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September 16, 2013 Project 130274

Mr. Joseph T. Martella, II
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

Re: Status Report: June and August 2013 Activities
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, RI
Site Remediation Case No. 97-030

Dear Mr. Martella:

Shaw Environmental, Inc., a CB&I company, has prepared this status report on behalf of Textron, Inc. (Textron). This status report is associated with the remediation of tetrachloroethene (PCE) contaminated groundwater at the former Gorham Manufacturing Facility at 333 Adelaide Avenue, Providence, Rhode Island (**Figure 1**).

PCE is the primary contaminant of concern for groundwater in this area. As discussed in the Remedial Action Work Plan (RAWP) and subsequent revisions, the PCE source area in the vicinity of the former building W is the area of concern with a site-specific remedial goal of 7,700 micrograms per liter (ug/L). This area was treated using in-situ applications of sodium permanganate. **Figure 2** shows the most recent treatment area.

This status report describes semi-annual groundwater monitoring activities conducted in accordance with the proposed groundwater monitoring program submitted to the Rhode Island Department of Environmental Management (RIDEM) in February 2007 (Shaw – Groundwater Monitoring Program letter, dated February 1, 2007).

This report also includes results of additional groundwater sampling and analysis conducted in June 2013.

FIELD ACTIVITIES

The following field activities were conducted on June 21, 2013 and on August 12 and 13, 2013.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on August 12 and 13, 2013. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and light non-aqueous phase liquid (LNAPL) thickness measurements were also collected. During the synchronous gauging, light non-aqueous phase liquid (LNAPL) was detected in MW-221S at a thickness of 0.03 feet. Field parameter and gauging results are presented in **Tables 1** and **2**.

Groundwater Sampling

Groundwater samples were collected for analysis for volatile organic compounds (VOCs) (EPA Method 8260C) from three monitoring wells (MW-112, MW-116D, and MW-116S) on June 21, 2013. On August 12 and 13, 2013 semi-annual groundwater samples were collected for analysis for VOCs (EPA Method 8260C) from 22 monitoring wells within and around the treatment area, including compliance wells. Duplicate samples were collected from, MW-101S (MW-101S DUP) for VOC analysis. One sample was collected for total petroleum hydrocarbon (TPH) analysis (modified EPA Method 8015 C) from monitoring well CW-6. One duplicate sample was collected from CW-6 (CW-6 DUP) for TPH analysis. Samples were also collected for lead analysis (EPA Method 6010C) from monitoring wells MW-109D and GZA-3. One duplicate sample was collected from GZA-3 (GZA-3 DUP) for lead analysis. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

SUMMARY OF ANALYTICAL DATA

A summary of the analytical data associated with the groundwater sampling conducted in June and August 2013 is contained in **Table 3**. A copy of each laboratory analytical report is attached to this report. The measured PCE concentrations were below the treatment goal of 7,700 ug/L in all wells. Note that the PCE concentration in well MW-112 increased in August 2013 from the level found in June 2013. As a result, well MW-112 and wells MW-116D and MW-116S will continue to be monitor at an increased frequency until the PCE concentration in MW-112 stabilizes.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that exceedances occurred for the Adelaide Avenue wells MW-112 and MW-209D for PCE. (Note: due to sample dilution by the laboratory, the reporting limits for 1,1-dichloroethene for well MW-112 and the reporting limits for

vinyl chloride in wells MW-112, MW-209D, and MW-218D were above the compound respective compliance standards.)

FUTURE ACTIVITIES

A limit VOC sampling event is schedule for wells MW-112, MW-116D, and MW-116S in September 2013. The next semi-annual sampling event is scheduled for February 2014.

If you have any questions regarding this report, please contact Ed Van Doren at (617) 589-4030.

Sincerely,

Edward P. VanDoren
Project Manager
Shaw Environmental, Inc.
(A CB&I Company)

Attachments:

Tables
Table 1 – Summary Field Parameters
Table 2 – Groundwater Elevations
Table 3 – VOCs in Groundwater
Table 4 – Compliance Wells Analytical Results

Figures
Figure 1 – Site Plan
Figure 2 – Injection Well Locations

GB Upper Concentration Limit Calculations
Laboratory Analytical Reports

cc: Craig Roy, RIDEM OWR
Greg Simpson, Textron
Jamieson Schiff, Textron
Dave Heislein, AMEC
Thomas Dellar, City of Providence
Jeff Morgan, Stop & Shop
Ronald Ruth, Sherin and Lodgen

CERTIFICATIONS

The following certifications are provided pursuant to Rule 9.19 of the Remediation Regulations:

I, Edward P. Van Doren, as an authorized representative of Shaw Environmental, Inc., a CB&I company, and the person responsible for the preparation of this Status Report dated September 10, 2013, certify that the information contained in this report is complete and accurate to the best of my knowledge.

Edward P. Van Doren
Project Manager

9-19-13
Date:

We, Textron, Inc., as the party responsible for submittal of this Status Report, certify that this report is a complete and accurate representation of the contaminated site and the release, and contains all known facts surrounding the release, to the best of our knowledge.

Certification on behalf of Textron Inc.

Gregory L. Simpson
Project Manager

9/16/13
Date:

TABLES

Table 1
Summary Field Parameters
August 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

Well ID	DATE	pH	Temperature (deg. C°)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
MW-101D	8/12/2013	6.28	15.26	0.571	0.35	26.8
MW-101S	8/12/2013	5.91	16.97	0.561	1.71	32.8
MW-112	8/12/2013	5.56	16.07	0.671	5.35	133.0
MW-116D	8/12/2013	4.74	15.49	0.602	3.73	192.9
MW-116S	8/12/2013	5.56	19.56	0.330	7.33	175.1
MW-201D	8/12/2013	6.55	15.69	0.971	2.33	145.1
MW-202D	8/12/2013	5.93	15.45	0.318	2.21	86.4
MW-202S	8/12/2013	6.00	15.20	0.364	1.00	51.1
MW-207D	8/12/2013	6.16	15.69	0.534	1.49	40.3
MW-207S	8/12/2013	6.06	15.89	0.751	1.35	65.3
MW-209D	8/13/2013	6.86	14.56	0.076	4.38	116.9
MW-216D	8/12/2013	6.41	15.10	0.466	0.54	-51.9
MW-216S	8/12/2013	6.44	16.35	0.675	1.29	-104.9
MW-217D	8/13/2013	6.69	15.38	0.565	0.81	-96.9
MW-217S	8/13/2013	6.48	14.74	0.721	1.92	-94.7
MW-218D	8/12/2013	6.11	15.31	0.132	0.87	152.3
MW-218S	8/12/2013	6.85	14.88	0.874	2.15	-164.1

Notes:

C° = degrees Celsius

mS/cm = millisiemens per centimeter

mg/L = milligrams per liter

mV = milli volts

Table 2
Groundwater Elevations
August 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

Well ID	Date	Reference Elevation (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)
CW-01	8/13/2013	99.52	25.44	---	74.08
CW-02	8/13/2013	98.86	24.65	---	74.21
CW-06	8/13/2013	99.52	24.97	---	74.55
GZA-3	8/13/2013	NA	17.54	---	NA
MW-101D	8/12/2013	98.91	24.65	---	74.26
MW-101S	8/12/2013	98.90	24.66	---	74.24
MW-109D	8/13/2013	NA	19.15	---	NA
MW-112	8/12/2013	100.63	26.40	---	74.23
MW-116D	8/12/2013	98.92	24.71	---	74.21
MW-116S	8/12/2013	99.40	25.15	---	74.25
MW-201D	8/12/2013	98.80	24.59	---	74.21
MW-202D	8/12/2013	98.17	23.90	---	74.27
MW-202S	8/12/2013	98.06	23.79	---	74.27
MW-207D	8/12/2013	98.18	23.96	---	74.22
MW-207S	8/12/2013	98.28	24.05	---	74.23
MW-209D	8/13/2013	99.90	26.17	---	73.73
MW-216D	8/12/2013	98.69	25.41	---	73.28
MW-216S	8/12/2013	99.58	25.41	---	74.17
MW-217D	8/13/2013	98.65	24.90	---	73.75
MW-217S	8/13/2013	98.71	24.94	---	73.77
MW-218D	8/12/2013	99.67	25.41	---	74.26
MW-218S	8/12/2013	99.61	25.36	---	74.25
MW-220S	8/13/2013	99.41	25.23	---	74.18
MW-221S	8/13/2013	98.92	25.46	0.03	73.49

Notes:
NA = Not Available
Groundwater elevations are based on an arbitrary reference datum established for the site.

Table 3
Groundwater Analytical Results
June and August 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT	CW-01 8/13/2013 Primary	CW-02 8/13/2013 Primary	CW-06 8/13/2013 Primary	CW-06 8/13/2013 Duplicate 1	GZA-3 8/13/2013 Primary	GZA-3 8/13/2013 Duplicate 1	MW-101D 8/12/2013 Primary	MW-101S 8/12/2013 Primary	MW-101S 8/12/2013 Duplicate 1	MW-109D 8/13/2013 Primary	MW-112 6/21/2013 Primary	MW-112 8/12/2013 Primary	MW-116D 6/21/2013 Primary	MW-116D 8/12/2013 Primary	MW-116S 6/21/2013 Primary
VOC (ug/L)															
1,1,1-Trichloroethane	1.2	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1.1	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
1,1-Dichloroethane	17	<1.0	---	---	1.1	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
1,1-Dichloroethene	110	<1.0	---	---	<1.0J	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
1,2-Dichloroethane	3.7	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
1,4-Dioxane	84	<50	---	---	<50	---	<250D	<50	<50	<50	<500D	<1000D	<50	<50	<50
Bromodichloromethane	<1.0	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<5.0D	<20D	<0.50	<1.0	<0.50
Chloroform	<2.0J	<2.0	---	---	<2.0	---	<10JD	<2.0J	<2.0J	<2.0	<20D	<40JD	<2.0J	<2.0J	<2.0
cis-1,2-Dichloroethene	360D	<1.0	---	---	34	---	<5.0JD	10	10	<1.0	<10JD	<20D	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
Methyltert-butylether	3.8	<1.0	---	---	4	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
Naphthalene	<5.0	<5.0	---	---	<5.0	---	<25D	<5.0	<5.0	<5.0	<20D	<100D	<2.0	<5.0	<2.0
Tetrachloroethene	290D	<1.0	---	---	<1.0	---	260D	25	24	<1.0	510D	3200D	<1.0	<1.0J	<1.0
trans-1,2-Dichloroethene	34	<1.0	---	---	<1.0J	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
Trichloroethene	4700D	<1.0J	---	---	2.8	---	5.6D	1.1	<1.0J	<1.0J	75D	<20D	<1.0J	<1.0J	<1.0
Vinyl chloride	<2.0J	<2.0	---	---	33	---	<10D	<2.0J	<2.0J	<2.0	<20D	<40D	<2.0	<2.0	<2.0
m/p-xylene	<2.0	<2.0	---	---	<2.0	---	<10D	<2.0	<2.0	<2.0	<20D	<40D	<2.0	<2.0	<2.0
o-Xylene	<1.0	<1.0	---	---	<1.0	---	<5.0D	<1.0	<1.0	<1.0	<10D	<20D	<1.0	<1.0	<1.0
Xylene (total)	<2.0	<2.0	---	---	<2.0	---	<10D	<2.0	<2.0	<2.0	<20D	<40D	<2.0	<2.0	<2.0
TPH (mg/L)															
Fuel oil no. 2	---	---	7.3	7.4	---	---	---	---	---	---	---	---	---	---	---
Dissolved Metals (ug/L)															
Lead	---	---	---	---	<10J	<10J	---	---	---	<10J	---	---	---	---	---

Notes:
< = Less than the laboratory reporting limit
ug/L = Micro grams per liter, parts per billion
mg/L = Milligrams per liter, parts per million
TPH = Total Petroleum Hydrocarbons
--- = Not analyzed for
D = Result reported from a diluted sample.
J = Estimated value

