 1430

EQUIPMENT DOCUMENTATION

TYPE OF PUMP GEO 2 TYPE OF TUBING SILICON/ POLY TYPE OF PUMP MATERIAL Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION **clear, slight bio odor**

PURGE WATER CONTAINERIZED **Pour back into well** NUMBER OF BUCKETS GENERATED _____

NOTES

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING				<i>Innovative Engineering Solutions, Inc.</i> 25 Spring Street Walpole Massachusetts 02081	
PROJECT	RA-006		JOB NUMBER	N/A	
WELL ID	REW-7-20140406-01		DATE	6-Apr-14	
TIME	START	0920	END	0945	

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT			
<input checked="checked" type="checkbox"/>	TOP OF WELL RISER	PROTECTIVE CASING STICKUP (FROM GROUND)	[] FT
<input type="checkbox"/>	TOP OF PROTECTIVE CASING	PROTECTIVE CASING/WELL DIFFERENCE	[] FT
<input type="checkbox"/>	OTHER		
INITIAL DEPTH TO WATER	[Note 1] FT	WELL DEPTH	[Note 1] FT
FINAL DEPTH TO WATER	[Note 1] FT	SCREEN LENGTH	[] FT
DRAWDOWN VOLUME	[Note 1] GAL	WELL INTEGRITY CAP	YES <input checked="checked" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CASING LOCKED	<input checked="checked" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
TOTAL VOLUME PURGED	[2.34] GAL	WELL COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="checked" type="checkbox"/>
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)			

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0925	Note 1	200	10.45	324	6.94	0.63	N/A	-101.9	
0930	Note 1	200	10.12	307	6.90	0.45	N/A	-118.3	
0935	Note 1	200	10.34	309	6.89	0.43	N/A	-104.7	
0940	Note 1	200	10.59	296	6.91	0.40	N/A	-110	
									sampled @ 0935

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="checked" type="checkbox"/>	TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="checked" type="checkbox"/>
<input checked="checked" type="checkbox"/>	Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="checked" type="checkbox"/>
<input checked="checked" type="checkbox"/>	Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="checked" type="checkbox"/>
<input checked="checked" type="checkbox"/>	Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="checked" type="checkbox"/>
<input checked="checked" type="checkbox"/>	Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="checked" type="checkbox"/>
<input checked="checked" type="checkbox"/>	Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="checked" type="checkbox"/>
<input checked="checked" type="checkbox"/>	Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="checked" type="checkbox"/>
<input checked="checked" type="checkbox"/>	Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="checked" type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION	clear, slight bio odor	<p>NOTES</p> Note 1: pump in well and operating SIGNATURE _____ DAJ _____
PURGE WATER CONTAINERIZED	Pour back into well	

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-006	JOB NUMBER	N/A
WELL ID	REW-9-20140406-01	DATE	6-Apr-14
TIME	START 1115 END 1150		

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT		PROTECTIVE CASING STICKUP (FROM GROUND)		PROTECTIVE CASING/WELL DIFFERENCE	
<input checked="" type="checkbox"/>	TOP OF WELL RISER	<input type="checkbox"/>	_____ FT	<input type="checkbox"/>	_____ FT
<input type="checkbox"/>	TOP OF PROTECTIVE CASING				
<input type="checkbox"/>	OTHER _____				
INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	_____ FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL	WELL INTEGRITY	YES NO N/A	PID WELL MOUTH	NA PPM
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})		CAP	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
TOTAL VOLUME PURGED	1.82 GAL	CASING	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)		LOCKED	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		
		COLLAR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1125	Note 1	200	10.49	478	6.88	0.48	N/A	-100.5	
1130	Note 1	200	10.87	476	6.88	0.28	N/A	-98.9	
1135	Note 1	200	10.95	470	6.89	0.27	N/A	-102.7	
1140	Note 1	200	11.07	481	6.88	0.24	N/A	-108.7	
									sampled @ 1140

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/>	TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>
<input type="checkbox"/>					<input type="checkbox"/>

PURGE WATER

DESCRIPTION	clear, slight bio odor
PURGE WATER CONTAINERIZED	Pour back into well
NUMBER OF BUCKETS GENERATED	

NOTES

Note 1: pump in well and operating

SIGNATURE _____ **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT **RA-006** JOB NUMBER **N/A**
 WELL ID **REW-12-20140406-01** DATE **6-Apr-14**
 TIME **START 1245 END 1315**

Innovative Engineering Solutions, Inc.
 25 Spring Street
 Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
 TOP OF WELL RISER
 TOP OF PROTECTIVE CASING
 OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND) **_____ FT**
 PROTECTIVE CASING/WELL DIFFERENCE **_____ FT**

INITIAL DEPTH TO WATER **Note 1 FT** WELL DEPTH **Note 1 FT** WELL DIAMETER **4 IN**
 FINAL DEPTH TO WATER **Note 1 FT** SCREEN LENGTH **_____ FT** PID AMBIENT AIR **NA PPM**
 DRAWDOWN VOLUME **Note 1 GAL** WELL INTEGRITY YES NO N/A
 CAP
 CASING
 LOCKED
 COLLAR
 PID WELL MOUTH **NA PPM**
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1255	Note 1	200	11.04	313	6.87	0.45	N/A	-85.5	
1300	Note 1	200	11.17	314	6.89	0.24	N/A	-85.5	
1305	Note 1	200	11.22	315	6.88	0.22	N/A	-91.1	
1310	Note 1	200	11.24	316	6.89	0.20	N/A	-94.1	
									sampled @ 1310

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: GEO 2 TYPE OF TUBING: SILICON/ POLY TYPE OF PUMP MATERIAL: Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
<input checked="" type="checkbox"/> TA	8260B	HCL/4 DEG C	3 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	PO4	H2SO4/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Metals	HNO3/4 DEG C	1 X 250 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	Acids	4 DEG C	2 x 40 ml	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Spectrum	pH, Anions, Alkalinity	4 DEG C	1 x 500 ml	<input checked="" type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	

PURGE WATER DESCRIPTION: **clear, slight bio odor**

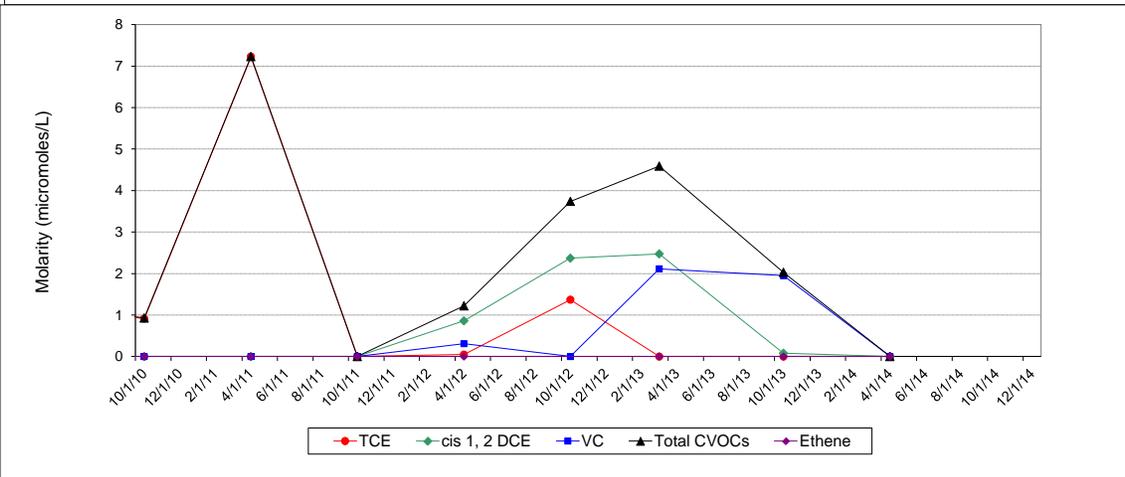
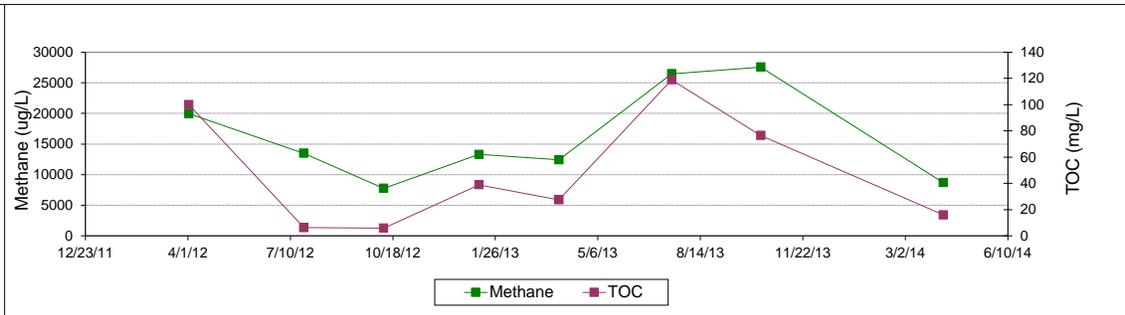
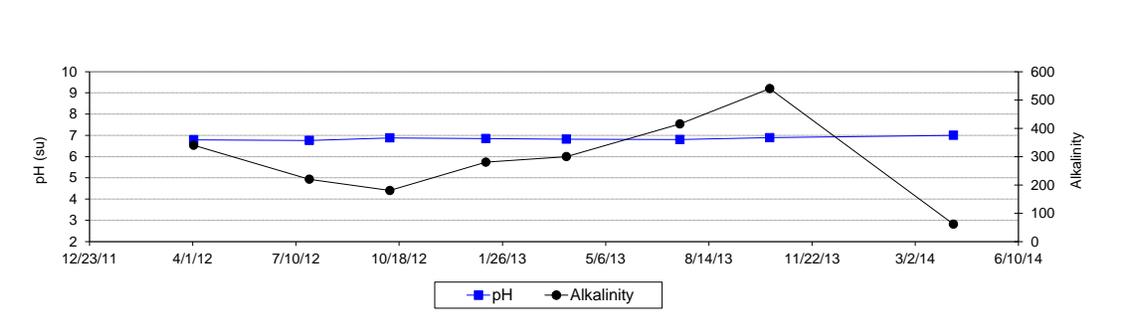
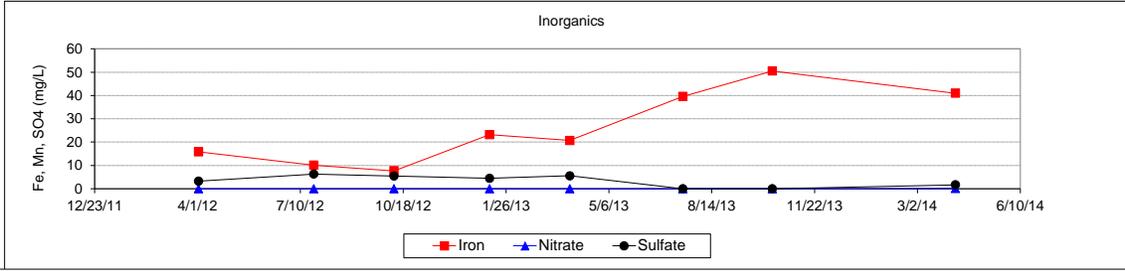
PURGE WATER CONTAINERIZED: **Pour back into well**

NUMBER OF BUCKETS GENERATED: _____

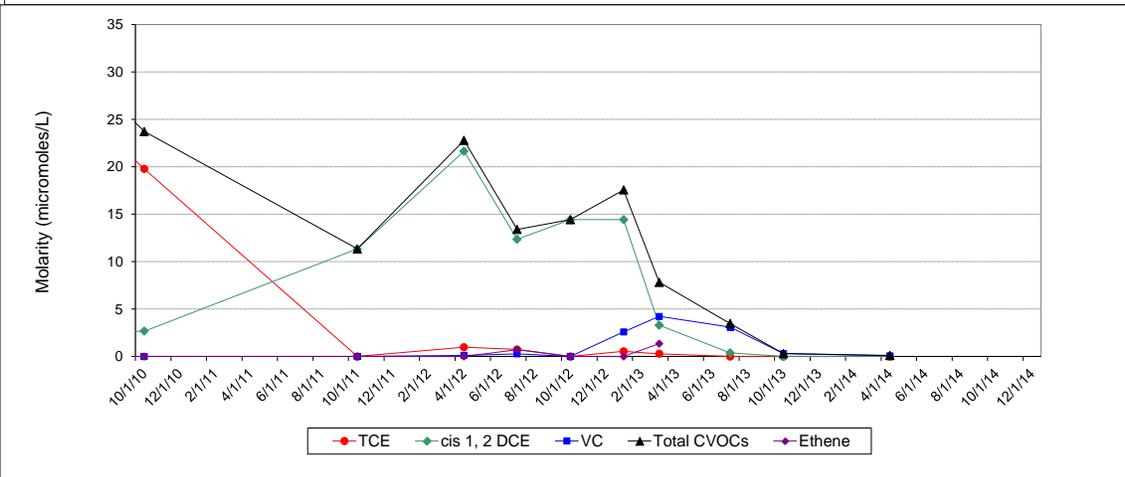
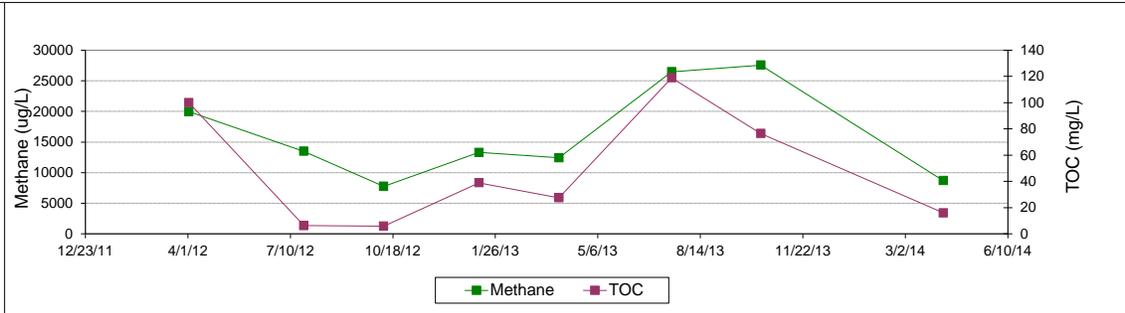
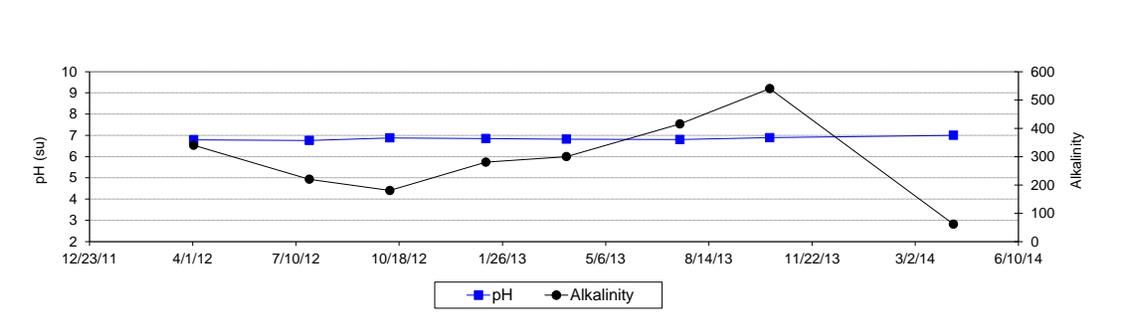
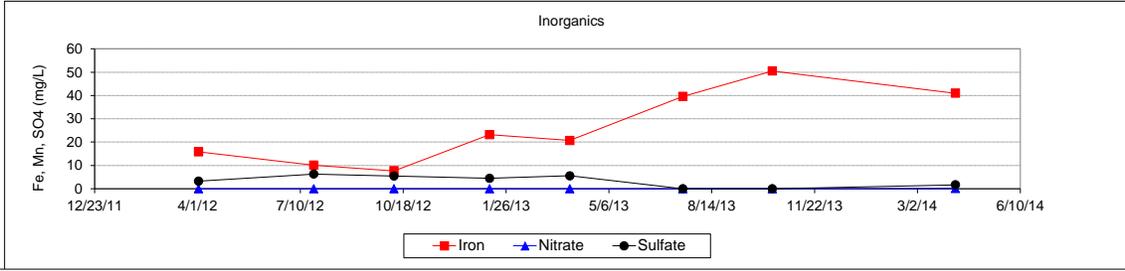
NOTES
 Note 1: pump in well and operating

SIGNATURE: _____ **DAJ**

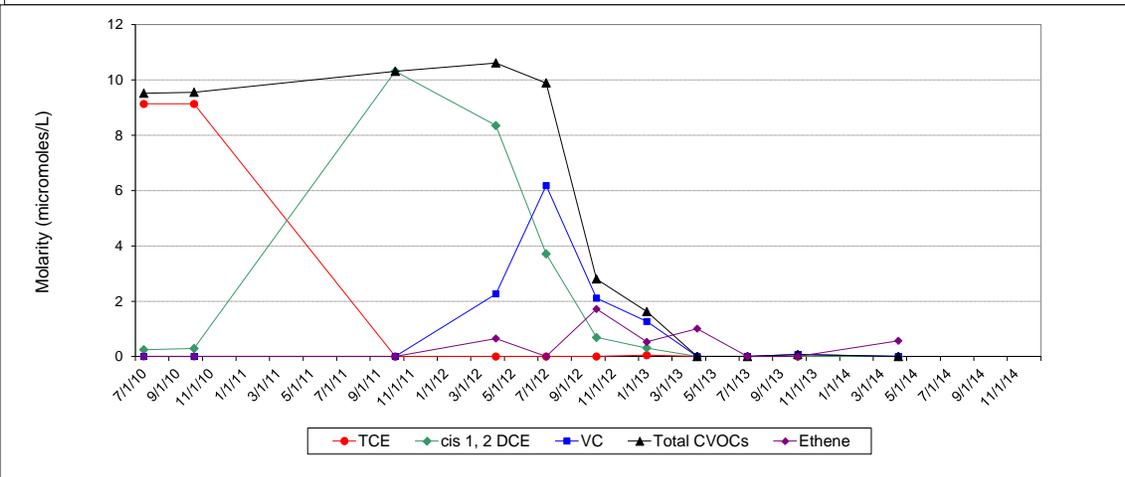
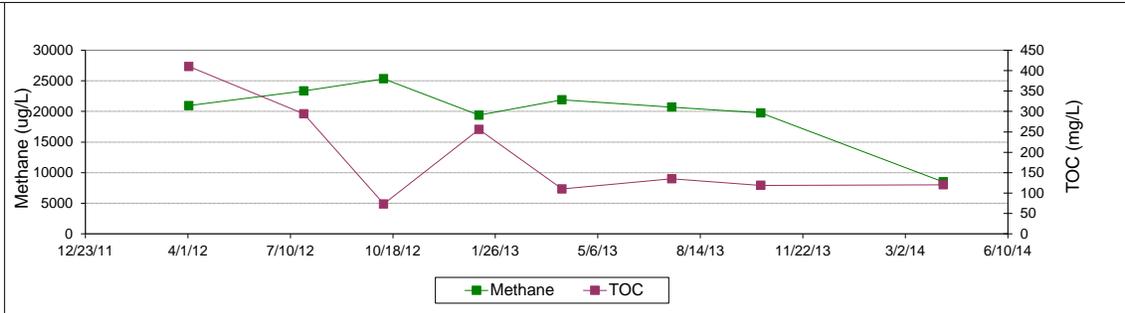
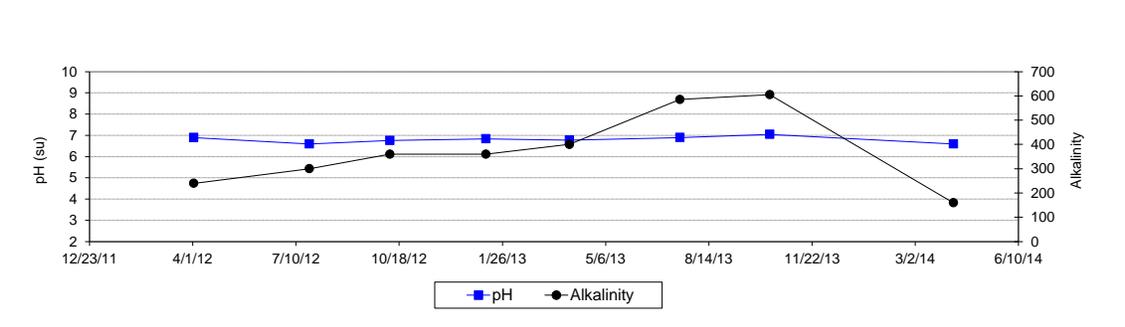
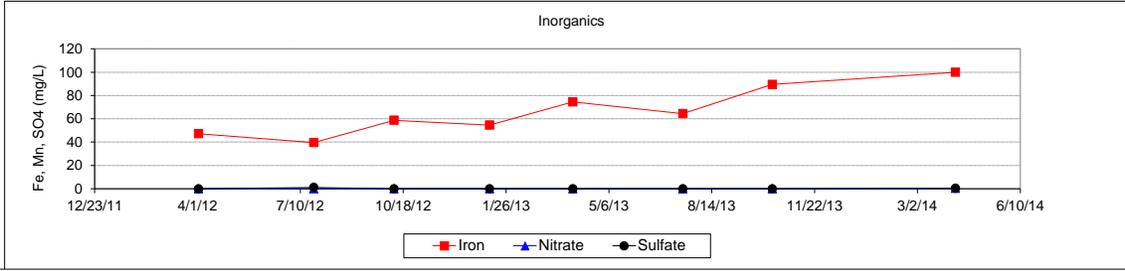
Northern Area Remediation Monitoring Data
 MW-551
 Former Raytheon Facility, Wayland, MA



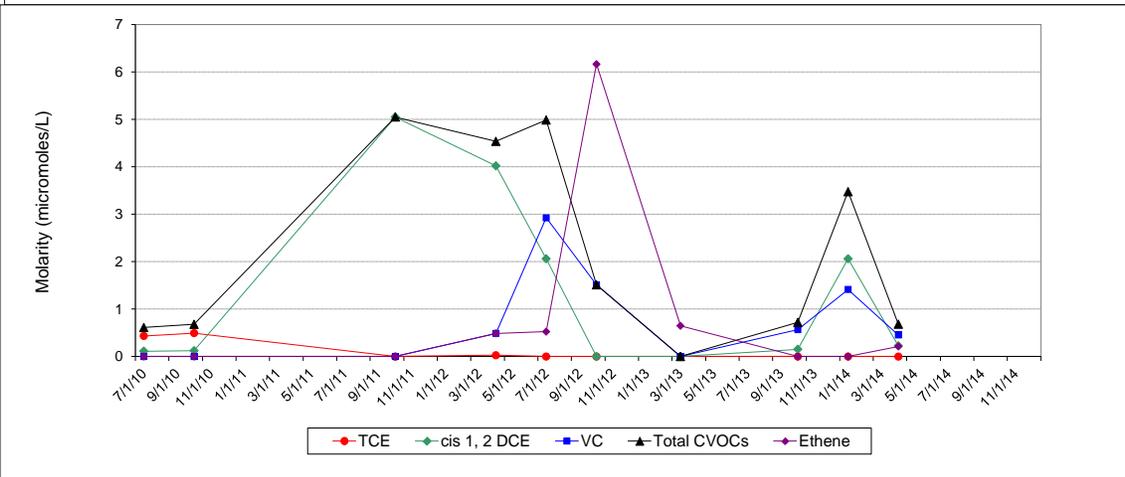
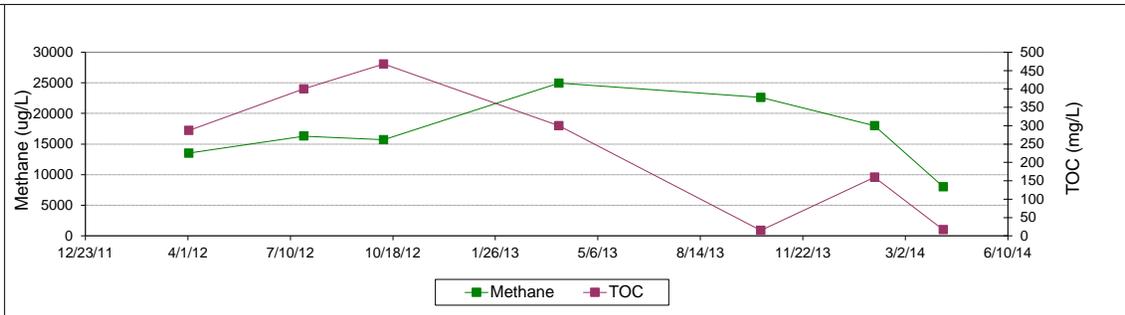
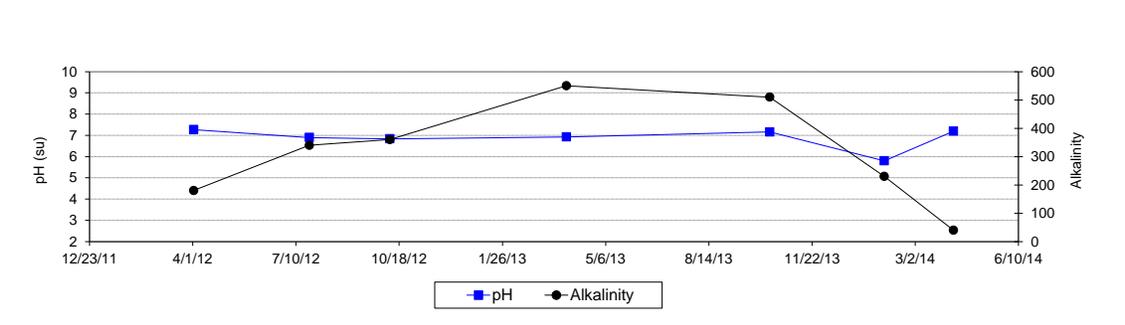
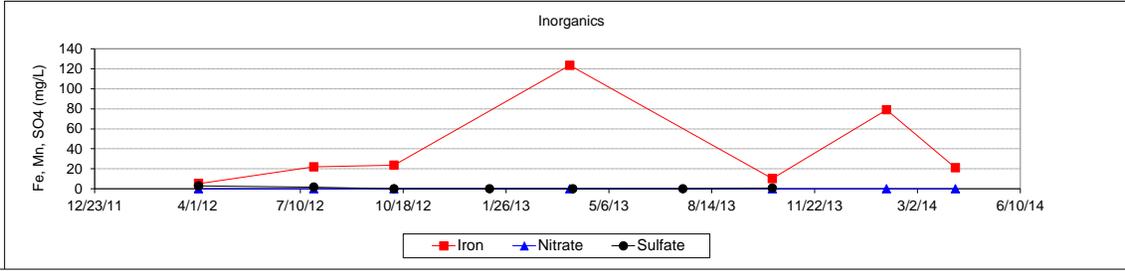
Northern Area Remediation Monitoring Data
 MW-552
 Former Raytheon Facility, Wayland, MA



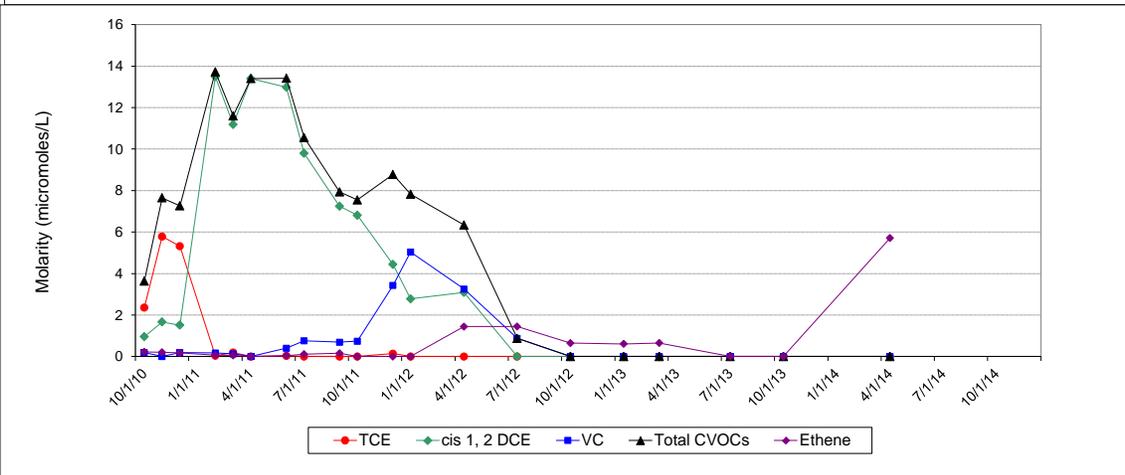
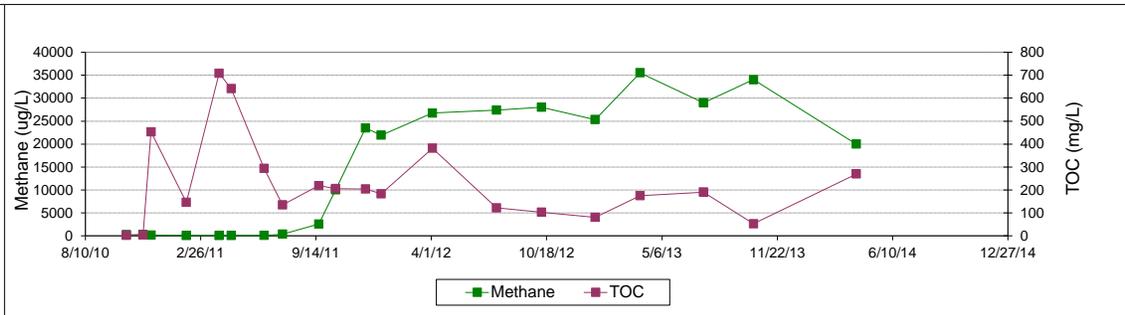
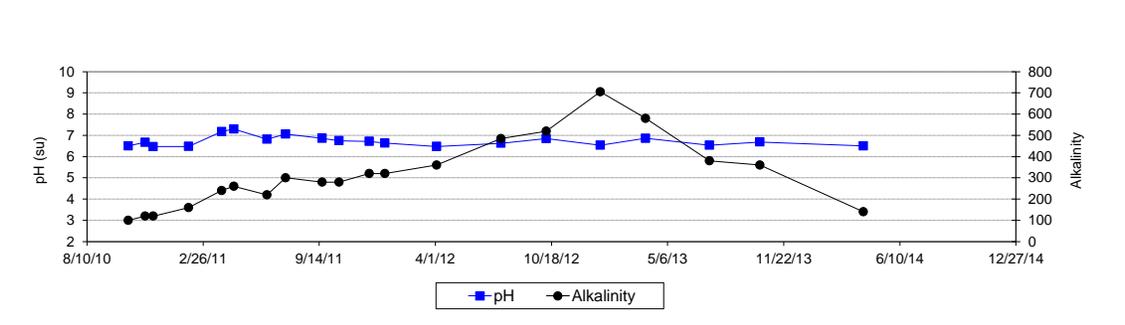
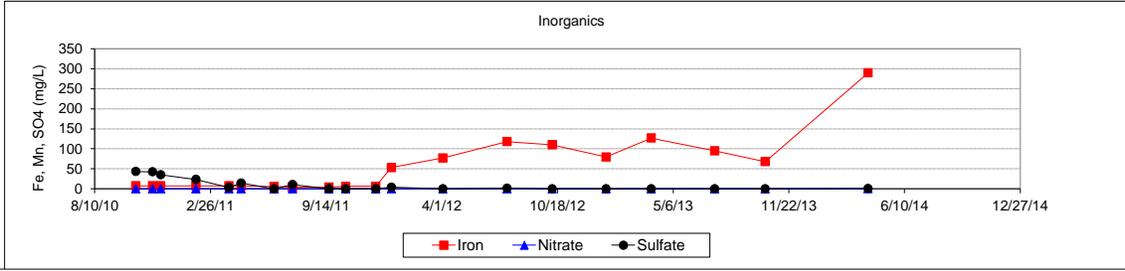
Northern Area Remediation Monitoring Data
 MW-261S
 Former Raytheon Facility, Wayland, MA



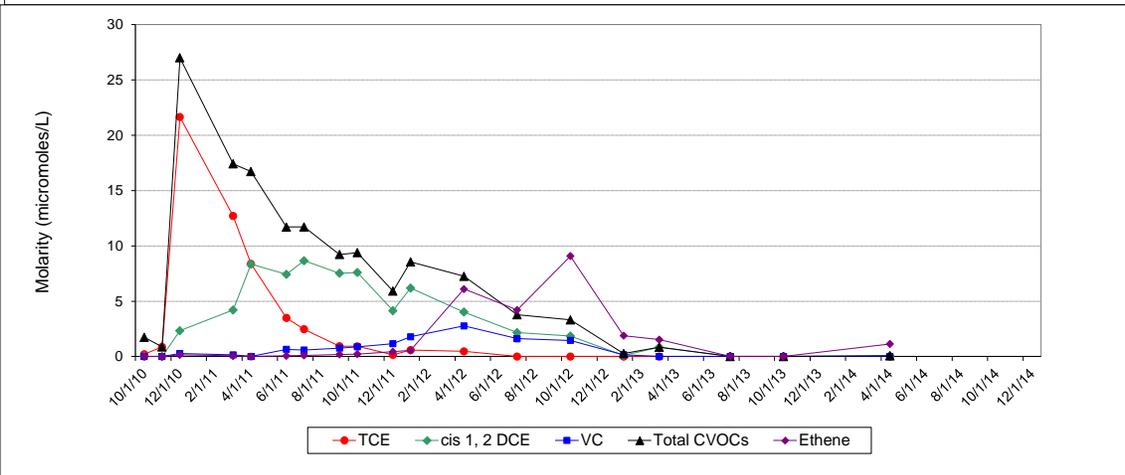
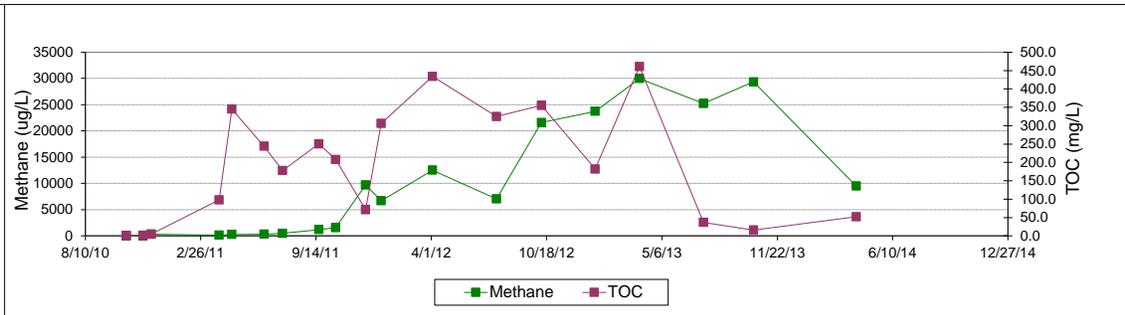
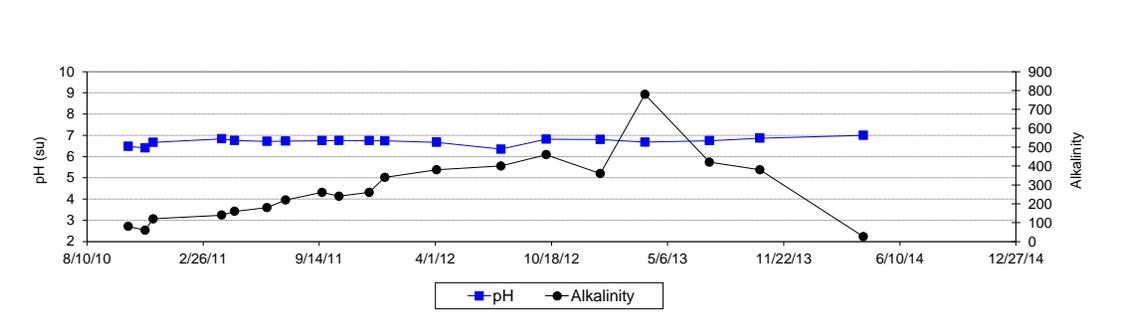
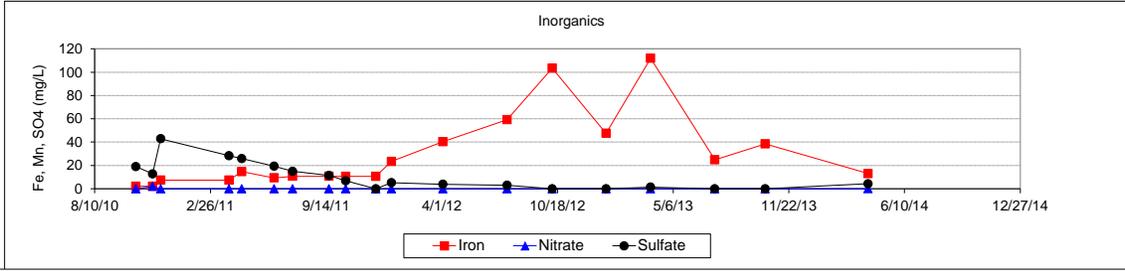
Northern Area Remediation Monitoring Data
 MW-553
 Former Raytheon Facility, Wayland, MA