Table 3
Groundwater Analytical Results
June and August 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT	MW-116S 8/12/2013 Primary	MW-201D 8/12/2013 Primary	MW-202D 8/12/2013 Primary	MW-202S 8/12/2013 Primary	MW-207D 8/12/2013 Primary	MW-207S 8/12/2013 Primary	MW-209D 8/13/2013 Primary	MW-216D 8/12/2013 Primary	MW-216S 8/12/2013 Primary	MW-217D 8/13/2013 Primary	MW-217S 8/13/2013 Primary	MW-218D 8/12/2013 Primary	MW-218S 8/12/2013 Primary
VOC (ug/L)													
1,1,1-Trichloroethane	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	<2.0D	<1.0	<1.0	<2.0D	<1.0
1,1,2-Trichloroethane	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	<2.0D	<1.0	<1.0	<2.0D	<1.0
1,1-Dichloroethane	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	<2.0JD	<1.0	<1.0J	<2.0D	<1.0
1,1-Dichloroethene	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	<2.0D	<1.0	<1.0	<2.0D	<1.0J
1,2,4-Trimethylbenzene	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	10D	<1.0	<1.0	<2.0D	<1.0
1,2-Dichloroethane	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	<2.0D	<1.0	<1.0	<2.0D	<1.0
1,3,5-Trimethylbenzene	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	6.9D	<1.0	<1.0	<2.0D	<1.0
1,4-Dioxane	<50	<5000D	<500D	<50	<50	<250D	<250D	<50	<100D	<50	<50	<100D	<50
Bromodichloromethane	<1.0	<100D	<10D	<1.0	<0.50	<2.5D	<5.0D	<0.50	<1.0D	<0.50	<1.0	3.8D	<0.50
Chloroform	<2.0J	<200JD	<20JD	7.4	<2.0	11D	<10D	<2.0	<4.0D	<2.0	<2.0	34D	<2.0
cis-1,2-Dichloroethene	<1.0	<100D	<10JD	4.9	2.1	6.4D	<5.0JD	<1.0J	33D	7	63	<2.0D	2.5
Ethylbenzene	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	2.4D	<1.0	2.6	<2.0D	<1.0
Methyltert-butylether	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0J	<2.0D	<1.0	<1.0	<2.0D	<1.0
Naphthalene	<5.0	<500D	<50D	<5.0	<2.0	<10D	<25D	<2.0	26D	<2.0	13	<4.0D	<2.0
Tetrachloroethene	<1.0	6600D	990D	43	74	240D	320D	<1.0	<2.0D	<1.0	<1.0J	140D	<1.0J
trans-1,2-Dichloroethene	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	<2.0D	<1.0	<1.0	<2.0D	<1.0
Trichloroethene	<1.0	130D	<10JD	2.4	1.3	<5.0JD	25D	1.2	<2.0D	3.7	<1.0J	6.5D	<1.0J
Vinyl chloride	<2.0	<200D	<20D	<2.0	<2.0	<10D	<10D	<2.0J	<4.0D	<2.0	6.7	<4.0D	<2.0J
m/p-xylene	<2.0	<200D	<20D	<2.0	<2.0	<10D	<10D	<2.0	5.7D	<2.0	2.4	<4.0D	<2.0
o-Xylene	<1.0	<100D	<10D	<1.0	<1.0	<5.0D	<5.0D	<1.0	8.3D	<1.0	1.1	<2.0D	<1.0
Xylene (total)	<2.0	<200D	<20D	<2.0	<2.0	<10D	<10D	<2.0	14D	<2.0	3.5	<4.0D	<2.0
TPH (mg/L)													
Fuel oil no. 2	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Metals (ug/L)													
Lead	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
< = Less than the laboratory reporting limit
ug/L = Micro grams per liter, parts per billion
mg/L = Milligrams per liter, parts per million
TPH = Total Petroleum Hydrocarbons
--- = Not analyzed for.
D = Result reported from a diluted sample.
J = Estimated value.

Table 4
Compliance Wells Analytical Results
June and August 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

Mashapaug Pond Compliance Wells				
Sample ID **Date Collected** **CONSTITUENT**	**GZA-3** **8/13/2013**	**GZA-3** **8/14/2013** **Duplicate**	**MW-109D** **8/13/2013**	**Compliance Standard[1]**
Metals (mg/L)				
Lead	<10J	<10J	<10J	0.03
VOCs (ug/L)				
1,1-Dichloroethane	1.1	NA	<1.0	50,000
1,1-Dichloroethene	<1.0J	NA	<1.0	50,000
cis-1,2-Dichloroethene	34	NA	<1.0	50,000
Methyl tert-butyl ether	4	NA	<1.0	50,000
Tetrachloroethene	<1.0	NA	<1.0	5,000
Trichloroethene	2.8	NA	<1.0J	20,000
Vinyl chloride	33	NA	<2.0	1,200

TPH Remediation Area Well			
Sample ID **Date Collected** **CONSTITUENT**	**CW-6** **8/13/2013**	**CW-6** **8/13/2013** **Duplicate**	**Compliance Standard[1]**
TPH (mg/L)	7.3	7.4	20

Sewer Interceptor Area Wells			
Sample ID **Date Collected** **CONSTITUENT**	**CW-1** **8/13/2013**	**CW-2** **8/13/2013**	**Compliance Standard[2]**
VOCs (ug/L)			
1,1,1-Trichloroethane	1.2	<1.0	68,000
1,1,2-Trichloroethane	1.1	<1.0	944,000
1,4-Dioxane	84	<50	51,478,000
1,1-Dichloroethane	17	<1.0	120,000
1,1-Dichloroethene	110	<1.0	23,000
1,2-Dichloroethane	3.7	<1.0	670,000
cis-1,2-Dichloroethene	360D	<1.0	69,000
trans-1,2-Dichloroethene	34	<1.0	79,000
Tetrachloroethene	290D	<1.0	NS
Trichloroethene	4700D	<1.0J	87,000
Methyltert-butylether	3.8	<1.0	204,000

Adelaide Avenue Wells						
Sample ID	**MW-112**	**MW-112**	**MW-209D**	**MW-218D**	**MW-218S**	**Compliance Standard[3]**
Date Collected	**6/21/2013**	**8/12/2013**	**8/13/2013**	**8/12/2013**	**8/12/2013**	
CONSTITUENT						
VOCs (ug/L)						
cis-1,2-Dichloroethene	<10JD	<20D	<5.0JD	<2.0D	2.5	2,400
1,1-Dichloroethene	<10D	<20D	<5.0D	<2.0D	<1.0J	7
Chloroform	<20D	<40JD	<10D	34D	<2.0	1,900
Tetrachloroethene	510D	3200D	320D	140D	<1.0J	150
Trichloroethene	75D	<20D	25D	6.5D	<1.0J	540
Vinyl chloride	<20D	<40D	<10D	<4.0D	<2.0J	2

Notes:

1. These Site specific compliance standards were taken from the approved RAWP dated April 1, 2001 and/or the RIDEM Remediation Regulations.
   Note: the standard for Methyl tert-butyl ether is the Massachusetts Department of Environmental Protection (MassDEP) Method 1 GW-3 standard (310 CMR 40.0974 (2), 12/14/07. The use of the MassDEP Method 1 GW-3 standard is consistent with the approach used in the April 1, 2001 RAWP.
2. These compliance standards taken from Table 5 - Upper Concentration Limits for GB Groundwater, RIDEM Remediation Regulations.
   For 1,1,2-Trichloroethane, 1,4-Dioxane, and Methyltert-butylether the compliance standard was calculated from the algorithm in Appendix F of the Remediation Regulations (see attached calculations).
3. These compliance standards taken from Table 4 -GB Groundwater Objectives of the RIDEM Remediation Regulations or in the case of vinyl chloride the compliance standard was taken from Table 3 of the Remediation Regulations and for chloroform the compliance standard was calculated from the algorithm in Appendix F of the Remediation Regulations (calculations attached as Appendix C of Status Report dated September 18, 2007).

mg/L - milligrams per liter
ug/L - micrograms per liter
< - Compound was not detected below the laboratory reporting limit, concentration shown is the reporting limit.
VOCs - volatile organic compounds
TPH - total petroleum hydrocarbons
D = Result reported from a diluted sample.
J = Estimated value
NA - Indicates that the analysis was not performed.
NS - Indicates that no applicable standard exists. Compound does not have a lower explosive limit (LEL).

FIGURES

LEGEND

MW-101S MONITORING WELL

N

GZA-6
GZA-3
MW-109D
GZA-5
CW-6
MW-220S
MW-221S
CW-2
CW-1
MW-217S
MW-217D
MW-206S
MW-206D
MW-204D
MW-204S
MW-207S
MW-207D
MW-202S
MW-214
MW-202D
MW-215
MW-208D
MW-208S
04IN02
MW-201S
MW-213
SB-2
MW-211
MW-101S
MW-201D
MW-210
MW-219B
MW-219A
MW-101D
04IS05
SB-1
MW-212
MW-203S
MW-203D
MW-205
04IS04
MW-218S
MW-218D
04IS03
04IS02
MW-209
MW-112
(CW-3)
MW-116D
MW-116S
MW-216D
MW-216S

STOP & SHOP SUPERMARKET

PROPOSED FUELING FACILITY

FUTURE DEVELOPMENT

80" COMBINED SEWER LINE

PROPERTY LINE ALONG CHAIN LINK FENCE

AMTRAK RIGHT OF WAY - 66' WIDE

NAIL FOUND

NAIL FOUND

DOWNING

30.00'

0 80 160

SCALE IN FEET

SHAW ENVIRONMENTAL, INC. (A CB&I COMPANY)

DATE 4/2/13
DWN J.O'D.
APP
REV
PROJECT NO. 101960

FIGURE 1
TEXTRON PROVIDENCE
333 ADELAIDE AVENUE
PROVIDENCE, RHODE ISLAND
SITE PLAN

1" 1/2" 0" 1"

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LEGEND

MW-101S — MONITORING WELL

SB-2 — SOIL BORING

04IS01 — INJECTION WELL

MW-204D
MW-204S
MW-207D
MW-207S
MW-206S
MW-206D
MW-201S
MW-201D
MW-202D
MW-202S
MW-208D
MW-208S
04IN03
04IN04
04IN02
04IN01
SB-2
MW-101S
MW-101D
04IS05
SB-1
MW-203S
MW-203D
MW-205
04IS04
04IS03
04IS02
MW-209D
04IS01
MW-112
(CW-3)
MW-116D
MW-116S
NAIL FOUND
NAIL FOUND
PROPOSED FUELING FACILITY
TREATMENT AREA
DOWNING
CC CC
24' (TYP.)
18'
9'
30'
30.00'

0 40 80

SCALE IN FEET

SHAW ENVIRONMENTAL, INC. (A CB&I COMPANY)

DATE 4/2/13
DWN J.O'D.
APP E.P.V.
REV
PROJECT NO. 101960

FIGURE 2
TEXTRON PROVIDENCE
333 ADELAIDE AVENUE
PROVIDENCE, RHODE ISLAND
INJECTION WELL LOCATIONS

1" 1/2" 0" 1"

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GB UPPER CONCENTRATON LIMIT CALCULATIONS

Method 2 GB Groundwater Objective Algorithm
Former Gorham Manufacturing Facility
Providence, Rhode Island

GB Groundwater Objective for 1,4-Dioxane

				Notes
Water Concentration	C_w	2,574	mg/l	Calculated from formula
Air Concentration	C_a	100.00	ppm	2010 NIOSH Pocket Guide to Chemical Hazards
		0.36	mg/l	
Temperature of Water	T	293	K	Constant
Solubility	WS	1000000	mg/l-water	2010 NIOSH Pocket Guide to Chemical Hazards (miscible)
Vapor Pressure	VP	29	mm Hg	2010 NIOSH Pocket Guide to Chemical Hazards
Molecular Weight	MW	88.1	g/mole	2010 NIOSH Pocket Guide to Chemical Hazards

Upper Concentration Limit for 1,4-Dioxane

Water Concentration	C_w	51,478	mg/l	Calculated from formula
Air Concentration	C_a	7.2	mg/l	Chemical Specific 10%LEL (see below)
Temperature of Water	T	293	K	Constant
Solubility	WS	1000000	mg/l-water	2010 NIOSH Pocket Guide to Chemical Hazards (miscible)
Vapor Pressure	VP	29	mm Hg	2010 NIOSH Pocket Guide to Chemical Hazards
Molecular Weight	MW	88.1	g/mole	2010 NIOSH Pocket Guide to Chemical Hazards