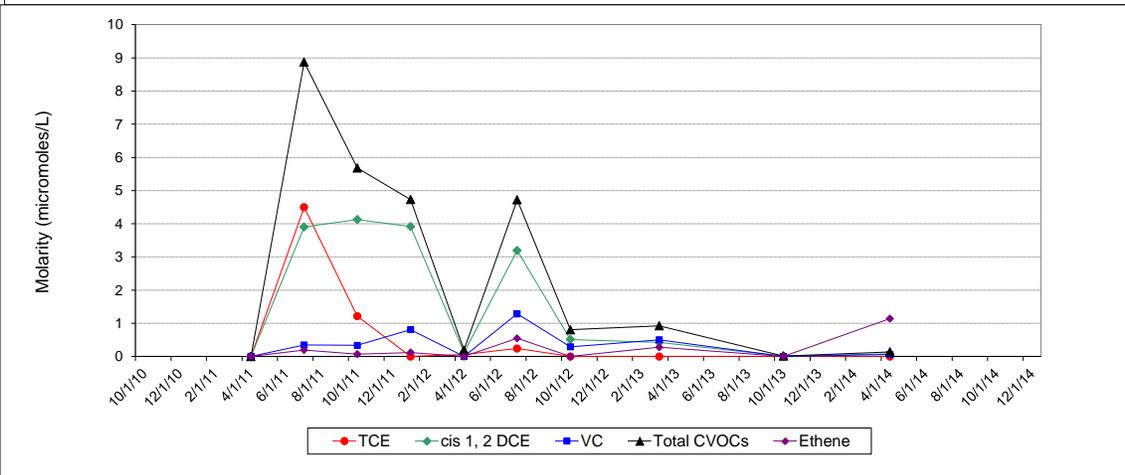
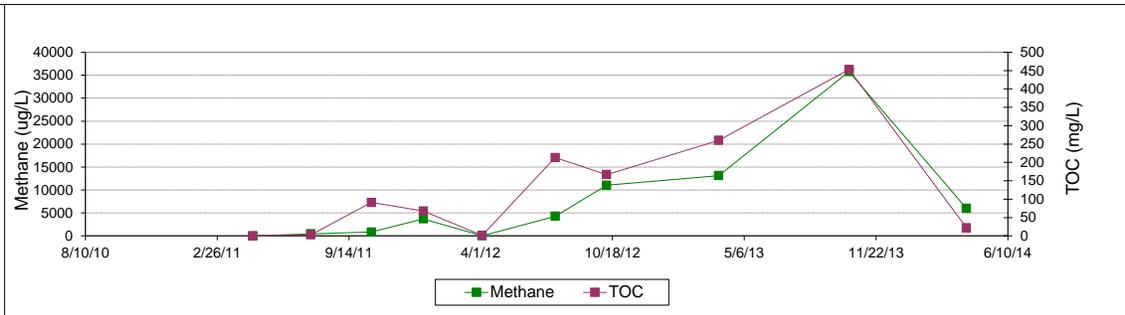
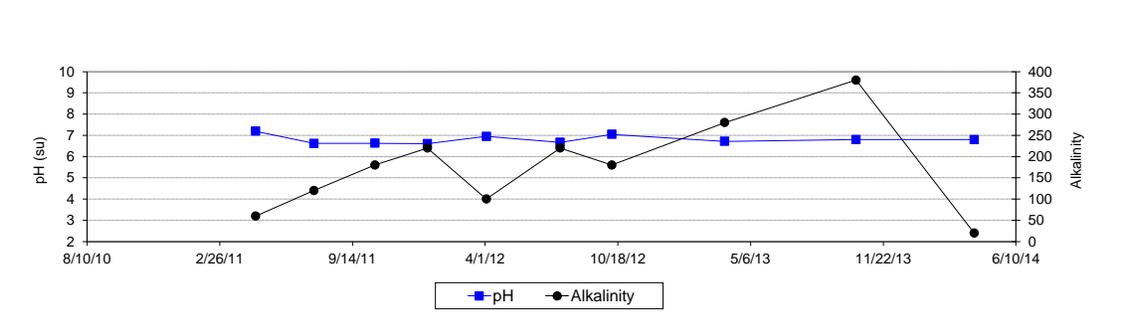
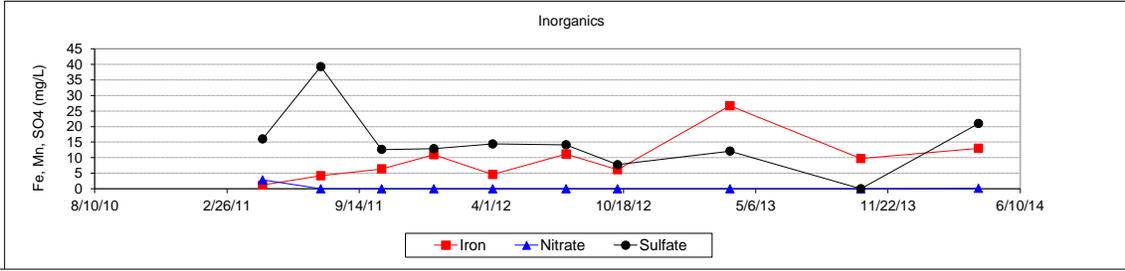
Northern Area Remediation Monitoring Data
 MW-562
 Former Raytheon Facility, Wayland, MA



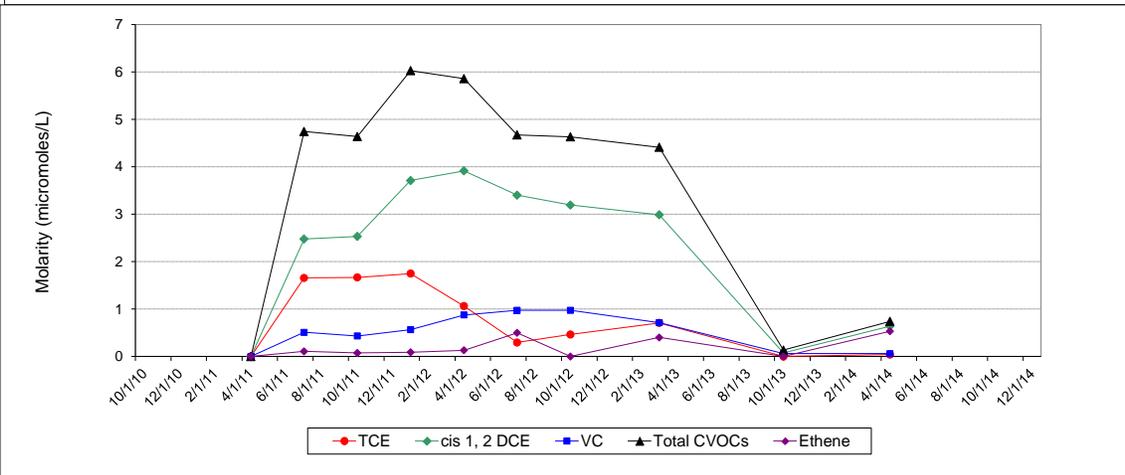
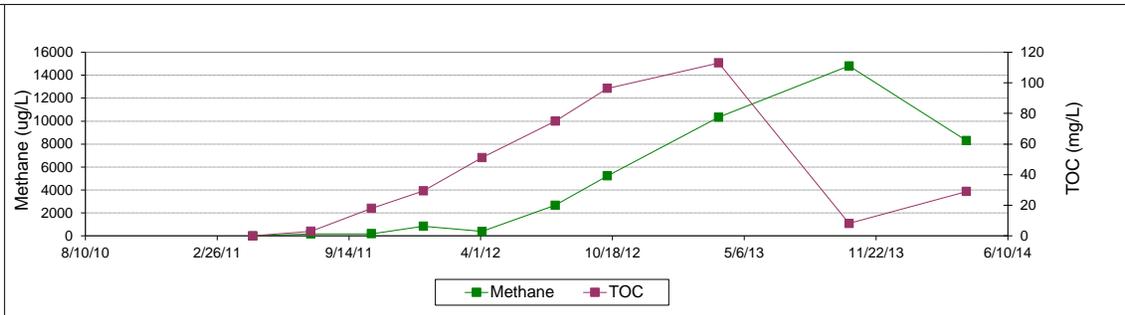
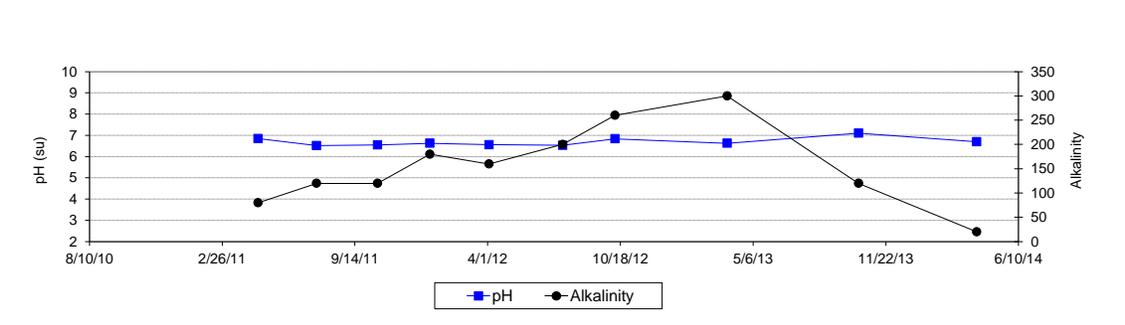
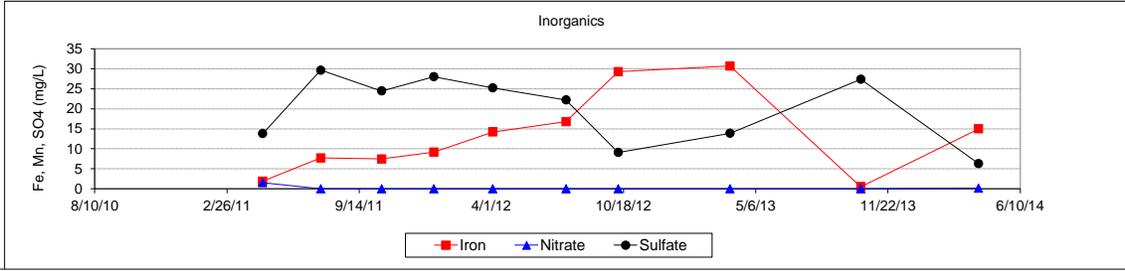
Northern Area Remediation Monitoring Data
 REW-1
 Former Raytheon Facility, Wayland, MA



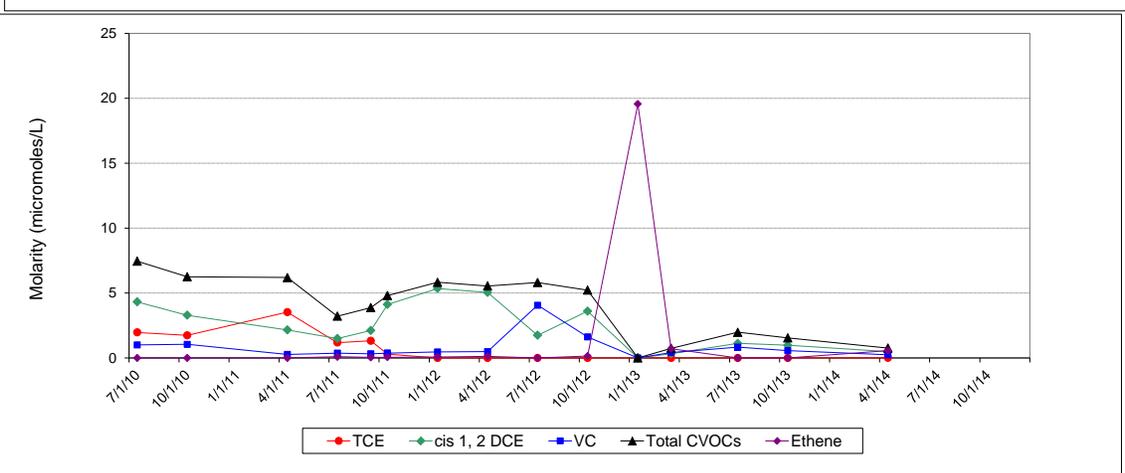
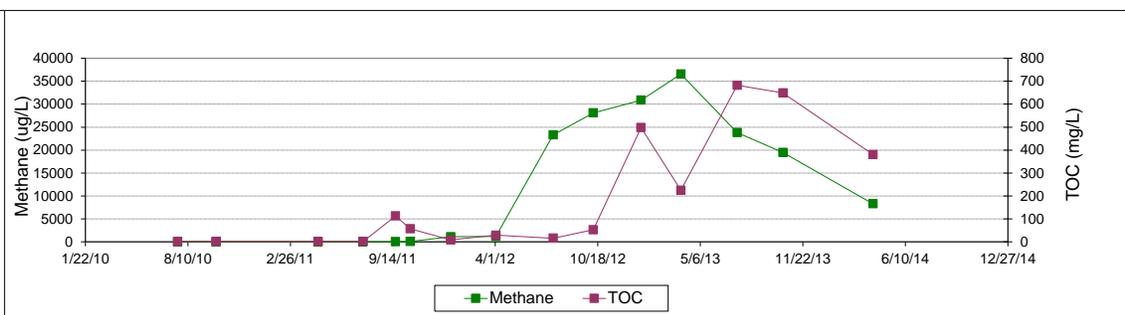
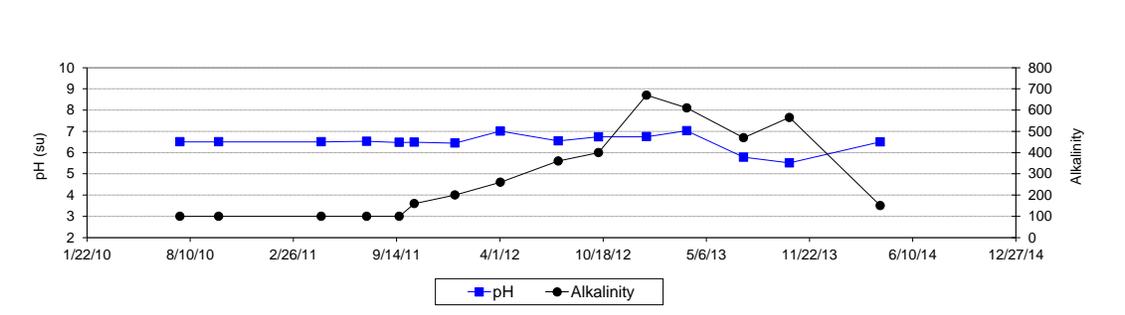
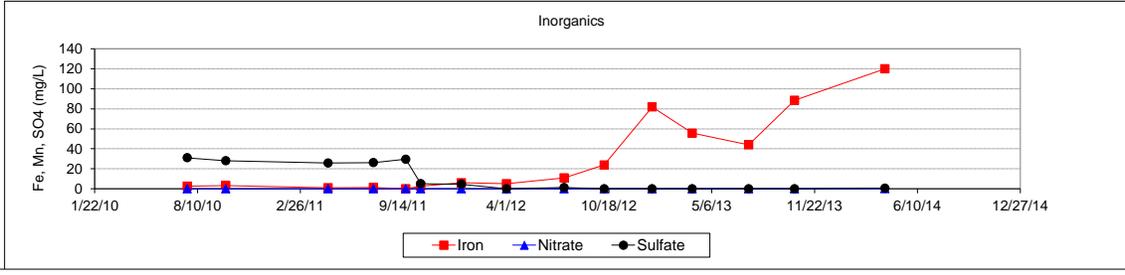
Northern Area Remediation Monitoring Data
 REW-4
 Former Raytheon Facility, Wayland, MA



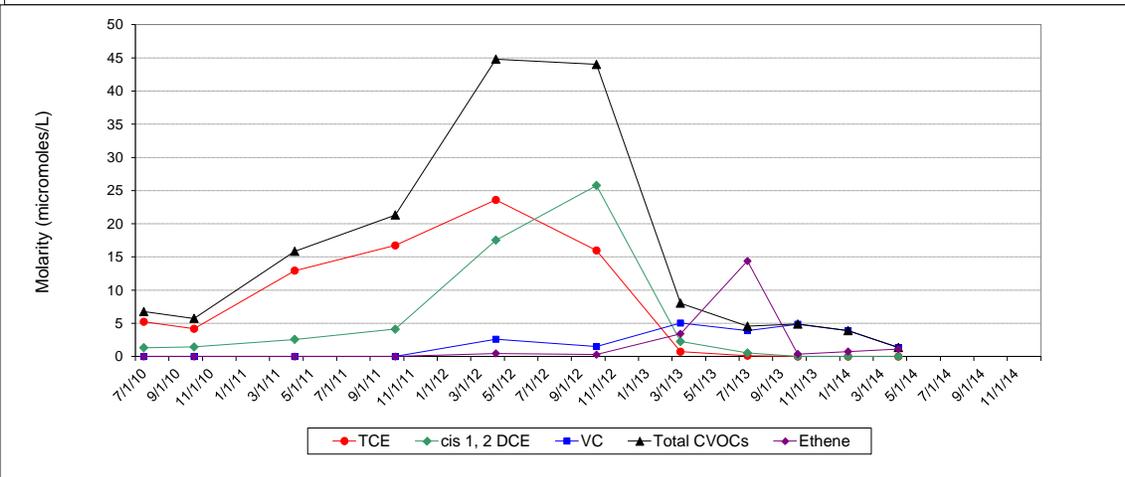
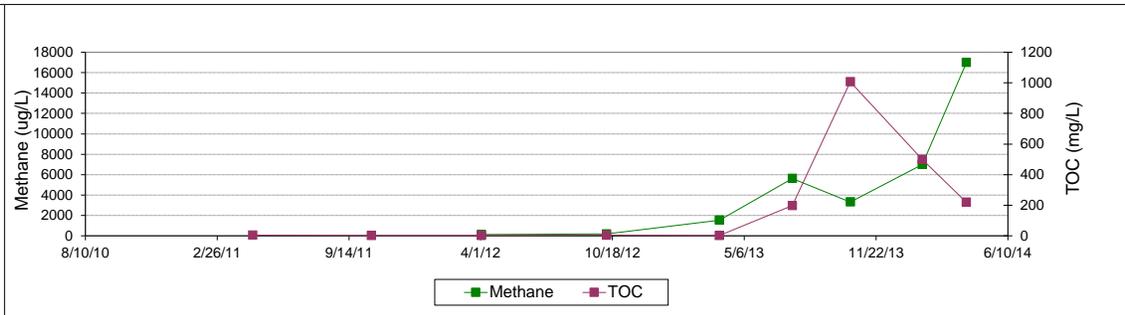
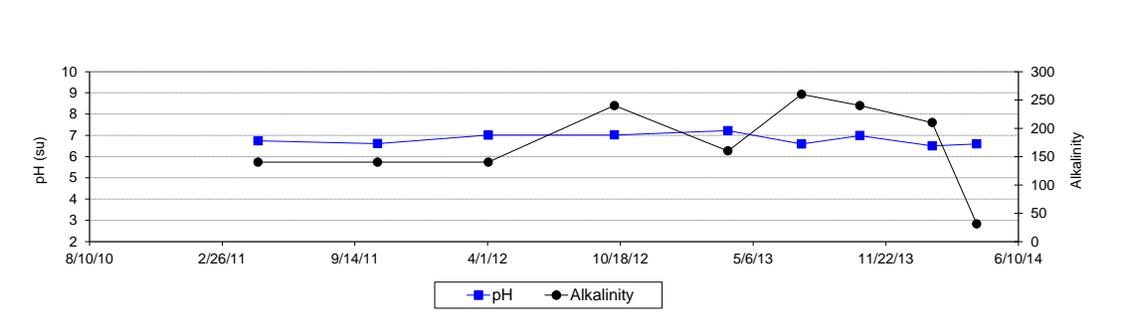
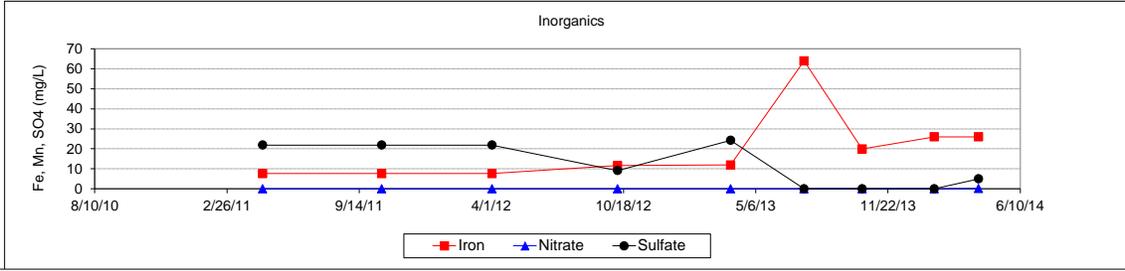
Northern Area Remediation Monitoring Data
 REW-5
 Former Raytheon Facility, Wayland, MA



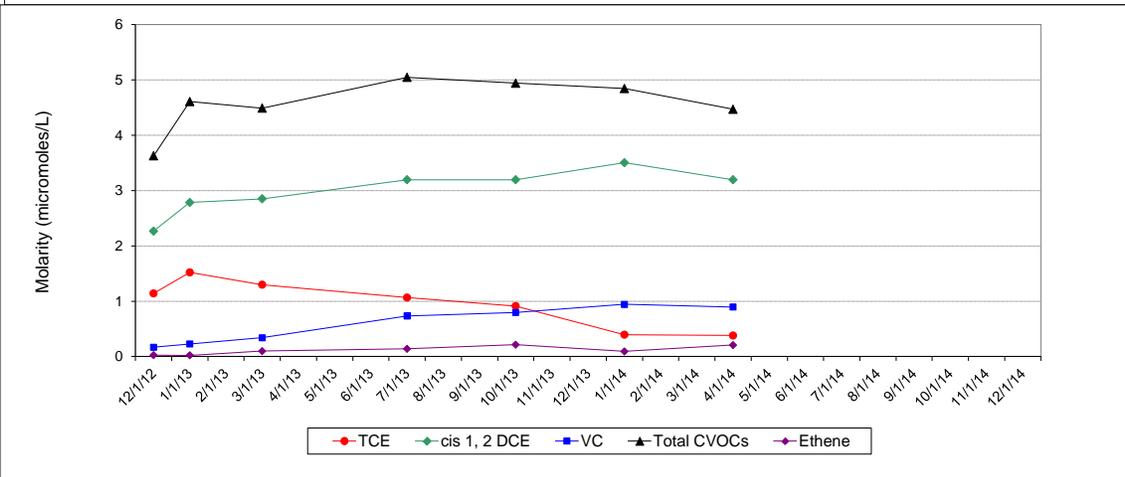
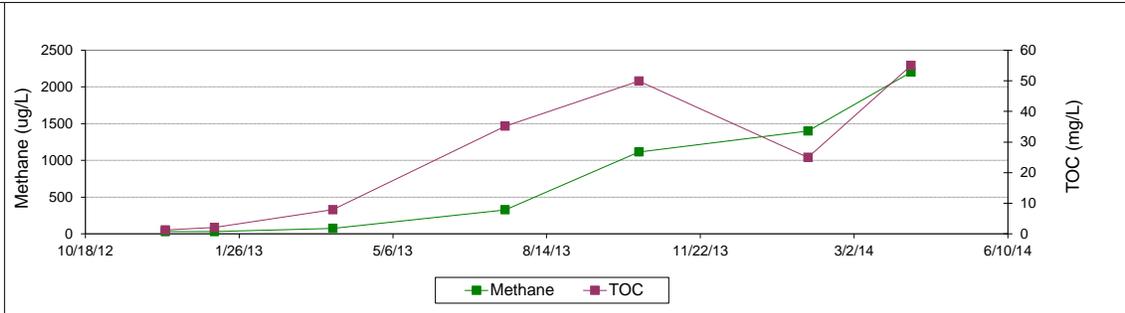
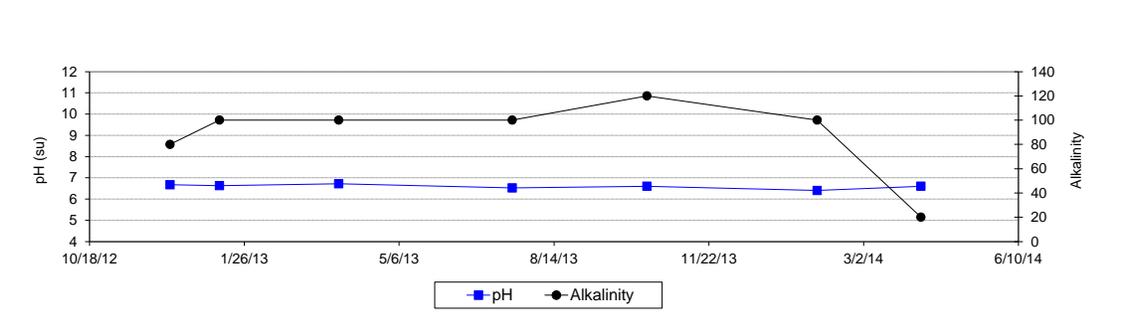
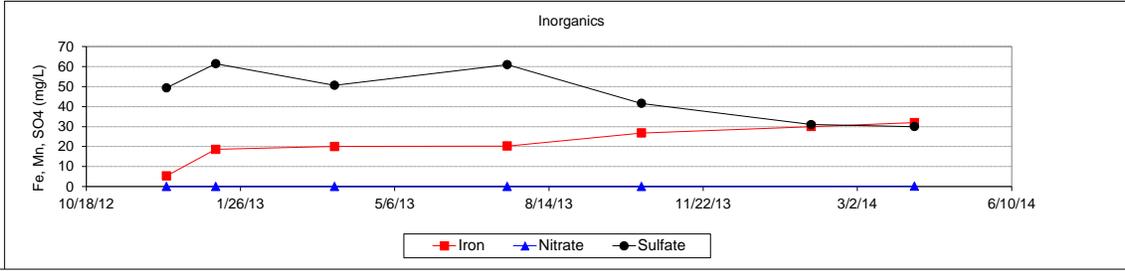
Northern Area Remediation Monitoring Data
 MW-265M
 Former Raytheon Facility, Wayland, MA



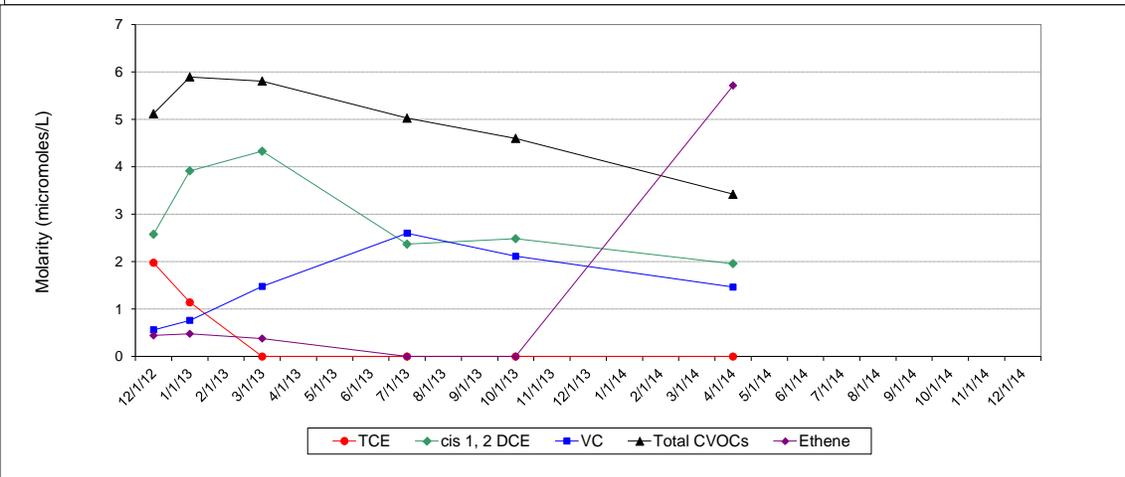
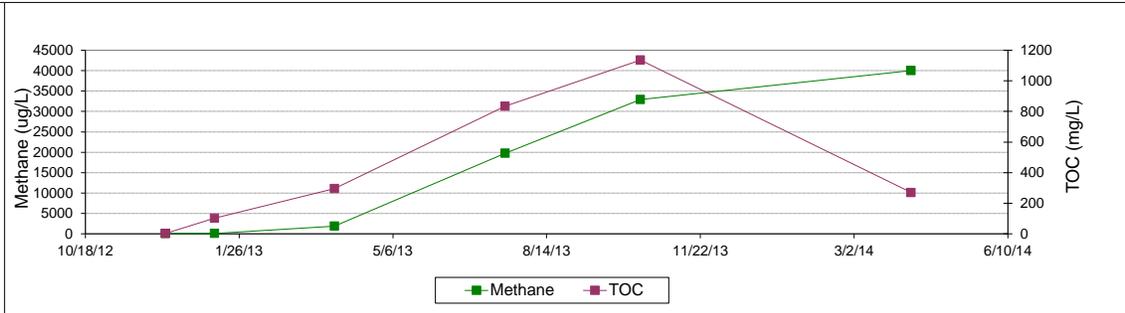
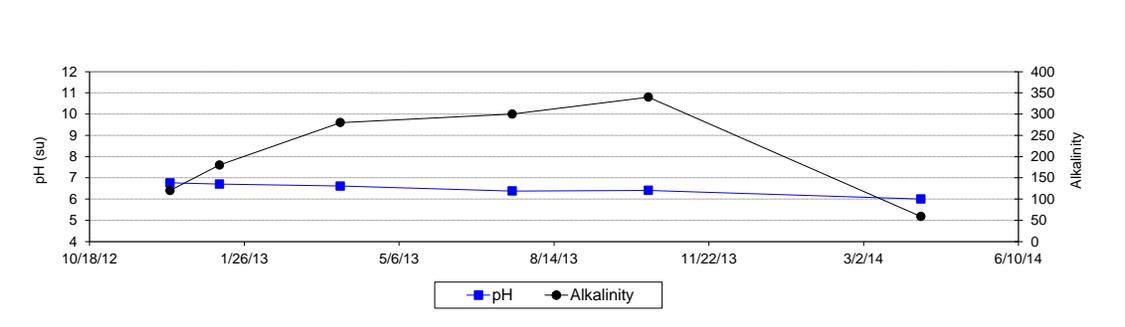
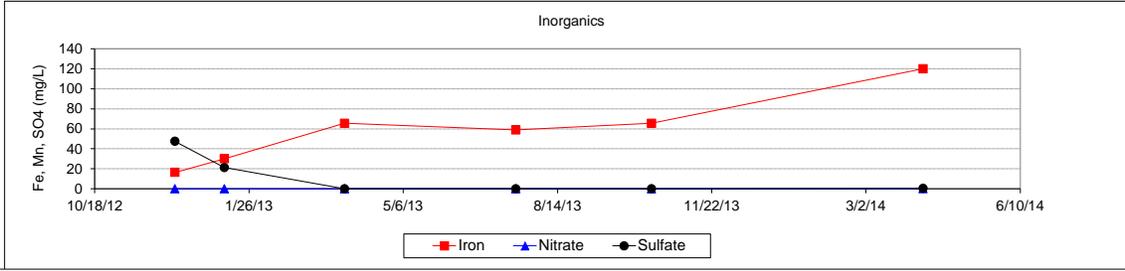
Northern Area Remediation Monitoring Data
 MW-561
 Former Raytheon Facility, Wayland, MA



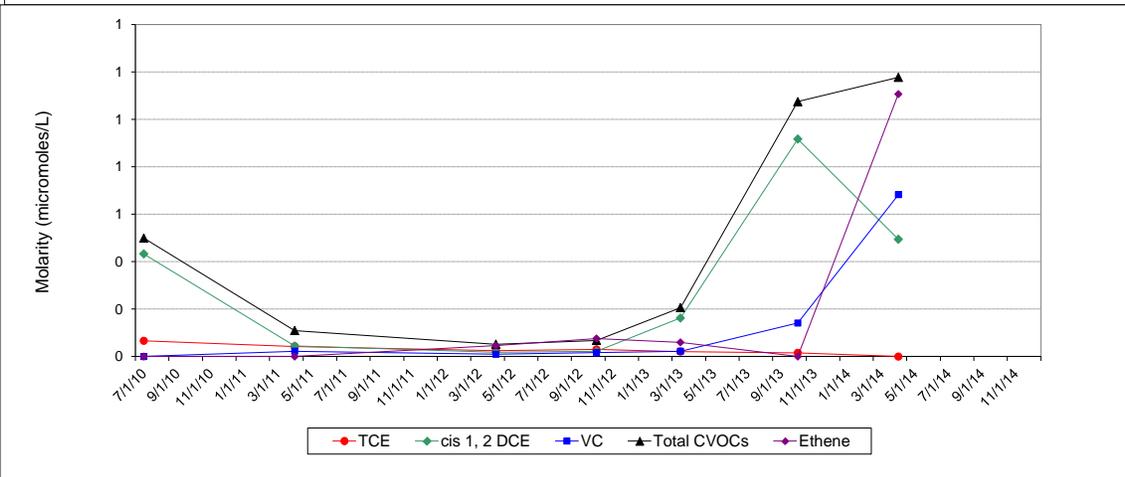
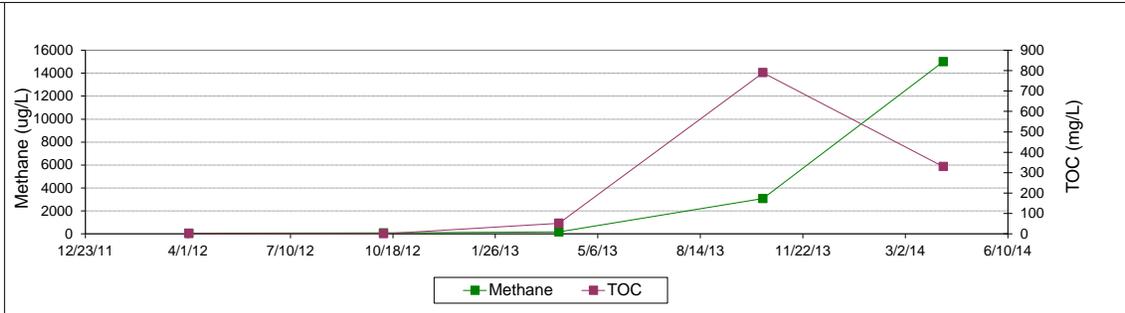
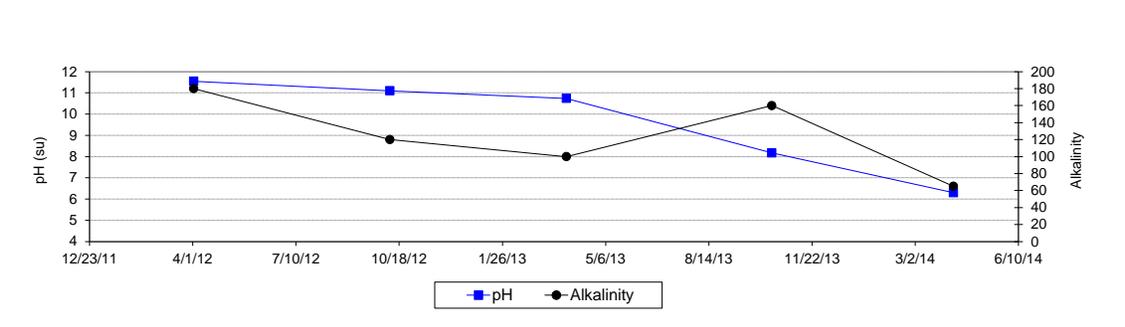
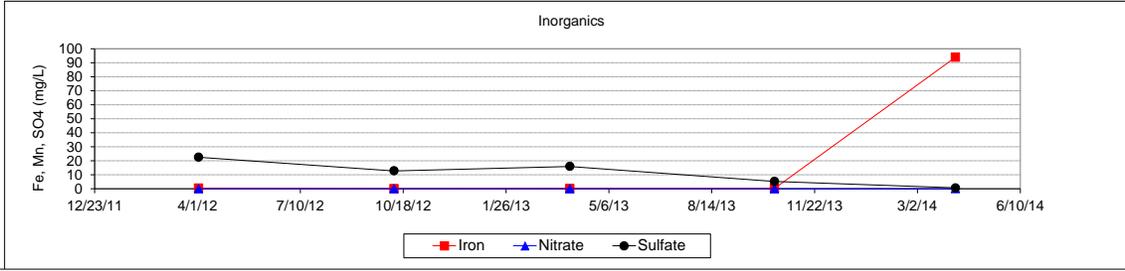
Northern Area Remediation Monitoring Data
 REW-12
 Former Raytheon Facility, Wayland, MA