LEL	2	%	2010 NIOSH Pocket Guide to Chemical Hazards
	20000	ppm	(1% = 10,000 ppm)
10% LEL	2000	ppm	
Conversion Factor	3.6	mg/m3 per ppm	2010 NIOSH Pocket Guide to Chemical Hazards
10% LEL	7200	mg/m3	
	7.2	mg/l	

$$C_w = \frac{(C_a)(T)(WS)}{(VP)(MW)(16.04)}$$

Method 2 GB Groundwater Objective Algorithm
Former Gorham Manufacturing Facility
Providence, Rhode Island

GB Groundwater Objective for 1,1,2-Trichloroethane

				Notes
Water Concentration	C_w	1.5740	mg/l	Calculated from formula
Air Concentration	C_a	10.00	ppm	2010 NIOSH Pocket Guide to Chemical Hazards
		0.0546	mg/l	
Temperature of Water	T	293	K	Constant
Solubility	WS	4000	mg/l-water	2010 NIOSH Pocket Guide to Chemical Hazards
Vapor Pressure	VP	19	mm Hg	2010 NIOSH Pocket Guide to Chemical Hazards
Molecular Weight	MW	133.4	g/mole	2010 NIOSH Pocket Guide to Chemical Hazards

Upper Concentration Limit for 1,1,2-Trichloroethane

Water Concentration	C_w	944	mg/l	Calculated from formula
Air Concentration	C_a	32.8	mg/l	Chemical Specific 10%LEL (see below)
Temperature of Water	T	293	K	Constant
Solubility	WS	4000	mg/l-water	2010 NIOSH Pocket Guide to Chemical Hazards
Vapor Pressure	VP	19	mm Hg	2010 NIOSH Pocket Guide to Chemical Hazards
Molecular Weight	MW	133.4	g/mole	2010 NIOSH Pocket Guide to Chemical Hazards

LEL	6	%	2010 NIOSH Pocket Guide to Chemical Hazards
	60000	ppm	(1% = 10,000 ppm)
10% LEL	6000	ppm	
Conversion Factor	5.46	mg/m3 per ppm	2010 NIOSH Pocket Guide to Chemical Hazards
10% LEL	32760	mg/m3	
	32.8	mg/l	

$$C_w = \frac{(C_a)(T)(WS)}{(VP)(MW)(16.04)}$$

Method 2 GB Groundwater Objective Algorithm
Former Gorham Manufacturing Facility
Providence, Rhode Island

GB Groundwater Objective for MTBE

				Notes
Water Concentration	C_w	6.3883	mg/l	Calculated from formula
Air Concentration	C_a	50.00	ppm	Chemical Specific PEL (OSHA PEL not established), ACGIH-TLV-TWA
		0.1835	mg/l	
Temperature of Water	T	293	K	Constant
Solubility	WS	42000	mg/l-water	Chemical Specific (Mackay, Shui & Ma, Vol. 3, pg. 756)
Vapor Pressure	VP	250	mm Hg	Chemical Specific (Mackay, Shui & Ma, Vo. 3, pg. 757, ~33000 Pa)
Molecular Weight	MW	88.15	g/mole	Chemical Specific (Mackay, Shui & Ma, Vol. 3, pg. 756)

Upper Concentration Limit for MTBE

Water Concentration	C_w	204	mg/l	Calculated from formula
Air Concentration	C_a	5.9	mg/l	Chemical Specific 10%LEL (see below)
Temperature of Water	T	293	K	Constant
Solubility	WS	42000	mg/l-water	Chemical Specific (Mackay, Shui & Ma, Vol. 3, pg. 756)
Vapor Pressure	VP	250	mm Hg	Chemical Specific (Mackay, Shui & Ma, Vo. 3, pg. 757, ~33000 Pa)
Molecular Weight	MW	88.15	g/mole	Chemical Specific (Mackay, Shui & Ma, Vol. 3, pg. 756)

LEL	1.6	%	EPA Acute Exposuer Guideline Levels for MTBE
	16000	ppm	(1% = 10,000 ppm)
10% LEL	1600	ppm	
Conversion Factor	3.67	mg/m3 per ppm	Calculated from MW
10% LEL	5872	mg/m3	
	5.9	mg/l	

$$C_w = \frac{(C_a)(T)(WS)}{(VP)(MW)(16.04)}$$

LABORATORY REPORTS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 1, 2013

Edward Van Doren
Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 13F0820

Enclosed are results of analyses for samples received by the laboratory on June 24, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021
ATTN: Edward Van Doren

REPORT DATE: 7/1/2013

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13F0820

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-112	13F0820-01	Ground Water		SW-846 8260C	
MW-116D	13F0820-02	Ground Water		SW-846 8260C	
MW-116S	13F0820-03	Ground Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), Naphthalene

B075574-BS1, B075574-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, Acrylonitrile

B075574-BS1, B075574-BSD1

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

13F0820-01[MW-112]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane

13F0820-01[MW-112], 13F0820-02[MW-116D], 13F0820-03[MW-116S], B075574-BLK1, B075574-BS1, B075574-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13F0820-01[MW-112], 13F0820-02[MW-116D], 13F0820-03[MW-116S], B075574-BLK1, B075574-BS1, B075574-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), 2-Butanone (MEK), 2-Hexanone (MBK), 4-Methyl-2-pentanone (MIBK), Acrylonitrile, tert-Butyl Alcohol (TBA)

B075574-BS1, B075574-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13F0820

Date Received: 6/24/2013

Field Sample #: MW-112 | Sampled: 6/21/2013 06:00

Sample ID: 13F0820-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Benzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Bromodichloromethane	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Bromoform	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Bromomethane	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
n-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Carbon Disulfide	ND	40	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Chloroethane	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Chloroform	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Chloromethane	ND	20	µg/L	10	V-05	SW-846 8260C	6/26/13	6/28/13 7:29	EEH
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
cis-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
cis-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
trans-1,3-Dichloropropene	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13F0820

Date Received: 6/24/2013

Field Sample #: MW-112 | Sampled: 6/21/2013 06:00

Sample ID: 13F0820-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,4-Dioxane	ND	500	µg/L	10	V-16	SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Hexachlorobutadiene	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Naphthalene	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Styrene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1,1,2-Tetrachloroethane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Tetrachloroethylene	510	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Toluene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2,4-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Trichloroethylene	75	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH
o-Xylene	ND	10	µg/L	10		SW-846 8260C	6/26/13	6/28/13 7:29	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	97.3	70-130		6/28/13 7:29
Toluene-d8	103	70-130		6/28/13 7:29
4-Bromofluorobenzene	98.0	70-130		6/28/13 7:29

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13F0820

Date Received: 6/24/2013

Field Sample #: MW-116D | Sampled: 6/21/2013 06:30

Sample ID: 13F0820-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/26/13	6/28/13 5:44	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13F0820

Date Received: 6/24/2013

Field Sample #: MW-116D | Sampled: 6/21/2013 06:30

Sample ID: 13F0820-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 5:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	97.8	70-130		6/28/13 5:44
Toluene-d8	100	70-130		6/28/13 5:44
4-Bromofluorobenzene	102	70-130		6/28/13 5:44

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13F0820

Date Received: 6/24/2013

Field Sample #: MW-116S | Sampled: 6/21/2013 07:00

Sample ID: 13F0820-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	6/26/13	6/28/13 6:10	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13F0820