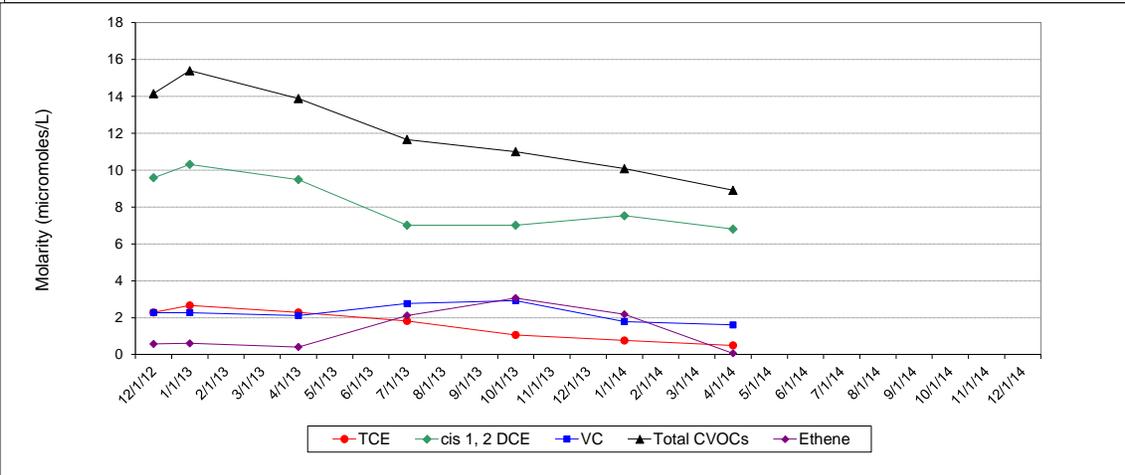
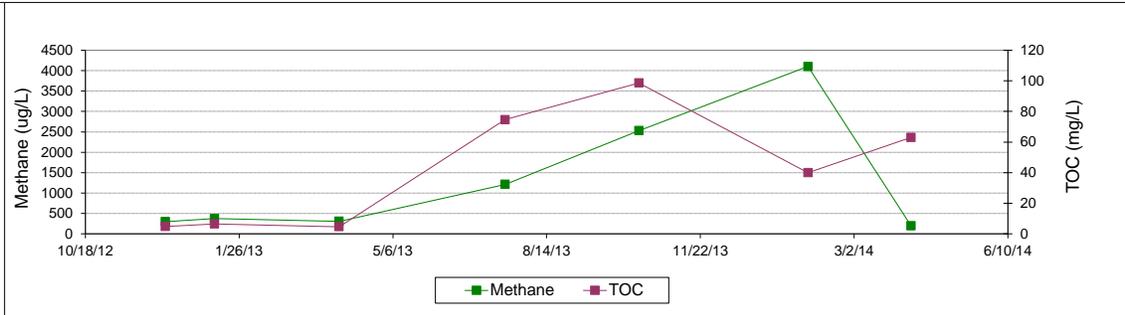
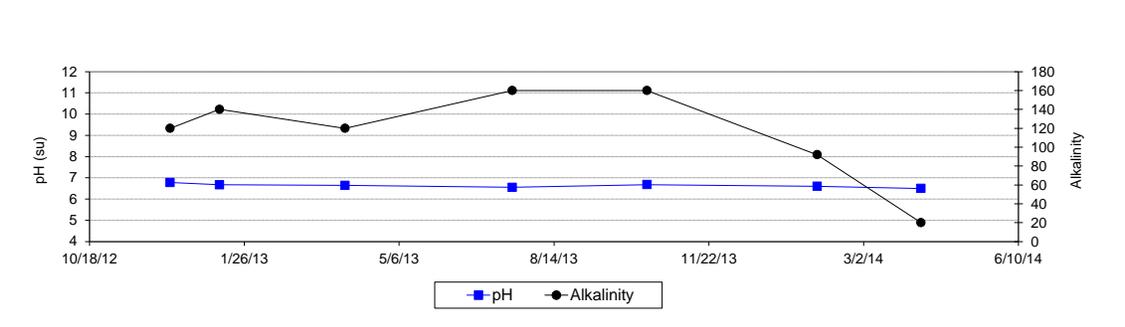
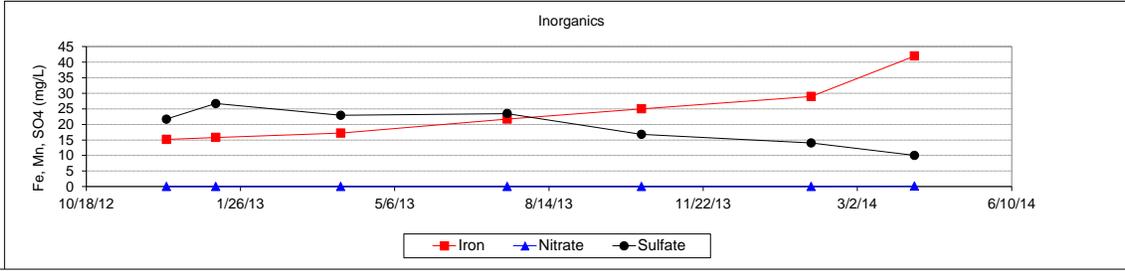
Northern Area Remediation Monitoring Data
 MW-563
 Former Raytheon Facility, Wayland, MA



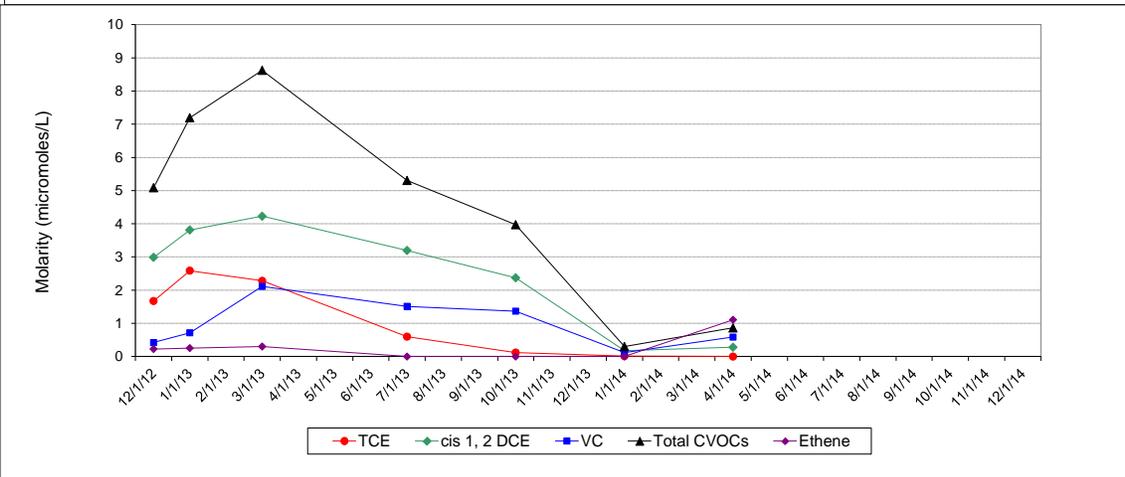
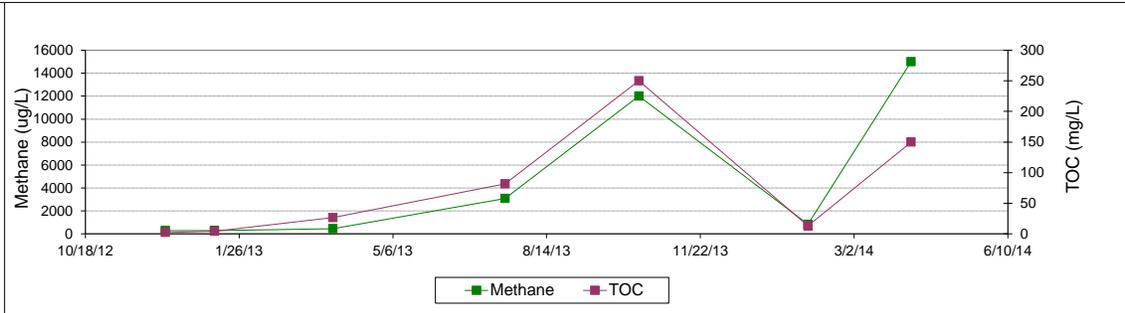
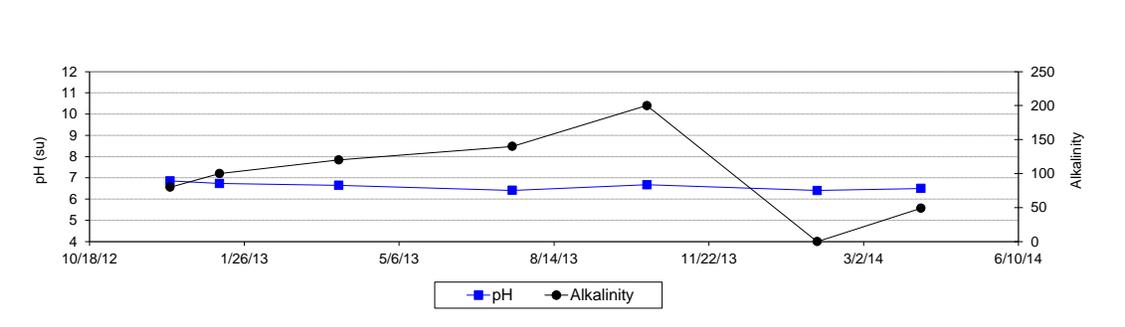
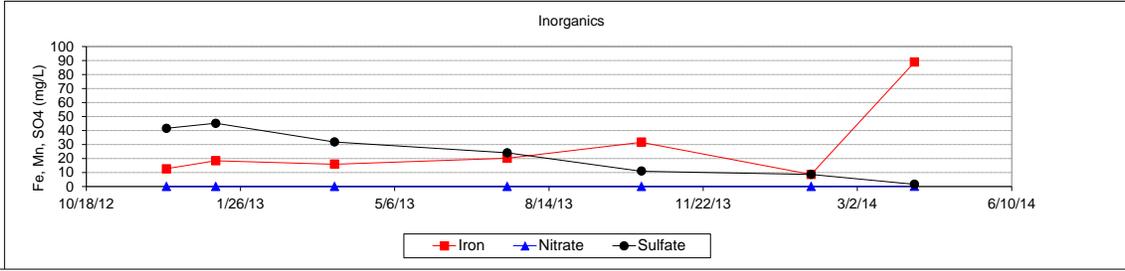
Northern Area Remediation Monitoring Data
 MW-560
 Former Raytheon Facility, Wayland, MA



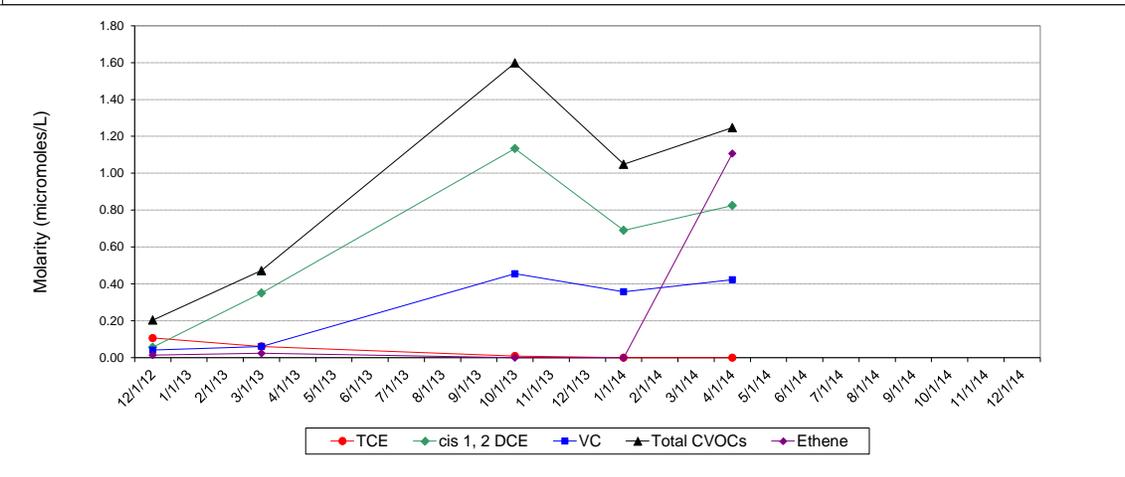
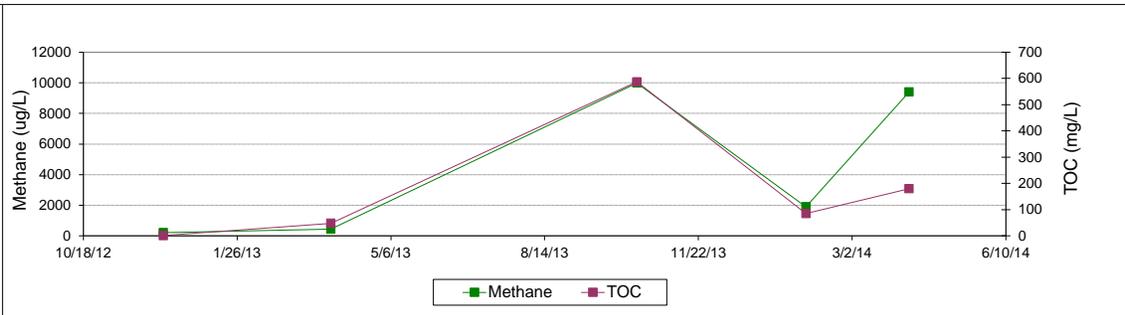
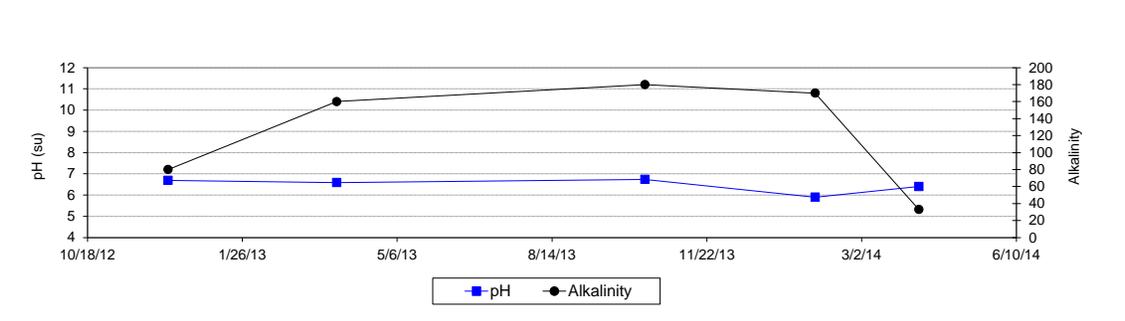
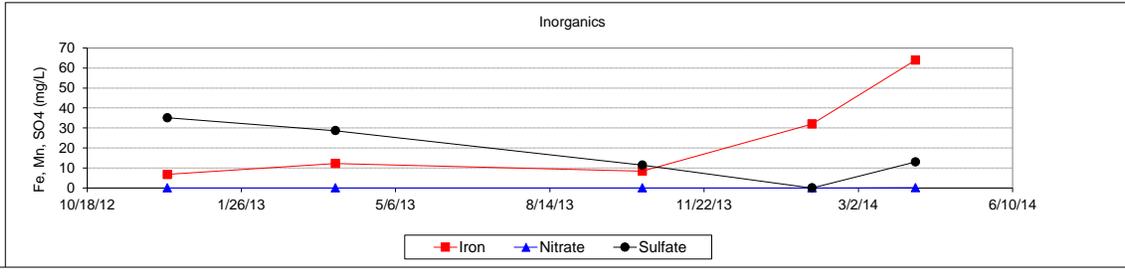
Northern Area Remediation Monitoring Data
 REW-7
 Former Raytheon Facility, Wayland, MA



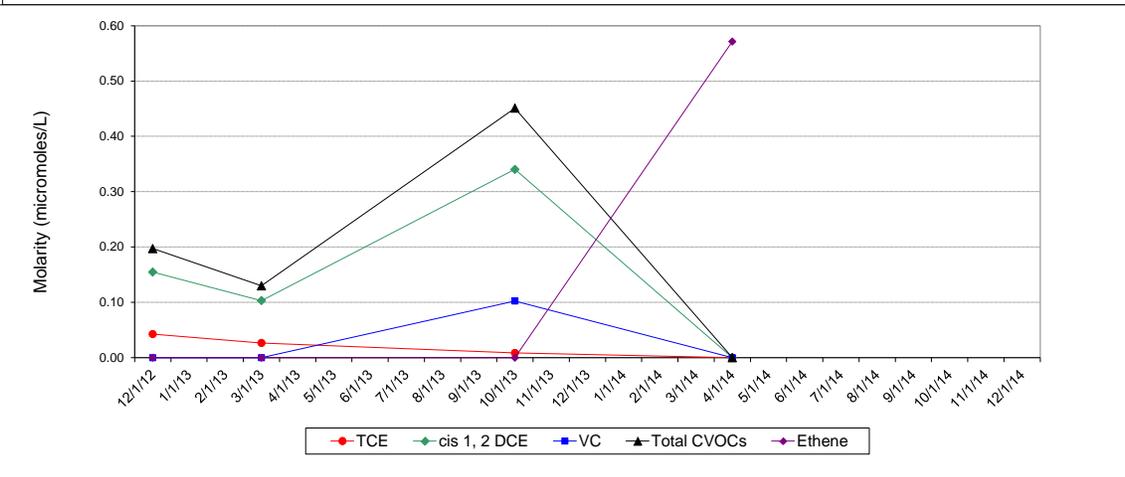
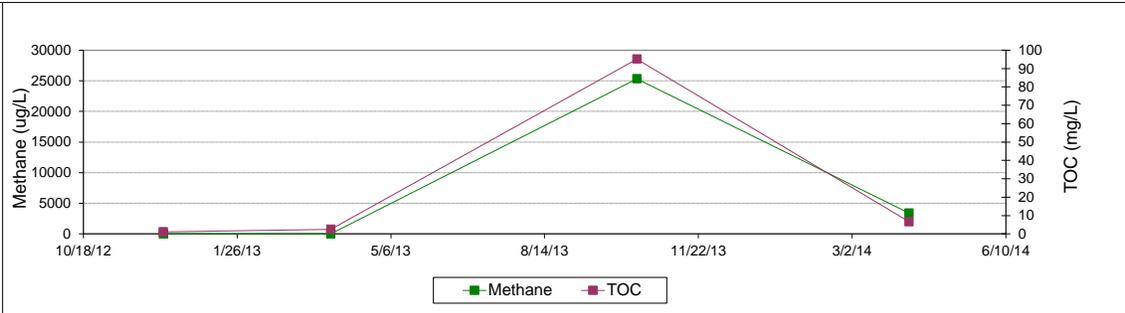
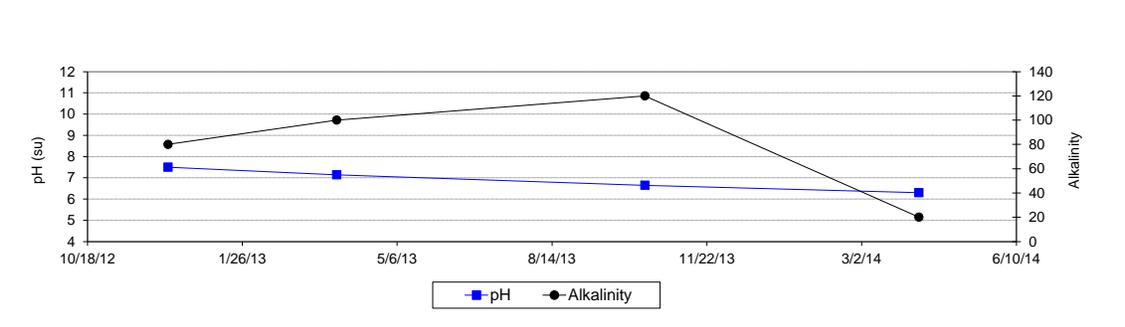
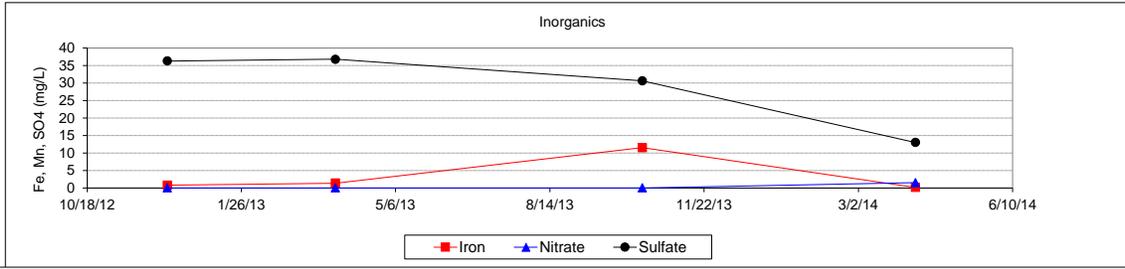
Northern Area Remediation Monitoring Data
 REW-8
 Former Raytheon Facility, Wayland, MA



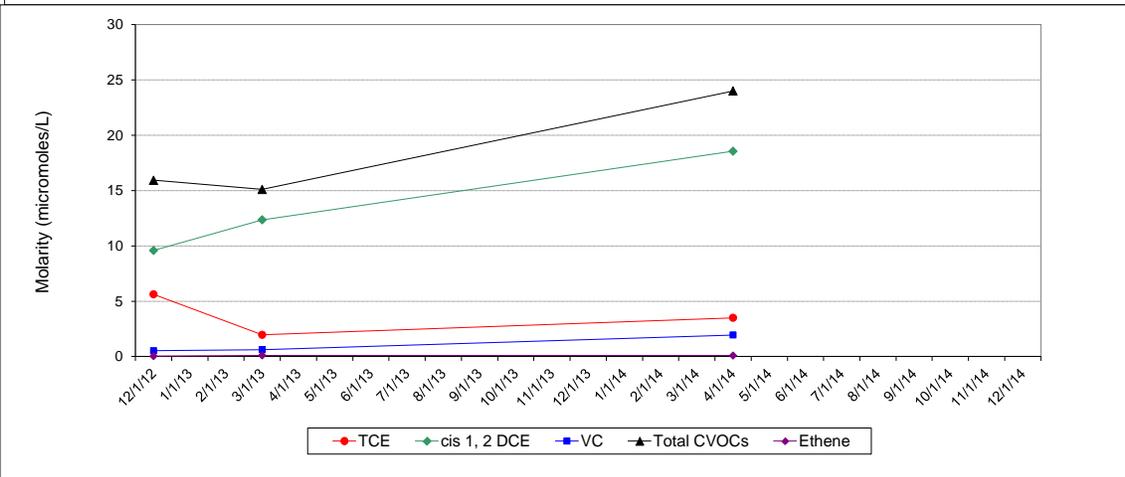
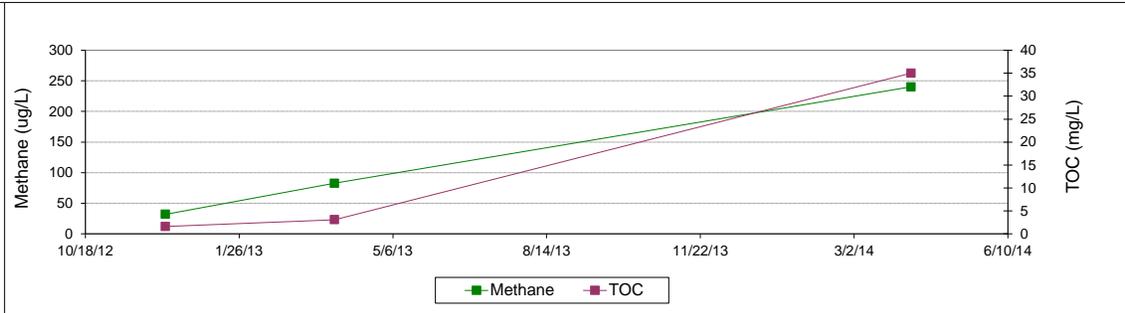
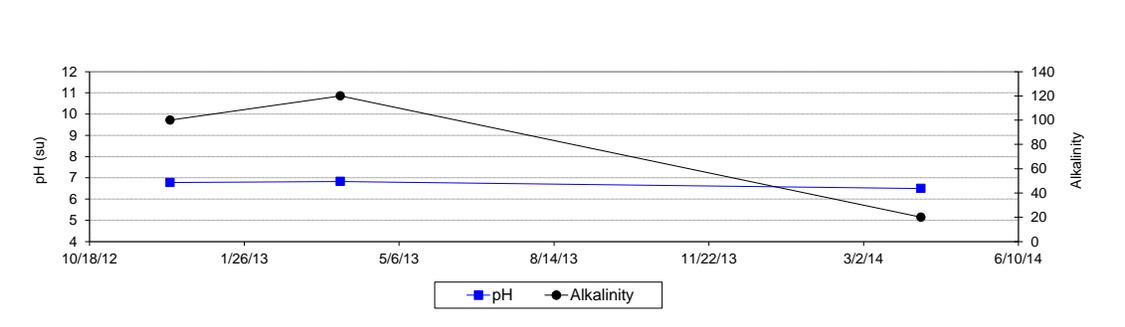
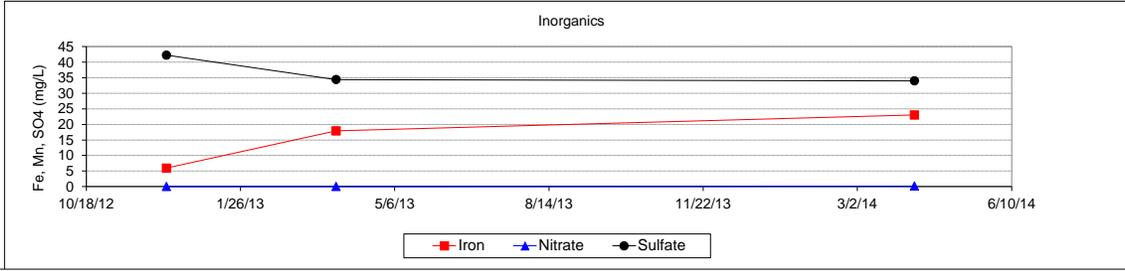
Northern Area Remediation Monitoring Data
 REW-9
 Former Raytheon Facility, Wayland, MA



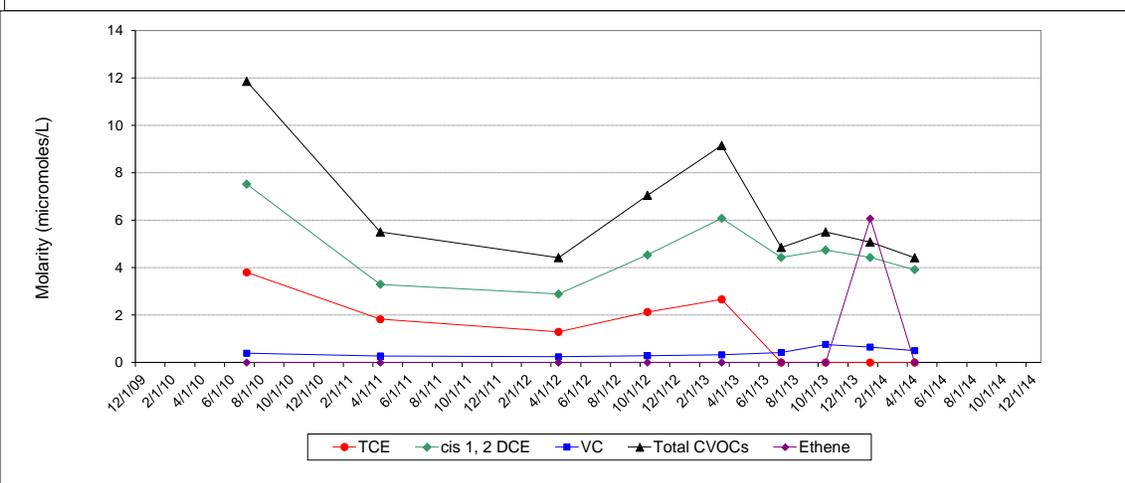
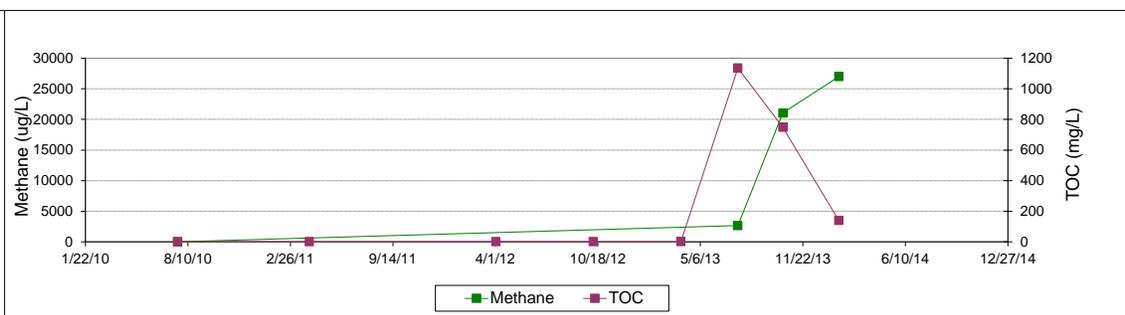
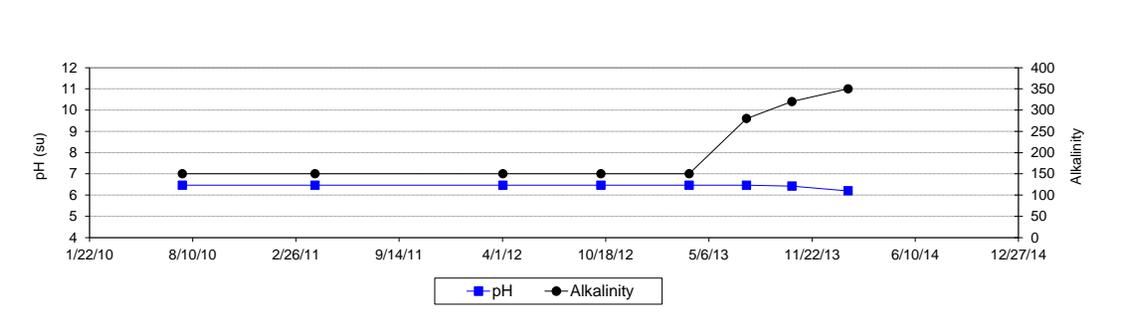
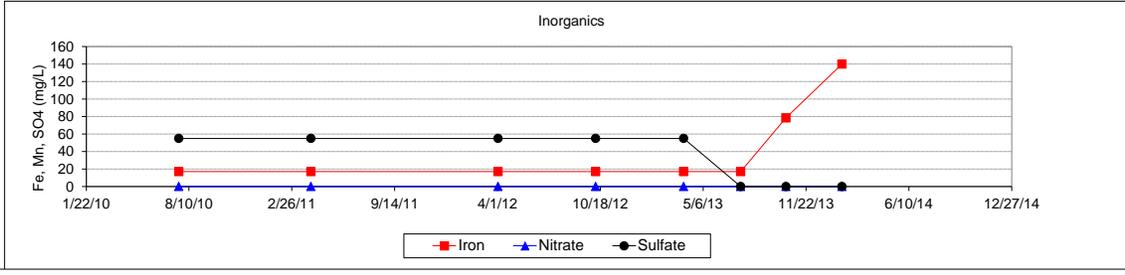
Northern Area Remediation Monitoring Data
 REW-10
 Former Raytheon Facility, Wayland, MA



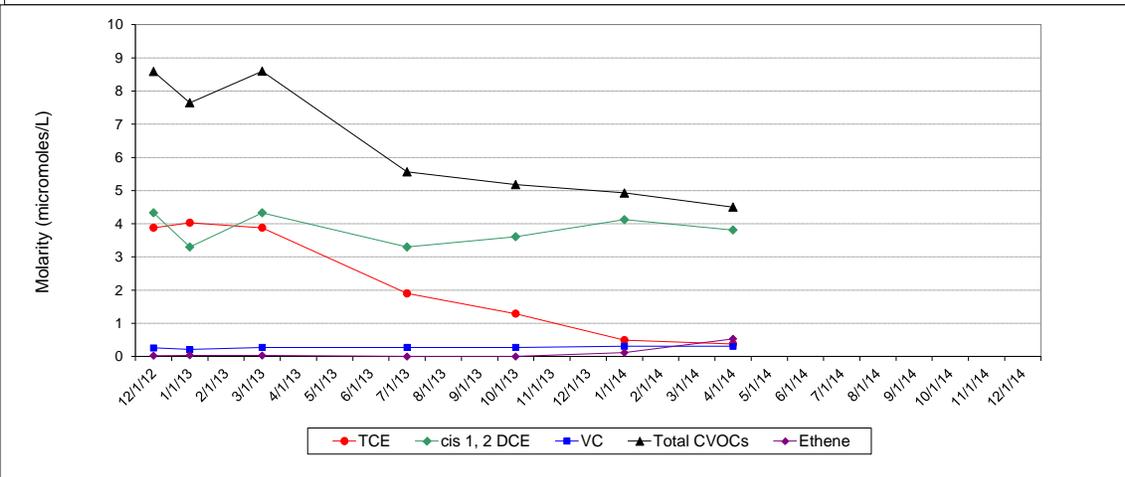
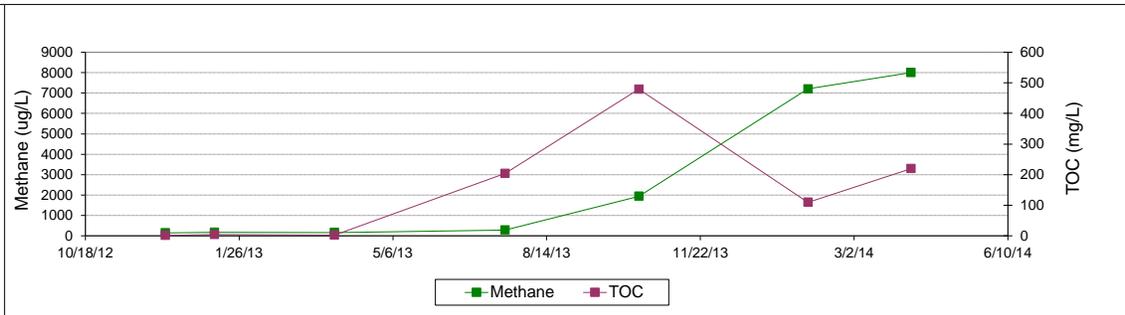
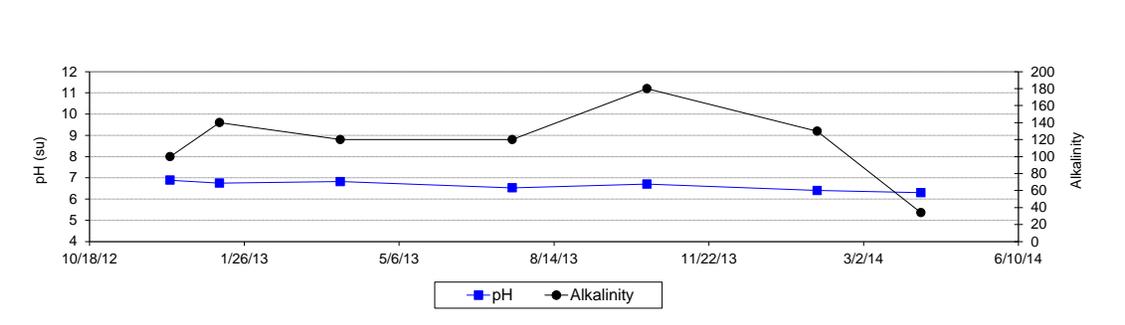
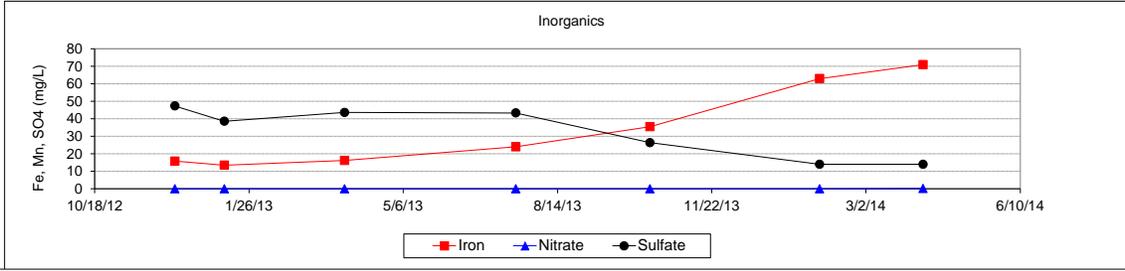
Northern Area Remediation Monitoring Data
 REW-11
 Former Raytheon Facility, Wayland, MA