Date Received: 6/24/2013

Field Sample #: MW-116S | Sampled: 6/21/2013 07:00

Sample ID: 13F0820-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/26/13	6/28/13 6:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	98.2	70-130		6/28/13 6:10
Toluene-d8	100	70-130		6/28/13 6:10
4-Bromofluorobenzene	100	70-130		6/28/13 6:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13F0820-01 [MW-112]	B075574	0.5	5.00	06/26/13
13F0820-02 [MW-116D]	B075574	5	5.00	06/26/13
13F0820-03 [MW-116S]	B075574	5	5.00	06/26/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B075574 - SW-846 5035										
Blank (B075574-BLK1)				Prepared: 06/26/13 Analyzed: 06/28/13						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	2.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B075574 - SW-846 5035											
Blank (B075574-BLK1)				Prepared: 06/26/13 Analyzed: 06/28/13							
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	0.50	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.7*		µg/L	25.0		98.8	70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		99.9	70-130				
LCS (B075574-BS1)				Prepared: 06/26/13 Analyzed: 06/27/13							
Acetone	108	50	µg/L	100		108	70-160				†
Acrylonitrile	12.8	5.0	µg/L	10.0		128	70-130			V-20	
tert-Amyl Methyl Ether (TAME)	11.5	0.50	µg/L	10.0		115	70-130				
Benzene	9.66	1.0	µg/L	10.0		96.6	70-130				
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130				
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130				
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130				
Bromoform	10.7	1.0	µg/L	10.0		107	70-130				
Bromomethane	4.12	2.0	µg/L	10.0		41.2	40-160				†
2-Butanone (MEK)	129	20	µg/L	100		129	40-160			V-20	†
tert-Butyl Alcohol (TBA)	128	20	µg/L	100		128	40-160			V-20	†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
sec-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130				
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130				
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.0		116	70-130				
Carbon Disulfide	9.29	2.0	µg/L	10.0		92.9	70-130				
Carbon Tetrachloride	9.61	5.0	µg/L	10.0		96.1	70-130				
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130				
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105	70-130				
Chloroethane	8.33	2.0	µg/L	10.0		83.3	70-130				
Chloroform	10.2	2.0	µg/L	10.0		102	70-130				
Chloromethane	5.11	2.0	µg/L	10.0		51.1	40-160			V-05	†
2-Chlorotoluene	11.3	1.0	µg/L	10.0		113	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B075574 - SW-846 5035												
LCS (B075574-BS1)				Prepared: 06/26/13 Analyzed: 06/27/13								
4-Chlorotoluene	11.5	1.0	µg/L	10.0		115		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	14.0	5.0	µg/L	10.0		**140**	*	70-130			L-02, V-20	
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115		70-130				
Dibromomethane	11.0	1.0	µg/L	10.0		110		70-130				
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130				
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114		70-130				
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,4-Dichloro-2-butene	11.5	2.0	µg/L	10.0		115		70-130				
Dichlorodifluoromethane (Freon 12)	4.45	2.0	µg/L	10.0		44.5		40-160				†
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102		70-130				
1,2-Dichloroethane	9.46	1.0	µg/L	10.0		94.6		70-130				
1,1-Dichloroethylene	9.24	1.0	µg/L	10.0		92.4		70-130				
cis-1,2-Dichloroethylene	9.30	1.0	µg/L	10.0		93.0		70-130				
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103		70-130				
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105		70-130				
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111		70-130				
2,2-Dichloropropane	8.65	1.0	µg/L	10.0		86.5		40-130				†
1,1-Dichloropropene	9.89	2.0	µg/L	10.0		98.9		70-130				
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130				
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112		70-130				
Diethyl Ether	8.45	2.0	µg/L	10.0		84.5		70-130				
Diisopropyl Ether (DIPE)	11.7	0.50	µg/L	10.0		117		70-130				
1,4-Dioxane	122	50	µg/L	100		122		40-130			V-16	†
Ethylbenzene	10.5	1.0	µg/L	10.0		105		70-130				
Hexachlorobutadiene	10.7	0.50	µg/L	10.0		107		70-130				
2-Hexanone (MBK)	133	10	µg/L	100		133		70-160			V-20	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108		70-130				
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111		70-130				
Methyl tert-Butyl Ether (MTBE)	12.3	1.0	µg/L	10.0		123		70-130				
Methylene Chloride	10.9	5.0	µg/L	10.0		109		70-130				
4-Methyl-2-pentanone (MIBK)	125	10	µg/L	100		125		70-160			V-20	†
Naphthalene	13.8	0.50	µg/L	10.0		**138**	*	40-130			L-02	†
n-Propylbenzene	11.6	1.0	µg/L	10.0		116		70-130				
Styrene	10.7	1.0	µg/L	10.0		107		70-130				
1,1,1,2-Tetrachloroethane	10.3	1.0	µg/L	10.0		103		70-130				
1,1,2,2-Tetrachloroethane	12.1	0.50	µg/L	10.0		121		70-130				
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103		70-130				
Tetrahydrofuran	11.7	10	µg/L	10.0		117		70-130				
Toluene	10.4	1.0	µg/L	10.0		104		70-130				
1,2,3-Trichlorobenzene	14.1	5.0	µg/L	10.0		**141**	*	70-130			L-07	
1,2,4-Trichlorobenzene	11.6	1.0	µg/L	10.0		116		70-130				
1,3,5-Trichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
1,1,1-Trichloroethane	9.72	1.0	µg/L	10.0		97.2		70-130				
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106		70-130				
Trichloroethylene	9.85	1.0	µg/L	10.0		98.5		70-130				
Trichlorofluoromethane (Freon 11)	8.02	2.0	µg/L	10.0		80.2		70-130				
1,2,3-Trichloropropane	12.7	2.0	µg/L	10.0		127		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103		70-130				
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104		70-130				
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103		70-130				
Vinyl Chloride	6.28	2.0	µg/L	10.0		62.8		40-160				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B075574 - SW-846 5035												
LCS (B075574-BS1)				Prepared: 06/26/13 Analyzed: 06/27/13								
m+p Xylene	21.3	2.0	µg/L	20.0		107		70-130				
o-Xylene	11.2	1.0	µg/L	10.0		112		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.5		70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.4		70-130				
LCS Dup (B075574-BSD1)				Prepared: 06/26/13 Analyzed: 06/27/13								
Acetone	108	50	µg/L	100		108		70-160	0.102	25		†
Acrylonitrile	13.2	5.0	µg/L	10.0		**132**	*	70-130	2.99	25	L-07, V-20	
tert-Amyl Methyl Ether (TAME)	11.5	0.50	µg/L	10.0		115		70-130	0.348	25		
Benzene	9.70	1.0	µg/L	10.0		97.0		70-130	0.413	25		
Bromobenzene	10.9	1.0	µg/L	10.0		109		70-130	3.53	25		
Bromochloromethane	10.6	1.0	µg/L	10.0		106		70-130	1.05	25		
Bromodichloromethane	10.2	0.50	µg/L	10.0		102		70-130	1.08	25		
Bromoform	10.7	1.0	µg/L	10.0		107		70-130	0.0938	25		
Bromomethane	4.29	2.0	µg/L	10.0		42.9		40-160	4.04	25		†
2-Butanone (MEK)	127	20	µg/L	100		127		40-160	1.43	25	V-20	†
tert-Butyl Alcohol (TBA)	133	20	µg/L	100		133		40-160	3.94	25	V-20	†
n-Butylbenzene	9.99	1.0	µg/L	10.0		99.9		70-130	1.59	25		
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108		70-130	0.735	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130	0.861	25		
tert-Butyl Ethyl Ether (TBEE)	11.2	0.50	µg/L	10.0		112		70-130	4.21	25		
Carbon Disulfide	8.93	2.0	µg/L	10.0		89.3		70-130	3.95	25		
Carbon Tetrachloride	9.57	5.0	µg/L	10.0		95.7		70-130	0.417	25		
Chlorobenzene	11.1	1.0	µg/L	10.0		111		70-130	0.359	25		
Chlorodibromomethane	10.7	0.50	µg/L	10.0		107		70-130	1.42	25		
Chloroethane	7.84	2.0	µg/L	10.0		78.4		70-130	6.06	25		
Chloroform	9.79	2.0	µg/L	10.0		97.9		70-130	3.91	25		
Chloromethane	4.67	2.0	µg/L	10.0		46.7		40-160	9.00	25	V-05	†
2-Chlorotoluene	10.8	1.0	µg/L	10.0		108		70-130	3.98	25		
4-Chlorotoluene	11.6	1.0	µg/L	10.0		116		70-130	1.12	25		
1,2-Dibromo-3-chloropropane (DBCP)	13.4	5.0	µg/L	10.0		**134**	*	70-130	4.51	25	L-02, V-20	
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.0		118		70-130	2.32	25		
Dibromomethane	10.8	1.0	µg/L	10.0		108		70-130	1.92	25		
1,2-Dichlorobenzene	11.3	1.0	µg/L	10.0		113		70-130	1.61	25		
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111		70-130	2.76	25		
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130	1.18	25		
trans-1,4-Dichloro-2-butene	10.9	2.0	µg/L	10.0		109		70-130	4.73	25		
Dichlorodifluoromethane (Freon 12)	4.21	2.0	µg/L	10.0		42.1		40-160	5.54	25		†
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100		70-130	1.39	25		
1,2-Dichloroethane	9.20	1.0	µg/L	10.0		92.0		70-130	2.79	25		
1,1-Dichloroethylene	9.19	1.0	µg/L	10.0		91.9		70-130	0.543	25		
cis-1,2-Dichloroethylene	9.50	1.0	µg/L	10.0		95.0		70-130	2.13	25		
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100		70-130	2.76	25		
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100		70-130	4.97	25		
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111		70-130	0.270	25		
2,2-Dichloropropane	8.19	1.0	µg/L	10.0		81.9		40-130	5.46	25		†
1,1-Dichloropropene	9.94	2.0	µg/L	10.0		99.4		70-130	0.504	25		
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102		70-130	0.885	25		
trans-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113		70-130	0.888	25		
Diethyl Ether	8.69	2.0	µg/L	10.0		86.9		70-130	2.80	25		
Diisopropyl Ether (DIPE)	11.4	0.50	µg/L	10.0		114		70-130	2.78	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B075574 - SW-846 5035												
LCS Dup (B075574-BSD1)				Prepared: 06/26/13 Analyzed: 06/27/13								
1,4-Dioxane	127	50	µg/L	100		127		40-130	4.24	50	V-16	† ‡
Ethylbenzene	10.4	1.0	µg/L	10.0		104		70-130	0.862	25		
Hexachlorobutadiene	9.68	0.50	µg/L	10.0		96.8		70-130	9.73	25		
2-Hexanone (MBK)	135	10	µg/L	100		135		70-160	1.09	25	V-20	†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110		70-130	2.39	25		
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110		70-130	0.995	25		
Methyl tert-Butyl Ether (MTBE)	12.7	1.0	µg/L	10.0		127		70-130	3.19	25		
Methylene Chloride	10.8	5.0	µg/L	10.0		108		70-130	1.10	25		
4-Methyl-2-pentanone (MIBK)	130	10	µg/L	100		130		70-160	3.99	25	V-20	†
Naphthalene	13.6	0.50	µg/L	10.0		**136**	*	40-130	1.68	25	L-02	†
n-Propylbenzene	11.9	1.0	µg/L	10.0		119		70-130	2.82	25		
Styrene	11.0	1.0	µg/L	10.0		110		70-130	3.22	25		
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101		70-130	2.06	25		
1,1,2,2-Tetrachloroethane	12.6	0.50	µg/L	10.0		126		70-130	3.64	25		
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103		70-130	0.291	25		
Tetrahydrofuran	12.3	10	µg/L	10.0		123		70-130	5.00	25		
Toluene	10.4	1.0	µg/L	10.0		104		70-130	0.0958	25		
1,2,3-Trichlorobenzene	12.8	5.0	µg/L	10.0		128		70-130	9.74	25		
1,2,4-Trichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130	6.98	25		
1,3,5-Trichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	5.94	25		
1,1,1-Trichloroethane	9.76	1.0	µg/L	10.0		97.6		70-130	0.411	25		
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130	0.851	25		
Trichloroethylene	9.62	1.0	µg/L	10.0		96.2		70-130	2.36	25		
Trichlorofluoromethane (Freon 11)	7.81	2.0	µg/L	10.0		78.1		70-130	2.65	25		
1,2,3-Trichloropropane	12.9	2.0	µg/L	10.0		129		70-130	1.80	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.94	1.0	µg/L	10.0		99.4		70-130	3.46	25		
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103		70-130	0.966	25		
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105		70-130	1.44	25		
Vinyl Chloride	6.25	2.0	µg/L	10.0		62.5		40-160	0.479	25		†
m+p Xylene	21.5	2.0	µg/L	20.0		107		70-130	0.654	25		
o-Xylene	11.2	1.0	µg/L	10.0		112		70-130	0.446	25		
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101		70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101		70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Acetone	CT,NY,ME,NH,VA
Acrylonitrile	CT,NY,ME,NH,VA
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA
Benzene	CT,NY,ME,NH,VA
Bromochloromethane	NY,ME,NH,VA
Bromodichloromethane	CT,NY,ME,NH,VA
Bromoform	CT,NY,ME,NH,VA
Bromomethane	CT,NY,ME,NH,VA
2-Butanone (MEK)	CT,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA
n-Butylbenzene	NY,ME,VA
sec-Butylbenzene	NY,ME,VA
tert-Butylbenzene	NY,ME,VA
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA
Carbon Disulfide	CT,NY,ME,NH,VA
Carbon Tetrachloride	CT,NY,ME,NH,VA
Chlorobenzene	CT,NY,ME,NH,VA
Chlorodibromomethane	CT,NY,ME,NH,VA
Chloroethane	CT,NY,ME,NH,VA
Chloroform	CT,NY,ME,NH,VA
Chloromethane	CT,NY,ME,NH,VA
2-Chlorotoluene	NY,ME,NH,VA
4-Chlorotoluene	NY,ME,NH,VA
Dibromomethane	NY,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,ME,NH,VA
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA
1,1-Dichloroethane	CT,NY,ME,NH,VA
1,2-Dichloroethane	CT,NY,ME,NH,VA
1,1-Dichloroethylene	CT,NY,ME,NH,VA
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA
1,2-Dichloropropane	CT,NY,ME,NH,VA
1,3-Dichloropropane	NY,ME,VA
2,2-Dichloropropane	NY,ME,NH,VA
1,1-Dichloropropene	NY,ME,NH,VA
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Methylene Chloride	CT,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA
Naphthalene	NY,ME,NH,VA
n-Propylbenzene	CT,NY,ME,NH,VA
Styrene	CT,NY,ME,NH,VA
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA
Tetrachloroethylene	CT,NY,ME,NH,VA
Toluene	CT,NY,ME,NH,VA
1,2,3-Trichlorobenzene	NY,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA
1,1,2-Trichloroethane	CT,NY,ME,NH,VA
Trichloroethylene	CT,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA
1,2,3-Trichloropropane	NY,ME,NH,VA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA
1,2,4-Trimethylbenzene	NY,ME,VA
1,3,5-Trimethylbenzene	NY,ME,VA
Vinyl Chloride	CT,NY,ME,NH,VA
m+p Xylene	CT,NY,ME,NH,VA
o-Xylene	CT,NY,ME,NH,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13F0820

CHAIN OF CUSTODY RECORD

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
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www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Rev. 04.05.12

Company Name: Shaw Environmental, Inc. A CB&I Company
Address: 150 Royall St.
Canton, MA 02021
Attention: Ed Van Doren
Project Location: Providence, RI
Sampled By:

Telephone: 617-589-4030
Project #: 130274
Client PO#: 835493

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax #:
Email: Edward.VanDoren@CBI.com
Format: ☑ PDF ○ EXCEL ○ GIS
☑ OTHER GISKey format
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _ _ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Cont. Code	# of Containers	** Preservation	***Container Code	VOC (EPA 8260B)
-01	MW-112	6.21.13 0600	6.21.13 0600		✓	GW		3	H	V	
-02	MW-116D	6.21.13 0630	6.21.13 0630		✓			3	H	V	
-03	MW-116S	6.21.13 0700	6.21.13 0700		✓			3	H	V	

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments:
5 DAY TAT
DMG 6/24/13
2.9° 6/24/13 1750

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	6.21.13
Received by: (signature)	Date/Time:
	6/24/13
Relinquished by: (signature)	Date/Time:
	6/24/13
Received by: (signature)	Date/Time:
	6/24/13 1400

Turnaround †
☐ 7-Day
☑ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

6/24/13 1750

39 Spruce St.
East Longmeadow, MA. 01028
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F: 413-525-6405
www.contestlabs.com

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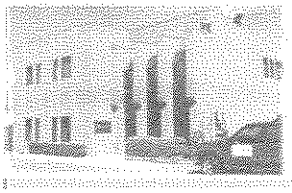

Sample Receipt Checklist

CLIENT NAME: Shaw Environmental, Inc RECEIVED BY: SMH DATE: 6/24/13

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.9°

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	9	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 9 # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

con-test®
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August 23, 2013

Edward Van Doren
Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021

Project Location: Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 13H0515

Enclosed are results of analyses for samples received by the laboratory on August 14, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Shaw Env. & Infrastructure - MA
150 Royall Street
Canton, MA 02021
ATTN: Edward Van Doren

REPORT DATE: 8/23/2013

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13H0515

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-101D	13H0515-01	Ground Water		SW-846 8260C	
MW-101S	13H0515-02	Ground Water		SW-846 8260C	
MW-101S Dup	13H0515-03	Ground Water		SW-846 8260C	
MW-112	13H0515-04	Ground Water		SW-846 8260C	
MW-116D	13H0515-05	Ground Water		SW-846 8260C	
MW-116S	13H0515-06	Ground Water		SW-846 8260C	
MW-201D	13H0515-07	Ground Water		SW-846 8260C	
MW-202D	13H0515-08	Ground Water		SW-846 8260C	
MW-202S	13H0515-09	Ground Water		SW-846 8260C	
MW-207D	13H0515-10	Ground Water		SW-846 8260C	
MW-207S	13H0515-11	Ground Water		SW-846 8260C	
MW-218S	13H0515-12	Ground Water		SW-846 8260C	
MW-218D	13H0515-13	Ground Water		SW-846 8260C	
MW-216D	13H0515-14	Ground Water		SW-846 8260C	
MW-216S	13H0515-15	Ground Water		SW-846 8260C	
MW-217D	13H0515-16	Ground Water		SW-846 8260C	
MW-217S	13H0515-17	Ground Water		SW-846 8260C	
CW-1	13H0515-18	Ground Water		SW-846 8260C	
CW-2	13H0515-19	Ground Water		SW-846 8260C	
MW-209D	13H0515-20	Ground Water		SW-846 8260C	
GZA-3	13H0515-21	Ground Water		SW-846 6010C	
				SW-846 8260C	
MW-109D	13H0515-22	Ground Water		SW-846 6010C	
				SW-846 8260C	
CW-6	13H0515-23	Ground Water		SW-846 8015C	
CW-6 Dup	13H0515-24	Ground Water		SW-846 8015C	
GZA-3 Dup	13H0515-25	Ground Water		SW-846 6010C	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8015C

Qualifications:

Sample contamination matches the range for #2 fuel oil, but it does not match the pattern.

Analyte & Samples(s) Qualified:

Fuel Oil #2

13H0515-23[CW-6], 13H0515-24[CW-6 Dup]

SW-846 8260C

Qualifications:

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

13H0515-15[MW-216S]

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B078840-BS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane, Tetrahydrofuran

13H0515-02[MW-101S], 13H0515-03[MW-101S Dup], 13H0515-04[MW-112], 13H0515-05[MW-116D], 13H0515-06[MW-116S], 13H0515-07[MW-201D], 13H0515-08[MW-202D], 13H0515-09[MW-202S], B078840-BLK1, B078840-BS1, B078840-BSD1, 13H0515-10[MW-207D], 13H0515- 11[MW-207S], 13H0515-12[MW-218S], 13H0515-13[MW-218D], 13H0515-14[MW-216D], 13H0515-15[MW-216S], 13H0515-16[MW-217D], B078843-BLK1, B078843-BS1, B078843-BSD1

Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.

Analyte & Samples(s) Qualified:

13H0515-01[MW-101D], 13H0515-04[MW-112], 13H0515-07[MW-201D], 13H0515-08[MW-202D], 13H0515-20[MW-209D]

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

13H0515-11[MW-207S], 13H0515-13[MW-218D]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,3,5-Trichlorobenzene, 1,4-Dioxane, Chloromethane, tert-Butyl Alcohol (TBA)

13H0515-01[MW-101D], 13H0515-17[MW-217S], 13H0515-19[CW-2], 13H0515-20[MW-209D], B079149-BLK1, B079149-BS1, B079149-BSD1, 13H0515-10[MW-207D], 13H0515-11[MW-207S], 13H0515-12[MW-218S], 13H0515-13[MW-218D], 13H0515-14[MW-216D], 13H0515-15[MW-216S], 13H0515-16[MW-217D], 13H0515-18[CW-1], 13H0515-21[GZA-3], 13H0515-22[MW-109D], B078843-BLK1, B078843-BS1, B078843-BSD1, B078938-BLK1, B078938-BS1, B078938-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane, tert-Butyl Alcohol (TBA)

13H0515-01[MW-101D], 13H0515-02[MW-101S], 13H0515-03[MW-101S Dup], 13H0515-04[MW- 112], 13H0515-05[MW-116D], 13H0515-06[MW-116S], 13H0515-07[MW-201D], 13H0515-08[MW-202D], 13H0515-09[MW-202S], 13H0515-10[MW-207D], 13H0515- 11[MW-207S], 13H0515-12[MW-218S], 13H0515-13[MW-218D], 13H0515-14[MW-216D], 13H0515-15[MW-216S], 13H0515-16[MW-217D], 13H0515-17[MW-217S], 13H0515-18[CW-1], 13H0515-19[CW-2], 13H0515-20[MW-209D], 13H0515-21[GZA-3], 13H0515-22[MW-109D], B078840-BLK1, B078840-BS1, B078840-BSD1, B078843-BLK1, B078843-BS1, B078843-BSD1, B078938-BLK1, B078938-BS1, B078938-BSD1, B079149-BLK1, B079149-BS1, B079149-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B078840-BS1, B078840-BSD1, B078938-BS1, B078938-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-101D | Sampled: 8/12/2013 10:00

Sample ID: 13H0515-01

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Benzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Bromodichloromethane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Bromomethane	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-16	SW-846 8260C	8/16/13	8/21/13 16:20	LBD
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Chloroethane	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Chloroform	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Chloromethane	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
cis-1,3-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
trans-1,3-Dichloropropene	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-101D | Sampled: 8/12/2013 10:00

Sample ID: 13H0515-01

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,4-Dioxane	ND	250	µg/L	5	V-05, V-16	SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Hexachlorobutadiene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Naphthalene	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Styrene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1,1,2-Tetrachloroethane	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Tetrachloroethylene	260	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Toluene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2,4-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5	V-05	SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Trichloroethylene	5.6	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	8/16/13	8/21/13 16:20	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	112	70-130		8/21/13 16:20
Toluene-d8	98.2	70-130		8/21/13 16:20
4-Bromofluorobenzene	96.4	70-130		8/21/13 16:20

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-101S | Sampled: 8/12/2013 09:15

Sample ID: 13H0515-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	8/15/13	8/19/13 14:56	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 14:56	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
cis-1,2-Dichloroethylene	10	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-101S | Sampled: 8/12/2013 09:15

Sample ID: 13H0515-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Tetrachloroethylene	25	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Trichloroethylene	1.1	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 14:56	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		8/19/13 14:56
Toluene-d8	98.7	70-130		8/19/13 14:56
4-Bromofluorobenzene	95.9	70-130		8/19/13 14:56

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-101S Dup | Sampled: 8/12/2013 09:30

Sample ID: 13H0515-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	8/15/13	8/19/13 15:27	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 15:27	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
cis-1,2-Dichloroethylene	10	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-101S Dup | Sampled: 8/12/2013 09:30

Sample ID: 13H0515-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Tetrachloroethylene	24	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:27	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		8/19/13 15:27
Toluene-d8	97.8	70-130		8/19/13 15:27
4-Bromofluorobenzene	96.1	70-130		8/19/13 15:27

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-112 | Sampled: 8/12/2013 12:45

Sample ID: 13H0515-04

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Benzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Bromodichloromethane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Bromoform	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Bromomethane	ND	40	µg/L	20	R-05	SW-846 8260C	8/15/13	8/19/13 21:36	LBD
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20	V-16	SW-846 8260C	8/15/13	8/19/13 21:36	LBD
n-Butylbenzene	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Chlorobenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Chloroethane	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Chloroform	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Chloromethane	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
cis-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
cis-1,3-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
trans-1,3-Dichloropropene	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-112 | Sampled: 8/12/2013 12:45

Sample ID: 13H0515-04

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,4-Dioxane	ND	1000	µg/L	20	V-16	SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Hexachlorobutadiene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Naphthalene	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Styrene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1,1,2-Tetrachloroethane	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Tetrachloroethylene	3200	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Toluene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2,4-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Trichloroethylene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
Vinyl Chloride	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD
o-Xylene	ND	20	µg/L	20		SW-846 8260C	8/15/13	8/19/13 21:36	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		8/19/13 21:36
Toluene-d8	99.4	70-130		8/19/13 21:36
4-Bromofluorobenzene	92.3	70-130		8/19/13 21:36

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-116D | Sampled: 8/12/2013 13:30

Sample ID: 13H0515-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	8/15/13	8/19/13 15:58	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 15:58	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-116D | Sampled: 8/12/2013 13:30

Sample ID: 13H0515-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 15:58	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		8/19/13 15:58
Toluene-d8	99.2	70-130		8/19/13 15:58
4-Bromofluorobenzene	94.9	70-130		8/19/13 15:58

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-116S | Sampled: 8/12/2013 14:00

Sample ID: 13H0515-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	8/15/13	8/19/13 16:28	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 16:28	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-116S | Sampled: 8/12/2013 14:00

Sample ID: 13H0515-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:28	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	106	70-130		8/19/13 16:28
Toluene-d8	99.8	70-130		8/19/13 16:28
4-Bromofluorobenzene	94.3	70-130		8/19/13 16:28

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-201D | Sampled: 8/12/2013 10:45

Sample ID: 13H0515-07

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Acrylonitrile	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Benzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Bromobenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Bromochloromethane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Bromodichloromethane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Bromoform	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Bromomethane	ND	200	µg/L	100	R-05	SW-846 8260C	8/15/13	8/19/13 20:35	LBD
2-Butanone (MEK)	ND	2000	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
tert-Butyl Alcohol (TBA)	ND	2000	µg/L	100	V-16	SW-846 8260C	8/15/13	8/19/13 20:35	LBD
n-Butylbenzene	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
sec-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
tert-Butylbenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Carbon Disulfide	ND	400	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Carbon Tetrachloride	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Chlorobenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Chlorodibromomethane	ND	50	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Chloroethane	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Chloroform	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Chloromethane	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
2-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
4-Chlorotoluene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2-Dibromoethane (EDB)	ND	50	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Dibromomethane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,3-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,4-Dichlorobenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
trans-1,4-Dichloro-2-butene	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2-Dichloroethane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
cis-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
trans-1,2-Dichloroethylene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,3-Dichloropropane	ND	50	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
2,2-Dichloropropane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1-Dichloropropene	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
cis-1,3-Dichloropropene	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
trans-1,3-Dichloropropene	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Diethyl Ether	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-201D | Sampled: 8/12/2013 10:45

Sample ID: 13H0515-07

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,4-Dioxane	ND	5000	µg/L	100	V-16	SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Ethylbenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Hexachlorobutadiene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
2-Hexanone (MBK)	ND	1000	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Isopropylbenzene (Cumene)	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Methylene Chloride	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Naphthalene	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
n-Propylbenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Styrene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1,1,2-Tetrachloroethane	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1,2,2-Tetrachloroethane	ND	50	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Tetrachloroethylene	6600	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Tetrahydrofuran	ND	1000	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Toluene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2,3-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2,4-Trichlorobenzene	ND	500	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,3,5-Trichlorobenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1,1-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1,2-Trichloroethane	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Trichloroethylene	130	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Trichlorofluoromethane (Freon 11)	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2,3-Trichloropropane	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,2,4-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
1,3,5-Trimethylbenzene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
Vinyl Chloride	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
m+p Xylene	ND	200	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD
o-Xylene	ND	100	µg/L	100		SW-846 8260C	8/15/13	8/19/13 20:35	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	107	70-130		8/19/13 20:35
Toluene-d8	99.4	70-130		8/19/13 20:35
4-Bromofluorobenzene	93.6	70-130		8/19/13 20:35

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-202D | Sampled: 8/12/2013 08:15

Sample ID: 13H0515-08

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Acrylonitrile	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
tert-Amyl Methyl Ether (TAME)	ND	5.0	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Benzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Bromobenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Bromochloromethane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Bromodichloromethane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Bromoform	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Bromomethane	ND	20	µg/L	10	R-05	SW-846 8260C	8/15/13	8/19/13 21:05	LBD
2-Butanone (MEK)	ND	200	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
tert-Butyl Alcohol (TBA)	ND	200	µg/L	10	V-16	SW-846 8260C	8/15/13	8/19/13 21:05	LBD
n-Butylbenzene	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
sec-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
tert-Butylbenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Carbon Disulfide	ND	40	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Carbon Tetrachloride	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Chlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Chlorodibromomethane	ND	5.0	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Chloroethane	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Chloroform	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Chloromethane	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
2-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
4-Chlorotoluene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Dibromomethane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,3-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,4-Dichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
trans-1,4-Dichloro-2-butene	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Dichlorodifluoromethane (Freon 12)	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2-Dichloroethane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
cis-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
trans-1,2-Dichloroethylene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,3-Dichloropropane	ND	5.0	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
2,2-Dichloropropane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
cis-1,3-Dichloropropene	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
trans-1,3-Dichloropropene	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Diethyl Ether	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-202D | Sampled: 8/12/2013 08:15