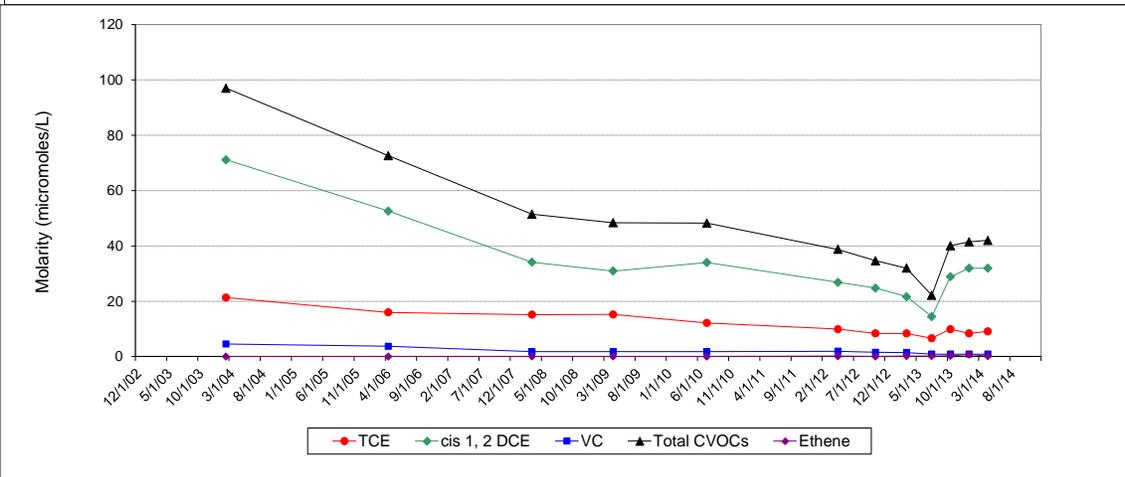
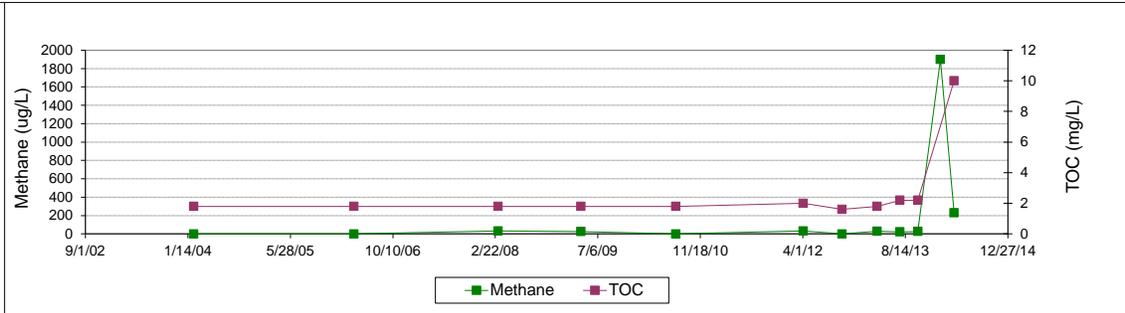
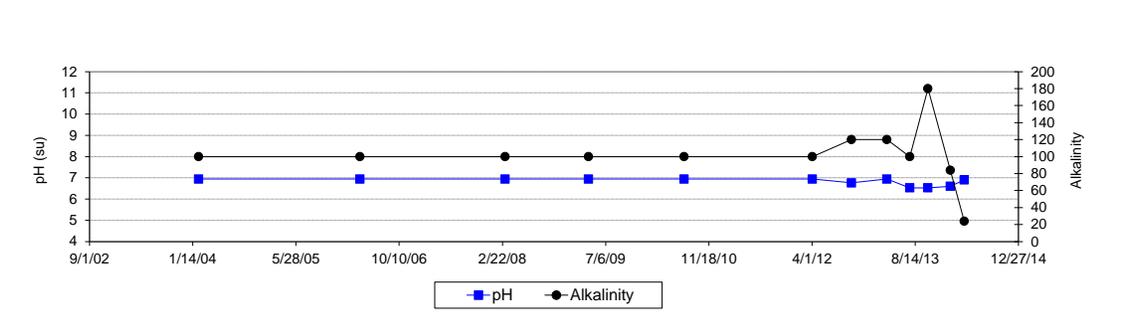
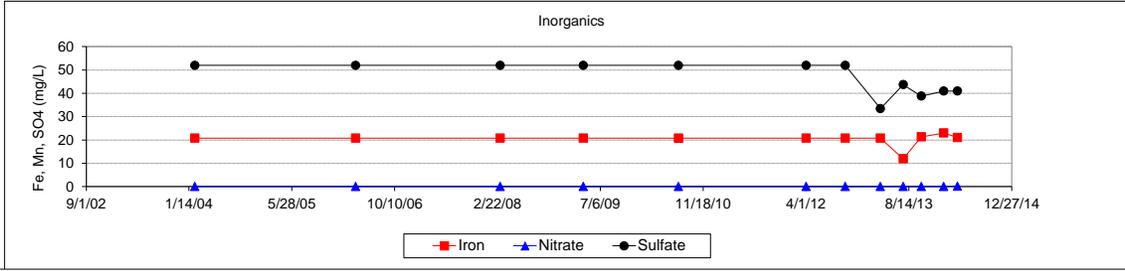
Northern Area Remediation Monitoring Data
 MW-267M
 Former Raytheon Facility, Wayland, MA



Northern Area Remediation Monitoring Data
 REW-6
 Former Raytheon Facility, Wayland, MA



Northern Area Remediation Monitoring Data
 MW-268M
 Former Raytheon Facility, Wayland, MA



Appendix B
Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-57719-1
Client Project/Site: IDS Wayland

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

Attn: Lyndsey Colburn



Authorized for release by:
4/18/2014 10:30:16 AM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com
Designee for
Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	11
Surrogate Summary	68
QC Sample Results	69
QC Association Summary	84
Lab Chronicle	85
Certification Summary	91
Method Summary	92
Sample Summary	93
Receipt Checklists	94
Chain of Custody	95

Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

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

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Job ID: 480-57719-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57719-1

Receipt

The samples were received on 4/11/2014 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method(s) 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for Carbon disulfide, Isopropyl ether, Naphthalene, tert-Butyl ethyl ether, tert-Amyl methyl Ether, & Tetrahydrofuran.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1025M-20140410-01 (480-57719-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 175485 exceeded control limits for the following analyte: Tetrahydrofuran. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MW-1018-20140410-01 (480-57719-14). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-57719-1**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-57719-1(1-34)

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

CAM Protocols (check all that apply below):

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

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

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

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

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

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

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

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

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

Signature:  Position: Project Management Assistant

Printed Name: Rebecca Jones Date: 4/18/14 10:27

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1030-20140410-01

Lab Sample ID: 480-57719-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.7		1.0		ug/L	1		8260C	Total/NA
Acetone	76		50		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	39		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1028-20140410-01

Lab Sample ID: 480-57719-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
Trichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1025M-20140410-01

Lab Sample ID: 480-57719-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.9		2.0		ug/L	2		8260C	Total/NA
1,1-Dichloroethene	4.8		2.0		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	3.4		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	83		2.0		ug/L	2		8260C	Total/NA

Client Sample ID: DUP-003-20140410-01

Lab Sample ID: 480-57719-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.9		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.8		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.9		1.0		ug/L	1		8260C	Total/NA
Acetone	81		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	85		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1015D-20140410-01

Lab Sample ID: 480-57719-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	82		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	2.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	23		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1033-20140410-01

Lab Sample ID: 480-57719-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-002-20140410-01

Lab Sample ID: 480-57719-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Acetone	75		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	41		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1023-20140410-01

Lab Sample ID: 480-57719-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1010M-20140410-01

Lab Sample ID: 480-57719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	77		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1022-20140410-01

Lab Sample ID: 480-57719-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA
Trichloroethene	3.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1019B-20140410-01

Lab Sample ID: 480-57719-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA
Trichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1032-20140410-01

Lab Sample ID: 480-57719-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.0		1.0		ug/L	1		8260C	Total/NA
1,1,1-Dichloroethane	1.9		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	4.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1017D-20140410-01

Lab Sample ID: 480-57719-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	78		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	29		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1018-20140410-01

Lab Sample ID: 480-57719-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	42		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	3.7		1.0		ug/L	1		8260C	Total/NA
Acetone	81		50		ug/L	1		8260C	Total/NA
Trichloroethene - DL	170		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: MW-1031-20140410-01

Lab Sample ID: 480-57719-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA
Trichloroethene	2.9		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1008-20140410-01

Lab Sample ID: 480-57719-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
Trichloroethene	3.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1025D-20140410-01

Lab Sample ID: 480-57719-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1011-20140410-01

Lab Sample ID: 480-57719-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	12		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	22		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1024D-20140410-01

Lab Sample ID: 480-57719-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	85		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1020-20140410-01

Lab Sample ID: 480-57719-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.0		1.0		ug/L	1		8260C	Total/NA
Acetone	81		50		ug/L	1		8260C	Total/NA
Trichloroethene	21		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1034-20140410-01

Lab Sample ID: 480-57719-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	81		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-004-20140410-01

Lab Sample ID: 480-57719-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1010D-20140410-01

Lab Sample ID: 480-57719-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.3		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1027-20140410-01

Lab Sample ID: 480-57719-24

No Detections.

Client Sample ID: MW-1016D-20140410-01

Lab Sample ID: 480-57719-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	42		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1013-20140410-01

Lab Sample ID: 480-57719-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	87		50		ug/L	1		8260C	Total/NA

Client Sample ID: TB-001-20140410-01

Lab Sample ID: 480-57719-27

No Detections.

Client Sample ID: MW-1009-20140410-01

Lab Sample ID: 480-57719-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
Trichlorofluoromethane	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1006-20140410-01

Lab Sample ID: 480-57719-29

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

Client Sample ID: MW-1005-20140410-01

Lab Sample ID: 480-57719-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	84		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1004-20140410-01

Lab Sample ID: 480-57719-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	82		50		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-001-20140410-01

Lab Sample ID: 480-57719-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1002B-20140410-01

Lab Sample ID: 480-57719-33

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1002B-20140410-01 (Continued)

Lab Sample ID: 480-57719-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	87		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1003-20140410-01

Lab Sample ID: 480-57719-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.2		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1030-20140410-01

Lab Sample ID: 480-57719-1

Date Collected: 04/10/14 10:11

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 23:46	1
1,1,1-Trichloroethane	4.1		1.0		ug/L			04/11/14 23:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 23:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 23:46	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 23:46	1
1,1-Dichloroethene	2.7		1.0		ug/L			04/11/14 23:46	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 23:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 23:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 23:46	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,4-Dioxane	ND		50		ug/L			04/11/14 23:46	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 23:46	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:46	1
2-Hexanone	ND		10		ug/L			04/11/14 23:46	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:46	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 23:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 23:46	1
Acetone	76		50		ug/L			04/11/14 23:46	1
Benzene	ND		1.0		ug/L			04/11/14 23:46	1
Bromobenzene	ND		1.0		ug/L			04/11/14 23:46	1
Bromoform	ND		1.0		ug/L			04/11/14 23:46	1
Bromomethane	ND		2.0		ug/L			04/11/14 23:46	1
Carbon disulfide	ND		10		ug/L			04/11/14 23:46	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 23:46	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 23:46	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 23:46	1
Chloroethane	ND		2.0		ug/L			04/11/14 23:46	1
Chloroform	ND		1.0		ug/L			04/11/14 23:46	1
Chloromethane	ND		2.0		ug/L			04/11/14 23:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:46	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 23:46	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 23:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 23:46	1
Ethyl ether	ND		1.0		ug/L			04/11/14 23:46	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 23:46	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 23:46	1
Isopropyl ether	ND		10		ug/L			04/11/14 23:46	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1030-20140410-01

Lab Sample ID: 480-57719-1

Date Collected: 04/10/14 10:11

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
Methyl tert-butyl ether	1.7		1.0		ug/L			04/11/14 23:46	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 23:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 23:46	1
Naphthalene	ND		5.0		ug/L			04/11/14 23:46	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
o-Xylene	ND		1.0		ug/L			04/11/14 23:46	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
Styrene	ND		1.0		ug/L			04/11/14 23:46	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 23:46	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 23:46	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 23:46	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 23:46	1
Toluene	ND		1.0		ug/L			04/11/14 23:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:46	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 23:46	1
Trichloroethene	39		1.0		ug/L			04/11/14 23:46	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 23:46	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 23:46	1
Dibromomethane	ND		1.0		ug/L			04/11/14 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/11/14 23:46	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/11/14 23:46	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/11/14 23:46	1

Client Sample ID: MW-1028-20140410-01

Lab Sample ID: 480-57719-2

Date Collected: 04/10/14 09:25

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 00:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 00:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 00:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:10	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1028-20140410-01

Lab Sample ID: 480-57719-2

Date Collected: 04/10/14 09:25

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,4-Dioxane	ND		50		ug/L			04/12/14 00:10	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 00:10	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:10	1
2-Hexanone	ND		10		ug/L			04/12/14 00:10	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:10	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 00:10	1
Acetone	80		50		ug/L			04/12/14 00:10	1
Benzene	ND		1.0		ug/L			04/12/14 00:10	1
Bromobenzene	ND		1.0		ug/L			04/12/14 00:10	1
Bromoform	ND		1.0		ug/L			04/12/14 00:10	1
Bromomethane	ND		2.0		ug/L			04/12/14 00:10	1
Carbon disulfide	ND		10		ug/L			04/12/14 00:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 00:10	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 00:10	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 00:10	1
Chloroethane	ND		2.0		ug/L			04/12/14 00:10	1
Chloroform	ND		1.0		ug/L			04/12/14 00:10	1
Chloromethane	ND		2.0		ug/L			04/12/14 00:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 00:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:10	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 00:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 00:10	1
Ethyl ether	ND		1.0		ug/L			04/12/14 00:10	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 00:10	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 00:10	1
Isopropyl ether	ND		10		ug/L			04/12/14 00:10	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 00:10	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 00:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 00:10	1
Naphthalene	ND		5.0		ug/L			04/12/14 00:10	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
o-Xylene	ND		1.0		ug/L			04/12/14 00:10	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Styrene	ND		1.0		ug/L			04/12/14 00:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 00:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 00:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 00:10	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 00:10	1
Toluene	ND		1.0		ug/L			04/12/14 00:10	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1028-20140410-01

Lab Sample ID: 480-57719-2

Date Collected: 04/10/14 09:25

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 00:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:10	1
Trichloroethene	3.3		1.0		ug/L			04/12/14 00:10	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 00:10	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 00:10	1
Dibromomethane	ND		1.0		ug/L			04/12/14 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 00:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/12/14 00:10	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 00:10	1

Client Sample ID: MW-1025M-20140410-01

Lab Sample ID: 480-57719-3

Date Collected: 04/10/14 08:55

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/12/14 00:34	2
1,1,1-Trichloroethane	2.9		2.0		ug/L			04/12/14 00:34	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 00:34	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/12/14 00:34	2
1,1-Dichloroethane	ND		2.0		ug/L			04/12/14 00:34	2
1,1-Dichloroethene	4.8		2.0		ug/L			04/12/14 00:34	2
1,1-Dichloropropene	ND		2.0		ug/L			04/12/14 00:34	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/12/14 00:34	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2-Dichloroethane	ND		2.0		ug/L			04/12/14 00:34	2
1,2-Dichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,3-Dichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,4-Dioxane	ND		100		ug/L			04/12/14 00:34	2
2,2-Dichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
2-Butanone (MEK)	ND		20		ug/L			04/12/14 00:34	2
2-Chlorotoluene	ND		2.0		ug/L			04/12/14 00:34	2
2-Hexanone	ND		20		ug/L			04/12/14 00:34	2
4-Chlorotoluene	ND		2.0		ug/L			04/12/14 00:34	2
4-Isopropyltoluene	ND		2.0		ug/L			04/12/14 00:34	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/12/14 00:34	2
Acetone	ND		100		ug/L			04/12/14 00:34	2
Benzene	ND		2.0		ug/L			04/12/14 00:34	2
Bromobenzene	ND		2.0		ug/L			04/12/14 00:34	2
Bromoform	ND		2.0		ug/L			04/12/14 00:34	2
Bromomethane	ND		4.0		ug/L			04/12/14 00:34	2

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1025M-20140410-01

Lab Sample ID: 480-57719-3

Date Collected: 04/10/14 08:55

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		20		ug/L			04/12/14 00:34	2
Carbon tetrachloride	ND		2.0		ug/L			04/12/14 00:34	2
Chlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
Chlorobromomethane	ND		2.0		ug/L			04/12/14 00:34	2
Chlorodibromomethane	ND		1.0		ug/L			04/12/14 00:34	2
Chloroethane	ND		4.0		ug/L			04/12/14 00:34	2
Chloroform	ND		2.0		ug/L			04/12/14 00:34	2
Chloromethane	ND		4.0		ug/L			04/12/14 00:34	2
cis-1,2-Dichloroethene	3.4		2.0		ug/L			04/12/14 00:34	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/12/14 00:34	2
Dichlorobromomethane	ND		1.0		ug/L			04/12/14 00:34	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/12/14 00:34	2
Ethyl ether	ND		2.0		ug/L			04/12/14 00:34	2
Ethylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Ethylene Dibromide	ND		2.0		ug/L			04/12/14 00:34	2
Hexachlorobutadiene	ND		0.80		ug/L			04/12/14 00:34	2
Isopropyl ether	ND		20		ug/L			04/12/14 00:34	2
Isopropylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/12/14 00:34	2
Methylene Chloride	ND		2.0		ug/L			04/12/14 00:34	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/12/14 00:34	2
Naphthalene	ND		10		ug/L			04/12/14 00:34	2
n-Butylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
N-Propylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
o-Xylene	ND		2.0		ug/L			04/12/14 00:34	2
sec-Butylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Styrene	ND		2.0		ug/L			04/12/14 00:34	2
Tert-amyl methyl ether	ND		10		ug/L			04/12/14 00:34	2
Tert-butyl ethyl ether	ND		10		ug/L			04/12/14 00:34	2
tert-Butylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Tetrachloroethene	ND		2.0		ug/L			04/12/14 00:34	2
Tetrahydrofuran	ND		20		ug/L			04/12/14 00:34	2
Toluene	ND		2.0		ug/L			04/12/14 00:34	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/12/14 00:34	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/12/14 00:34	2
Trichloroethene	83		2.0		ug/L			04/12/14 00:34	2
Trichlorofluoromethane	ND		2.0		ug/L			04/12/14 00:34	2
Vinyl chloride	ND		2.0		ug/L			04/12/14 00:34	2
Dibromomethane	ND		2.0		ug/L			04/12/14 00:34	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/12/14 00:34	2
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/12/14 00:34	2
4-Bromofluorobenzene (Surr)	95		70 - 130		04/12/14 00:34	2

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-003-20140410-01

Lab Sample ID: 480-57719-4

Date Collected: 04/10/14 03:33

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 00:58	1
1,1,1-Trichloroethane	2.9		1.0		ug/L			04/12/14 00:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 00:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 00:58	1
1,1-Dichloroethane	1.8		1.0		ug/L			04/12/14 00:58	1
1,1-Dichloroethene	4.9		1.0		ug/L			04/12/14 00:58	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 00:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 00:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 00:58	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,4-Dioxane	ND		50		ug/L			04/12/14 00:58	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 00:58	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:58	1
2-Hexanone	ND		10		ug/L			04/12/14 00:58	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:58	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 00:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 00:58	1
Acetone	81		50		ug/L			04/12/14 00:58	1
Benzene	ND		1.0		ug/L			04/12/14 00:58	1
Bromobenzene	ND		1.0		ug/L			04/12/14 00:58	1
Bromoform	ND		1.0		ug/L			04/12/14 00:58	1
Bromomethane	ND		2.0		ug/L			04/12/14 00:58	1
Carbon disulfide	ND		10		ug/L			04/12/14 00:58	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 00:58	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 00:58	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 00:58	1
Chloroethane	ND		2.0		ug/L			04/12/14 00:58	1
Chloroform	ND		1.0		ug/L			04/12/14 00:58	1
Chloromethane	ND		2.0		ug/L			04/12/14 00:58	1
cis-1,2-Dichloroethene	3.6		1.0		ug/L			04/12/14 00:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:58	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 00:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 00:58	1
Ethyl ether	ND		1.0		ug/L			04/12/14 00:58	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 00:58	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 00:58	1
Isopropyl ether	ND		10		ug/L			04/12/14 00:58	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-003-20140410-01

Lab Sample ID: 480-57719-4

Date Collected: 04/10/14 03:33

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 00:58	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 00:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 00:58	1
Naphthalene	ND		5.0		ug/L			04/12/14 00:58	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
o-Xylene	ND		1.0		ug/L			04/12/14 00:58	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
Styrene	ND		1.0		ug/L			04/12/14 00:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 00:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 00:58	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 00:58	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 00:58	1
Toluene	ND		1.0		ug/L			04/12/14 00:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 00:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:58	1
Trichloroethene	85		1.0		ug/L			04/12/14 00:58	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 00:58	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 00:58	1
Dibromomethane	ND		1.0		ug/L			04/12/14 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 00:58	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 00:58	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/12/14 00:58	1

Client Sample ID: MW-1015D-20140410-01

Lab Sample ID: 480-57719-5

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 01:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 01:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 01:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 01:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:21	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1015D-20140410-01

Lab Sample ID: 480-57719-5

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,4-Dioxane	ND		50		ug/L			04/12/14 01:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 01:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:21	1
2-Hexanone	ND		10		ug/L			04/12/14 01:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 01:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 01:21	1
Acetone	82		50		ug/L			04/12/14 01:21	1
Benzene	ND		1.0		ug/L			04/12/14 01:21	1
Bromobenzene	ND		1.0		ug/L			04/12/14 01:21	1
Bromoform	ND		1.0		ug/L			04/12/14 01:21	1
Bromomethane	ND		2.0		ug/L			04/12/14 01:21	1
Carbon disulfide	ND		10		ug/L			04/12/14 01:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 01:21	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 01:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 01:21	1
Chloroethane	ND		2.0		ug/L			04/12/14 01:21	1
Chloroform	ND		1.0		ug/L			04/12/14 01:21	1
Chloromethane	ND		2.0		ug/L			04/12/14 01:21	1
cis-1,2-Dichloroethene	1.9		1.0		ug/L			04/12/14 01:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 01:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 01:21	1
Ethyl ether	ND		1.0		ug/L			04/12/14 01:21	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 01:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 01:21	1
Isopropyl ether	ND		10		ug/L			04/12/14 01:21	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 01:21	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 01:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 01:21	1
Naphthalene	ND		5.0		ug/L			04/12/14 01:21	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
o-Xylene	ND		1.0		ug/L			04/12/14 01:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
Styrene	ND		1.0		ug/L			04/12/14 01:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 01:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 01:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
Tetrachloroethene	2.0		1.0		ug/L			04/12/14 01:21	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 01:21	1
Toluene	ND		1.0		ug/L			04/12/14 01:21	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1015D-20140410-01

Lab Sample ID: 480-57719-5

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 01:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:21	1
Trichloroethene	23		1.0		ug/L			04/12/14 01:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 01:21	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 01:21	1
Dibromomethane	ND		1.0		ug/L			04/12/14 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/12/14 01:21	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/12/14 01:21	1
4-Bromofluorobenzene (Surr)	98		70 - 130					04/12/14 01:21	1

Client Sample ID: MW-1033-20140410-01

Lab Sample ID: 480-57719-6

Date Collected: 04/10/14 08:58

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 01:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 01:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 01:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,4-Dioxane	ND		50		ug/L			04/12/14 01:45	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 01:45	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:45	1
2-Hexanone	ND		10		ug/L			04/12/14 01:45	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:45	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 01:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 01:45	1
Acetone	80		50		ug/L			04/12/14 01:45	1
Benzene	ND		1.0		ug/L			04/12/14 01:45	1
Bromobenzene	ND		1.0		ug/L			04/12/14 01:45	1
Bromoform	ND		1.0		ug/L			04/12/14 01:45	1
Bromomethane	ND		2.0		ug/L			04/12/14 01:45	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1033-20140410-01

Lab Sample ID: 480-57719-6

Date Collected: 04/10/14 08:58

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/12/14 01:45	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 01:45	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 01:45	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 01:45	1
Chloroethane	ND		2.0		ug/L			04/12/14 01:45	1
Chloroform	ND		1.0		ug/L			04/12/14 01:45	1
Chloromethane	ND		2.0		ug/L			04/12/14 01:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:45	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 01:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 01:45	1
Ethyl ether	ND		1.0		ug/L			04/12/14 01:45	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 01:45	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 01:45	1
Isopropyl ether	ND		10		ug/L			04/12/14 01:45	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 01:45	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 01:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 01:45	1
Naphthalene	ND		5.0		ug/L			04/12/14 01:45	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
o-Xylene	ND		1.0		ug/L			04/12/14 01:45	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Styrene	ND		1.0		ug/L			04/12/14 01:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 01:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 01:45	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 01:45	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 01:45	1
Toluene	ND		1.0		ug/L			04/12/14 01:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:45	1
Trichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 01:45	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 01:45	1
Dibromomethane	ND		1.0		ug/L			04/12/14 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 01:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 01:45	1
4-Bromofluorobenzene (Surr)	93		70 - 130		04/12/14 01:45	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-002-20140410-01

Lab Sample ID: 480-57719-7

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 02:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,1-Dichloroethene	1.5		1.0		ug/L			04/12/14 02:09	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 02:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 02:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,4-Dioxane	ND		50		ug/L			04/12/14 02:09	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 02:09	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:09	1
2-Hexanone	ND		10		ug/L			04/12/14 02:09	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:09	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 02:09	1
Acetone	75		50		ug/L			04/12/14 02:09	1
Benzene	ND		1.0		ug/L			04/12/14 02:09	1
Bromobenzene	ND		1.0		ug/L			04/12/14 02:09	1
Bromoform	ND		1.0		ug/L			04/12/14 02:09	1
Bromomethane	ND		2.0		ug/L			04/12/14 02:09	1
Carbon disulfide	ND		10		ug/L			04/12/14 02:09	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 02:09	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 02:09	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 02:09	1
Chloroethane	ND		2.0		ug/L			04/12/14 02:09	1
Chloroform	ND		1.0		ug/L			04/12/14 02:09	1
Chloromethane	ND		2.0		ug/L			04/12/14 02:09	1
cis-1,2-Dichloroethene	41		1.0		ug/L			04/12/14 02:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:09	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 02:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 02:09	1
Ethyl ether	ND		1.0		ug/L			04/12/14 02:09	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 02:09	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 02:09	1
Isopropyl ether	ND		10		ug/L			04/12/14 02:09	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-002-20140410-01

Lab Sample ID: 480-57719-7

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 02:09	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 02:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 02:09	1
Naphthalene	ND		5.0		ug/L			04/12/14 02:09	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
o-Xylene	ND		1.0		ug/L			04/12/14 02:09	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
Styrene	ND		1.0		ug/L			04/12/14 02:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 02:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 02:09	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 02:09	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 02:09	1
Toluene	ND		1.0		ug/L			04/12/14 02:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 02:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:09	1
Trichloroethene	1.0		1.0		ug/L			04/12/14 02:09	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 02:09	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 02:09	1
Dibromomethane	ND		1.0		ug/L			04/12/14 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 02:09	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/12/14 02:09	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 02:09	1

Client Sample ID: MW-1023-20140410-01

Lab Sample ID: 480-57719-8

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 02:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 02:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 02:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:33	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1023-20140410-01

Lab Sample ID: 480-57719-8

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,4-Dioxane	ND		50		ug/L			04/12/14 02:33	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 02:33	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:33	1
2-Hexanone	ND		10		ug/L			04/12/14 02:33	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:33	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 02:33	1
Acetone	80		50		ug/L			04/12/14 02:33	1
Benzene	ND		1.0		ug/L			04/12/14 02:33	1
Bromobenzene	ND		1.0		ug/L			04/12/14 02:33	1
Bromoform	ND		1.0		ug/L			04/12/14 02:33	1
Bromomethane	ND		2.0		ug/L			04/12/14 02:33	1
Carbon disulfide	ND		10		ug/L			04/12/14 02:33	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 02:33	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 02:33	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 02:33	1
Chloroethane	ND		2.0		ug/L			04/12/14 02:33	1
Chloroform	ND		1.0		ug/L			04/12/14 02:33	1
Chloromethane	ND		2.0		ug/L			04/12/14 02:33	1
cis-1,2-Dichloroethene	3.5		1.0		ug/L			04/12/14 02:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:33	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 02:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 02:33	1
Ethyl ether	ND		1.0		ug/L			04/12/14 02:33	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 02:33	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 02:33	1
Isopropyl ether	ND		10		ug/L			04/12/14 02:33	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 02:33	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 02:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 02:33	1
Naphthalene	ND		5.0		ug/L			04/12/14 02:33	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
o-Xylene	ND		1.0		ug/L			04/12/14 02:33	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Styrene	ND		1.0		ug/L			04/12/14 02:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 02:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 02:33	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 02:33	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 02:33	1
Toluene	ND		1.0		ug/L			04/12/14 02:33	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1023-20140410-01

Lab Sample ID: 480-57719-8

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 02:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:33	1
Trichloroethene	13		1.0		ug/L			04/12/14 02:33	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 02:33	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 02:33	1
Dibromomethane	ND		1.0		ug/L			04/12/14 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/12/14 02:33	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					04/12/14 02:33	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/12/14 02:33	1

Client Sample ID: MW-1010M-20140410-01

Lab Sample ID: 480-57719-9

Date Collected: 04/10/14 10:25

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 02:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 02:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 02:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,4-Dioxane	ND		50		ug/L			04/12/14 02:56	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 02:56	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:56	1
2-Hexanone	ND		10		ug/L			04/12/14 02:56	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:56	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 02:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 02:56	1
Acetone	77		50		ug/L			04/12/14 02:56	1
Benzene	ND		1.0		ug/L			04/12/14 02:56	1
Bromobenzene	ND		1.0		ug/L			04/12/14 02:56	1
Bromoform	ND		1.0		ug/L			04/12/14 02:56	1
Bromomethane	ND		2.0		ug/L			04/12/14 02:56	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1010M-20140410-01

Lab Sample ID: 480-57719-9

Date Collected: 04/10/14 10:25

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/12/14 02:56	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 02:56	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 02:56	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 02:56	1
Chloroethane	ND		2.0		ug/L			04/12/14 02:56	1
Chloroform	ND		1.0		ug/L			04/12/14 02:56	1
Chloromethane	ND		2.0		ug/L			04/12/14 02:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:56	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 02:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 02:56	1
Ethyl ether	ND		1.0		ug/L			04/12/14 02:56	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 02:56	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 02:56	1
Isopropyl ether	ND		10		ug/L			04/12/14 02:56	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 02:56	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 02:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 02:56	1
Naphthalene	ND		5.0		ug/L			04/12/14 02:56	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
o-Xylene	ND		1.0		ug/L			04/12/14 02:56	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Styrene	ND		1.0		ug/L			04/12/14 02:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 02:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 02:56	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 02:56	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 02:56	1
Toluene	ND		1.0		ug/L			04/12/14 02:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:56	1
Trichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 02:56	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 02:56	1
Dibromomethane	ND		1.0		ug/L			04/12/14 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/12/14 02:56	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/12/14 02:56	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/12/14 02:56	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1022-20140410-01

Lab Sample ID: 480-57719-10

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 03:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 03:20	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 03:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 03:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,4-Dioxane	ND		50		ug/L			04/12/14 03:20	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 03:20	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:20	1
2-Hexanone	ND		10		ug/L			04/12/14 03:20	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:20	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 03:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 03:20	1
Acetone	79		50		ug/L			04/12/14 03:20	1
Benzene	ND		1.0		ug/L			04/12/14 03:20	1
Bromobenzene	ND		1.0		ug/L			04/12/14 03:20	1
Bromoform	ND		1.0		ug/L			04/12/14 03:20	1
Bromomethane	ND		2.0		ug/L			04/12/14 03:20	1
Carbon disulfide	ND		10		ug/L			04/12/14 03:20	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 03:20	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 03:20	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 03:20	1
Chloroethane	ND		2.0		ug/L			04/12/14 03:20	1
Chloroform	ND		1.0		ug/L			04/12/14 03:20	1
Chloromethane	ND		2.0		ug/L			04/12/14 03:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 03:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:20	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 03:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 03:20	1
Ethyl ether	ND		1.0		ug/L			04/12/14 03:20	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 03:20	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 03:20	1
Isopropyl ether	ND		10		ug/L			04/12/14 03:20	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1022-20140410-01

Lab Sample ID: 480-57719-10

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 03:20	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 03:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 03:20	1
Naphthalene	ND		5.0		ug/L			04/12/14 03:20	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
o-Xylene	ND		1.0		ug/L			04/12/14 03:20	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
Styrene	ND		1.0		ug/L			04/12/14 03:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 03:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 03:20	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 03:20	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 03:20	1
Toluene	ND		1.0		ug/L			04/12/14 03:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 03:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:20	1
Trichloroethene	3.0		1.0		ug/L			04/12/14 03:20	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 03:20	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 03:20	1
Dibromomethane	ND		1.0		ug/L			04/12/14 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 03:20	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 03:20	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 03:20	1

Client Sample ID: MW-1019B-20140410-01

Lab Sample ID: 480-57719-11

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 03:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 03:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 03:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:44	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1019B-20140410-01

Lab Sample ID: 480-57719-11

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,4-Dioxane	ND		50		ug/L			04/12/14 03:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 03:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:44	1
2-Hexanone	ND		10		ug/L			04/12/14 03:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:44	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 03:44	1
Acetone	79		50		ug/L			04/12/14 03:44	1
Benzene	ND		1.0		ug/L			04/12/14 03:44	1
Bromobenzene	ND		1.0		ug/L			04/12/14 03:44	1
Bromoform	ND		1.0		ug/L			04/12/14 03:44	1
Bromomethane	ND		2.0		ug/L			04/12/14 03:44	1
Carbon disulfide	ND		10		ug/L			04/12/14 03:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 03:44	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 03:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 03:44	1
Chloroethane	ND		2.0		ug/L			04/12/14 03:44	1
Chloroform	ND		1.0		ug/L			04/12/14 03:44	1
Chloromethane	ND		2.0		ug/L			04/12/14 03:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 03:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 03:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 03:44	1
Ethyl ether	ND		1.0		ug/L			04/12/14 03:44	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 03:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 03:44	1
Isopropyl ether	ND		10		ug/L			04/12/14 03:44	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 03:44	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 03:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 03:44	1
Naphthalene	ND		5.0		ug/L			04/12/14 03:44	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
o-Xylene	ND		1.0		ug/L			04/12/14 03:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Styrene	ND		1.0		ug/L			04/12/14 03:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 03:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 03:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 03:44	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 03:44	1
Toluene	ND		1.0		ug/L			04/12/14 03:44	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1019B-20140410-01

Lab Sample ID: 480-57719-11

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 03:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:44	1
Trichloroethene	2.1		1.0		ug/L			04/12/14 03:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 03:44	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 03:44	1
Dibromomethane	ND		1.0		ug/L			04/12/14 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/12/14 03:44	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					04/12/14 03:44	1
4-Bromofluorobenzene (Surr)	95		70 - 130					04/12/14 03:44	1

Client Sample ID: MW-1032-20140410-01

Lab Sample ID: 480-57719-12

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 04:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 04:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 04:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 04:08	1
1,1-Dichloroethane	1.0		1.0		ug/L			04/12/14 04:08	1
1,1-Dichloroethene	1.9		1.0		ug/L			04/12/14 04:08	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 04:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 04:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 04:08	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,4-Dioxane	ND		50		ug/L			04/12/14 04:08	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 04:08	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:08	1
2-Hexanone	ND		10		ug/L			04/12/14 04:08	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:08	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 04:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 04:08	1
Acetone	ND		50		ug/L			04/12/14 04:08	1
Benzene	ND		1.0		ug/L			04/12/14 04:08	1
Bromobenzene	ND		1.0		ug/L			04/12/14 04:08	1
Bromoform	ND		1.0		ug/L			04/12/14 04:08	1
Bromomethane	ND		2.0		ug/L			04/12/14 04:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1032-20140410-01