Sample ID: 13H0515-08

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,4-Dioxane	ND	500	µg/L	10	V-16	SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Ethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Hexachlorobutadiene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
2-Hexanone (MBK)	ND	100	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Isopropylbenzene (Cumene)	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
p-Isopropyltoluene (p-Cymene)	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Methylene Chloride	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
4-Methyl-2-pentanone (MIBK)	ND	100	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Naphthalene	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
n-Propylbenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Styrene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1,1,2-Tetrachloroethane	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Tetrachloroethylene	990	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Tetrahydrofuran	ND	100	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Toluene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2,3-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2,4-Trichlorobenzene	ND	50	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,3,5-Trichlorobenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1,1-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1,2-Trichloroethane	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Trichloroethylene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Trichlorofluoromethane (Freon 11)	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2,3-Trichloropropane	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,2,4-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
1,3,5-Trimethylbenzene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
Vinyl Chloride	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
m+p Xylene	ND	20	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD
o-Xylene	ND	10	µg/L	10		SW-846 8260C	8/15/13	8/19/13 21:05	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		8/19/13 21:05
Toluene-d8	98.7	70-130		8/19/13 21:05
4-Bromofluorobenzene	93.5	70-130		8/19/13 21:05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-202S | Sampled: 8/12/2013 07:45

Sample ID: 13H0515-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	8/15/13	8/19/13 16:59	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 16:59	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Chloroform	7.4	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
cis-1,2-Dichloroethylene	4.9	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-202S | Sampled: 8/12/2013 07:45

Sample ID: 13H0515-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Tetrachloroethylene	43	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Trichloroethylene	2.4	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/19/13 16:59	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		8/19/13 16:59
Toluene-d8	99.3	70-130		8/19/13 16:59
4-Bromofluorobenzene	97.0	70-130		8/19/13 16:59

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-207D | Sampled: 8/12/2013 06:30

Sample ID: 13H0515-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/16/13 2:49	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/15/13	8/16/13 2:49	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
cis-1,2-Dichloroethylene	2.1	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-207D | Sampled: 8/12/2013 06:30

Sample ID: 13H0515-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Tetrachloroethylene	74	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Tetrahydrofuran	ND	10	µg/L	1	R-05	SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Trichloroethylene	1.3	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 2:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	97.0	70-130		8/16/13 2:49
Toluene-d8	96.5	70-130		8/16/13 2:49
4-Bromofluorobenzene	102	70-130		8/16/13 2:49

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-207S | Sampled: 8/12/2013 07:00

Sample ID: 13H0515-11

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Bromomethane	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-16	SW-846 8260C	8/15/13	8/16/13 4:34	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Chloroform	11	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Chloromethane	ND	10	µg/L	5	V-05	SW-846 8260C	8/15/13	8/16/13 4:34	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
cis-1,2-Dichloroethylene	6.4	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-207S | Sampled: 8/12/2013 07:00

Sample ID: 13H0515-11

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,4-Dioxane	ND	250	µg/L	5	V-05, V-16	SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Hexachlorobutadiene	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Naphthalene	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Tetrachloroethylene	240	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Tetrahydrofuran	ND	50	µg/L	5	R-05	SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Trichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	8/15/13	8/16/13 4:34	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	97.1	70-130		8/16/13 4:34
Toluene-d8	102	70-130		8/16/13 4:34
4-Bromofluorobenzene	105	70-130		8/16/13 4:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-218S | Sampled: 8/12/2013 11:30

Sample ID: 13H0515-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/16/13 3:16	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/15/13	8/16/13 3:16	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
cis-1,2-Dichloroethylene	2.5	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-218S | Sampled: 8/12/2013 11:30

Sample ID: 13H0515-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Tetrahydrofuran	ND	10	µg/L	1	R-05	SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	99.0	70-130		8/16/13 3:16
Toluene-d8	104	70-130		8/16/13 3:16
4-Bromofluorobenzene	103	70-130		8/16/13 3:16

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-218D | Sampled: 8/12/2013 12:00

Sample ID: 13H0515-13

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Bromodichloromethane	3.8	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	V-16	SW-846 8260C	8/15/13	8/16/13 5:01	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Chloroform	34	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Chloromethane	ND	4.0	µg/L	2	V-05	SW-846 8260C	8/15/13	8/16/13 5:01	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-218D | Sampled: 8/12/2013 12:00

Sample ID: 13H0515-13

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,4-Dioxane	ND	100	µg/L	2	V-05, V-16	SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Hexachlorobutadiene	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Naphthalene	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Tetrachloroethylene	140	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Tetrahydrofuran	ND	20	µg/L	2	R-05	SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Trichloroethylene	6.5	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
m+p Xylene	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH
o-Xylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 5:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	101	70-130		8/16/13 5:01
Toluene-d8	99.1	70-130		8/16/13 5:01
4-Bromofluorobenzene	101	70-130		8/16/13 5:01

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-216D | Sampled: 8/12/2013 15:30

Sample ID: 13H0515-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/16/13 3:42	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/15/13	8/16/13 3:42	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-216D | Sampled: 8/12/2013 15:30

Sample ID: 13H0515-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Tetrahydrofuran	ND	10	µg/L	1	R-05	SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Trichloroethylene	1.2	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 3:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	98.7	70-130		8/16/13 3:42
Toluene-d8	105	70-130		8/16/13 3:42
4-Bromofluorobenzene	104	70-130		8/16/13 3:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-216S | Sampled: 8/12/2013 14:45

Sample ID: 13H0515-15

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Acrylonitrile	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Benzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Bromodichloromethane	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Bromoform	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Bromomethane	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
2-Butanone (MEK)	ND	40	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
tert-Butyl Alcohol (TBA)	ND	40	µg/L	2	V-16	SW-846 8260C	8/15/13	8/16/13 8:06	EEH
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Carbon Disulfide	ND	8.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Carbon Tetrachloride	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Chloromethane	ND	4.0	µg/L	2	V-05	SW-846 8260C	8/15/13	8/16/13 8:06	EEH
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
cis-1,2-Dichloroethylene	33	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
cis-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
trans-1,3-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-216S | Sampled: 8/12/2013 14:45

Sample ID: 13H0515-15

Sample Matrix: Ground Water

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,4-Dioxane	ND	100	µg/L	2	V-05, V-16	SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Ethylbenzene	2.4	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Hexachlorobutadiene	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
2-Hexanone (MBK)	ND	20	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Isopropylbenzene (Cumene)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Methylene Chloride	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Naphthalene	26	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
n-Propylbenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Styrene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Tetrachloroethylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Tetrahydrofuran	ND	20	µg/L	2	R-05	SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Toluene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2,3-Trichlorobenzene	ND	10	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,3,5-Trichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1,1-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1,2-Trichloroethane	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Trichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2,3-Trichloropropane	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,2,4-Trimethylbenzene	10	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
1,3,5-Trimethylbenzene	6.9	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
Vinyl Chloride	ND	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
m+p Xylene	5.7	4.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH
o-Xylene	8.3	2.0	µg/L	2		SW-846 8260C	8/15/13	8/16/13 8:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	98.0	70-130		8/16/13 8:06
Toluene-d8	95.4	70-130		8/16/13 8:06
4-Bromofluorobenzene	101	70-130		8/16/13 8:06

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-217D | Sampled: 8/13/2013 13:00

Sample ID: 13H0515-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/15/13	8/16/13 4:08	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/15/13	8/16/13 4:08	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
cis-1,2-Dichloroethylene	7.0	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-217D | Sampled: 8/13/2013 13:00

Sample ID: 13H0515-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Tetrahydrofuran	ND	10	µg/L	1	R-05	SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Trichloroethylene	3.7	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/15/13	8/16/13 4:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	100	70-130		8/16/13 4:08
Toluene-d8	102	70-130		8/16/13 4:08
4-Bromofluorobenzene	103	70-130		8/16/13 4:08

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-217S | Sampled: 8/13/2013 12:00

Sample ID: 13H0515-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/20/13	8/21/13 12:42	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
cis-1,2-Dichloroethylene	63	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-217S | Sampled: 8/13/2013 12:00

Sample ID: 13H0515-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Ethylbenzene	2.6	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Naphthalene	13	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
Vinyl Chloride	6.7	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
m+p Xylene	2.4	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD
o-Xylene	1.1	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 12:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		8/21/13 12:42
Toluene-d8	97.8	70-130		8/21/13 12:42
4-Bromofluorobenzene	96.0	70-130		8/21/13 12:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: CW-1 | Sampled: 8/13/2013 06:00

Sample ID: 13H0515-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	8/16/13	8/20/13 4:13	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1-Dichloroethane	17	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2-Dichloroethane	3.7	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1-Dichloroethylene	110	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
cis-1,2-Dichloroethylene	360	50	µg/L	50		SW-846 8260C	8/20/13	8/21/13 11:40	LBD
trans-1,2-Dichloroethylene	34	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: CW-1 | Sampled: 8/13/2013 06:00

Sample ID: 13H0515-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,4-Dioxane	84	50	µg/L	1	V-05, V-16	SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Methyl tert-Butyl Ether (MTBE)	3.8	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Tetrachloroethylene	290	50	µg/L	50		SW-846 8260C	8/20/13	8/21/13 11:40	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1,1-Trichloroethane	1.2	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1,2-Trichloroethane	1.1	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Trichloroethylene	4700	50	µg/L	50		SW-846 8260C	8/20/13	8/21/13 11:40	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 4:13	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		8/20/13 4:13
1,2-Dichloroethane-d4	100	70-130		8/21/13 11:40
Toluene-d8	99.6	70-130		8/21/13 11:40
Toluene-d8	101	70-130		8/20/13 4:13
4-Bromofluorobenzene	91.8	70-130		8/20/13 4:13
4-Bromofluorobenzene	95.6	70-130		8/21/13 11:40

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: CW-2 | Sampled: 8/13/2013 07:00

Sample ID: 13H0515-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	8/20/13	8/21/13 13:13	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: CW-2 | Sampled: 8/13/2013 07:00

Sample ID: 13H0515-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/20/13	8/21/13 13:13	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		8/21/13 13:13
Toluene-d8	98.2	70-130		8/21/13 13:13
4-Bromofluorobenzene	95.3	70-130		8/21/13 13:13

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-209D | Sampled: 8/13/2013 11:30

Sample ID: 13H0515-20

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Benzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Bromodichloromethane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Bromomethane	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-16	SW-846 8260C	8/20/13	8/21/13 16:51	LBD
n-Butylbenzene	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Chloroethane	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Chloroform	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Chloromethane	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
cis-1,3-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
trans-1,3-Dichloropropene	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-209D | Sampled: 8/13/2013 11:30

Sample ID: 13H0515-20

Sample Matrix: Ground Water

Sample Flags: RL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,4-Dioxane	ND	250	µg/L	5	V-05, V-16	SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Hexachlorobutadiene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Naphthalene	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Styrene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1,1,2-Tetrachloroethane	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Tetrachloroethylene	320	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Toluene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2,4-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5	V-05	SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Trichloroethylene	25	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	8/20/13	8/21/13 16:51	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	111	70-130		8/21/13 16:51
Toluene-d8	99.8	70-130		8/21/13 16:51
4-Bromofluorobenzene	94.4	70-130		8/21/13 16:51

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: GZA-3 | Sampled: 8/13/2013 10:30

Sample ID: 13H0515-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	8/16/13	8/20/13 5:45	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1-Dichloroethane	1.1	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
cis-1,2-Dichloroethylene	34	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: GZA-3 | Sampled: 8/13/2013 10:30

Sample ID: 13H0515-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Methyl tert-Butyl Ether (MTBE)	4.0	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Trichloroethylene	2.8	1.0	µg/L	1		SW-846 8260C	8/22/13	8/22/13 23:31	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
Vinyl Chloride	33	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 5:45	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	106	70-130		8/20/13 5:45
1,2-Dichloroethane-d4	113	70-130		8/22/13 23:31
Toluene-d8	99.4	70-130		8/20/13 5:45
Toluene-d8	98.2	70-130		8/22/13 23:31
4-Bromofluorobenzene	95.1	70-130		8/20/13 5:45
4-Bromofluorobenzene	97.1	70-130		8/22/13 23:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: GZA-3 | Sampled: 8/13/2013 10:30

Sample ID: 13H0515-21

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	8/15/13	8/17/13 16:05	OP

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-109D | Sampled: 8/13/2013 09:30

Sample ID: 13H0515-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	8/16/13	8/20/13 6:15	LBD
n-Butylbenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
trans-1,3-Dichloropropene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-109D | Sampled: 8/13/2013 09:30

Sample ID: 13H0515-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Hexachlorobutadiene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/22/13	8/23/13 0:02	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/16/13	8/20/13 6:15	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		8/20/13 6:15
1,2-Dichloroethane-d4	113	70-130		8/23/13 0:02
Toluene-d8	96.8	70-130		8/23/13 0:02
Toluene-d8	99.2	70-130		8/20/13 6:15
4-Bromofluorobenzene	93.9	70-130		8/20/13 6:15
4-Bromofluorobenzene	93.2	70-130		8/23/13 0:02

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Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: MW-109D | Sampled: 8/13/2013 09:30

Sample ID: 13H0515-22

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	8/15/13	8/17/13 16:39	OP

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Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: CW-6 | Sampled: 8/13/2013 08:00

Sample ID: 13H0515-23

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Fuel Oil #2	7.3	0.20	mg/L	1	Z-01	SW-846 8015C	8/19/13	8/22/13 1:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl	91.0	40-140		8/22/13 1:36

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Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: CW-6 Dup | Sampled: 8/13/2013 08:30

Sample ID: 13H0515-24

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Fuel Oil #2	7.4	0.20	mg/L	1	Z-01	SW-846 8015C	8/19/13	8/22/13 1:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl	83.3	40-140		8/22/13 1:54

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Project Location: Providence, RI | Sample Description: | Work Order: 13H0515

Date Received: 8/14/2013

Field Sample #: GZA-3 Dup | Sampled: 8/13/2013 10:30

Sample ID: 13H0515-25

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	8/15/13	8/17/13 16:43	OP

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Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0515-21 [GZA-3]	B078874	50.0	50.0	08/15/13
13H0515-22 [MW-109D]	B078874	50.0	50.0	08/15/13
13H0515-25 [GZA-3 Dup]	B078874	50.0	50.0	08/15/13

Prep Method: SW-846 3510C-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0515-23 [CW-6]	B079086	1000	1.00	08/19/13
13H0515-24 [CW-6 Dup]	B079086	1000	1.00	08/19/13

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0515-02 [MW-101S]	B078840	5	5.00	08/15/13
13H0515-03 [MW-101S Dup]	B078840	5	5.00	08/15/13
13H0515-04 [MW-112]	B078840	0.25	5.00	08/15/13
13H0515-05 [MW-116D]	B078840	5	5.00	08/15/13
13H0515-06 [MW-116S]	B078840	5	5.00	08/15/13
13H0515-07 [MW-201D]	B078840	0.05	5.00	08/15/13
13H0515-08 [MW-202D]	B078840	0.5	5.00	08/15/13
13H0515-09 [MW-202S]	B078840	5	5.00	08/15/13

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0515-10 [MW-207D]	B078843	5	5.00	08/15/13
13H0515-11 [MW-207S]	B078843	1	5.00	08/15/13
13H0515-12 [MW-218S]	B078843	5	5.00	08/15/13
13H0515-13 [MW-218D]	B078843	2.5	5.00	08/15/13
13H0515-14 [MW-216D]	B078843	5	5.00	08/15/13
13H0515-15 [MW-216S]	B078843	2.5	5.00	08/15/13
13H0515-16 [MW-217D]	B078843	5	5.00	08/15/13

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0515-18 [CW-1]	B078938	5	5.00	08/16/13
13H0515-21 [GZA-3]	B078938	5	5.00	08/16/13
13H0515-22 [MW-109D]	B078938	5	5.00	08/16/13

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0515-01 [MW-101D]	B079149	1	5.00	08/16/13
13H0515-17 [MW-217S]	B079149	5	5.00	08/20/13
13H0515-18RE1 [CW-1]	B079149	0.1	5.00	08/20/13
13H0515-19 [CW-2]	B079149	5	5.00	08/20/13
13H0515-20 [MW-209D]	B079149	1	5.00	08/20/13

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Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13H0515-21RE1 [GZA-3]	B079351	5	5.00	08/22/13
13H0515-22RE1 [MW-109D]	B079351	5	5.00	08/22/13

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B078840 - SW-846 5030B										
Blank (B078840-BLK1)				Prepared: 08/15/13 Analyzed: 08/19/13						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16
n-Butylbenzene	ND	5.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	2.0	µg/L							
trans-1,3-Dichloropropene	ND	5.0	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B078840 - SW-846 5030B												
Blank (B078840-BLK1)				Prepared: 08/15/13 Analyzed: 08/19/13								
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	5.0	µg/L									
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	5.0	µg/L									
1,2,4-Trichlorobenzene	ND	5.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103		70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3		70-130				
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.2		70-130				
LCS (B078840-BS1)				Prepared: 08/15/13 Analyzed: 08/19/13								
Acetone	102	50	µg/L	100		102		70-160				†
Acrylonitrile	8.96	5.0	µg/L	10.0		89.6		70-130				
tert-Amyl Methyl Ether (TAME)	11.4	0.50	µg/L	10.0		114		70-130				
Benzene	9.81	1.0	µg/L	10.0		98.1		70-130				
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromochloromethane	10.6	1.0	µg/L	10.0		106		70-130				
Bromodichloromethane	10.7	1.0	µg/L	10.0		107		70-130				
Bromoform	10.3	1.0	µg/L	10.0		103		70-130				
Bromomethane	3.31	2.0	µg/L	10.0		**33.1**	*	40-160			L-07A, R-05, V-20	†
2-Butanone (MEK)	101	20	µg/L	100		101		40-160				†
tert-Butyl Alcohol (TBA)	90.9	20	µg/L	100		90.9		40-160			V-16	†
n-Butylbenzene	9.46	5.0	µg/L	10.0		94.6		70-130				
sec-Butylbenzene	11.1	1.0	µg/L	10.0		111		70-130				
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107		70-130				
tert-Butyl Ethyl Ether (TBEE)	11.7	0.50	µg/L	10.0		117		70-130				
Carbon Disulfide	9.76	4.0	µg/L	10.0		97.6		70-130				
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103		70-130				
Chlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
Chlorodibromomethane	9.80	0.50	µg/L	10.0		98.0		70-130				
Chloroethane	10.8	2.0	µg/L	10.0		108		70-130				
Chloroform	10.9	2.0	µg/L	10.0		109		70-130				
Chloromethane	7.33	2.0	µg/L	10.0		73.3		40-160				†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078840 - SW-846 5030B											
LCS (B078840-BS1)				Prepared: 08/15/13 Analyzed: 08/19/13							
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130				
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130				
Dibromomethane	10.9	1.0	µg/L	10.0		109	70-130				
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130				
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130				
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130				
trans-1,4-Dichloro-2-butene	10.0	2.0	µg/L	10.0		100	70-130				
Dichlorodifluoromethane (Freon 12)	7.62	2.0	µg/L	10.0		76.2	40-160				†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130				
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130				
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130				
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130				
1,2-Dichloropropane	11.0	1.0	µg/L	10.0		110	70-130				
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130				
2,2-Dichloropropane	12.5	1.0	µg/L	10.0		125	40-130				†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130				
cis-1,3-Dichloropropene	9.92	2.0	µg/L	10.0		99.2	70-130				
trans-1,3-Dichloropropene	10.4	5.0	µg/L	10.0		104	70-130				
Diethyl Ether	10.3	2.0	µg/L	10.0		103	70-130				
Diisopropyl Ether (DIPE)	11.7	0.50	µg/L	10.0		117	70-130				
1,4-Dioxane	83.6	50	µg/L	100		83.6	40-130			V-16	†
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130				
Hexachlorobutadiene	10.8	1.0	µg/L	10.0		108	70-130				
2-Hexanone (MBK)	105	10	µg/L	100		105	70-160				†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106	70-130				
p-Isopropyltoluene (p-Cymene)	11.4	1.0	µg/L	10.0		114	70-130				
Methyl tert-Butyl Ether (MTBE)	11.5	1.0	µg/L	10.0		115	70-130				
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130				
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105	70-160				†
Naphthalene	11.2	5.0	µg/L	10.0		112	40-130				†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130				
Styrene	10.9	1.0	µg/L	10.0		109	70-130				
1,1,1,2-Tetrachloroethane	10.3	2.0	µg/L	10.0		103	70-130				
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130				
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
Tetrahydrofuran	10.7	10	µg/L	10.0		107	70-130				
Toluene	10.2	1.0	µg/L	10.0		102	70-130				
1,2,3-Trichlorobenzene	10.6	5.0	µg/L	10.0		106	70-130				
1,2,4-Trichlorobenzene	10.4	5.0	µg/L	10.0		104	70-130				
1,3,5-Trichlorobenzene	9.12	1.0	µg/L	10.0		91.2	70-130				
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130				
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130				
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.0		114	70-130				
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.2	1.0	µg/L	10.0		122	70-130				
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130				
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
Vinyl Chloride	8.58	2.0	µg/L	10.0		85.8	40-160				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B078840 - SW-846 5030B												
LCS (B078840-BS1)				Prepared: 08/15/13 Analyzed: 08/19/13								
m+p Xylene	21.3	2.0	µg/L	20.0		106	70-130					
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130					
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130					
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130					
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.4	70-130					
LCS Dup (B078840-BSD1)				Prepared: 08/15/13 Analyzed: 08/19/13								
Acetone	103	50	µg/L	100		103	70-160	1.26		25		†
Acrylonitrile	9.04	5.0	µg/L	10.0		90.4	70-130	0.889		25		
tert-Amyl Methyl Ether (TAME)	11.6	0.50	µg/L	10.0		116	70-130	1.48		25		
Benzene	9.86	1.0	µg/L	10.0		98.6	70-130	0.508		25		
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.43		25		
Bromochloromethane	11.1	1.0	µg/L	10.0		111	70-130	3.96		25		
Bromodichloromethane	10.8	1.0	µg/L	10.0		108	70-130	0.650		25		
Bromoform	10.4	1.0	µg/L	10.0		104	70-130	1.35		25		
Bromomethane	5.67	2.0	µg/L	10.0		56.7	40-160	**52.6**	*	25	R-05, V-20	†
2-Butanone (MEK)	99.2	20	µg/L	100		99.2	40-160	1.51		25		†
tert-Butyl Alcohol (TBA)	91.5	20	µg/L	100		91.5	40-160	0.713		25	V-16	†
n-Butylbenzene	9.57	5.0	µg/L	10.0		95.7	70-130	1.16		25		
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130	0.540		25		
tert-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130	2.04		25		
tert-Butyl Ethyl Ether (TBEE)	11.7	0.50	µg/L	10.0		117	70-130	0.684		25		
Carbon Disulfide	9.50	4.0	µg/L	10.0		95.0	70-130	2.70		25		
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130	0.195		25		
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	1.18		25		
Chlorodibromomethane	9.78	0.50	µg/L	10.0		97.8	70-130	0.204		25		
Chloroethane	10.9	2.0	µg/L	10.0		109	70-130	0.735		25		
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	0.00		25		
Chloromethane	7.45	2.0	µg/L	10.0		74.5	40-160	1.62		25		†
2-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130	5.34		25		
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	2.92		25		
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111	70-130	4.05		25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130	0.649		25		
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130	0.365		25		
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.665		25		
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.92		25		
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.28		25		
trans-1,4-Dichloro-2-butene	10.5	2.0	µg/L	10.0		105	70-130	5.26		25		
Dichlorodifluoromethane (Freon 12)	7.42	2.0	µg/L	10.0		74.2	40-160	2.66		25		†
1,1-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130	0.731		25		
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130	1.18		25		
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	1.26		25		
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	1.11		25		
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	1.56		25		
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	70-130	1.47		25		
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110	70-130	0.0911		25		
2,2-Dichloropropane	12.4	1.0	µg/L	10.0		124	40-130	1.12		25		†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130	0.0937		25		
cis-1,3-Dichloropropene	9.87	2.0	µg/L	10.0		98.7	70-130	0.505		25		
trans-1,3-Dichloropropene	10.1	5.0	µg/L	10.0		101	70-130	2.64		25		
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130	1.63		25		
Diisopropyl Ether (DIPE)	11.9	0.50	µg/L	10.0		119	70-130	1.27		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078840 - SW-846 5030B											
LCS Dup (B078840-BSD1)				Prepared: 08/15/13 Analyzed: 08/19/13							
1,4-Dioxane	84.0	50	µg/L	100		84.0	40-130	0.501	50	V-16	† ‡
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.24	25		
Hexachlorobutadiene	11.3	1.0	µg/L	10.0		113	70-130	4.08	25		
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160	1.00	25		†
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.0		110	70-130	3.25	25		
p-Isopropyltoluene (p-Cymene)	11.4	1.0	µg/L	10.0		114	70-130	0.526	25		
Methyl tert-Butyl Ether (MTBE)	11.7	1.0	µg/L	10.0		117	70-130	1.56	25		
Methylene Chloride	11.7	5.0	µg/L	10.0		117	70-130	2.86	25		
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100		106	70-160	1.45	25		†
Naphthalene	11.4	5.0	µg/L	10.0		114	40-130	1.15	25		†
n-Propylbenzene	11.2	1.0	µg/L	10.0		112	70-130	3.35	25		
Styrene	11.1	1.0	µg/L	10.0		111	70-130	2.37	25		
1,1,1,2-Tetrachloroethane	10.4	2.0	µg/L	10.0		104	70-130	1.54	25		
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130	3.40	25		
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130	1.01	25		
Tetrahydrofuran	10.5	10	µg/L	10.0		105	70-130	1.88	25		
Toluene	10.2	1.0	µg/L	10.0		102	70-130	0.00	25		
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108	70-130	2.43	25		
1,2,4-Trichlorobenzene	10.8	5.0	µg/L	10.0		108	70-130	3.77	25		
1,3,5-Trichlorobenzene	9.38	1.0	µg/L	10.0		93.8	70-130	2.81	25		
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	1.01	25		
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130	1.03	25		
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	2.51	25		
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0		111	70-130	2.39	25		
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0		107	70-130	3.70	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.2	1.0	µg/L	10.0		122	70-130	0.328	25		
1,2,4-Trimethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	1.81	25		
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.21	25		
Vinyl Chloride	8.18	2.0	µg/L	10.0		81.8	40-160	4.77	25		†
m+p Xylene	21.4	2.0	µg/L	20.0		107	70-130	0.702	25		
o-Xylene	10.9	1.0	µg/L	10.0		109	70-130	2.14	25		
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		102	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100	70-130				
Batch B078843 - SW-846 5030B											
Blank (B078843-BLK1)				Prepared & Analyzed: 08/15/13							
Acetone	ND	50	µg/L								
Acrylonitrile	ND	5.0	µg/L								
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L								
Benzene	ND	1.0	µg/L								
Bromobenzene	ND	1.0	µg/L								
Bromochloromethane	ND	1.0	µg/L								
Bromodichloromethane	ND	0.50	µg/L								
Bromoform	ND	1.0	µg/L								
Bromomethane	ND	2.0	µg/L								
2-Butanone (MEK)	ND	20	µg/L								
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16	
n-Butylbenzene	ND	1.0	µg/L								
sec-Butylbenzene	ND	1.0	µg/L								
tert-Butylbenzene	ND	1.0	µg/L								