Lab Sample ID: 480-57719-12

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/12/14 04:08	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 04:08	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 04:08	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 04:08	1
Chloroethane	ND		2.0		ug/L			04/12/14 04:08	1
Chloroform	ND		1.0		ug/L			04/12/14 04:08	1
Chloromethane	ND		2.0		ug/L			04/12/14 04:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:08	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 04:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 04:08	1
Ethyl ether	ND		1.0		ug/L			04/12/14 04:08	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 04:08	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 04:08	1
Isopropyl ether	ND		10		ug/L			04/12/14 04:08	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
Methyl tert-butyl ether	4.1		1.0		ug/L			04/12/14 04:08	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 04:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 04:08	1
Naphthalene	ND		5.0		ug/L			04/12/14 04:08	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
o-Xylene	ND		1.0		ug/L			04/12/14 04:08	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
Styrene	ND		1.0		ug/L			04/12/14 04:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 04:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 04:08	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 04:08	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 04:08	1
Toluene	ND		1.0		ug/L			04/12/14 04:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:08	1
Trichloroethene	11		1.0		ug/L			04/12/14 04:08	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 04:08	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 04:08	1
Dibromomethane	ND		1.0		ug/L			04/12/14 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 04:08	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 04:08	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 04:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1017D-20140410-01

Lab Sample ID: 480-57719-13

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 04:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 04:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 04:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 04:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,4-Dioxane	ND		50		ug/L			04/12/14 04:31	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 04:31	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:31	1
2-Hexanone	ND		10		ug/L			04/12/14 04:31	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 04:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 04:31	1
Acetone	78		50		ug/L			04/12/14 04:31	1
Benzene	ND		1.0		ug/L			04/12/14 04:31	1
Bromobenzene	ND		1.0		ug/L			04/12/14 04:31	1
Bromoform	ND		1.0		ug/L			04/12/14 04:31	1
Bromomethane	ND		2.0		ug/L			04/12/14 04:31	1
Carbon disulfide	ND		10		ug/L			04/12/14 04:31	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 04:31	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 04:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 04:31	1
Chloroethane	ND		2.0		ug/L			04/12/14 04:31	1
Chloroform	ND		1.0		ug/L			04/12/14 04:31	1
Chloromethane	ND		2.0		ug/L			04/12/14 04:31	1
cis-1,2-Dichloroethene	11		1.0		ug/L			04/12/14 04:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 04:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 04:31	1
Ethyl ether	ND		1.0		ug/L			04/12/14 04:31	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 04:31	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 04:31	1
Isopropyl ether	ND		10		ug/L			04/12/14 04:31	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1017D-20140410-01

Lab Sample ID: 480-57719-13

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 04:31	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 04:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 04:31	1
Naphthalene	ND		5.0		ug/L			04/12/14 04:31	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
o-Xylene	ND		1.0		ug/L			04/12/14 04:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
Styrene	ND		1.0		ug/L			04/12/14 04:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 04:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 04:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 04:31	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 04:31	1
Toluene	ND		1.0		ug/L			04/12/14 04:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:31	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:31	1
Trichloroethene	29		1.0		ug/L			04/12/14 04:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 04:31	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 04:31	1
Dibromomethane	ND		1.0		ug/L			04/12/14 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 04:31	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 04:31	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 04:31	1

Client Sample ID: MW-1018-20140410-01

Lab Sample ID: 480-57719-14

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 04:55	1
1,1,1-Trichloroethane	42		1.0		ug/L			04/12/14 04:55	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 04:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 04:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 04:55	1
1,1-Dichloroethene	3.7		1.0		ug/L			04/12/14 04:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 04:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 04:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 04:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:55	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1018-20140410-01

Lab Sample ID: 480-57719-14

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,4-Dioxane	ND		50		ug/L			04/12/14 04:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 04:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:55	1
2-Hexanone	ND		10		ug/L			04/12/14 04:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 04:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 04:55	1
Acetone	81		50		ug/L			04/12/14 04:55	1
Benzene	ND		1.0		ug/L			04/12/14 04:55	1
Bromobenzene	ND		1.0		ug/L			04/12/14 04:55	1
Bromoform	ND		1.0		ug/L			04/12/14 04:55	1
Bromomethane	ND		2.0		ug/L			04/12/14 04:55	1
Carbon disulfide	ND		10		ug/L			04/12/14 04:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 04:55	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 04:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 04:55	1
Chloroethane	ND		2.0		ug/L			04/12/14 04:55	1
Chloroform	ND		1.0		ug/L			04/12/14 04:55	1
Chloromethane	ND		2.0		ug/L			04/12/14 04:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 04:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 04:55	1
Ethyl ether	ND		1.0		ug/L			04/12/14 04:55	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 04:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 04:55	1
Isopropyl ether	ND		10		ug/L			04/12/14 04:55	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 04:55	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 04:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 04:55	1
Naphthalene	ND		5.0		ug/L			04/12/14 04:55	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
o-Xylene	ND		1.0		ug/L			04/12/14 04:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Styrene	ND		1.0		ug/L			04/12/14 04:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 04:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 04:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 04:55	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 04:55	1
Toluene	ND		1.0		ug/L			04/12/14 04:55	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1018-20140410-01

Lab Sample ID: 480-57719-14

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 04:55	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 04:55	1
Dibromomethane	ND		1.0		ug/L			04/12/14 04:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/12/14 04:55	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130					04/12/14 04:55	1
4-Bromofluorobenzene (Surr)	98		70 - 130					04/12/14 04:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	170		4.0		ug/L			04/14/14 00:58	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/14/14 00:58	4
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/14/14 00:58	4
4-Bromofluorobenzene (Surr)	97		70 - 130					04/14/14 00:58	4

Client Sample ID: MW-1031-20140410-01

Lab Sample ID: 480-57719-15

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 05:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 05:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 05:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 05:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,4-Dioxane	ND		50		ug/L			04/12/14 05:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 05:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:19	1
2-Hexanone	ND		10		ug/L			04/12/14 05:19	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1031-20140410-01

Lab Sample ID: 480-57719-15

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 05:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 05:19	1
Acetone	79		50		ug/L			04/12/14 05:19	1
Benzene	ND		1.0		ug/L			04/12/14 05:19	1
Bromobenzene	ND		1.0		ug/L			04/12/14 05:19	1
Bromoform	ND		1.0		ug/L			04/12/14 05:19	1
Bromomethane	ND		2.0		ug/L			04/12/14 05:19	1
Carbon disulfide	ND		10		ug/L			04/12/14 05:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 05:19	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 05:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 05:19	1
Chloroethane	ND		2.0		ug/L			04/12/14 05:19	1
Chloroform	ND		1.0		ug/L			04/12/14 05:19	1
Chloromethane	ND		2.0		ug/L			04/12/14 05:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 05:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 05:19	1
Ethyl ether	ND		1.0		ug/L			04/12/14 05:19	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 05:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 05:19	1
Isopropyl ether	ND		10		ug/L			04/12/14 05:19	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 05:19	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 05:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 05:19	1
Naphthalene	ND		5.0		ug/L			04/12/14 05:19	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
o-Xylene	ND		1.0		ug/L			04/12/14 05:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Styrene	ND		1.0		ug/L			04/12/14 05:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 05:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 05:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 05:19	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 05:19	1
Toluene	ND		1.0		ug/L			04/12/14 05:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:19	1
Trichloroethene	2.9		1.0		ug/L			04/12/14 05:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 05:19	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 05:19	1
Dibromomethane	ND		1.0		ug/L			04/12/14 05:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/12/14 05:19	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1031-20140410-01

Lab Sample ID: 480-57719-15

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/12/14 05:19	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/12/14 05:19	1

Client Sample ID: MW-1008-20140410-01

Lab Sample ID: 480-57719-16

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 05:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 05:43	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 05:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 05:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,4-Dioxane	ND		50		ug/L			04/12/14 05:43	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 05:43	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:43	1
2-Hexanone	ND		10		ug/L			04/12/14 05:43	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:43	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 05:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 05:43	1
Acetone	83		50		ug/L			04/12/14 05:43	1
Benzene	ND		1.0		ug/L			04/12/14 05:43	1
Bromobenzene	ND		1.0		ug/L			04/12/14 05:43	1
Bromoform	ND		1.0		ug/L			04/12/14 05:43	1
Bromomethane	ND		2.0		ug/L			04/12/14 05:43	1
Carbon disulfide	ND		10		ug/L			04/12/14 05:43	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 05:43	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 05:43	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 05:43	1
Chloroethane	ND		2.0		ug/L			04/12/14 05:43	1
Chloroform	ND		1.0		ug/L			04/12/14 05:43	1
Chloromethane	ND		2.0		ug/L			04/12/14 05:43	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1008-20140410-01

Lab Sample ID: 480-57719-16

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:43	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 05:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 05:43	1
Ethyl ether	ND		1.0		ug/L			04/12/14 05:43	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 05:43	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 05:43	1
Isopropyl ether	ND		10		ug/L			04/12/14 05:43	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 05:43	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 05:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 05:43	1
Naphthalene	ND		5.0		ug/L			04/12/14 05:43	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
o-Xylene	ND		1.0		ug/L			04/12/14 05:43	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Styrene	ND		1.0		ug/L			04/12/14 05:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 05:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 05:43	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 05:43	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 05:43	1
Toluene	ND		1.0		ug/L			04/12/14 05:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:43	1
Trichloroethene	3.1		1.0		ug/L			04/12/14 05:43	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 05:43	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 05:43	1
Dibromomethane	ND		1.0		ug/L			04/12/14 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 05:43	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 05:43	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 05:43	1

Client Sample ID: MW-1025D-20140410-01

Lab Sample ID: 480-57719-17

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 01:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 01:22	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 01:22	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1025D-20140410-01

Lab Sample ID: 480-57719-17

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 01:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,4-Dioxane	ND		50		ug/L			04/14/14 01:22	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 01:22	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:22	1
2-Hexanone	ND		10		ug/L			04/14/14 01:22	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:22	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 01:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 01:22	1
Acetone	ND		50		ug/L			04/14/14 01:22	1
Benzene	ND		1.0		ug/L			04/14/14 01:22	1
Bromobenzene	ND		1.0		ug/L			04/14/14 01:22	1
Bromoform	ND		1.0		ug/L			04/14/14 01:22	1
Bromomethane	ND		2.0		ug/L			04/14/14 01:22	1
Carbon disulfide	ND		10		ug/L			04/14/14 01:22	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 01:22	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 01:22	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 01:22	1
Chloroethane	ND		2.0		ug/L			04/14/14 01:22	1
Chloroform	ND		1.0		ug/L			04/14/14 01:22	1
Chloromethane	ND		2.0		ug/L			04/14/14 01:22	1
cis-1,2-Dichloroethene	25		1.0		ug/L			04/14/14 01:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:22	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 01:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 01:22	1
Ethyl ether	ND		1.0		ug/L			04/14/14 01:22	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 01:22	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 01:22	1
Isopropyl ether	ND		10		ug/L			04/14/14 01:22	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 01:22	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 01:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 01:22	1
Naphthalene	ND		5.0		ug/L			04/14/14 01:22	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 01:22	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1025D-20140410-01

Lab Sample ID: 480-57719-17

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 01:22	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Styrene	ND		1.0		ug/L			04/14/14 01:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 01:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 01:22	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 01:22	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 01:22	1
Toluene	ND		1.0		ug/L			04/14/14 01:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 01:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:22	1
Trichloroethene	ND		1.0		ug/L			04/14/14 01:22	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 01:22	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 01:22	1
Dibromomethane	ND		1.0		ug/L			04/14/14 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/14/14 01:22	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/14/14 01:22	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/14/14 01:22	1

Client Sample ID: MW-1011-20140410-01

Lab Sample ID: 480-57719-18

Date Collected: 04/10/14 14:10

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 06:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 06:30	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 06:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 06:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,4-Dioxane	ND		50		ug/L			04/12/14 06:30	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 06:30	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:30	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1011-20140410-01

Lab Sample ID: 480-57719-18

Date Collected: 04/10/14 14:10

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/12/14 06:30	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:30	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 06:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 06:30	1
Acetone	80		50		ug/L			04/12/14 06:30	1
Benzene	ND		1.0		ug/L			04/12/14 06:30	1
Bromobenzene	ND		1.0		ug/L			04/12/14 06:30	1
Bromoform	ND		1.0		ug/L			04/12/14 06:30	1
Bromomethane	ND		2.0		ug/L			04/12/14 06:30	1
Carbon disulfide	ND		10		ug/L			04/12/14 06:30	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 06:30	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 06:30	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 06:30	1
Chloroethane	ND		2.0		ug/L			04/12/14 06:30	1
Chloroform	ND		1.0		ug/L			04/12/14 06:30	1
Chloromethane	ND		2.0		ug/L			04/12/14 06:30	1
cis-1,2-Dichloroethene	12		1.0		ug/L			04/12/14 06:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:30	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 06:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 06:30	1
Ethyl ether	ND		1.0		ug/L			04/12/14 06:30	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 06:30	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 06:30	1
Isopropyl ether	ND		10		ug/L			04/12/14 06:30	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 06:30	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 06:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 06:30	1
Naphthalene	ND		5.0		ug/L			04/12/14 06:30	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
o-Xylene	ND		1.0		ug/L			04/12/14 06:30	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Styrene	ND		1.0		ug/L			04/12/14 06:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 06:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 06:30	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 06:30	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 06:30	1
Toluene	ND		1.0		ug/L			04/12/14 06:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 06:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:30	1
Trichloroethene	22		1.0		ug/L			04/12/14 06:30	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 06:30	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 06:30	1
Dibromomethane	ND		1.0		ug/L			04/12/14 06:30	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1011-20140410-01

Lab Sample ID: 480-57719-18

Date Collected: 04/10/14 14:10

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/12/14 06:30	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/12/14 06:30	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/12/14 06:30	1

Client Sample ID: MW-1024D-20140410-01

Lab Sample ID: 480-57719-19

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 06:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 06:54	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 06:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 06:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,4-Dioxane	ND		50		ug/L			04/12/14 06:54	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 06:54	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:54	1
2-Hexanone	ND		10		ug/L			04/12/14 06:54	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:54	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 06:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 06:54	1
Acetone	85		50		ug/L			04/12/14 06:54	1
Benzene	ND		1.0		ug/L			04/12/14 06:54	1
Bromobenzene	ND		1.0		ug/L			04/12/14 06:54	1
Bromoform	ND		1.0		ug/L			04/12/14 06:54	1
Bromomethane	ND		2.0		ug/L			04/12/14 06:54	1
Carbon disulfide	ND		10		ug/L			04/12/14 06:54	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 06:54	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 06:54	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 06:54	1
Chloroethane	ND		2.0		ug/L			04/12/14 06:54	1
Chloroform	ND		1.0		ug/L			04/12/14 06:54	1
Chloromethane	ND		2.0		ug/L			04/12/14 06:54	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1024D-20140410-01

Lab Sample ID: 480-57719-19

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	4.2		1.0		ug/L			04/12/14 06:54	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:54	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 06:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 06:54	1
Ethyl ether	ND		1.0		ug/L			04/12/14 06:54	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 06:54	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 06:54	1
Isopropyl ether	ND		10		ug/L			04/12/14 06:54	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 06:54	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 06:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 06:54	1
Naphthalene	ND		5.0		ug/L			04/12/14 06:54	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
o-Xylene	ND		1.0		ug/L			04/12/14 06:54	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Styrene	ND		1.0		ug/L			04/12/14 06:54	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 06:54	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 06:54	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 06:54	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 06:54	1
Toluene	ND		1.0		ug/L			04/12/14 06:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 06:54	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:54	1
Trichloroethene	14		1.0		ug/L			04/12/14 06:54	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 06:54	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 06:54	1
Dibromomethane	ND		1.0		ug/L			04/12/14 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 06:54	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/12/14 06:54	1
4-Bromofluorobenzene (Surr)	94		70 - 130		04/12/14 06:54	1

Client Sample ID: MW-1020-20140410-01

Lab Sample ID: 480-57719-20

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 01:46	1
1,1,1-Trichloroethane	1.6		1.0		ug/L			04/14/14 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 01:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 01:46	1
1,1-Dichloroethane	1.0		1.0		ug/L			04/14/14 01:46	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 01:46	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 01:46	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1020-20140410-01

Lab Sample ID: 480-57719-20

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 01:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 01:46	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,4-Dioxane	ND		50		ug/L			04/14/14 01:46	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 01:46	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:46	1
2-Hexanone	ND		10		ug/L			04/14/14 01:46	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:46	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 01:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 01:46	1
Acetone	81		50		ug/L			04/14/14 01:46	1
Benzene	ND		1.0		ug/L			04/14/14 01:46	1
Bromobenzene	ND		1.0		ug/L			04/14/14 01:46	1
Bromoform	ND		1.0		ug/L			04/14/14 01:46	1
Bromomethane	ND		2.0		ug/L			04/14/14 01:46	1
Carbon disulfide	ND		10		ug/L			04/14/14 01:46	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 01:46	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 01:46	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 01:46	1
Chloroethane	ND		2.0		ug/L			04/14/14 01:46	1
Chloroform	ND		1.0		ug/L			04/14/14 01:46	1
Chloromethane	ND		2.0		ug/L			04/14/14 01:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 01:46	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:46	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 01:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 01:46	1
Ethyl ether	ND		1.0		ug/L			04/14/14 01:46	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 01:46	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 01:46	1
Isopropyl ether	ND		10		ug/L			04/14/14 01:46	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 01:46	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 01:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 01:46	1
Naphthalene	ND		5.0		ug/L			04/14/14 01:46	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 01:46	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1020-20140410-01

Lab Sample ID: 480-57719-20

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 01:46	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Styrene	ND		1.0		ug/L			04/14/14 01:46	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 01:46	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 01:46	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 01:46	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 01:46	1
Toluene	ND		1.0		ug/L			04/14/14 01:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 01:46	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:46	1
Trichloroethene	21		1.0		ug/L			04/14/14 01:46	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 01:46	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 01:46	1
Dibromomethane	ND		1.0		ug/L			04/14/14 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/14/14 01:46	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					04/14/14 01:46	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/14/14 01:46	1

Client Sample ID: MW-1034-20140410-01

Lab Sample ID: 480-57719-21

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 02:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 02:09	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 02:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 02:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,4-Dioxane	ND		50		ug/L			04/14/14 02:09	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 02:09	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:09	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1034-20140410-01

Lab Sample ID: 480-57719-21

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/14/14 02:09	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:09	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 02:09	1
Acetone	81		50		ug/L			04/14/14 02:09	1
Benzene	ND		1.0		ug/L			04/14/14 02:09	1
Bromobenzene	ND		1.0		ug/L			04/14/14 02:09	1
Bromoform	ND		1.0		ug/L			04/14/14 02:09	1
Bromomethane	ND		2.0		ug/L			04/14/14 02:09	1
Carbon disulfide	ND		10		ug/L			04/14/14 02:09	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 02:09	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 02:09	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 02:09	1
Chloroethane	ND		2.0		ug/L			04/14/14 02:09	1
Chloroform	ND		1.0		ug/L			04/14/14 02:09	1
Chloromethane	ND		2.0		ug/L			04/14/14 02:09	1
cis-1,2-Dichloroethene	1.9		1.0		ug/L			04/14/14 02:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:09	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 02:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 02:09	1
Ethyl ether	ND		1.0		ug/L			04/14/14 02:09	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 02:09	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 02:09	1
Isopropyl ether	ND		10		ug/L			04/14/14 02:09	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 02:09	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 02:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 02:09	1
Naphthalene	ND		5.0		ug/L			04/14/14 02:09	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
o-Xylene	ND		1.0		ug/L			04/14/14 02:09	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Styrene	ND		1.0		ug/L			04/14/14 02:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 02:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 02:09	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 02:09	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 02:09	1
Toluene	ND		1.0		ug/L			04/14/14 02:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:09	1
Trichloroethene	5.0		1.0		ug/L			04/14/14 02:09	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 02:09	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 02:09	1
Dibromomethane	ND		1.0		ug/L			04/14/14 02:09	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1034-20140410-01

Lab Sample ID: 480-57719-21

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 02:09	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/14/14 02:09	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/14/14 02:09	1

Client Sample ID: DUP-004-20140410-01

Lab Sample ID: 480-57719-22

Date Collected: 04/10/14 13:13

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 02:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 02:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 02:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,4-Dioxane	ND		50		ug/L			04/14/14 02:33	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 02:33	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:33	1
2-Hexanone	ND		10		ug/L			04/14/14 02:33	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:33	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 02:33	1
Acetone	79		50		ug/L			04/14/14 02:33	1
Benzene	ND		1.0		ug/L			04/14/14 02:33	1
Bromobenzene	ND		1.0		ug/L			04/14/14 02:33	1
Bromoform	ND		1.0		ug/L			04/14/14 02:33	1
Bromomethane	ND		2.0		ug/L			04/14/14 02:33	1
Carbon disulfide	ND		10		ug/L			04/14/14 02:33	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 02:33	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 02:33	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 02:33	1
Chloroethane	ND		2.0		ug/L			04/14/14 02:33	1
Chloroform	ND		1.0		ug/L			04/14/14 02:33	1
Chloromethane	ND		2.0		ug/L			04/14/14 02:33	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-004-20140410-01

Lab Sample ID: 480-57719-22

Date Collected: 04/10/14 13:13

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:33	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 02:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 02:33	1
Ethyl ether	ND		1.0		ug/L			04/14/14 02:33	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 02:33	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 02:33	1
Isopropyl ether	ND		10		ug/L			04/14/14 02:33	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 02:33	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 02:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 02:33	1
Naphthalene	ND		5.0		ug/L			04/14/14 02:33	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
o-Xylene	ND		1.0		ug/L			04/14/14 02:33	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Styrene	ND		1.0		ug/L			04/14/14 02:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 02:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 02:33	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 02:33	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 02:33	1
Toluene	ND		1.0		ug/L			04/14/14 02:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:33	1
Trichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 02:33	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 02:33	1
Dibromomethane	ND		1.0		ug/L			04/14/14 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/14/14 02:33	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/14/14 02:33	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/14/14 02:33	1

Client Sample ID: MW-1010D-20140410-01

Lab Sample ID: 480-57719-23

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 02:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 02:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 02:57	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1010D-20140410-01

Lab Sample ID: 480-57719-23

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 02:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,4-Dioxane	ND		50		ug/L			04/14/14 02:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 02:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:57	1
2-Hexanone	ND		10		ug/L			04/14/14 02:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 02:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 02:57	1
Acetone	83		50		ug/L			04/14/14 02:57	1
Benzene	ND		1.0		ug/L			04/14/14 02:57	1
Bromobenzene	ND		1.0		ug/L			04/14/14 02:57	1
Bromoform	ND		1.0		ug/L			04/14/14 02:57	1
Bromomethane	ND		2.0		ug/L			04/14/14 02:57	1
Carbon disulfide	ND		10		ug/L			04/14/14 02:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 02:57	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 02:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 02:57	1
Chloroethane	ND		2.0		ug/L			04/14/14 02:57	1
Chloroform	ND		1.0		ug/L			04/14/14 02:57	1
Chloromethane	ND		2.0		ug/L			04/14/14 02:57	1
cis-1,2-Dichloroethene	1.3		1.0		ug/L			04/14/14 02:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 02:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 02:57	1
Ethyl ether	ND		1.0		ug/L			04/14/14 02:57	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 02:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 02:57	1
Isopropyl ether	ND		10		ug/L			04/14/14 02:57	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 02:57	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 02:57	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 02:57	1
Naphthalene	ND		5.0		ug/L			04/14/14 02:57	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 02:57	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1010D-20140410-01

Lab Sample ID: 480-57719-23

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 02:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Styrene	ND		1.0		ug/L			04/14/14 02:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 02:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 02:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 02:57	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 02:57	1
Toluene	ND		1.0		ug/L			04/14/14 02:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:57	1
Trichloroethene	5.3		1.0		ug/L			04/14/14 02:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 02:57	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 02:57	1
Dibromomethane	ND		1.0		ug/L			04/14/14 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/14/14 02:57	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/14/14 02:57	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/14/14 02:57	1

Client Sample ID: MW-1027-20140410-01

Lab Sample ID: 480-57719-24

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 03:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 03:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 03:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,4-Dioxane	ND		50		ug/L			04/14/14 03:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 03:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:21	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1027-20140410-01

Lab Sample ID: 480-57719-24

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/14/14 03:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 03:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 03:21	1
Acetone	ND		50		ug/L			04/14/14 03:21	1
Benzene	ND		1.0		ug/L			04/14/14 03:21	1
Bromobenzene	ND		1.0		ug/L			04/14/14 03:21	1
Bromoform	ND		1.0		ug/L			04/14/14 03:21	1
Bromomethane	ND		2.0		ug/L			04/14/14 03:21	1
Carbon disulfide	ND		10		ug/L			04/14/14 03:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 03:21	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 03:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 03:21	1
Chloroethane	ND		2.0		ug/L			04/14/14 03:21	1
Chloroform	ND		1.0		ug/L			04/14/14 03:21	1
Chloromethane	ND		2.0		ug/L			04/14/14 03:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 03:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 03:21	1
Ethyl ether	ND		1.0		ug/L			04/14/14 03:21	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 03:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 03:21	1
Isopropyl ether	ND		10		ug/L			04/14/14 03:21	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 03:21	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 03:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 03:21	1
Naphthalene	ND		5.0		ug/L			04/14/14 03:21	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
o-Xylene	ND		1.0		ug/L			04/14/14 03:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Styrene	ND		1.0		ug/L			04/14/14 03:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 03:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 03:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 03:21	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 03:21	1
Toluene	ND		1.0		ug/L			04/14/14 03:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:21	1
Trichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 03:21	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 03:21	1
Dibromomethane	ND		1.0		ug/L			04/14/14 03:21	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1027-20140410-01

Lab Sample ID: 480-57719-24

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/14/14 03:21	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/14/14 03:21	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/14/14 03:21	1

Client Sample ID: MW-1016D-20140410-01

Lab Sample ID: 480-57719-25

Date Collected: 04/10/14 09:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 03:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,1-Dichloroethene	1.5		1.0		ug/L			04/14/14 03:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 03:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 03:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,4-Dioxane	ND		50		ug/L			04/14/14 03:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 03:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:44	1
2-Hexanone	ND		10		ug/L			04/14/14 03:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:44	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 03:44	1
Acetone	80		50		ug/L			04/14/14 03:44	1
Benzene	ND		1.0		ug/L			04/14/14 03:44	1
Bromobenzene	ND		1.0		ug/L			04/14/14 03:44	1
Bromoform	ND		1.0		ug/L			04/14/14 03:44	1
Bromomethane	ND		2.0		ug/L			04/14/14 03:44	1
Carbon disulfide	ND		10		ug/L			04/14/14 03:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 03:44	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 03:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 03:44	1
Chloroethane	ND		2.0		ug/L			04/14/14 03:44	1
Chloroform	ND		1.0		ug/L			04/14/14 03:44	1
Chloromethane	ND		2.0		ug/L			04/14/14 03:44	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1016D-20140410-01

Lab Sample ID: 480-57719-25

Date Collected: 04/10/14 09:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	42		1.0		ug/L			04/14/14 03:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 03:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 03:44	1
Ethyl ether	ND		1.0		ug/L			04/14/14 03:44	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 03:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 03:44	1
Isopropyl ether	ND		10		ug/L			04/14/14 03:44	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 03:44	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 03:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 03:44	1
Naphthalene	ND		5.0		ug/L			04/14/14 03:44	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
o-Xylene	ND		1.0		ug/L			04/14/14 03:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Styrene	ND		1.0		ug/L			04/14/14 03:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 03:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 03:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 03:44	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 03:44	1
Toluene	ND		1.0		ug/L			04/14/14 03:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 03:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:44	1
Trichloroethene	1.1		1.0		ug/L			04/14/14 03:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 03:44	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 03:44	1
Dibromomethane	ND		1.0		ug/L			04/14/14 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 03:44	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/14/14 03:44	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/14/14 03:44	1

Client Sample ID: MW-1013-20140410-01

Lab Sample ID: 480-57719-26

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 04:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 04:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1013-20140410-01

Lab Sample ID: 480-57719-26

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 04:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,4-Dioxane	ND		50		ug/L			04/14/14 04:08	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 04:08	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:08	1
2-Hexanone	ND		10		ug/L			04/14/14 04:08	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:08	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 04:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 04:08	1
Acetone	87		50		ug/L			04/14/14 04:08	1
Benzene	ND		1.0		ug/L			04/14/14 04:08	1
Bromobenzene	ND		1.0		ug/L			04/14/14 04:08	1
Bromoform	ND		1.0		ug/L			04/14/14 04:08	1
Bromomethane	ND		2.0		ug/L			04/14/14 04:08	1
Carbon disulfide	ND		10		ug/L			04/14/14 04:08	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 04:08	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 04:08	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 04:08	1
Chloroethane	ND		2.0		ug/L			04/14/14 04:08	1
Chloroform	ND		1.0		ug/L			04/14/14 04:08	1
Chloromethane	ND		2.0		ug/L			04/14/14 04:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:08	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 04:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 04:08	1
Ethyl ether	ND		1.0		ug/L			04/14/14 04:08	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 04:08	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 04:08	1
Isopropyl ether	ND		10		ug/L			04/14/14 04:08	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 04:08	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 04:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 04:08	1
Naphthalene	ND		5.0		ug/L			04/14/14 04:08	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 04:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1013-20140410-01

Lab Sample ID: 480-57719-26

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 04:08	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Styrene	ND		1.0		ug/L			04/14/14 04:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 04:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 04:08	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 04:08	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 04:08	1
Toluene	ND		1.0		ug/L			04/14/14 04:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:08	1
Trichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 04:08	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 04:08	1
Dibromomethane	ND		1.0		ug/L			04/14/14 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/14/14 04:08	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/14/14 04:08	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/14/14 04:08	1

Client Sample ID: TB-001-20140410-01

Lab Sample ID: 480-57719-27

Date Collected: 04/10/14 00:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 04:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 04:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 04:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,4-Dioxane	ND		50		ug/L			04/14/14 04:32	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 04:32	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:32	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: TB-001-20140410-01

Lab Sample ID: 480-57719-27

Date Collected: 04/10/14 00:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/14/14 04:32	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:32	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 04:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 04:32	1
Acetone	ND		50		ug/L			04/14/14 04:32	1
Benzene	ND		1.0		ug/L			04/14/14 04:32	1
Bromobenzene	ND		1.0		ug/L			04/14/14 04:32	1
Bromoform	ND		1.0		ug/L			04/14/14 04:32	1
Bromomethane	ND		2.0		ug/L			04/14/14 04:32	1
Carbon disulfide	ND		10		ug/L			04/14/14 04:32	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 04:32	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 04:32	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 04:32	1
Chloroethane	ND		2.0		ug/L			04/14/14 04:32	1
Chloroform	ND		1.0		ug/L			04/14/14 04:32	1
Chloromethane	ND		2.0		ug/L			04/14/14 04:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:32	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 04:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 04:32	1
Ethyl ether	ND		1.0		ug/L			04/14/14 04:32	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 04:32	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 04:32	1
Isopropyl ether	ND		10		ug/L			04/14/14 04:32	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 04:32	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 04:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 04:32	1
Naphthalene	ND		5.0		ug/L			04/14/14 04:32	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
o-Xylene	ND		1.0		ug/L			04/14/14 04:32	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Styrene	ND		1.0		ug/L			04/14/14 04:32	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 04:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 04:32	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 04:32	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 04:32	1
Toluene	ND		1.0		ug/L			04/14/14 04:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:32	1
Trichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 04:32	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 04:32	1
Dibromomethane	ND		1.0		ug/L			04/14/14 04:32	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: TB-001-20140410-01

Lab Sample ID: 480-57719-27

Date Collected: 04/10/14 00:00

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/14/14 04:32	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/14/14 04:32	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/14/14 04:32	1

Client Sample ID: MW-1009-20140410-01

Lab Sample ID: 480-57719-28

Date Collected: 04/10/14 11:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 04:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 04:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 04:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,4-Dioxane	ND		50		ug/L			04/14/14 04:56	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 04:56	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:56	1
2-Hexanone	ND		10		ug/L			04/14/14 04:56	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:56	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 04:56	1
Acetone	83		50		ug/L			04/14/14 04:56	1
Benzene	ND		1.0		ug/L			04/14/14 04:56	1
Bromobenzene	ND		1.0		ug/L			04/14/14 04:56	1
Bromoform	ND		1.0		ug/L			04/14/14 04:56	1
Bromomethane	ND		2.0		ug/L			04/14/14 04:56	1
Carbon disulfide	ND		10		ug/L			04/14/14 04:56	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 04:56	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 04:56	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 04:56	1
Chloroethane	ND		2.0		ug/L			04/14/14 04:56	1
Chloroform	ND		1.0		ug/L			04/14/14 04:56	1
Chloromethane	ND		2.0		ug/L			04/14/14 04:56	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1009-20140410-01

Lab Sample ID: 480-57719-28

Date Collected: 04/10/14 11:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:56	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 04:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 04:56	1
Ethyl ether	ND		1.0		ug/L			04/14/14 04:56	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 04:56	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 04:56	1
Isopropyl ether	ND		10		ug/L			04/14/14 04:56	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 04:56	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 04:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 04:56	1
Naphthalene	ND		5.0		ug/L			04/14/14 04:56	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
o-Xylene	ND		1.0		ug/L			04/14/14 04:56	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Styrene	ND		1.0		ug/L			04/14/14 04:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 04:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 04:56	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 04:56	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 04:56	1
Toluene	ND		1.0		ug/L			04/14/14 04:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:56	1
Trichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
Trichlorofluoromethane	1.2		1.0		ug/L			04/14/14 04:56	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 04:56	1
Dibromomethane	ND		1.0		ug/L			04/14/14 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 04:56	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/14/14 04:56	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/14/14 04:56	1

Client Sample ID: MW-1006-20140410-01

Lab Sample ID: 480-57719-29

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 05:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 05:20	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1006-20140410-01

Lab Sample ID: 480-57719-29

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 05:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,4-Dioxane	ND		50		ug/L			04/14/14 05:20	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 05:20	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:20	1
2-Hexanone	ND		10		ug/L			04/14/14 05:20	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:20	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 05:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 05:20	1
Acetone	84		50		ug/L			04/14/14 05:20	1
Benzene	ND		1.0		ug/L			04/14/14 05:20	1
Bromobenzene	ND		1.0		ug/L			04/14/14 05:20	1
Bromoform	ND		1.0		ug/L			04/14/14 05:20	1
Bromomethane	ND		2.0		ug/L			04/14/14 05:20	1
Carbon disulfide	ND		10		ug/L			04/14/14 05:20	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 05:20	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 05:20	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 05:20	1
Chloroethane	ND		2.0		ug/L			04/14/14 05:20	1
Chloroform	ND		1.0		ug/L			04/14/14 05:20	1
Chloromethane	ND		2.0		ug/L			04/14/14 05:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:20	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 05:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 05:20	1
Ethyl ether	ND		1.0		ug/L			04/14/14 05:20	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 05:20	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 05:20	1
Isopropyl ether	ND		10		ug/L			04/14/14 05:20	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 05:20	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 05:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 05:20	1
Naphthalene	ND		5.0		ug/L			04/14/14 05:20	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 05:20	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1006-20140410-01

Lab Sample ID: 480-57719-29

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 05:20	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Styrene	ND		1.0		ug/L			04/14/14 05:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 05:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 05:20	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 05:20	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 05:20	1
Toluene	ND		1.0		ug/L			04/14/14 05:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:20	1
Trichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 05:20	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 05:20	1
Dibromomethane	ND		1.0		ug/L			04/14/14 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/14/14 05:20	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					04/14/14 05:20	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/14/14 05:20	1

Client Sample ID: MW-1005-20140410-01

Lab Sample ID: 480-57719-30

Date Collected: 04/10/14 11:50

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 05:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 05:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 05:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 05:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,4-Dioxane	ND		50		ug/L			04/14/14 05:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 05:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:44	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1005-20140410-01

Lab Sample ID: 480-57719-30

Date Collected: 04/10/14 11:50

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/14/14 05:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:44	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 05:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 05:44	1
Acetone	84		50		ug/L			04/14/14 05:44	1
Benzene	ND		1.0		ug/L			04/14/14 05:44	1
Bromobenzene	ND		1.0		ug/L			04/14/14 05:44	1
Bromoform	ND		1.0		ug/L			04/14/14 05:44	1
Bromomethane	ND		2.0		ug/L			04/14/14 05:44	1
Carbon disulfide	ND		10		ug/L			04/14/14 05:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 05:44	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 05:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 05:44	1
Chloroethane	ND		2.0		ug/L			04/14/14 05:44	1
Chloroform	ND		1.0		ug/L			04/14/14 05:44	1
Chloromethane	ND		2.0		ug/L			04/14/14 05:44	1
cis-1,2-Dichloroethene	3.6		1.0		ug/L			04/14/14 05:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 05:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 05:44	1
Ethyl ether	ND		1.0		ug/L			04/14/14 05:44	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 05:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 05:44	1
Isopropyl ether	ND		10		ug/L			04/14/14 05:44	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 05:44	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 05:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 05:44	1
Naphthalene	ND		5.0		ug/L			04/14/14 05:44	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
o-Xylene	ND		1.0		ug/L			04/14/14 05:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Styrene	ND		1.0		ug/L			04/14/14 05:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 05:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 05:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 05:44	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 05:44	1
Toluene	ND		1.0		ug/L			04/14/14 05:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 05:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:44	1
Trichloroethene	13		1.0		ug/L			04/14/14 05:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 05:44	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 05:44	1
Dibromomethane	ND		1.0		ug/L			04/14/14 05:44	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1005-20140410-01

Lab Sample ID: 480-57719-30

Date Collected: 04/10/14 11:50

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/14/14 05:44	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/14/14 05:44	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/14/14 05:44	1

Client Sample ID: MW-1004-20140410-01

Lab Sample ID: 480-57719-31

Date Collected: 04/10/14 12:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 06:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 06:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 06:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,4-Dioxane	ND		50		ug/L			04/14/14 06:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 06:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:07	1
2-Hexanone	ND		10		ug/L			04/14/14 06:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 06:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 06:07	1
Acetone	82		50		ug/L			04/14/14 06:07	1
Benzene	ND		1.0		ug/L			04/14/14 06:07	1
Bromobenzene	ND		1.0		ug/L			04/14/14 06:07	1
Bromoform	ND		1.0		ug/L			04/14/14 06:07	1
Bromomethane	ND		2.0		ug/L			04/14/14 06:07	1
Carbon disulfide	ND		10		ug/L			04/14/14 06:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 06:07	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 06:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 06:07	1
Chloroethane	ND		2.0		ug/L			04/14/14 06:07	1
Chloroform	ND		1.0		ug/L			04/14/14 06:07	1
Chloromethane	ND		2.0		ug/L			04/14/14 06:07	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1004-20140410-01

Lab Sample ID: 480-57719-31

Date Collected: 04/10/14 12:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 06:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 06:07	1
Ethyl ether	ND		1.0		ug/L			04/14/14 06:07	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 06:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 06:07	1
Isopropyl ether	ND		10		ug/L			04/14/14 06:07	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 06:07	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 06:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 06:07	1
Naphthalene	ND		5.0		ug/L			04/14/14 06:07	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
o-Xylene	ND		1.0		ug/L			04/14/14 06:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Styrene	ND		1.0		ug/L			04/14/14 06:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 06:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 06:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 06:07	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 06:07	1
Toluene	ND		1.0		ug/L			04/14/14 06:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:07	1
Trichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 06:07	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 06:07	1
Dibromomethane	ND		1.0		ug/L			04/14/14 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 06:07	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/14/14 06:07	1
4-Bromofluorobenzene (Surr)	94		70 - 130		04/14/14 06:07	1

Client Sample ID: DUP-001-20140410-01

Lab Sample ID: 480-57719-32

Date Collected: 04/10/14 11:11

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/14 00:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/14 00:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/14 00:55	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-001-20140410-01

Lab Sample ID: 480-57719-32

Date Collected: 04/10/14 11:11

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/14 00:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,4-Dioxane	ND		50		ug/L			04/15/14 00:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
2-Butanone (MEK)	ND		10		ug/L			04/15/14 00:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:55	1
2-Hexanone	ND		10		ug/L			04/15/14 00:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/14 00:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/14 00:55	1
Acetone	83		50		ug/L			04/15/14 00:55	1
Benzene	ND		1.0		ug/L			04/15/14 00:55	1
Bromobenzene	ND		1.0		ug/L			04/15/14 00:55	1
Bromoform	ND		1.0		ug/L			04/15/14 00:55	1
Bromomethane	ND		2.0		ug/L			04/15/14 00:55	1
Carbon disulfide	ND		10		ug/L			04/15/14 00:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/14 00:55	1
Chlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
Chlorobromomethane	ND		1.0		ug/L			04/15/14 00:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/14 00:55	1
Chloroethane	ND		2.0		ug/L			04/15/14 00:55	1
Chloroform	ND		1.0		ug/L			04/15/14 00:55	1
Chloromethane	ND		2.0		ug/L			04/15/14 00:55	1
cis-1,2-Dichloroethene	3.6		1.0		ug/L			04/15/14 00:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 00:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/14 00:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/14 00:55	1
Ethyl ether	ND		1.0		ug/L			04/15/14 00:55	1
Ethylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/14 00:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/14 00:55	1
Isopropyl ether	ND		10		ug/L			04/15/14 00:55	1
Isopropylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/14 00:55	1
Methylene Chloride	ND		1.0		ug/L			04/15/14 00:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/14 00:55	1
Naphthalene	ND		5.0		ug/L			04/15/14 00:55	1
n-Butylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
N-Propylbenzene	ND		1.0		ug/L			04/15/14 00:55	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-001-20140410-01

Lab Sample ID: 480-57719-32

Date Collected: 04/10/14 11:11

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/15/14 00:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Styrene	ND		1.0		ug/L			04/15/14 00:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/14 00:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/14 00:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Tetrachloroethene	ND		1.0		ug/L			04/15/14 00:55	1
Tetrahydrofuran	ND		10		ug/L			04/15/14 00:55	1
Toluene	ND		1.0		ug/L			04/15/14 00:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 00:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 00:55	1
Trichloroethene	12		1.0		ug/L			04/15/14 00:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/14 00:55	1
Vinyl chloride	ND		1.0		ug/L			04/15/14 00:55	1
Dibromomethane	ND		1.0		ug/L			04/15/14 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/15/14 00:55	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/15/14 00:55	1
4-Bromofluorobenzene (Surr)	99		70 - 130					04/15/14 00:55	1

Client Sample ID: MW-1002B-20140410-01

Lab Sample ID: 480-57719-33

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 06:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 06:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 06:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,4-Dioxane	ND		50		ug/L			04/14/14 06:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 06:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:55	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1002B-20140410-01

Lab Sample ID: 480-57719-33

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/14/14 06:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 06:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 06:55	1
Acetone	87		50		ug/L			04/14/14 06:55	1
Benzene	ND		1.0		ug/L			04/14/14 06:55	1
Bromobenzene	ND		1.0		ug/L			04/14/14 06:55	1
Bromoform	ND		1.0		ug/L			04/14/14 06:55	1
Bromomethane	ND		2.0		ug/L			04/14/14 06:55	1
Carbon disulfide	ND		10		ug/L			04/14/14 06:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 06:55	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 06:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 06:55	1
Chloroethane	ND		2.0		ug/L			04/14/14 06:55	1
Chloroform	ND		1.0		ug/L			04/14/14 06:55	1
Chloromethane	ND		2.0		ug/L			04/14/14 06:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 06:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 06:55	1
Ethyl ether	ND		1.0		ug/L			04/14/14 06:55	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 06:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 06:55	1
Isopropyl ether	ND		10		ug/L			04/14/14 06:55	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 06:55	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 06:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 06:55	1
Naphthalene	ND		5.0		ug/L			04/14/14 06:55	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
o-Xylene	ND		1.0		ug/L			04/14/14 06:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Styrene	ND		1.0		ug/L			04/14/14 06:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 06:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 06:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 06:55	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 06:55	1
Toluene	ND		1.0		ug/L			04/14/14 06:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:55	1
Trichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 06:55	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 06:55	1
Dibromomethane	ND		1.0		ug/L			04/14/14 06:55	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1002B-20140410-01

Lab Sample ID: 480-57719-33

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/14/14 06:55	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/14/14 06:55	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/14/14 06:55	1

Client Sample ID: MW-1003-20140410-01

Lab Sample ID: 480-57719-34

Date Collected: 04/10/14 13:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/14 01:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/14 01:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/14 01:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/14 01:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,4-Dioxane	ND		50		ug/L			04/15/14 01:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
2-Butanone (MEK)	ND		10		ug/L			04/15/14 01:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/14 01:19	1
2-Hexanone	ND		10		ug/L			04/15/14 01:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/14 01:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/14 01:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/14 01:19	1
Acetone	80		50		ug/L			04/15/14 01:19	1
Benzene	ND		1.0		ug/L			04/15/14 01:19	1
Bromobenzene	ND		1.0		ug/L			04/15/14 01:19	1
Bromoform	ND		1.0		ug/L			04/15/14 01:19	1
Bromomethane	ND		2.0		ug/L			04/15/14 01:19	1
Carbon disulfide	ND		10		ug/L			04/15/14 01:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/14 01:19	1
Chlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
Chlorobromomethane	ND		1.0		ug/L			04/15/14 01:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/14 01:19	1
Chloroethane	ND		2.0		ug/L			04/15/14 01:19	1
Chloroform	ND		1.0		ug/L			04/15/14 01:19	1
Chloromethane	ND		2.0		ug/L			04/15/14 01:19	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1003-20140410-01

Lab Sample ID: 480-57719-34

Date Collected: 04/10/14 13:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3.3		1.0		ug/L			04/15/14 01:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 01:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/14 01:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/14 01:19	1
Ethyl ether	ND		1.0		ug/L			04/15/14 01:19	1
Ethylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/14 01:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/14 01:19	1
Isopropyl ether	ND		10		ug/L			04/15/14 01:19	1
Isopropylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/14 01:19	1
Methylene Chloride	ND		1.0		ug/L			04/15/14 01:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/14 01:19	1
Naphthalene	ND		5.0		ug/L			04/15/14 01:19	1
n-Butylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
N-Propylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
o-Xylene	ND		1.0		ug/L			04/15/14 01:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Styrene	ND		1.0		ug/L			04/15/14 01:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/14 01:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/14 01:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Tetrachloroethene	ND		1.0		ug/L			04/15/14 01:19	1
Tetrahydrofuran	ND		10		ug/L			04/15/14 01:19	1
Toluene	ND		1.0		ug/L			04/15/14 01:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 01:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 01:19	1
Trichloroethene	5.2		1.0		ug/L			04/15/14 01:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/14 01:19	1
Vinyl chloride	ND		1.0		ug/L			04/15/14 01:19	1
Dibromomethane	ND		1.0		ug/L			04/15/14 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/15/14 01:19	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/15/14 01:19	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/15/14 01:19	1

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-57719-1	MW-1030-20140410-01	99	103	97
480-57719-2	MW-1028-20140410-01	100	105	96
480-57719-3	MW-1025M-20140410-01	97	101	95
480-57719-4	DUP-003-20140410-01	100	103	95
480-57719-5	MW-1015D-20140410-01	101	103	98
480-57719-6	MW-1033-20140410-01	99	103	93
480-57719-7	DUP-002-20140410-01	100	102	96
480-57719-8	MW-1023-20140410-01	100	102	96
480-57719-9	MW-1010M-20140410-01	98	100	99
480-57719-10	MW-1022-20140410-01	99	103	96
480-57719-11	MW-1019B-20140410-01	98	102	95
480-57719-12	MW-1032-20140410-01	100	103	96
480-57719-13	MW-1017D-20140410-01	100	103	96
480-57719-14	MW-1018-20140410-01	99	105	98
480-57719-14 - DL	MW-1018-20140410-01	98	107	97
480-57719-15	MW-1031-20140410-01	99	104	97
480-57719-16	MW-1008-20140410-01	100	103	96
480-57719-17	MW-1025D-20140410-01	101	107	96
480-57719-18	MW-1011-20140410-01	98	104	97
480-57719-19	MW-1024D-20140410-01	99	104	94
480-57719-20	MW-1020-20140410-01	96	104	97
480-57719-21	MW-1034-20140410-01	98	107	96
480-57719-22	DUP-004-20140410-01	100	105	95
480-57719-23	MW-1010D-20140410-01	97	107	96
480-57719-24	MW-1027-20140410-01	99	107	97
480-57719-25	MW-1016D-20140410-01	98	108	95
480-57719-26	MW-1013-20140410-01	100	107	96
480-57719-27	TB-001-20140410-01	97	108	99
480-57719-28	MW-1009-20140410-01	98	107	96
480-57719-29	MW-1006-20140410-01	98	111	97
480-57719-30	MW-1005-20140410-01	101	108	99
480-57719-31	MW-1004-20140410-01	98	110	94
480-57719-32	DUP-001-20140410-01	100	103	99
480-57719-33	MW-1002B-20140410-01	100	111	95
480-57719-34	MW-1003-20140410-01	98	104	99
LCS 480-175358/5	Lab Control Sample	98	101	99
LCS 480-175485/6	Lab Control Sample	98	105	99
LCS 480-175755/4	Lab Control Sample	99	101	103
LCSD 480-175358/6	Lab Control Sample Dup	99	101	98
LCSD 480-175485/7	Lab Control Sample Dup	96	106	96
LCSD 480-175755/5	Lab Control Sample Dup	98	105	100
MB 480-175358/8	Method Blank	101	102	99
MB 480-175485/9	Method Blank	99	105	96
MB 480-175755/7	Method Blank	99	104	97

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175358/8

Matrix: Water

Analysis Batch: 175358

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			04/11/14 23:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 23:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 23:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 23:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 23:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 23:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 23:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:23	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 23:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:23	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 23:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:23	1
1,4-Dioxane	ND		50		ug/L			04/11/14 23:23	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 23:23	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 23:23	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:23	1
2-Hexanone	ND		10		ug/L			04/11/14 23:23	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:23	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 23:23	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 23:23	1
Acetone	ND		50		ug/L			04/11/14 23:23	1
Benzene	ND		1.0		ug/L			04/11/14 23:23	1
Bromobenzene	ND		1.0		ug/L			04/11/14 23:23	1
Bromoform	ND		1.0		ug/L			04/11/14 23:23	1
Bromomethane	ND		2.0		ug/L			04/11/14 23:23	1
Carbon disulfide	ND		10		ug/L			04/11/14 23:23	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 23:23	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 23:23	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 23:23	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 23:23	1
Chloroethane	ND		2.0		ug/L			04/11/14 23:23	1
Chloroform	ND		1.0		ug/L			04/11/14 23:23	1
Chloromethane	ND		2.0		ug/L			04/11/14 23:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 23:23	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 23:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 23:23	1
Ethyl ether	ND		1.0		ug/L			04/11/14 23:23	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 23:23	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 23:23	1

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175358/8

Matrix: Water

Analysis Batch: 175358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/11/14 23:23	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 23:23	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 23:23	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 23:23	1
Naphthalene	ND		5.0		ug/L			04/11/14 23:23	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
o-Xylene	ND		1.0		ug/L			04/11/14 23:23	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
Styrene	ND		1.0		ug/L			04/11/14 23:23	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 23:23	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 23:23	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 23:23	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 23:23	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 23:23	1
Toluene	ND		1.0		ug/L			04/11/14 23:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 23:23	1
Trichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 23:23	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 23:23	1
Dibromomethane	ND		1.0		ug/L			04/11/14 23:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	101		70 - 130		04/11/14 23:23	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/11/14 23:23	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 23:23	1

Lab Sample ID: LCS 480-175358/5

Matrix: Water

Analysis Batch: 175358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,1-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	25.4		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	25.3		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175358/5

Matrix: Water

Analysis Batch: 175358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.9		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dioxane	500	431		ug/L		86	70 - 130
2,2-Dichloropropane	25.0	21.5		ug/L		86	70 - 130
2-Butanone (MEK)	125	132		ug/L		105	70 - 130
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130
2-Hexanone	125	126		ug/L		101	70 - 130
4-Chlorotoluene	25.0	22.1		ug/L		88	70 - 130
4-Isopropyltoluene	25.0	24.2		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	70 - 130
Acetone	125	124		ug/L		99	70 - 130
Benzene	25.0	24.1		ug/L		97	70 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Bromoform	25.0	20.6		ug/L		82	70 - 130
Bromomethane	25.0	29.6		ug/L		118	70 - 130
Carbon disulfide	25.0	20.3		ug/L		81	70 - 130
Carbon tetrachloride	25.0	23.1		ug/L		92	70 - 130
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130
Chlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Chlorodibromomethane	24.5	23.6		ug/L		96	70 - 130
Chloroethane	25.0	28.4		ug/L		114	70 - 130
Chloroform	25.0	24.1		ug/L		96	70 - 130
Chloromethane	25.0	23.7		ug/L		95	70 - 130
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	70 - 130
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
Dichlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	24.7		ug/L		99	70 - 130
Ethyl ether	25.0	25.7		ug/L		103	70 - 130
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130
Ethylene Dibromide	25.0	24.1		ug/L		96	70 - 130
Hexachlorobutadiene	25.0	23.7		ug/L		95	70 - 130
Isopropyl ether	25.0	25.4		ug/L		102	70 - 130
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	24.1		ug/L		96	70 - 130
Methylene Chloride	25.0	23.6		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	23.6		ug/L		95	70 - 130
Naphthalene	25.0	26.1		ug/L		104	70 - 130
n-Butylbenzene	25.0	24.9		ug/L		99	70 - 130
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130
o-Xylene	25.0	23.6		ug/L		94	70 - 130
sec-Butylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	24.4		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	25.0		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	25.0		ug/L		100	70 - 130
tert-Butylbenzene	25.0	24.1		ug/L		96	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175358/5

Matrix: Water

Analysis Batch: 175358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130
Tetrahydrofuran	50.0	64.8		ug/L		130	70 - 130
Toluene	25.0	23.9		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	22.9		ug/L		91	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	23.9		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	26.3		ug/L		105	70 - 130
Vinyl chloride	25.0	24.1		ug/L		96	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-175358/6

Matrix: Water

Analysis Batch: 175358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.6		ug/L		99	70 - 130	3	20
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		99	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	70 - 130	3	20
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	0	20
1,1-Dichloroethene	25.0	23.0		ug/L		92	70 - 130	3	20
1,1-Dichloropropene	25.0	23.3		ug/L		93	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	26.1		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane	25.0	24.4		ug/L		97	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	70 - 130	5	20
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
1,2-Dichloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		93	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	3	20
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	2	20
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
1,4-Dioxane	500	450		ug/L		90	70 - 130	4	20
2,2-Dichloropropane	25.0	20.5		ug/L		82	70 - 130	5	20
2-Butanone (MEK)	125	129		ug/L		103	70 - 130	2	20
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	1	20
2-Hexanone	125	125		ug/L		100	70 - 130	1	20
4-Chlorotoluene	25.0	21.5		ug/L		86	70 - 130	3	20
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	70 - 130	0	20
Acetone	125	122		ug/L		98	70 - 130	1	20

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCSD 480-175358/6

Matrix: Water

Analysis Batch: 175358

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Benzene	25.0	23.8		ug/L		95	70 - 130	1	20	
Bromobenzene	25.0	24.2		ug/L		97	70 - 130	2	20	
Bromoform	25.0	20.6		ug/L		82	70 - 130	0	20	
Bromomethane	25.0	29.6		ug/L		119	70 - 130	0	20	
Carbon disulfide	25.0	20.6		ug/L		82	70 - 130	1	20	
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 130	1	20	
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130	1	20	
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130	3	20	
Chlorodibromomethane	24.5	23.7		ug/L		97	70 - 130	1	20	
Chloroethane	25.0	28.2		ug/L		113	70 - 130	1	20	
Chloroform	25.0	23.7		ug/L		95	70 - 130	2	20	
Chloromethane	25.0	23.4		ug/L		93	70 - 130	1	20	
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	2	20	
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130	1	20	
Dichlorodifluoromethane	25.0	22.9		ug/L		92	70 - 130	7	20	
Ethyl ether	25.0	25.5		ug/L		102	70 - 130	1	20	
Ethylbenzene	25.0	23.8		ug/L		95	70 - 130	1	20	
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130	2	20	
Hexachlorobutadiene	25.0	23.6		ug/L		94	70 - 130	0	20	
Isopropyl ether	25.0	25.7		ug/L		103	70 - 130	1	20	
Isopropylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20	
Methyl tert-butyl ether	25.0	24.1		ug/L		96	70 - 130	0	20	
Methylene Chloride	25.0	23.8		ug/L		95	70 - 130	1	20	
m-Xylene & p-Xylene	25.0	23.4		ug/L		94	70 - 130	1	20	
Naphthalene	25.0	25.8		ug/L		103	70 - 130	1	20	
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130	3	20	
N-Propylbenzene	25.0	23.1		ug/L		92	70 - 130	2	20	
o-Xylene	25.0	23.9		ug/L		96	70 - 130	1	20	
sec-Butylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20	
Styrene	25.0	24.1		ug/L		96	70 - 130	1	20	
Tert-amyl methyl ether	25.0	25.3		ug/L		101	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	25.1		ug/L		100	70 - 130	0	20	
tert-Butylbenzene	25.0	22.8		ug/L		91	70 - 130	6	20	
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130	3	20	
Tetrahydrofuran	50.0	65.1		ug/L		130	70 - 130	0	20	
Toluene	25.0	23.6		ug/L		95	70 - 130	1	20	
trans-1,2-Dichloroethene	25.0	22.1		ug/L		88	70 - 130	3	20	
trans-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130	2	20	
Trichloroethene	25.0	23.1		ug/L		92	70 - 130	4	20	
Trichlorofluoromethane	25.0	26.3		ug/L		105	70 - 130	0	20	
Vinyl chloride	25.0	23.2		ug/L		93	70 - 130	4	20	
Dibromomethane	25.0	25.0		ug/L		100	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

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			04/13/14 22:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/13/14 22:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/13/14 22:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dioxane	ND		50		ug/L			04/13/14 22:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
2-Butanone (MEK)	ND		10		ug/L			04/13/14 22:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
2-Hexanone	ND		10		ug/L			04/13/14 22:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/13/14 22:07	1
Acetone	ND		50		ug/L			04/13/14 22:07	1
Benzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromoform	ND		1.0		ug/L			04/13/14 22:07	1
Bromomethane	ND		2.0		ug/L			04/13/14 22:07	1
Carbon disulfide	ND		10		ug/L			04/13/14 22:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobromomethane	ND		1.0		ug/L			04/13/14 22:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Chloroethane	ND		2.0		ug/L			04/13/14 22:07	1
Chloroform	ND		1.0		ug/L			04/13/14 22:07	1
Chloromethane	ND		2.0		ug/L			04/13/14 22:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Ethyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Ethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/13/14 22:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/13/14 22:07	1

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/13/14 22:07	1
Isopropylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Methylene Chloride	ND		1.0		ug/L			04/13/14 22:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/13/14 22:07	1
Naphthalene	ND		5.0		ug/L			04/13/14 22:07	1
n-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
N-Propylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
o-Xylene	ND		1.0		ug/L			04/13/14 22:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Styrene	ND		1.0		ug/L			04/13/14 22:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/13/14 22:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/13/14 22:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrachloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrahydrofuran	ND		10		ug/L			04/13/14 22:07	1
Toluene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Trichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Vinyl chloride	ND		1.0		ug/L			04/13/14 22:07	1
Dibromomethane	ND		1.0		ug/L			04/13/14 22:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		70 - 130		04/13/14 22:07	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/13/14 22:07	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/13/14 22:07	1

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130
1,4-Dioxane	500	452		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	142		ug/L		113	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130
Acetone	125	125		ug/L		100	70 - 130
Benzene	25.0	24.9		ug/L		100	70 - 130
Bromobenzene	25.0	24.3		ug/L		97	70 - 130
Bromoform	25.0	21.2		ug/L		85	70 - 130
Bromomethane	25.0	29.6		ug/L		118	70 - 130
Carbon disulfide	25.0	21.1		ug/L		84	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	24.9		ug/L		99	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	24.5	24.5		ug/L		100	70 - 130
Chloroethane	25.0	28.9		ug/L		116	70 - 130
Chloroform	25.0	25.1		ug/L		100	70 - 130
Chloromethane	25.0	24.2		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130
Ethyl ether	25.0	25.0		ug/L		100	70 - 130
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	25.5		ug/L		102	70 - 130
Isopropyl ether	25.0	26.3		ug/L		105	70 - 130
Isopropylbenzene	25.0	24.1		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	23.7		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 130
Naphthalene	25.0	25.8		ug/L		103	70 - 130
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	24.1		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	24.9		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		101	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130
Tetrahydrofuran	50.0	65.3	*	ug/L		131	70 - 130
Toluene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	24.0		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	27.1		ug/L		108	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.1		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130	1	20
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 130	2	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	4	20
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,4-Dioxane	500	463		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	2	20
2-Butanone (MEK)	125	135		ug/L		108	70 - 130	4	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
2-Hexanone	125	123		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	21.2		ug/L		85	70 - 130	4	20
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	70 - 130	2	20
Acetone	125	126		ug/L		101	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Benzene	25.0	24.7		ug/L		99	70 - 130	1	20	
Bromobenzene	25.0	23.6		ug/L		95	70 - 130	3	20	
Bromoform	25.0	21.4		ug/L		86	70 - 130	1	20	
Bromomethane	25.0	30.4		ug/L		122	70 - 130	3	20	
Carbon disulfide	25.0	20.4		ug/L		82	70 - 130	3	20	
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 130	2	20	
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130	5	20	
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	2	20	
Chlorodibromomethane	24.5	24.0		ug/L		98	70 - 130	2	20	
Chloroethane	25.0	28.7		ug/L		115	70 - 130	1	20	
Chloroform	25.0	25.0		ug/L		100	70 - 130	0	20	
Chloromethane	25.0	24.6		ug/L		98	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	0	20	
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	0	20	
Dichlorodifluoromethane	25.0	23.1		ug/L		92	70 - 130	2	20	
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	0	20	
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20	
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	2	20	
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130	5	20	
Isopropyl ether	25.0	26.0		ug/L		104	70 - 130	1	20	
Isopropylbenzene	25.0	23.1		ug/L		93	70 - 130	4	20	
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130	1	20	
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130	1	20	
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 130	3	20	
Naphthalene	25.0	25.0		ug/L		100	70 - 130	3	20	
n-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	6	20	
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130	4	20	
o-Xylene	25.0	23.7		ug/L		95	70 - 130	2	20	
sec-Butylbenzene	25.0	23.5		ug/L		94	70 - 130	5	20	
Styrene	25.0	24.1		ug/L		96	70 - 130	3	20	
Tert-amyl methyl ether	25.0	25.9		ug/L		103	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	26.0		ug/L		104	70 - 130	2	20	
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130	3	20	
Tetrachloroethene	25.0	24.5		ug/L		98	70 - 130	6	20	
Tetrahydrofuran	50.0	66.1 *		ug/L		132	70 - 130	1	20	
Toluene	25.0	23.3		ug/L		93	70 - 130	4	20	
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	1	20	
trans-1,3-Dichloropropene	25.0	23.9		ug/L		95	70 - 130	1	20	
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20	
Trichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	3	20	
Vinyl chloride	25.0	23.2		ug/L		93	70 - 130	3	20	
Dibromomethane	25.0	25.6		ug/L		103	70 - 130	2	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175755/7

Matrix: Water

Analysis Batch: 175755

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			04/15/14 00:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/14 00:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/14 00:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/14 00:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/14 00:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/14 00:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/14 00:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,4-Dioxane	ND		50		ug/L			04/15/14 00:13	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/14 00:13	1
2-Butanone (MEK)	ND		10		ug/L			04/15/14 00:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:13	1
2-Hexanone	ND		10		ug/L			04/15/14 00:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/14 00:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/14 00:13	1
Acetone	ND		50		ug/L			04/15/14 00:13	1
Benzene	ND		1.0		ug/L			04/15/14 00:13	1
Bromobenzene	ND		1.0		ug/L			04/15/14 00:13	1
Bromoform	ND		1.0		ug/L			04/15/14 00:13	1
Bromomethane	ND		2.0		ug/L			04/15/14 00:13	1
Carbon disulfide	ND		10		ug/L			04/15/14 00:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/14 00:13	1
Chlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
Chlorobromomethane	ND		1.0		ug/L			04/15/14 00:13	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/14 00:13	1
Chloroethane	ND		2.0		ug/L			04/15/14 00:13	1
Chloroform	ND		1.0		ug/L			04/15/14 00:13	1
Chloromethane	ND		2.0		ug/L			04/15/14 00:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 00:13	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/14 00:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/14 00:13	1
Ethyl ether	ND		1.0		ug/L			04/15/14 00:13	1
Ethylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/14 00:13	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/14 00:13	1

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175755/7

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/15/14 00:13	1
Isopropylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/14 00:13	1
Methylene Chloride	ND		1.0		ug/L			04/15/14 00:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/14 00:13	1
Naphthalene	ND		5.0		ug/L			04/15/14 00:13	1
n-Butylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
N-Propylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
o-Xylene	ND		1.0		ug/L			04/15/14 00:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
Styrene	ND		1.0		ug/L			04/15/14 00:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/14 00:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/14 00:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
Tetrachloroethene	ND		1.0		ug/L			04/15/14 00:13	1
Tetrahydrofuran	ND		10		ug/L			04/15/14 00:13	1
Toluene	ND		1.0		ug/L			04/15/14 00:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 00:13	1
Trichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/14 00:13	1
Vinyl chloride	ND		1.0		ug/L			04/15/14 00:13	1
Dibromomethane	ND		1.0		ug/L			04/15/14 00:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		70 - 130		04/15/14 00:13	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/15/14 00:13	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/15/14 00:13	1

Lab Sample ID: LCS 480-175755/4

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	23.4		ug/L		94	70 - 130
1,1,1-Trichloroethane	25.0	22.9		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		93	70 - 130
1,1-Dichloroethane	25.0	22.9		ug/L		92	70 - 130
1,1-Dichloroethane	25.0	21.3		ug/L		85	70 - 130
1,1-Dichloropropene	25.0	22.9		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,3-Trichloropropane	25.0	23.9		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.8		ug/L		87	70 - 130
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	24.5		ug/L		98	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175755/4

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,4-Dioxane	500	408		ug/L		82	70 - 130
2,2-Dichloropropane	25.0	21.9		ug/L		88	70 - 130
2-Butanone (MEK)	125	120		ug/L		96	70 - 130
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130
2-Hexanone	125	124		ug/L		99	70 - 130
4-Chlorotoluene	25.0	21.4		ug/L		86	70 - 130
4-Isopropyltoluene	25.0	24.4		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	70 - 130
Acetone	125	112		ug/L		90	70 - 130
Benzene	25.0	23.0		ug/L		92	70 - 130
Bromobenzene	25.0	23.6		ug/L		94	70 - 130
Bromoform	25.0	19.2		ug/L		77	70 - 130
Bromomethane	25.0	25.0		ug/L		100	70 - 130
Carbon disulfide	25.0	17.8		ug/L		71	70 - 130
Carbon tetrachloride	25.0	22.5		ug/L		90	70 - 130
Chlorobenzene	25.0	23.4		ug/L		94	70 - 130
Chlorobromomethane	25.0	23.8		ug/L		95	70 - 130
Chlorodibromomethane	24.5	22.1		ug/L		90	70 - 130
Chloroethane	25.0	24.3		ug/L		97	70 - 130
Chloroform	25.0	23.1		ug/L		93	70 - 130
Chloromethane	25.0	21.5		ug/L		86	70 - 130
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	70 - 130
cis-1,3-Dichloropropene	25.0	23.2		ug/L		93	70 - 130
Dichlorobromomethane	25.0	23.4		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	18.7		ug/L		75	70 - 130
Ethyl ether	25.0	23.5		ug/L		94	70 - 130
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130
Ethylene Dibromide	25.0	23.4		ug/L		94	70 - 130
Hexachlorobutadiene	25.0	25.7		ug/L		103	70 - 130
Isopropyl ether	25.0	24.5		ug/L		98	70 - 130
Isopropylbenzene	25.0	23.0		ug/L		92	70 - 130
Methyl tert-butyl ether	25.0	22.0		ug/L		88	70 - 130
Methylene Chloride	25.0	21.8		ug/L		87	70 - 130
m-Xylene & p-Xylene	25.0	24.1		ug/L		96	70 - 130
Naphthalene	25.0	24.8		ug/L		99	70 - 130
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
N-Propylbenzene	25.0	23.7		ug/L		95	70 - 130
o-Xylene	25.0	23.3		ug/L		93	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
Styrene	25.0	24.2		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	23.4		ug/L		93	70 - 130
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175755/4

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	23.9		ug/L		95	70 - 130
Tetrahydrofuran	50.0	60.8		ug/L		122	70 - 130
Toluene	25.0	23.1		ug/L		92	70 - 130
trans-1,2-Dichloroethene	25.0	22.1		ug/L		89	70 - 130
trans-1,3-Dichloropropene	25.0	22.5		ug/L		90	70 - 130
Trichloroethene	25.0	22.6		ug/L		91	70 - 130
Trichlorofluoromethane	25.0	23.3		ug/L		93	70 - 130
Vinyl chloride	25.0	20.9		ug/L		84	70 - 130
Dibromomethane	25.0	23.9		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-175755/5

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	70 - 130	2	20
1,1,1-Trichloroethane	25.0	23.0		ug/L		92	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130	2	20
1,1-Dichloroethane	25.0	22.9		ug/L		92	70 - 130	0	20
1,1-Dichloroethene	25.0	21.2		ug/L		85	70 - 130	1	20
1,1-Dichloropropene	25.0	23.1		ug/L		92	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	22.1		ug/L		89	70 - 130	1	20
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	0	20
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	22.7		ug/L		91	70 - 130	3	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	1	20
1,3-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	2	20
1,4-Dioxane	500	420		ug/L		84	70 - 130	3	20
2,2-Dichloropropane	25.0	21.9		ug/L		88	70 - 130	0	20
2-Butanone (MEK)	125	129		ug/L		103	70 - 130	8	20
2-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130	3	20
2-Hexanone	125	121		ug/L		96	70 - 130	3	20
4-Chlorotoluene	25.0	20.7		ug/L		83	70 - 130	3	20
4-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	70 - 130	2	20
Acetone	125	118		ug/L		94	70 - 130	5	20

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCSD 480-175755/5

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Benzene	25.0	22.9		ug/L		92	70 - 130	0	20	
Bromobenzene	25.0	23.6		ug/L		94	70 - 130	0	20	
Bromoform	25.0	19.3		ug/L		77	70 - 130	1	20	
Bromomethane	25.0	26.6		ug/L		106	70 - 130	6	20	
Carbon disulfide	25.0	17.8		ug/L		71	70 - 130	0	20	
Carbon tetrachloride	25.0	22.5		ug/L		90	70 - 130	0	20	
Chlorobenzene	25.0	22.9		ug/L		92	70 - 130	2	20	
Chlorobromomethane	25.0	23.4		ug/L		93	70 - 130	2	20	
Chlorodibromomethane	24.5	22.0		ug/L		90	70 - 130	0	20	
Chloroethane	25.0	25.4		ug/L		102	70 - 130	5	20	
Chloroform	25.0	23.3		ug/L		93	70 - 130	1	20	
Chloromethane	25.0	22.0		ug/L		88	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 130	1	20	
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	1	20	
Dichlorobromomethane	25.0	23.3		ug/L		93	70 - 130	1	20	
Dichlorodifluoromethane	25.0	18.8		ug/L		75	70 - 130	0	20	
Ethyl ether	25.0	23.6		ug/L		94	70 - 130	0	20	
Ethylbenzene	25.0	22.5		ug/L		90	70 - 130	5	20	
Ethylene Dibromide	25.0	23.0		ug/L		92	70 - 130	2	20	
Hexachlorobutadiene	25.0	24.7		ug/L		99	70 - 130	4	20	
Isopropyl ether	25.0	24.6		ug/L		98	70 - 130	1	20	
Isopropylbenzene	25.0	22.3		ug/L		89	70 - 130	3	20	
Methyl tert-butyl ether	25.0	22.6		ug/L		90	70 - 130	3	20	
Methylene Chloride	25.0	22.2		ug/L		89	70 - 130	2	20	
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	70 - 130	8	20	
Naphthalene	25.0	24.5		ug/L		98	70 - 130	1	20	
n-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	3	20	
N-Propylbenzene	25.0	22.6		ug/L		90	70 - 130	5	20	
o-Xylene	25.0	22.5		ug/L		90	70 - 130	3	20	
sec-Butylbenzene	25.0	23.0		ug/L		92	70 - 130	2	20	
Styrene	25.0	22.9		ug/L		92	70 - 130	5	20	
Tert-amyl methyl ether	25.0	24.4		ug/L		98	70 - 130	4	20	
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130	2	20	
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130	3	20	
Tetrachloroethene	25.0	23.1		ug/L		93	70 - 130	3	20	
Tetrahydrofuran	50.0	63.5		ug/L		127	70 - 130	4	20	
Toluene	25.0	22.3		ug/L		89	70 - 130	4	20	
trans-1,2-Dichloroethene	25.0	21.7		ug/L		87	70 - 130	2	20	
trans-1,3-Dichloropropene	25.0	22.1		ug/L		88	70 - 130	2	20	
Trichloroethene	25.0	22.0		ug/L		88	70 - 130	3	20	
Trichlorofluoromethane	25.0	23.1		ug/L		92	70 - 130	1	20	
Vinyl chloride	25.0	20.6		ug/L		82	70 - 130	1	20	
Dibromomethane	25.0	24.0		ug/L		96	70 - 130	0	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

GC/MS VOA

Analysis Batch: 175358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57719-1	MW-1030-20140410-01	Total/NA	Water	8260C	
480-57719-2	MW-1028-20140410-01	Total/NA	Water	8260C	
480-57719-3	MW-1025M-20140410-01	Total/NA	Water	8260C	
480-57719-4	DUP-003-20140410-01	Total/NA	Water	8260C	
480-57719-5	MW-1015D-20140410-01	Total/NA	Water	8260C	
480-57719-6	MW-1033-20140410-01	Total/NA	Water	8260C	
480-57719-7	DUP-002-20140410-01	Total/NA	Water	8260C	
480-57719-8	MW-1023-20140410-01	Total/NA	Water	8260C	
480-57719-9	MW-1010M-20140410-01	Total/NA	Water	8260C	
480-57719-10	MW-1022-20140410-01	Total/NA	Water	8260C	
480-57719-11	MW-1019B-20140410-01	Total/NA	Water	8260C	
480-57719-12	MW-1032-20140410-01	Total/NA	Water	8260C	
480-57719-13	MW-1017D-20140410-01	Total/NA	Water	8260C	
480-57719-14	MW-1018-20140410-01	Total/NA	Water	8260C	
480-57719-15	MW-1031-20140410-01	Total/NA	Water	8260C	
480-57719-16	MW-1008-20140410-01	Total/NA	Water	8260C	
480-57719-18	MW-1011-20140410-01	Total/NA	Water	8260C	
480-57719-19	MW-1024D-20140410-01	Total/NA	Water	8260C	
LCS 480-175358/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175358/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175358/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 175485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57719-14 - DL	MW-1018-20140410-01	Total/NA	Water	8260C	
480-57719-17	MW-1025D-20140410-01	Total/NA	Water	8260C	
480-57719-20	MW-1020-20140410-01	Total/NA	Water	8260C	
480-57719-21	MW-1034-20140410-01	Total/NA	Water	8260C	
480-57719-22	DUP-004-20140410-01	Total/NA	Water	8260C	
480-57719-23	MW-1010D-20140410-01	Total/NA	Water	8260C	
480-57719-24	MW-1027-20140410-01	Total/NA	Water	8260C	
480-57719-25	MW-1016D-20140410-01	Total/NA	Water	8260C	
480-57719-26	MW-1013-20140410-01	Total/NA	Water	8260C	
480-57719-27	TB-001-20140410-01	Total/NA	Water	8260C	
480-57719-28	MW-1009-20140410-01	Total/NA	Water	8260C	
480-57719-29	MW-1006-20140410-01	Total/NA	Water	8260C	
480-57719-30	MW-1005-20140410-01	Total/NA	Water	8260C	
480-57719-31	MW-1004-20140410-01	Total/NA	Water	8260C	
480-57719-33	MW-1002B-20140410-01	Total/NA	Water	8260C	
LCS 480-175485/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175485/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175485/9	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 175755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57719-32	DUP-001-20140410-01	Total/NA	Water	8260C	
480-57719-34	MW-1003-20140410-01	Total/NA	Water	8260C	
LCS 480-175755/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175755/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175755/7	Method Blank	Total/NA	Water	8260C	

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1030-20140410-01

Lab Sample ID: 480-57719-1

Date Collected: 04/10/14 10:11

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/11/14 23:46	RAL	TAL BUF

Client Sample ID: MW-1028-20140410-01

Lab Sample ID: 480-57719-2

Date Collected: 04/10/14 09:25

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 00:10	RAL	TAL BUF

Client Sample ID: MW-1025M-20140410-01

Lab Sample ID: 480-57719-3

Date Collected: 04/10/14 08:55

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	175358	04/12/14 00:34	RAL	TAL BUF

Client Sample ID: DUP-003-20140410-01

Lab Sample ID: 480-57719-4

Date Collected: 04/10/14 03:33

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 00:58	RAL	TAL BUF

Client Sample ID: MW-1015D-20140410-01

Lab Sample ID: 480-57719-5

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 01:21	RAL	TAL BUF

Client Sample ID: MW-1033-20140410-01

Lab Sample ID: 480-57719-6

Date Collected: 04/10/14 08:58

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 01:45	RAL	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: DUP-002-20140410-01

Lab Sample ID: 480-57719-7

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 02:09	RAL	TAL BUF

Client Sample ID: MW-1023-20140410-01

Lab Sample ID: 480-57719-8

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 02:33	RAL	TAL BUF

Client Sample ID: MW-1010M-20140410-01

Lab Sample ID: 480-57719-9

Date Collected: 04/10/14 10:25

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 02:56	RAL	TAL BUF

Client Sample ID: MW-1022-20140410-01

Lab Sample ID: 480-57719-10

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 03:20	RAL	TAL BUF

Client Sample ID: MW-1019B-20140410-01

Lab Sample ID: 480-57719-11

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 03:44	RAL	TAL BUF

Client Sample ID: MW-1032-20140410-01

Lab Sample ID: 480-57719-12

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 04:08	RAL	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1017D-20140410-01

Lab Sample ID: 480-57719-13

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 04:31	RAL	TAL BUF

Client Sample ID: MW-1018-20140410-01

Lab Sample ID: 480-57719-14

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 04:55	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	4	175485	04/14/14 00:58	LCH	TAL BUF

Client Sample ID: MW-1031-20140410-01

Lab Sample ID: 480-57719-15

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 05:19	RAL	TAL BUF

Client Sample ID: MW-1008-20140410-01

Lab Sample ID: 480-57719-16

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 05:43	RAL	TAL BUF

Client Sample ID: MW-1025D-20140410-01

Lab Sample ID: 480-57719-17

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 01:22	LCH	TAL BUF

Client Sample ID: MW-1011-20140410-01

Lab Sample ID: 480-57719-18

Date Collected: 04/10/14 14:10

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 06:30	RAL	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1024D-20140410-01

Lab Sample ID: 480-57719-19

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 06:54	RAL	TAL BUF

Client Sample ID: MW-1020-20140410-01

Lab Sample ID: 480-57719-20

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 01:46	LCH	TAL BUF

Client Sample ID: MW-1034-20140410-01

Lab Sample ID: 480-57719-21

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 02:09	LCH	TAL BUF

Client Sample ID: DUP-004-20140410-01

Lab Sample ID: 480-57719-22

Date Collected: 04/10/14 13:13

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 02:33	LCH	TAL BUF

Client Sample ID: MW-1010D-20140410-01

Lab Sample ID: 480-57719-23

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 02:57	LCH	TAL BUF

Client Sample ID: MW-1027-20140410-01

Lab Sample ID: 480-57719-24

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 03:21	LCH	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1016D-20140410-01

Lab Sample ID: 480-57719-25

Date Collected: 04/10/14 09:15

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 03:44	LCH	TAL BUF

Client Sample ID: MW-1013-20140410-01

Lab Sample ID: 480-57719-26

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 04:08	LCH	TAL BUF

Client Sample ID: TB-001-20140410-01

Lab Sample ID: 480-57719-27

Date Collected: 04/10/14 00:00

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 04:32	LCH	TAL BUF

Client Sample ID: MW-1009-20140410-01

Lab Sample ID: 480-57719-28

Date Collected: 04/10/14 11:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 04:56	LCH	TAL BUF

Client Sample ID: MW-1006-20140410-01

Lab Sample ID: 480-57719-29

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 05:20	LCH	TAL BUF

Client Sample ID: MW-1005-20140410-01

Lab Sample ID: 480-57719-30

Date Collected: 04/10/14 11:50

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 05:44	LCH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Client Sample ID: MW-1004-20140410-01

Lab Sample ID: 480-57719-31

Date Collected: 04/10/14 12:00

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 06:07	LCH	TAL BUF

Client Sample ID: DUP-001-20140410-01

Lab Sample ID: 480-57719-32

Date Collected: 04/10/14 11:11

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175755	04/15/14 00:55	LCH	TAL BUF

Client Sample ID: MW-1002B-20140410-01

Lab Sample ID: 480-57719-33

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 06:55	LCH	TAL BUF

Client Sample ID: MW-1003-20140410-01

Lab Sample ID: 480-57719-34

Date Collected: 04/10/14 13:15

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175755	04/15/14 01:19	LCH	TAL BUF

Laboratory References:

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

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

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



Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57719-1	MW-1030-20140410-01	Water	04/10/14 10:11	04/11/14 01:45
480-57719-2	MW-1028-20140410-01	Water	04/10/14 09:25	04/11/14 01:45
480-57719-3	MW-1025M-20140410-01	Water	04/10/14 08:55	04/11/14 01:45
480-57719-4	DUP-003-20140410-01	Water	04/10/14 03:33	04/11/14 01:45
480-57719-5	MW-1015D-20140410-01	Water	04/10/14 08:20	04/11/14 01:45
480-57719-6	MW-1033-20140410-01	Water	04/10/14 08:58	04/11/14 01:45
480-57719-7	DUP-002-20140410-01	Water	04/10/14 10:10	04/11/14 01:45
480-57719-8	MW-1023-20140410-01	Water	04/10/14 13:30	04/11/14 01:45
480-57719-9	MW-1010M-20140410-01	Water	04/10/14 10:25	04/11/14 01:45
480-57719-10	MW-1022-20140410-01	Water	04/10/14 12:35	04/11/14 01:45
480-57719-11	MW-1019B-20140410-01	Water	04/10/14 10:10	04/11/14 01:45
480-57719-12	MW-1032-20140410-01	Water	04/10/14 11:45	04/11/14 01:45
480-57719-13	MW-1017D-20140410-01	Water	04/10/14 09:35	04/11/14 01:45
480-57719-14	MW-1018-20140410-01	Water	04/10/14 13:30	04/11/14 01:45
480-57719-15	MW-1031-20140410-01	Water	04/10/14 10:45	04/11/14 01:45
480-57719-16	MW-1008-20140410-01	Water	04/10/14 10:45	04/11/14 01:45
480-57719-17	MW-1025D-20140410-01	Water	04/10/14 09:20	04/11/14 01:45
480-57719-18	MW-1011-20140410-01	Water	04/10/14 14:10	04/11/14 01:45
480-57719-19	MW-1024D-20140410-01	Water	04/10/14 08:30	04/11/14 01:45
480-57719-20	MW-1020-20140410-01	Water	04/10/14 10:45	04/11/14 01:45
480-57719-21	MW-1034-20140410-01	Water	04/10/14 08:30	04/11/14 01:45
480-57719-22	DUP-004-20140410-01	Water	04/10/14 13:13	04/11/14 01:45
480-57719-23	MW-1010D-20140410-01	Water	04/10/14 10:00	04/11/14 01:45
480-57719-24	MW-1027-20140410-01	Water	04/10/14 09:35	04/11/14 01:45
480-57719-25	MW-1016D-20140410-01	Water	04/10/14 09:15	04/11/14 01:45
480-57719-26	MW-1013-20140410-01	Water	04/10/14 08:45	04/11/14 01:45
480-57719-27	TB-001-20140410-01	Water	04/10/14 00:00	04/11/14 01:45
480-57719-28	MW-1009-20140410-01	Water	04/10/14 11:30	04/11/14 01:45
480-57719-29	MW-1006-20140410-01	Water	04/10/14 11:15	04/11/14 01:45
480-57719-30	MW-1005-20140410-01	Water	04/10/14 11:50	04/11/14 01:45
480-57719-31	MW-1004-20140410-01	Water	04/10/14 12:00	04/11/14 01:45
480-57719-32	DUP-001-20140410-01	Water	04/10/14 11:11	04/11/14 01:45
480-57719-33	MW-1002B-20140410-01	Water	04/10/14 12:30	04/11/14 01:45
480-57719-34	MW-1003-20140410-01	Water	04/10/14 13:15	04/11/14 01:45

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-57719-1

Login Number: 57719

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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



Chain of Custody



480-57719 Chain of Custody

Client Information
 Client Contact: Stacey Bragg
 Mr. Ethan Gyles Joshua Klement
 Company: ERM-Northeast
 Address: One Beacon Street 5th Floor
 City: Boston
 State, Zip: MA, 02108
 Phone: 1-617-646-7800
 Email: ethan.gyles@erm.com Joshua.Klement@erm.com
 Project Name: IDS Wayland
 Project #: 48007117
 SSOW#: _____

COC No: 480-47206-10762.5
 Page: Page 5 of 7 Page 1
 Job #:

Due Date Requested:
 TAT Requested (days): Normal TAT
 PO #: _____
 Purchase Order not required
 WO #: _____
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other: _____
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (Water, Seawater, Other)	Field Filtered Sample (Yes or No)	Performance (MS/MSD) Yes or No	Total Number of Containers	Special Instructions/Note:
MW-1030-20140410-01	4/10/14	10:11	C		Water	NN	3		
MW-1028-20140410-01	4/10/14	9:25	C		Water	NN	3		
MW-1025M-20140410-01	4/10/14	8:55	C		Water	NW	3		
POP-003-20140410-01	4/10/14	3:33	C		Water	NN	3		
MW-1015D-20140410-01	4/10/14	8:20	C		Water	NN	3		
MW-1033-20140410-01	4/10/14	8:58	C		Water	NW	3		
POP-002-20140410-01	4/10/14	10:10	C		Water	NN	2		Only 2 vials collected
MW-1023-20140410-01	4/10/14	13:30	C		Water	NN	3		
MW-1010M-20140410-01	4/10/14	10:25	C		Water	NN	3		
MW-1022-20140410-01	4/10/14	12:35	C		Water	NN	3		
MW-1019B-20140410-01	4/10/14	10:10	C		Water	NN	3		

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: [Signature] Date/Time: 4/10/14 15:43 Company: ERM
 Relinquished by: [Signature] Date/Time: 4/10/14 16:00 Company: TAC
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: 2977



Chain of Custody Record

Client Information		Sampler: <u>Stacey Braga</u>		Lab P#: <u>Mason, Becky C</u>		Carrier Tracking No(s):		COC No: <u>480-47206-10762.2</u>	
Client Contact: <u>Miriam</u>		Phone: <u>978-875-2426</u>		E-Mail: <u>becky.mason@testamericainc.com</u>		Page: <u>Page 2 of 7</u>		Page <u>2</u>	
Company: <u>ERM-Northeast</u>		Address: <u>One Beacon Street, 5th Floor</u>		City: <u>Boston</u>		State, Zip: <u>MA, 02108</u>		Job #:	
Phone: <u>1-617-646-7800</u>		PO #: <u></u>		Purchase Order not required		TAT Requested (days): <u>Normal TAT</u>		Analysis Requested	
Email: <u>erhac@erm.com</u>		WO #: <u></u>		Project #: <u>48007117</u>		SSOW #: <u></u>		Project Name: <u>IDS Wayland</u>	
Site: <u>Wayland, MA</u>		Project Name: <u>Joshua Clement @erm.com</u>		Site: <u>Wayland, MA</u>		Project #: <u>48007117</u>		SSOW #: <u></u>	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, I=Int-Tissue, A=Air)	
MW-1032-20140410-01		4/10/14		11:45		C		Water	
MW-1017D-20140410-01		4/10/14		9:35		C		Water	
MW-1018-20140410-01		4/10/14		13:30		C		Water	
MW-1031-20140410-01		4/10/14		10:45		C		Water	
MW-1008-20140410-01		4/10/14		10:48		C		Water	
MW-1025D-20140410-01		4/10/14		9:30		C		Water	
MW-1011-20140410-01		4/10/14		14:10		C		Water	
MW-1024D-20140410-01		4/10/14		8:30		C		Water	
MW-1020-20140410-01		4/10/14		10:45		C		Water	
MW-1034-20140410-01		4/10/14		8:30		C		Water	
DUP-004-20140410-01		4/10/14		13:13		C		Water	
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B	
<input type="checkbox"/> Radiological		<input type="checkbox"/> Unknown		<input type="checkbox"/> Unknown		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Time:		Method of Shipment:		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by: <u>MRC</u>		Date: <u>4/16/14</u>		Time: <u>15:40</u>		Company: <u>ERM</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date: <u>4/16/14</u>		Time: <u>16:00</u>		Company: <u>TAL</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date: <u>4/16/14</u>		Time: <u>16:00</u>		Company: <u>TAL</u>		Received by: <u>[Signature]</u>	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>Z-2 #1</u>		Company: <u>TAL</u>		Received by: <u>[Signature]</u>	



Chain of Custody Record

Client Information Client Contact: <u>Stacey Bragg</u> Mr. Ethan Gyles <u>Joshua Vincent</u> Company: <u>ERM-Northeast</u>		Lab PM: <u>Mason, Becky C</u> E-Mail: <u>becky.mason@testamericainc.com</u>		Carrier Tracking No(s): COC No: <u>480-47206-10762.7</u>	
Address: <u>One Beacon Street 5th Floor</u> City: <u>Boston</u> State, Zip: <u>MA, 02108</u> Phone: <u>1-617-646-7800</u>		Due Date Requested: TAT Requested (days): <u>Normal TAT</u>		Page: <u>Page 1 of 3</u> Job #: <u>Page 3</u>	
Email: <u>ethan.gyles@erm.com</u> Project Name: <u>Joshua.Klement@erm.com</u> Project #: <u>48007117</u> SSOW#:		PO #: <u>Purchase Order not required</u> WO #:		Total Number of Containers:	
Site: <u>Wayland, MA</u>		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other: M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification MW-1010DZ140410-01 MW-1027-20140410-01 MW-1016D-20140410-01 MW-1013-20140410-01 TB-001-20140410-01 MW-1009-20140410-01 MW-1006-20140410-01 MW-1005-20140410-01 MW-1004-20140410-01 DUP-001-20140410-01 MW-1002B-20140410-01		Sample Date 4/10/14 4/10/14 4/10/14 4/10/14 4/10/14 4/10/14 4/10/14 4/10/14 4/10/14 4/10/14 4/10/14		Sample Time 10:00 9:35 9:15 8:45 - 11:30 11:15 11:50 12:00 11:11 12:30	
Matrix (Water, Solid, Other) Water Water Water Water Water Water Water Water Water Water		Sample Type (C=Comp, G=grab) C C C C C C C C C C		Field Filtered Sample (Yes or No) N N N N N N N N N N N	
Performance/MSD (Yes or No) A A A A A A A A A A A		Preservation Code C C C C C C C C C C C		Special Instructions/Note: Trip Blank	
Possible Hazard Identification <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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Date/Time: 4/10/14 15:40 4/10/14 16:00		Date/Time: 4/10/14 15:40 4/10/14 01:45	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.: <u>2-9 #1</u>		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record

Client Information Client Contact: <u>Mr. Ethan Gyles</u> Phone: <u>978-875-0424</u> Company: <u>Justin's Movement</u>		Lab PI: <u>Mason, Becky C</u> E-Mail: <u>becky.mason@testamericainc.com</u>		Camer Tracking No(s): COC No: <u>480-47206-10762.6</u> Page: <u>Page 07 - Page 4</u> Job #:	
Address: <u>One Beacon Street 5th Floor</u> City: <u>Boston</u> State, Zip: <u>MA, 02108</u> Phone: <u>1-617-646-7800</u> Email: <u>ethan.gyles@erm.com</u>		Due Date Requested: TAT Requested (days): <u>Normal TAT</u> PO #: <u>Purchase Order not required</u> IWO #:		Analysis Requested Preservation Codes: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Other:	
Project Name: <u>Justin's Movement @ sm.com</u> Project #: <u>48007117</u> SSONW#:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A Field Filled Sample (Yes or No) <input checked="" type="checkbox"/> A Matrix (Water, Solid, Organic/Oil, Other)		Total Number of Containers Special Instructions/Note:	
Site: <u>Wayland, MA</u>		Sample Identification <u>MW-1003-20140410-01</u>		Matrix (Water, Solid, Organic/Oil, Other) Sample Type (C=Comp, G=grab) Sample Date: <u>4/10/14 13:15</u> Sample Time: <u>C</u> Preservation Code:	
Possible Hazard Identification <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)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/10/14 15:40</u>		Company: <u>TAL</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/10/14 0145</u>		Company: <u>TAL</u>	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.9 #1</u>	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-57720-1
Client Project/Site: IDS Wayland

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

Attn: Lyndsey Colburn



Authorized for release by:
4/18/2014 11:04:00 AM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com
Designee for
Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	7
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	23
Lab Chronicle	24
Certification Summary	25
Method Summary	26
Sample Summary	27
Receipt Checklists	28
Chain of Custody	29

Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

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

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Job ID: 480-57720-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-57720-1

Receipt

The samples were received on 4/11/2014 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method(s) 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for Carbon disulfide, Isopropyl ether, Naphthalene, tert-Butyl ethyl ether, tert-Amyl methyl Ether, & Tetrahydrofuran.

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 175163 exceeded control limits for the following analyte: 2-Hexanone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 175485 exceeded control limits for the following analyte: Tetrahydrofuran. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

No other analytical or quality issues were noted.



MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-57720-1**

Project Location: **IDS Wayland** RTN: _____

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-57720-1(1-3)

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

CAM Protocols (check all that apply below):

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

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

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

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

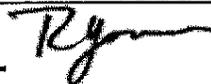
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

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

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

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

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

Signature: _____  _____ Position: Project Management Assistant

Printed Name: Rebecca Jones Date: 4/18/14 10:40

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Client Sample ID: MW-217S-20140410-01

Lab Sample ID: 480-57720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	70		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-217M-20140410-01

Lab Sample ID: 480-57720-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.6		1.0		ug/L	1		8260C	Total/NA
1,2-Dichlorobenzene	1.8		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	10		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	5.6		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.9		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-217D-20140410-01

Lab Sample ID: 480-57720-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Client Sample ID: MW-217S-20140410-01

Lab Sample ID: 480-57720-1

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 18:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 18:49	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 18:49	1
1,1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 18:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 18:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 18:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 18:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 18:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 18:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 18:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 18:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 18:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 18:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 18:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 18:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 18:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 18:49	1
1,4-Dioxane	ND		50		ug/L			04/11/14 18:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 18:49	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 18:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 18:49	1
2-Hexanone	ND	*	10		ug/L			04/11/14 18:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 18:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 18:49	1
Acetone	70		50		ug/L			04/11/14 18:49	1
Benzene	ND		1.0		ug/L			04/11/14 18:49	1
Bromobenzene	ND		1.0		ug/L			04/11/14 18:49	1
Bromoform	ND		1.0		ug/L			04/11/14 18:49	1
Bromomethane	ND		2.0		ug/L			04/11/14 18:49	1
Carbon disulfide	ND		10		ug/L			04/11/14 18:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 18:49	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 18:49	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 18:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 18:49	1
Chloroethane	ND		2.0		ug/L			04/11/14 18:49	1
Chloroform	ND		1.0		ug/L			04/11/14 18:49	1
Chloromethane	ND		2.0		ug/L			04/11/14 18:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 18:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 18:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 18:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 18:49	1
Ethyl ether	ND		1.0		ug/L			04/11/14 18:49	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 18:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 18:49	1
Isopropyl ether	ND		10		ug/L			04/11/14 18:49	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Client Sample ID: MW-217S-20140410-01

Lab Sample ID: 480-57720-1

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 18:49	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 18:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 18:49	1
Naphthalene	ND		5.0		ug/L			04/11/14 18:49	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
o-Xylene	ND		1.0		ug/L			04/11/14 18:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
Styrene	ND		1.0		ug/L			04/11/14 18:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 18:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 18:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 18:49	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 18:49	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 18:49	1
Toluene	ND		1.0		ug/L			04/11/14 18:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 18:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 18:49	1
Trichloroethene	ND		1.0		ug/L			04/11/14 18:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 18:49	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 18:49	1
Dibromomethane	ND		1.0		ug/L			04/11/14 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 18:49	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/11/14 18:49	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/11/14 18:49	1

Client Sample ID: MW-217M-20140410-01

Lab Sample ID: 480-57720-2

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/14/14 00:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 00:34	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 00:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 00:34	1
1,1-Dichloroethane	2.6		1.0		ug/L			04/14/14 00:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 00:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 00:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 00:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 00:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 00:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 00:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 00:34	1
1,2-Dichlorobenzene	1.8		1.0		ug/L			04/14/14 00:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 00:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 00:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 00:34	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Client Sample ID: MW-217M-20140410-01

Lab Sample ID: 480-57720-2

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 00:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 00:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 00:34	1
1,4-Dioxane	ND		50		ug/L			04/14/14 00:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 00:34	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 00:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 00:34	1
2-Hexanone	ND		10		ug/L			04/14/14 00:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 00:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 00:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 00:34	1
Acetone	ND		50		ug/L			04/14/14 00:34	1
Benzene	ND		1.0		ug/L			04/14/14 00:34	1
Bromobenzene	ND		1.0		ug/L			04/14/14 00:34	1
Bromoform	ND		1.0		ug/L			04/14/14 00:34	1
Bromomethane	ND		2.0		ug/L			04/14/14 00:34	1
Carbon disulfide	ND		10		ug/L			04/14/14 00:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 00:34	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 00:34	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 00:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 00:34	1
Chloroethane	ND		2.0		ug/L			04/14/14 00:34	1
Chloroform	ND		1.0		ug/L			04/14/14 00:34	1
Chloromethane	ND		2.0		ug/L			04/14/14 00:34	1
cis-1,2-Dichloroethene	1.1		1.0		ug/L			04/14/14 00:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 00:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 00:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 00:34	1
Ethyl ether	ND		1.0		ug/L			04/14/14 00:34	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 00:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 00:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 00:34	1
Isopropyl ether	ND		10		ug/L			04/14/14 00:34	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 00:34	1
Methyl tert-butyl ether	10		1.0		ug/L			04/14/14 00:34	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 00:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 00:34	1
Naphthalene	ND		5.0		ug/L			04/14/14 00:34	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 00:34	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 00:34	1
o-Xylene	ND		1.0		ug/L			04/14/14 00:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 00:34	1
Styrene	ND		1.0		ug/L			04/14/14 00:34	1
Tert-amyl methyl ether	5.6		5.0		ug/L			04/14/14 00:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 00:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 00:34	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 00:34	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 00:34	1
Toluene	ND		1.0		ug/L			04/14/14 00:34	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Client Sample ID: MW-217M-20140410-01

Lab Sample ID: 480-57720-2

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 00:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 00:34	1
Trichloroethene	8.9		1.0		ug/L			04/14/14 00:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 00:34	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 00:34	1
Dibromomethane	ND		1.0		ug/L			04/14/14 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/14/14 00:34	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					04/14/14 00:34	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/14/14 00:34	1

Client Sample ID: MW-217D-20140410-01

Lab Sample ID: 480-57720-3

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 19:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 19:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 19:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 19:40	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 19:40	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 19:40	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 19:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 19:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 19:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 19:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 19:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 19:40	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 19:40	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 19:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 19:40	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 19:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 19:40	1
1,4-Dioxane	ND		50		ug/L			04/11/14 19:40	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 19:40	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 19:40	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 19:40	1
2-Hexanone	ND *		10		ug/L			04/11/14 19:40	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 19:40	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 19:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 19:40	1
Acetone	ND		50		ug/L			04/11/14 19:40	1
Benzene	ND		1.0		ug/L			04/11/14 19:40	1
Bromobenzene	ND		1.0		ug/L			04/11/14 19:40	1
Bromoform	ND		1.0		ug/L			04/11/14 19:40	1
Bromomethane	ND		2.0		ug/L			04/11/14 19:40	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Client Sample ID: MW-217D-20140410-01

Lab Sample ID: 480-57720-3

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/11/14 19:40	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 19:40	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 19:40	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 19:40	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 19:40	1
Chloroethane	ND		2.0		ug/L			04/11/14 19:40	1
Chloroform	ND		1.0		ug/L			04/11/14 19:40	1
Chloromethane	ND		2.0		ug/L			04/11/14 19:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 19:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 19:40	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 19:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 19:40	1
Ethyl ether	ND		1.0		ug/L			04/11/14 19:40	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 19:40	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 19:40	1
Isopropyl ether	ND		10		ug/L			04/11/14 19:40	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 19:40	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 19:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 19:40	1
Naphthalene	ND		5.0		ug/L			04/11/14 19:40	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
o-Xylene	ND		1.0		ug/L			04/11/14 19:40	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
Styrene	ND		1.0		ug/L			04/11/14 19:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 19:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 19:40	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 19:40	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 19:40	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 19:40	1
Toluene	ND		1.0		ug/L			04/11/14 19:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 19:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 19:40	1
Trichloroethene	ND		1.0		ug/L			04/11/14 19:40	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 19:40	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 19:40	1
Dibromomethane	ND		1.0		ug/L			04/11/14 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/11/14 19:40	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		04/11/14 19:40	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 19:40	1

TestAmerica Buffalo

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL	12DCE	BFB
		(70-130)	(70-130)	(70-130)
480-57720-1	MW-217S-20140410-01	96	97	98
480-57720-2	MW-217M-20140410-01	99	104	97
480-57720-3	MW-217D-20140410-01	95	96	99
LCS 480-175163/5	Lab Control Sample	101	103	103
LCS 480-175485/6	Lab Control Sample	98	105	99
LCSD 480-175163/6	Lab Control Sample Dup	100	103	104
LCSD 480-175485/7	Lab Control Sample Dup	96	106	96
MB 480-175163/8	Method Blank	97	92	101
MB 480-175485/9	Method Blank	99	105	96

Surrogate Legend

TOL = Toluene-d8 (Surr)

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

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: MB 480-175163/8

Matrix: Water

Analysis Batch: 175163

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			04/11/14 12:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 12:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 12:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,4-Dioxane	ND		50		ug/L			04/11/14 12:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 12:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 12:27	1
2-Hexanone	ND		10		ug/L			04/11/14 12:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 12:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 12:27	1
Acetone	ND		50		ug/L			04/11/14 12:27	1
Benzene	ND		1.0		ug/L			04/11/14 12:27	1
Bromobenzene	ND		1.0		ug/L			04/11/14 12:27	1
Bromoform	ND		1.0		ug/L			04/11/14 12:27	1
Bromomethane	ND		2.0		ug/L			04/11/14 12:27	1
Carbon disulfide	ND		10		ug/L			04/11/14 12:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 12:27	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 12:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 12:27	1
Chloroethane	ND		2.0		ug/L			04/11/14 12:27	1
Chloroform	ND		1.0		ug/L			04/11/14 12:27	1
Chloromethane	ND		2.0		ug/L			04/11/14 12:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 12:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 12:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 12:27	1
Ethyl ether	ND		1.0		ug/L			04/11/14 12:27	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 12:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 12:27	1

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: MB 480-175163/8

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/11/14 12:27	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 12:27	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 12:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 12:27	1
Naphthalene	ND		5.0		ug/L			04/11/14 12:27	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
o-Xylene	ND		1.0		ug/L			04/11/14 12:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Styrene	ND		1.0		ug/L			04/11/14 12:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 12:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 12:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 12:27	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 12:27	1
Toluene	ND		1.0		ug/L			04/11/14 12:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 12:27	1
Trichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 12:27	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 12:27	1
Dibromomethane	ND		1.0		ug/L			04/11/14 12:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	97		70 - 130		04/11/14 12:27	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/11/14 12:27	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/11/14 12:27	1

Lab Sample ID: LCS 480-175163/5

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethane	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	70 - 130
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	22.2		ug/L		89	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: LCS 480-175163/5

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 130
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,4-Dioxane	500	395		ug/L		79	70 - 130
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
2-Butanone (MEK)	125	131		ug/L		105	70 - 130
2-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
2-Hexanone	125	182	*	ug/L		145	70 - 130
4-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130
Acetone	125	104		ug/L		83	70 - 130
Benzene	25.0	24.2		ug/L		97	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	23.9		ug/L		95	70 - 130
Bromomethane	25.0	20.9		ug/L		83	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130
Carbon tetrachloride	25.0	24.5		ug/L		98	70 - 130
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130
Chlorobromomethane	25.0	25.1		ug/L		100	70 - 130
Chlorodibromomethane	24.5	25.8		ug/L		105	70 - 130
Chloroethane	25.0	22.1		ug/L		89	70 - 130
Chloroform	25.0	23.3		ug/L		93	70 - 130
Chloromethane	25.0	22.7		ug/L		91	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130
Dichlorobromomethane	25.0	24.5		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	24.2		ug/L		97	70 - 130
Ethyl ether	25.0	24.7		ug/L		99	70 - 130
Ethylbenzene	25.0	24.9		ug/L		100	70 - 130
Ethylene Dibromide	25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	27.8		ug/L		111	70 - 130
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 130
Naphthalene	25.0	25.0		ug/L		100	70 - 130
n-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	22.6		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	21.9		ug/L		88	70 - 130
tert-Butylbenzene	25.0	26.6		ug/L		106	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: LCS 480-175163/5

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
Tetrahydrofuran	50.0	47.9		ug/L		96	70 - 130
Toluene	25.0	25.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	25.1		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	20.6		ug/L		83	70 - 130
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130
Dibromomethane	25.0	23.0		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-175163/6

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130	2	20
1,1,1-Trichloroethane	25.0	23.0		ug/L		92	70 - 130	3	20
1,1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	1	20
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	2	20
1,1-Dichloroethene	25.0	22.5		ug/L		90	70 - 130	4	20
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	0	20
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.1		ug/L		101	70 - 130	2	20
1,2-Dichloroethane	25.0	22.3		ug/L		89	70 - 130	0	20
1,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	2	20
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,4-Dioxane	500	466		ug/L		93	70 - 130	16	20
2,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130	5	20
2-Butanone (MEK)	125	127		ug/L		101	70 - 130	3	20
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	2	20
2-Hexanone	125	182 *		ug/L		145	70 - 130	0	20
4-Chlorotoluene	25.0	26.7		ug/L		107	70 - 130	5	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	70 - 130	1	20
Acetone	125	103		ug/L		82	70 - 130	1	20

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: LCSD 480-175163/6

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Benzene	25.0	23.6		ug/L		95	70 - 130	3	20	
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	0	20	
Bromoform	25.0	24.1		ug/L		96	70 - 130	1	20	
Bromomethane	25.0	20.3		ug/L		81	70 - 130	3	20	
Carbon disulfide	25.0	24.0		ug/L		96	70 - 130	3	20	
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 130	3	20	
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	4	20	
Chlorobromomethane	25.0	24.4		ug/L		97	70 - 130	3	20	
Chlorodibromomethane	24.5	25.7		ug/L		105	70 - 130	0	20	
Chloroethane	25.0	21.3		ug/L		85	70 - 130	4	20	
Chloroform	25.0	22.8		ug/L		91	70 - 130	2	20	
Chloromethane	25.0	21.5		ug/L		86	70 - 130	5	20	
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	0	20	
Dichlorobromomethane	25.0	24.0		ug/L		96	70 - 130	2	20	
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130	7	20	
Ethyl ether	25.0	24.4		ug/L		98	70 - 130	1	20	
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130	2	20	
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	3	20	
Hexachlorobutadiene	25.0	27.6		ug/L		111	70 - 130	0	20	
Isopropyl ether	25.0	22.1		ug/L		88	70 - 130	2	20	
Isopropylbenzene	25.0	24.9		ug/L		99	70 - 130	3	20	
Methyl tert-butyl ether	25.0	24.0		ug/L		96	70 - 130	1	20	
Methylene Chloride	25.0	23.2		ug/L		93	70 - 130	3	20	
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130	3	20	
Naphthalene	25.0	25.5		ug/L		102	70 - 130	2	20	
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	1	20	
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20	
o-Xylene	25.0	25.2		ug/L		101	70 - 130	3	20	
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20	
Styrene	25.0	25.4		ug/L		102	70 - 130	2	20	
Tert-amyl methyl ether	25.0	22.3		ug/L		89	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	21.6		ug/L		86	70 - 130	1	20	
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	3	20	
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130	2	20	
Tetrahydrofuran	50.0	47.5		ug/L		95	70 - 130	1	20	
Toluene	25.0	24.8		ug/L		99	70 - 130	3	20	
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	4	20	
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	2	20	
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	4	20	
Trichlorofluoromethane	25.0	19.6		ug/L		78	70 - 130	5	20	
Vinyl chloride	25.0	20.3		ug/L		81	70 - 130	5	20	
Dibromomethane	25.0	23.0		ug/L		92	70 - 130	0	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

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			04/13/14 22:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/13/14 22:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/13/14 22:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dioxane	ND		50		ug/L			04/13/14 22:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
2-Butanone (MEK)	ND		10		ug/L			04/13/14 22:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
2-Hexanone	ND		10		ug/L			04/13/14 22:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/13/14 22:07	1
Acetone	ND		50		ug/L			04/13/14 22:07	1
Benzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromoform	ND		1.0		ug/L			04/13/14 22:07	1
Bromomethane	ND		2.0		ug/L			04/13/14 22:07	1
Carbon disulfide	ND		10		ug/L			04/13/14 22:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobromomethane	ND		1.0		ug/L			04/13/14 22:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Chloroethane	ND		2.0		ug/L			04/13/14 22:07	1
Chloroform	ND		1.0		ug/L			04/13/14 22:07	1
Chloromethane	ND		2.0		ug/L			04/13/14 22:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Ethyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Ethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/13/14 22:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/13/14 22:07	1

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/13/14 22:07	1
Isopropylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Methylene Chloride	ND		1.0		ug/L			04/13/14 22:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/13/14 22:07	1
Naphthalene	ND		5.0		ug/L			04/13/14 22:07	1
n-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
N-Propylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
o-Xylene	ND		1.0		ug/L			04/13/14 22:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Styrene	ND		1.0		ug/L			04/13/14 22:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/13/14 22:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/13/14 22:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrachloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrahydrofuran	ND		10		ug/L			04/13/14 22:07	1
Toluene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Trichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Vinyl chloride	ND		1.0		ug/L			04/13/14 22:07	1
Dibromomethane	ND		1.0		ug/L			04/13/14 22:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		70 - 130		04/13/14 22:07	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/13/14 22:07	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/13/14 22:07	1

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130
1,4-Dioxane	500	452		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	142		ug/L		113	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130
Acetone	125	125		ug/L		100	70 - 130
Benzene	25.0	24.9		ug/L		100	70 - 130
Bromobenzene	25.0	24.3		ug/L		97	70 - 130
Bromoform	25.0	21.2		ug/L		85	70 - 130
Bromomethane	25.0	29.6		ug/L		118	70 - 130
Carbon disulfide	25.0	21.1		ug/L		84	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	24.9		ug/L		99	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	24.5	24.5		ug/L		100	70 - 130
Chloroethane	25.0	28.9		ug/L		116	70 - 130
Chloroform	25.0	25.1		ug/L		100	70 - 130
Chloromethane	25.0	24.2		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130
Ethyl ether	25.0	25.0		ug/L		100	70 - 130
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	25.5		ug/L		102	70 - 130
Isopropyl ether	25.0	26.3		ug/L		105	70 - 130
Isopropylbenzene	25.0	24.1		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	23.7		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 130
Naphthalene	25.0	25.8		ug/L		103	70 - 130
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	24.1		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	24.9		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		101	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130
Tetrahydrofuran	50.0	65.3	*	ug/L		131	70 - 130
Toluene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	24.0		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	27.1		ug/L		108	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.1		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130	1	20
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 130	2	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	4	20
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,4-Dioxane	500	463		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	2	20
2-Butanone (MEK)	125	135		ug/L		108	70 - 130	4	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
2-Hexanone	125	123		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	21.2		ug/L		85	70 - 130	4	20
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	70 - 130	2	20
Acetone	125	126		ug/L		101	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Benzene	25.0	24.7		ug/L		99	70 - 130	1	20	
Bromobenzene	25.0	23.6		ug/L		95	70 - 130	3	20	
Bromoform	25.0	21.4		ug/L		86	70 - 130	1	20	
Bromomethane	25.0	30.4		ug/L		122	70 - 130	3	20	
Carbon disulfide	25.0	20.4		ug/L		82	70 - 130	3	20	
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 130	2	20	
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130	5	20	
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	2	20	
Chlorodibromomethane	24.5	24.0		ug/L		98	70 - 130	2	20	
Chloroethane	25.0	28.7		ug/L		115	70 - 130	1	20	
Chloroform	25.0	25.0		ug/L		100	70 - 130	0	20	
Chloromethane	25.0	24.6		ug/L		98	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	0	20	
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	0	20	
Dichlorodifluoromethane	25.0	23.1		ug/L		92	70 - 130	2	20	
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	0	20	
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20	
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	2	20	
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130	5	20	
Isopropyl ether	25.0	26.0		ug/L		104	70 - 130	1	20	
Isopropylbenzene	25.0	23.1		ug/L		93	70 - 130	4	20	
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130	1	20	
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130	1	20	
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 130	3	20	
Naphthalene	25.0	25.0		ug/L		100	70 - 130	3	20	
n-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	6	20	
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130	4	20	
o-Xylene	25.0	23.7		ug/L		95	70 - 130	2	20	
sec-Butylbenzene	25.0	23.5		ug/L		94	70 - 130	5	20	
Styrene	25.0	24.1		ug/L		96	70 - 130	3	20	
Tert-amyl methyl ether	25.0	25.9		ug/L		103	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	26.0		ug/L		104	70 - 130	2	20	
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130	3	20	
Tetrachloroethene	25.0	24.5		ug/L		98	70 - 130	6	20	
Tetrahydrofuran	50.0	66.1 *		ug/L		132	70 - 130	1	20	
Toluene	25.0	23.3		ug/L		93	70 - 130	4	20	
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	1	20	
trans-1,3-Dichloropropene	25.0	23.9		ug/L		95	70 - 130	1	20	
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20	
Trichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	3	20	
Vinyl chloride	25.0	23.2		ug/L		93	70 - 130	3	20	
Dibromomethane	25.0	25.6		ug/L		103	70 - 130	2	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

GC/MS VOA

Analysis Batch: 175163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57720-1	MW-217S-20140410-01	Total/NA	Water	8260C	
480-57720-3	MW-217D-20140410-01	Total/NA	Water	8260C	
LCS 480-175163/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175163/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175163/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 175485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57720-2	MW-217M-20140410-01	Total/NA	Water	8260C	
LCS 480-175485/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175485/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175485/9	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Client Sample ID: MW-217S-20140410-01

Lab Sample ID: 480-57720-1

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 18:49	NMD1	TAL BUF

Client Sample ID: MW-217M-20140410-01

Lab Sample ID: 480-57720-2

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 00:34	LCH	TAL BUF

Client Sample ID: MW-217D-20140410-01

Lab Sample ID: 480-57720-3

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 19:40	NMD1	TAL BUF

Laboratory References:

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

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

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

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

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



Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57720-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57720-1	MW-217S-20140410-01	Water	04/10/14 11:15	04/11/14 01:45
480-57720-2	MW-217M-20140410-01	Water	04/10/14 12:35	04/11/14 01:45
480-57720-3	MW-217D-20140410-01	Water	04/10/14 11:45	04/11/14 01:45

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-57720-1

Login Number: 57720

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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



Lab Record



COC No: 480-47206-10762.4
Page: 4 of 7 Page 1/1
Job #:

Sample: Stacey Briggs
Phone: 1-617-646-7800

Client Information
Client Contact: ML Ethan Gyles
Company: ERM-Northeast
Address: One Beacon Street 5th Floor
City: Boston
State/Zip: MA, 02108
Phone: 1-617-646-7800
Email: ethan.gyles@erm.com
Project Name: ERM - Northeast
IDS Wayland
Site: Wayland, MA

Due Date Requested:
TAT Requested (days):
PO #:
Purchase Order not required
WO #:
Project #:
48007117
SSOW#:

8260MCP - 8260
Perform (MS/MSD) (Yes or No)
Field Filtered Sample (Yes or No)
A

Preservation Codes:
A - HCl
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
Other:
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, On-site, etc.)	Field Filtered Sample (Yes or No)	Perform (MS/MSD) (Yes or No)	Special Instructions/Note:
NW-217S-20140410-01	4/10/14	11:15	C	Water	N	N	
NW-217M-20140410-01	4/10/14	12:35	C	Water	N	N	
NW-217D-20140410-01	4/10/14	11:45	C	Water	N	N	
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: [Signature] Date/Time: 4/10/14 15:40 Company: ERM
 Relinquished by: [Signature] Date/Time: 4/10/14 16:00 Company: TAC
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes A No
 Cooler Temperature(s) °C and Other Remarks: 2-9#1
 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:



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-58121-1

Client Project/Site: IDS Wayland

For:

ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:

4/23/2014 9:20:25 AM

Rich Emerich, Analyst V

rich.emerich@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	13
Lab Chronicle	14
Certification Summary	16
Method Summary	18
Sample Summary	19
Receipt Checklists	20
Chain of Custody	22

Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Glossary

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

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Job ID: 480-58121-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 4/17/2014 at 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

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

GC/MS Semi VOA

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

Organic Prep

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



Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Client Sample ID: MW-1023-20140414-01

Lab Sample ID: 480-58121-1

No Detections.

Client Sample ID: MW-1034-20140414-01

Lab Sample ID: 480-58121-2

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

Client Sample ID: MW-1033-20140414-01

Lab Sample ID: 480-58121-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.49		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1025M-20140414-01

Lab Sample ID: 480-58121-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.2		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1025D-20140414-01

Lab Sample ID: 480-58121-5

No Detections.

Client Sample ID: MW-1020-20140414-01

Lab Sample ID: 480-58121-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.53		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1011-20140414-01

Lab Sample ID: 480-58121-7

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

Client Sample ID: MW-1022-20140414-01

Lab Sample ID: 480-58121-8

No Detections.

Client Sample ID: MW-1024D-20140414-01

Lab Sample ID: 480-58121-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.24		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: TRIP BLANK-20140414-01

Lab Sample ID: 480-58121-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Client Sample ID: MW-1023-20140414-01

Lab Sample ID: 480-58121-1

Date Collected: 04/14/14 10:55

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	97		50 - 150					04/18/14 15:12	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/22/14 08:51	04/22/14 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130				04/22/14 08:51	04/22/14 12:43	1

Client Sample ID: MW-1034-20140414-01

Lab Sample ID: 480-58121-2

Date Collected: 04/14/14 11:20

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	87		50 - 150					04/18/14 15:36	1
Dibromofluoromethane (Surr)	89		50 - 150					04/18/14 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.32		0.20		ug/L		04/22/14 08:51	04/22/14 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	95		70 - 130				04/22/14 08:51	04/22/14 12:59	1

Client Sample ID: MW-1033-20140414-01

Lab Sample ID: 480-58121-3

Date Collected: 04/14/14 11:35

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	85		50 - 150					04/18/14 16:00	1
Dibromofluoromethane (Surr)	89		50 - 150					04/18/14 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.49		0.20		ug/L		04/22/14 08:51	04/22/14 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130				04/22/14 08:51	04/22/14 13:16	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Client Sample ID: MW-1025M-20140414-01

Lab Sample ID: 480-58121-4

Date Collected: 04/14/14 10:30

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	120		50 - 150					04/18/14 16:23	1
Dibromofluoromethane (Surr)	91		50 - 150					04/18/14 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.2		0.20		ug/L		04/22/14 08:51	04/22/14 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	96		70 - 130				04/22/14 08:51	04/22/14 13:32	1

Client Sample ID: MW-1025D-20140414-01

Lab Sample ID: 480-58121-5

Date Collected: 04/14/14 10:25

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	104		50 - 150					04/18/14 16:47	1
Dibromofluoromethane (Surr)	89		50 - 150					04/18/14 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/22/14 08:51	04/22/14 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130				04/22/14 08:51	04/22/14 13:49	1

Client Sample ID: MW-1020-20140414-01

Lab Sample ID: 480-58121-6

Date Collected: 04/14/14 10:10

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	85		50 - 150					04/18/14 17:10	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.53		0.20		ug/L		04/22/14 08:51	04/22/14 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130				04/22/14 08:51	04/22/14 14:05	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Client Sample ID: MW-1011-20140414-01

Lab Sample ID: 480-58121-7

Date Collected: 04/14/14 10:00

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	77		50 - 150					04/18/14 17:34	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.22		0.20		ug/L		04/22/14 08:51	04/22/14 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130				04/22/14 08:51	04/22/14 14:22	1

Client Sample ID: MW-1022-20140414-01

Lab Sample ID: 480-58121-8

Date Collected: 04/14/14 11:10

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	85		50 - 150					04/18/14 17:58	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/22/14 08:51	04/22/14 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	104		70 - 130				04/22/14 08:51	04/22/14 14:38	1

Client Sample ID: MW-1024D-20140414-01

Lab Sample ID: 480-58121-9

Date Collected: 04/14/14 10:45

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	93		50 - 150					04/18/14 18:21	1
Dibromofluoromethane (Surr)	91		50 - 150					04/18/14 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.24		0.20		ug/L		04/22/14 08:51	04/22/14 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130				04/22/14 08:51	04/22/14 14:55	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Client Sample ID: TRIP BLANK-20140414-01

Lab Sample ID: 480-58121-10

Date Collected: 04/14/14 14:20

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	92		50 - 150		04/18/14 18:45	1
Dibromofluoromethane (Surr)	88		50 - 150		04/18/14 18:45	1

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

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BA-d9 (Sur (50-150))	DBFM (50-150)
480-58121-1	MW-1023-20140414-01	97	90
480-58121-2	MW-1034-20140414-01	87	89
480-58121-3	MW-1033-20140414-01	85	89
480-58121-4	MW-1025M-20140414-01	120	91
480-58121-5	MW-1025D-20140414-01	104	89
480-58121-6	MW-1020-20140414-01	85	90
480-58121-7	MW-1011-20140414-01	77	90
480-58121-8	MW-1022-20140414-01	85	90
480-58121-9	MW-1024D-20140414-01	93	91
480-58121-10	TRIP BLANK-20140414-01	92	88
LCS 480-176698/4	Lab Control Sample	86	96
LCSD 480-176698/5	Lab Control Sample Dup	90	96
MB 480-176698/6	Method Blank	85	88

Surrogate Legend

TBA-d9 (Surr) = TBA-d9 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (70-130)
480-58121-1	MW-1023-20140414-01	94
480-58121-2	MW-1034-20140414-01	95
480-58121-3	MW-1033-20140414-01	91
480-58121-4	MW-1025M-20140414-01	96
480-58121-5	MW-1025D-20140414-01	93
480-58121-6	MW-1020-20140414-01	92
480-58121-7	MW-1011-20140414-01	97
480-58121-8	MW-1022-20140414-01	104
480-58121-9	MW-1024D-20140414-01	89
LCS 200-71040/2-A	Lab Control Sample	90
MB 200-71040/1-A	Method Blank	100

Surrogate Legend

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

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

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

Lab Sample ID: MB 480-176698/6

Matrix: Water

Analysis Batch: 176698

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 10:44	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	85		50 - 150					04/18/14 10:44	1
Dibromofluoromethane (Surr)	88		50 - 150					04/18/14 10:44	1

Lab Sample ID: LCS 480-176698/4

Matrix: Water

Analysis Batch: 176698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	16.0	16.9		ug/L		106	50 - 150
Surrogate	%Recovery	LCS Qualifier	Limits				
TBA-d9 (Surr)	86		50 - 150				
Dibromofluoromethane (Surr)	96		50 - 150				

Lab Sample ID: LCSD 480-176698/5

Matrix: Water

Analysis Batch: 176698

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
1,4-Dioxane	16.0	17.4		ug/L		109	50 - 150	3	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
TBA-d9 (Surr)	90		50 - 150						
Dibromofluoromethane (Surr)	96		50 - 150						

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

Lab Sample ID: MB 200-71040/1-A

Matrix: Water

Analysis Batch: 71059

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/22/14 08:51	04/22/14 12:10	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	100		70 - 130				04/22/14 08:51	04/22/14 12:10	1

Lab Sample ID: LCS 200-71040/2-A

Matrix: Water

Analysis Batch: 71059

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.70		ug/L		85	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

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

Lab Sample ID: LCS 200-71040/2-A
Matrix: Water
Analysis Batch: 71059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71040

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,4-Dioxane-d8 (Surr)	90		70 - 130

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

GC/MS VOA

Analysis Batch: 176698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-58121-1	MW-1023-20140414-01	Total/NA	Water	8260C SIM	
480-58121-2	MW-1034-20140414-01	Total/NA	Water	8260C SIM	
480-58121-3	MW-1033-20140414-01	Total/NA	Water	8260C SIM	
480-58121-4	MW-1025M-20140414-01	Total/NA	Water	8260C SIM	
480-58121-5	MW-1025D-20140414-01	Total/NA	Water	8260C SIM	
480-58121-6	MW-1020-20140414-01	Total/NA	Water	8260C SIM	
480-58121-7	MW-1011-20140414-01	Total/NA	Water	8260C SIM	
480-58121-8	MW-1022-20140414-01	Total/NA	Water	8260C SIM	
480-58121-9	MW-1024D-20140414-01	Total/NA	Water	8260C SIM	
480-58121-10	TRIP BLANK-20140414-01	Total/NA	Water	8260C SIM	
LCS 480-176698/4	Lab Control Sample	Total/NA	Water	8260C SIM	
LCS 480-176698/5	Lab Control Sample Dup	Total/NA	Water	8260C SIM	
MB 480-176698/6	Method Blank	Total/NA	Water	8260C SIM	

GC/MS Semi VOA

Prep Batch: 71040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-58121-1	MW-1023-20140414-01	Total/NA	Water	3535A	
480-58121-2	MW-1034-20140414-01	Total/NA	Water	3535A	
480-58121-3	MW-1033-20140414-01	Total/NA	Water	3535A	
480-58121-4	MW-1025M-20140414-01	Total/NA	Water	3535A	
480-58121-5	MW-1025D-20140414-01	Total/NA	Water	3535A	
480-58121-6	MW-1020-20140414-01	Total/NA	Water	3535A	
480-58121-7	MW-1011-20140414-01	Total/NA	Water	3535A	
480-58121-8	MW-1022-20140414-01	Total/NA	Water	3535A	
480-58121-9	MW-1024D-20140414-01	Total/NA	Water	3535A	
LCS 200-71040/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-71040/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 71059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-58121-1	MW-1023-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-2	MW-1034-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-3	MW-1033-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-4	MW-1025M-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-5	MW-1025D-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-6	MW-1020-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-7	MW-1011-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-8	MW-1022-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-9	MW-1024D-20140414-01	Total/NA	Water	522 MOD	71040
LCS 200-71040/2-A	Lab Control Sample	Total/NA	Water	522 MOD	71040
MB 200-71040/1-A	Method Blank	Total/NA	Water	522 MOD	71040

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Client Sample ID: MW-1023-20140414-01

Lab Sample ID: 480-58121-1

Date Collected: 04/14/14 10:55

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 15:12	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 12:43	KHW	TAL BUR

Client Sample ID: MW-1034-20140414-01

Lab Sample ID: 480-58121-2

Date Collected: 04/14/14 11:20

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 15:36	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 12:59	KHW	TAL BUR

Client Sample ID: MW-1033-20140414-01

Lab Sample ID: 480-58121-3

Date Collected: 04/14/14 11:35

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 16:00	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 13:16	KHW	TAL BUR

Client Sample ID: MW-1025M-20140414-01

Lab Sample ID: 480-58121-4

Date Collected: 04/14/14 10:30

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 16:23	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 13:32	KHW	TAL BUR

Client Sample ID: MW-1025D-20140414-01

Lab Sample ID: 480-58121-5

Date Collected: 04/14/14 10:25

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 16:47	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 13:49	KHW	TAL BUR

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Client Sample ID: MW-1020-20140414-01

Lab Sample ID: 480-58121-6

Date Collected: 04/14/14 10:10

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 17:10	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:05	KHW	TAL BUR

Client Sample ID: MW-1011-20140414-01

Lab Sample ID: 480-58121-7

Date Collected: 04/14/14 10:00

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 17:34	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:22	KHW	TAL BUR

Client Sample ID: MW-1022-20140414-01

Lab Sample ID: 480-58121-8

Date Collected: 04/14/14 11:10

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 17:58	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:38	KHW	TAL BUR

Client Sample ID: MW-1024D-20140414-01

Lab Sample ID: 480-58121-9

Date Collected: 04/14/14 10:45

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 18:21	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:55	KHW	TAL BUR

Client Sample ID: TRIP BLANK-20140414-01

Lab Sample ID: 480-58121-10

Date Collected: 04/14/14 14:20

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 18:45	TRB	TAL BUF

Laboratory References:

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

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

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	02-26-17
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-14 *
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Method	Method Description	Protocol	Laboratory
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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



Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-58121-1	MW-1023-20140414-01	Water	04/14/14 10:55	04/17/14 03:00
480-58121-2	MW-1034-20140414-01	Water	04/14/14 11:20	04/17/14 03:00
480-58121-3	MW-1033-20140414-01	Water	04/14/14 11:35	04/17/14 03:00
480-58121-4	MW-1025M-20140414-01	Water	04/14/14 10:30	04/17/14 03:00
480-58121-5	MW-1025D-20140414-01	Water	04/14/14 10:25	04/17/14 03:00
480-58121-6	MW-1020-20140414-01	Water	04/14/14 10:10	04/17/14 03:00
480-58121-7	MW-1011-20140414-01	Water	04/14/14 10:00	04/17/14 03:00
480-58121-8	MW-1022-20140414-01	Water	04/14/14 11:10	04/17/14 03:00
480-58121-9	MW-1024D-20140414-01	Water	04/14/14 10:45	04/17/14 03:00
480-58121-10	TRIP BLANK-20140414-01	Water	04/14/14 14:20	04/17/14 03:00

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-58121-1

Login Number: 58121

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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



Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-58121-1

Login Number: 58121

List Source: TestAmerica Burlington

List Number: 2

List Creation: 04/17/14 11:38 AM

Creator: Gagne, Eric M

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No NUMBERS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C. IR GUN ID 181. CF = 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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
Walham, MA 02451
Phone (781) 466-6900 Fax (781) 466-

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

dy Record



Client Information		Carrier Tracking No(s):						
Client Contact: <u>Lindsay Colburn</u>		COC No: <u>22960</u>						
Company: <u>ERM</u>		Page: <u>1 of 1</u>						
Address: <u>One Beacon St. 5th Floor</u>		Job #: <u>0237233</u>						
City: <u>Boston, MA</u>		Preservation Codes:						
State Zip: <u>02108</u>		A - HCL J - DI Water B - NaOH M - Hexane C - Zn Acetate N - None D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SSO3 H - Ascorbic Acid S - H2SO4 I - Ice Z - other (specify)						
Phone: <u>1-617-646-7800</u>		Regulatory programs:						
Email: <u>lindsay.colburn@erm.com</u>		MCP <input type="checkbox"/> GW1/SI <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/>						
Project Name/number: <u>185 wayland</u>		Total Number of containers: <u>3</u>						
Site: <u>Wayland, MA</u>		Special Instructions/Note:						
Sample Identification		Analysis Requested						
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=tissue, A=air)	Field Filtered Sample?	Performs MS/MS?	Sampler's Initials	Carrier Tracking No(s)
MW-1088-20140414-01	4/14/14	10:55	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1034-20140414-01	4/14/14	11:20	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1088-20140414-01	4/14/14	11:35	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1025M-20140414-01	4/14/14	10:30	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1025D-20140414-01	4/14/14	10:25	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1020-20140414-01	4/14/14	10:10	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1011-20140414-01	4/14/14	10:00	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1022-20140414-01	4/14/14	11:10	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
MW-1024D-20140414-01	4/14/14	10:45	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960
TRIP BLANK-20140414-01	4/14/14	14:20	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SA	22960

Special Instructions/Note: 3 Run SIM analysis
3 First; for ND's please
3 run 522 analysis

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: <u>[Signature]</u>	Date/Time: <u>4-16-14 13:55</u>	Company: <u>ERM</u>
Received by: <u>[Signature]</u>	Date/Time: <u>4-16-14 10:30</u>	Company: <u>ERM</u>
Received by: <u>[Signature]</u>	Date/Time: <u>4-16-14 10:30</u>	Company: <u>ERM</u>

Cooler Temperature(s) °C and Other Remarks: 2 of # 1



Appendix C
BWSC Transmittal Forms
(Submitted Concurrently via
eDEP)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 108

Release Tracking Number

3 - 13302

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

A. SITE LOCATION: Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

1. Site Name:

2. Street Address:

3. City/Town: 4. ZIP Code:

5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category:

a. Tier I b. Tier ID c. Tier II

B. THIS FORM IS BEING USED TO: (check all that apply)

- 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
- 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
- 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.
- 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.
- 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
- 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
- 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
- 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
- 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
- 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
- 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.
- 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.
- 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

- a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Permanent or Temporary Solution.
- b. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.
- c. The requirements of a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.

14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) i. Initial Report ii. Interim Report iii. Final Report

b. Frequency of Submittal: (check all that apply)

i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

iii. A Remedial Monitoring Report(s) submitted every six months, concurrent with a Status Report.

iv. A Remedial Monitoring Report(s) submitted annually, concurrent with a Status Report.

c. Status of Site: (check one) i. Phase IV ii. Phase V iii. Remedy Operation Status

iv. Temporary Solution d. Number of Remedial Systems and/or Monitoring Programs:

2

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.

18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).

19. Submit a **Transfer and/or a Modification of Persons Maintaining a Remedy Operation Status (ROS)**, pursuant to 310 CMR 40.0893(5) (check one, or both, if applicable).

a. Submit a Transfer of Persons Maintaining an ROS (the transferee should be the person listed in Section D, "Person Undertaking Response Actions").

b. Submit a Modification of Persons Maintaining an ROS (the primary representative should be the person listed in Section D, "Person Undertaking Response Actions").

c. Number of Persons Maintaining an ROS not including the primary representative:

20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).(check one)

a. Submit a notice indicating ROS performance standards have not been met. A plan and timetable pursuant to 310 CMR 40.0893(6)(b) for resuming the ROS are attached.

b. Submit a notice of Termination of ROS.

21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

- Specify the outcome of Phase V activities: (check one)
 - a. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.
 - b. The requirements for a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.
- 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.
- 23. Submit a **Temporary Solution Status Report**, pursuant to 310 CMR 40.0898.
- 24. Submit a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).
 - a. Status of Site: (check one)
 - i. Phase IV
 - ii. Phase V
 - iii. Remedy Operation Status
 - iv. Temporary Solution

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B indicates that a **Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement** and/or a **Termination of a Remedy Operation Status** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that a **Phase II Scope of Work** or a **Phase IV Remedy Implementation Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that an **As-Built Construction Report, a Remedy Operation Status, a Phase IV, Phase V or Temporary Solution Status Report, a Status Report to Maintain a Remedy Operation Status, a Transfer or Modification of Persons Maintaining a Remedy Operation Status** and/or a **Remedial Monitoring Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

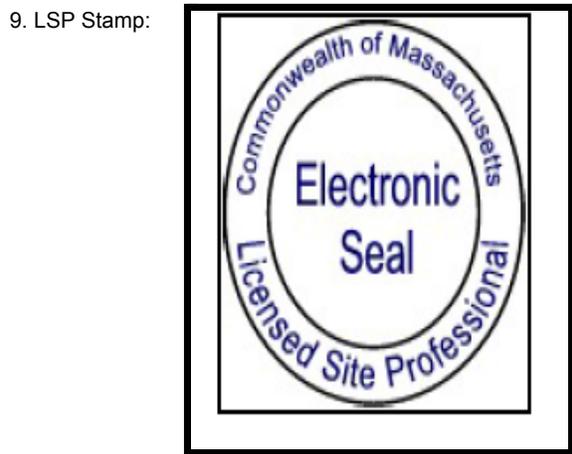
1. LSP#:

2. First Name: 3. Last Name:

4. Telephone: 5. Ext.: 6. Email:

7. Signature:

8. Date:
(mm/dd/yyyy)



D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: a. change in contact name b. change of address c. change in the person undertaking response actions

2. Name of Organization:

3. Contact First Name: 4. Last Name:

5. Street: 6. Title:

7. City/Town: 8. State: 9. ZIP Code:

10. Telephone: 11. Ext: 12. Email:

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:

Check here to change relationship

1. RP or PRP a. Owner b. Operator c. Generator d. Transporter e. Other RP or PRP Specify:

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Undertaking Response Specify Relationship:
Actions

F. REQUIRED ATTACHMENT AND SUBMITTALS:

1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

- 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.
- 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.
- 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.
- 6. If submitting a Transfer of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for the person making this submittal (transferee) is attached.
- 7. If submitting a Modification of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for each new person making this submittal is attached.
- 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to: BWSC.eDEP@state.ma.us.
- 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

*>if Section B indicates that this is a **Modification of a Remedy Operation Status (ROS)**, I attest under the pains and penalties of perjury that I am fully authorized to act on behalf of all persons performing response actions under the ROS as stated in 310 CMR 40.0893(5)(d) to receive oral and written correspondence from MassDEP with respect to performance of response actions under the ROS, and to receive a statement of fee amount as per 4.03(3).*

I understand that any material received by the Primary Representative from MassDEP shall be deemed received by all the persons performing response actions under the ROS, and I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

2. By: 3. Title:
Signature

4. For: 5. Date:
(Name of person or entity recorded in Section D) (mm/dd/yyyy)

6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. Email:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on 5/20/2014 1:00:12
PM

	<p>Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup CRA REMEDIAL MONITORING REPORT</p> <p>Pursuant to 310 CMR 40.0800 (SUBPART H)</p> <p>Remedial System or Monitoring Program: <input type="text" value="1"/> of <input type="text" value="2"/></p>	<p>BWSC108-A</p> <p>Release Tracking Number</p> <p><input type="text" value="3"/> <input type="text" value="13302"/></p>
---	--	--

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

a. Active Remedial System: (check all that apply)

<input type="checkbox"/> i. NAPL Recovery	<input type="checkbox"/> ii. Soil Vapor Extraction/Bioventing	<input type="checkbox"/> iii. Vapor-phase Carbon Adsorption
<input checked="" type="checkbox"/> iv. Groundwater Recovery	<input type="checkbox"/> v. Dual/Multi-phase Extraction	<input type="checkbox"/> vi. Aqueous-phase Carbon Adsorption
<input type="checkbox"/> vii. Air Stripping	<input type="checkbox"/> viii. Sparging/Biosparging	<input type="checkbox"/> ix. Cat/Thermal Oxidation
<input type="checkbox"/> x. Other Describe: <input style="width: 100%;" type="text"/>		

b. Active Exposure Pathway Elimination Measure

Active Exposure Pathway Mitigation System to address (check one):

<input type="checkbox"/> i. Indoor Air	<input type="checkbox"/> ii. Drinking Water
--	---

c. Application of Remedial Additives: (check all that apply)

<input type="checkbox"/> i. To the Subsurface	<input checked="" type="checkbox"/> ii. To Groundwater (Injection)	<input type="checkbox"/> iii. To the Surface
---	--	--

d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)

<input type="checkbox"/> i. Reactive Wall	<input type="checkbox"/> ii. Natural Attenuation	<input type="checkbox"/> iii. Other Describe: <input style="width: 100%;" type="text"/>
---	--	---

2. Mode of Operation: (check one)

<input checked="" type="checkbox"/> a. Continuous	<input type="checkbox"/> b. Intermittent	<input type="checkbox"/> c. Pulsed	<input type="checkbox"/> d. One-time Event Only	<input type="checkbox"/> e. Other: <input style="width: 100%;" type="text"/>
---	--	------------------------------------	---	--

3. System Effluent/Discharge: (check all that apply)

<input type="checkbox"/> a. Sanitary Sewer/POTW	
<input checked="" type="checkbox"/> b. Groundwater Re-infiltration/Re-injection: (check one)	<input type="checkbox"/> i. Downgradient <input checked="" type="checkbox"/> ii. Upgradient
<input type="checkbox"/> c. Vapor-phase Discharge to Ambient Air: (check one)	<input type="checkbox"/> i. Off-gas Controls <input type="checkbox"/> ii. No Off-gas Controls
<input type="checkbox"/> d. Drinking Water Supply	
<input type="checkbox"/> e. Surface Water (including Storm Drains)	
<input type="checkbox"/> f. Other Describe: <input style="width: 100%;" type="text"/>	

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: To:
 (mm/dd/yyyy) (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

<input type="checkbox"/> a. System Startup: (if applicable)
<input type="checkbox"/> i. Days 1, 3, 6, and then weekly thereafter, for the first month.

ii. Other Describe:

b. Post-system Startup (after first month) or Monitoring Program:

i. Monthly

ii. Quarterly

iii. Annually

iv. Other Describe:

Describe:

3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

1. NPDES: (check one)

a. Remediation General Permit

b. Individual Permit

c. Emergency Exclusion

Effective Date of Permit:
(mm/dd/yyyy)

2. MCP Performance Standard

MCP Citations(s):

3. DEP Approval Letter

Date of Letter:
(mm/dd/yyyy)

4. Other

Describe:

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: b. Grade:

c. License No: d. License Exp. Date:

(mm/dd/yyyy)

2. Not Required

3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: b. GW Recovered (gals):

c. NAPL Recovered (gals):

d. GW Discharged (gals): e. Avg. Soil Gas Recovery Rate (scfm):

f. Avg. Sparging Rate (scfm):

2. Remedial Additives: (check all that apply)

a. No Remedial Additives applied during the Reporting Period.

b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

ii. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

iii. Peroxides:

Name of Additive	Date	Quantity	Units

iii. Microorganisms:

Name of Additive	Date	Quantity	Units

iv. Other:

Name of Additive	Date	Quantity	Units
BIO CULTURE (NJ-14)	12/07/2013	425	LBS

c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

i. Permanganates:

Name of Additive	Date	Quantity	Units

ii. Peroxides:

Name of Additive	Date	Quantity	Units

iii. Persulfates:

Name of Additive	Date	Quantity	Units

iv. Other:

Name of Additive	Date	Quantity	Units

d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: b. Total Number of Days of Unscheduled Shutdowns:

c. Reason(s) for Unscheduled Shutdowns:

2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: b. Total Number of Days of Scheduled Shutdowns:

c. Reason(s) for Scheduled Shutdowns:

3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown:

(mm/dd/yyyy)

b. No Further Effluent Discharges.

c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

d. No Further Submittals Planned.

e. Other: Describe:

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

	<p>Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup CRA REMEDIAL MONITORING REPORT</p> <p>Pursuant to 310 CMR 40.0800 (SUBPART H)</p> <p>Remedial System or Monitoring Program: <input type="text" value="2"/> of <input type="text" value="2"/></p>	<p>BWSC108-A</p> <p>Release Tracking Number</p> <p><input type="text" value="3"/> <input type="text" value="13302"/></p>
---	--	--

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

a. Active Remedial System: (check all that apply)

<input type="checkbox"/> i. NAPL Recovery	<input type="checkbox"/> ii. Soil Vapor Extraction/Bioventing	<input type="checkbox"/> iii. Vapor-phase Carbon Adsorption
<input type="checkbox"/> iv. Groundwater Recovery	<input type="checkbox"/> v. Dual/Multi-phase Extraction	<input type="checkbox"/> vi. Aqueous-phase Carbon Adsorption
<input type="checkbox"/> vii. Air Stripping	<input type="checkbox"/> viii. Sparging/Biosparging	<input type="checkbox"/> ix. Cat/Thermal Oxidation
<input type="checkbox"/> x. Other Describe: <input style="width: 500px;" type="text"/>		

b. Active Exposure Pathway Elimination Measure

Active Exposure Pathway Mitigation System to address (check one):

i. Indoor Air ii. Drinking Water

c. Application of Remedial Additives: (check all that apply)

i. To the Subsurface ii. To Groundwater (Injection) iii. To the Surface

d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)

i. Reactive Wall ii. Natural Attenuation iii. Other Describe:

2. Mode of Operation: (check one)

a. Continuous b. Intermittent c. Pulsed d. One-time Event Only e. Other:

3. System Effluent/Discharge: (check all that apply)

a. Sanitary Sewer/POTW

b. Groundwater Re-infiltration/Re-injection: (check one) i. Downgradient ii. Upgradient

c. Vapor-phase Discharge to Ambient Air: (check one) i. Off-gas Controls ii. No Off-gas Controls

d. Drinking Water Supply

e. Surface Water (including Storm Drains)

f. Other Describe:

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: To:

(mm/dd/yyyy) (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

a. System Startup: (if applicable)

i. Days 1, 3, 6, and then weekly thereafter, for the first month.

ii. Other

Describe:

b. Post-system Startup (after first month) or Monitoring Program:

i. Monthly

ii. Quarterly

iii. Annually

iv. Other

Describe: SEMI-ANNUAL

3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

1. NPDES: (check one)

a. Remediation General Permit

b. Individual Permit

c. Emergency Exclusion

Effective Date of Permit:

(mm/dd/yyyy)

2. MCP Performance Standard

MCP Citations(s):

3. DEP Approval Letter

Date of Letter:

(mm/dd/yyyy)

4. Other

Describe: NO EFFLUENT

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name:

b. Grade:

c. License No:

d. License Exp. Date:

(mm/dd/yyyy)

2. Not Required

3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional:

b. GW Recovered (gals):

c. NAPL Recovered (gals):

d. GW Discharged (gals):

e. Avg. Soil Gas Recovery Rate (scfm):

f. Avg. Sparging Rate (scfm):

2. Remedial Additives: (check all that apply)

a. No Remedial Additives applied during the Reporting Period.

b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

<input type="checkbox"/> i. Nitrogen/Phosphorus:			
Name of Additive	Date	Quantity	Units

<input type="checkbox"/> ii. Peroxides:			
Name of Additive	Date	Quantity	Units

<input type="checkbox"/> iii. Microorganisms:			
Name of Additive	Date	Quantity	Units

<input type="checkbox"/> iv. Other:			
Name of Additive	Date	Quantity	Units

c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

<input type="checkbox"/> i. Permanganates:			
Name of Additive	Date	Quantity	Units

<input type="checkbox"/> ii. Peroxides:			
Name of Additive	Date	Quantity	Units