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B078843 - SW-846 5030B										
Blank (B078843-BLK1)				Prepared & Analyzed: 08/15/13						
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-05, V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							R-05
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078843 - SW-846 5030B											
Blank (B078843-BLK1)				Prepared & Analyzed: 08/15/13							
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.3	70-130				
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130				
LCS (B078843-BS1)				Prepared & Analyzed: 08/15/13							
Acetone	78.7	50	µg/L	100		78.7	70-160				†
Acrylonitrile	9.06	5.0	µg/L	10.0		90.6	70-130				
tert-Amyl Methyl Ether (TAME)	9.50	0.50	µg/L	10.0		95.0	70-130				
Benzene	9.16	1.0	µg/L	10.0		91.6	70-130				
Bromobenzene	9.50	1.0	µg/L	10.0		95.0	70-130				
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130				
Bromodichloromethane	9.51	0.50	µg/L	10.0		95.1	70-130				
Bromoform	7.89	1.0	µg/L	10.0		78.9	70-130				
Bromomethane	4.02	2.0	µg/L	10.0		40.2	40-160				†
2-Butanone (MEK)	78.8	20	µg/L	100		78.8	40-160				†
tert-Butyl Alcohol (TBA)	93.8	20	µg/L	100		93.8	40-160			V-16	†
n-Butylbenzene	9.27	1.0	µg/L	10.0		92.7	70-130				
sec-Butylbenzene	9.95	1.0	µg/L	10.0		99.5	70-130				
tert-Butylbenzene	9.00	1.0	µg/L	10.0		90.0	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0		104	70-130				
Carbon Disulfide	9.41	4.0	µg/L	10.0		94.1	70-130				
Carbon Tetrachloride	9.02	5.0	µg/L	10.0		90.2	70-130				
Chlorobenzene	9.97	1.0	µg/L	10.0		99.7	70-130				
Chlorodibromomethane	9.23	0.50	µg/L	10.0		92.3	70-130				
Chloroethane	8.99	2.0	µg/L	10.0		89.9	70-130				
Chloroform	9.79	2.0	µg/L	10.0		97.9	70-130				
Chloromethane	4.26	2.0	µg/L	10.0		42.6	40-160			V-05	†
2-Chlorotoluene	10.0	1.0	µg/L	10.0		100	70-130				
4-Chlorotoluene	10.3	1.0	µg/L	10.0		103	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.45	5.0	µg/L	10.0		94.5	70-130				
1,2-Dibromoethane (EDB)	9.91	0.50	µg/L	10.0		99.1	70-130				
Dibromomethane	9.91	1.0	µg/L	10.0		99.1	70-130				
1,2-Dichlorobenzene	9.55	1.0	µg/L	10.0		95.5	70-130				
1,3-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130				
1,4-Dichlorobenzene	8.78	1.0	µg/L	10.0		87.8	70-130				
trans-1,4-Dichloro-2-butene	8.15	2.0	µg/L	10.0		81.5	70-130				
Dichlorodifluoromethane (Freon 12)	6.77	2.0	µg/L	10.0		67.7	40-160				†
1,1-Dichloroethane	9.88	1.0	µg/L	10.0		98.8	70-130				
1,2-Dichloroethane	8.65	1.0	µg/L	10.0		86.5	70-130				
1,1-Dichloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130				
cis-1,2-Dichloroethylene	9.02	1.0	µg/L	10.0		90.2	70-130				
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078843 - SW-846 5030B											
LCS (B078843-BS1)				Prepared & Analyzed: 08/15/13							
1,2-Dichloropropane	9.92	1.0	µg/L	10.0		99.2	70-130				
1,3-Dichloropropane	10.0	0.50	µg/L	10.0		100	70-130				
2,2-Dichloropropane	9.15	1.0	µg/L	10.0		91.5	40-130				†
1,1-Dichloropropene	9.54	2.0	µg/L	10.0		95.4	70-130				
cis-1,3-Dichloropropene	9.68	0.50	µg/L	10.0		96.8	70-130				
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130				
Diethyl Ether	9.05	2.0	µg/L	10.0		90.5	70-130				
Diisopropyl Ether (DIPE)	10.9	0.50	µg/L	10.0		109	70-130				
1,4-Dioxane	64.4	50	µg/L	100		64.4	40-130			V-05, V-16	†
Ethylbenzene	9.46	1.0	µg/L	10.0		94.6	70-130				
Hexachlorobutadiene	9.00	0.50	µg/L	10.0		90.0	70-130				
2-Hexanone (MBK)	85.8	10	µg/L	100		85.8	70-160				†
Isopropylbenzene (Cumene)	9.76	1.0	µg/L	10.0		97.6	70-130				
p-Isopropyltoluene (p-Cymene)	9.93	1.0	µg/L	10.0		99.3	70-130				
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.0		103	70-130				
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130				
4-Methyl-2-pentanone (MIBK)	85.1	10	µg/L	100		85.1	70-160				†
Naphthalene	10.2	2.0	µg/L	10.0		102	40-130				†
n-Propylbenzene	10.5	1.0	µg/L	10.0		105	70-130				
Styrene	9.71	1.0	µg/L	10.0		97.1	70-130				
1,1,1,2-Tetrachloroethane	9.14	1.0	µg/L	10.0		91.4	70-130				
1,1,2,2-Tetrachloroethane	9.07	0.50	µg/L	10.0		90.7	70-130				
Tetrachloroethylene	9.51	1.0	µg/L	10.0		95.1	70-130				
Tetrahydrofuran	8.76	10	µg/L	10.0		87.6	70-130			R-05	
Toluene	9.94	1.0	µg/L	10.0		99.4	70-130				
1,2,3-Trichlorobenzene	11.2	5.0	µg/L	10.0		112	70-130				
1,2,4-Trichlorobenzene	9.35	1.0	µg/L	10.0		93.5	70-130				
1,3,5-Trichlorobenzene	9.19	1.0	µg/L	10.0		91.9	70-130				
1,1,1-Trichloroethane	9.27	1.0	µg/L	10.0		92.7	70-130				
1,1,2-Trichloroethane	9.17	1.0	µg/L	10.0		91.7	70-130				
Trichloroethylene	9.18	1.0	µg/L	10.0		91.8	70-130				
Trichlorofluoromethane (Freon 11)	9.48	2.0	µg/L	10.0		94.8	70-130				
1,2,3-Trichloropropane	8.96	2.0	µg/L	10.0		89.6	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130				
1,2,4-Trimethylbenzene	8.99	1.0	µg/L	10.0		89.9	70-130				
1,3,5-Trimethylbenzene	9.16	1.0	µg/L	10.0		91.6	70-130				
Vinyl Chloride	8.46	2.0	µg/L	10.0		84.6	40-160				†
m+p Xylene	19.1	2.0	µg/L	20.0		95.4	70-130				
o-Xylene	9.84	1.0	µg/L	10.0		98.4	70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.0		97.7	70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103	70-130				
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078843 - SW-846 5030B											
LCS Dup (B078843-BSD1)				Prepared & Analyzed: 08/15/13							
Acetone	91.7	50	µg/L	100		91.7	70-160	15.3	25		†
Acrylonitrile	10.3	5.0	µg/L	10.0		103	70-130	12.4	25		
tert-Amyl Methyl Ether (TAME)	10.7	0.50	µg/L	10.0		107	70-130	12.1	25		
Benzene	9.64	1.0	µg/L	10.0		96.4	70-130	5.11	25		
Bromobenzene	9.85	1.0	µg/L	10.0		98.5	70-130	3.62	25		
Bromochloromethane	11.0	1.0	µg/L	10.0		110	70-130	5.21	25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130	5.72	25		
Bromoform	8.39	1.0	µg/L	10.0		83.9	70-130	6.14	25		
Bromomethane	4.37	2.0	µg/L	10.0		43.7	40-160	8.34	25		†
2-Butanone (MEK)	94.4	20	µg/L	100		94.4	40-160	18.0	25		†
tert-Butyl Alcohol (TBA)	111	20	µg/L	100		111	40-160	16.6	25	V-16	†
n-Butylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130	5.46	25		
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	2.29	25		
tert-Butylbenzene	9.50	1.0	µg/L	10.0		95.0	70-130	5.41	25		
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107	70-130	2.75	25		
Carbon Disulfide	9.49	4.0	µg/L	10.0		94.9	70-130	0.847	25		
Carbon Tetrachloride	9.45	5.0	µg/L	10.0		94.5	70-130	4.66	25		
Chlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.20	25		
Chlorodibromomethane	9.36	0.50	µg/L	10.0		93.6	70-130	1.40	25		
Chloroethane	9.47	2.0	µg/L	10.0		94.7	70-130	5.20	25		
Chloroform	10.2	2.0	µg/L	10.0		102	70-130	3.71	25		
Chloromethane	4.23	2.0	µg/L	10.0		42.3	40-160	0.707	25	V-05	†
2-Chlorotoluene	10.0	1.0	µg/L	10.0		100	70-130	0.200	25		
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	0.387	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.0		104	70-130	10.1	25		
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	1.60	25		
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130	4.05	25		
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	6.78	25		
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	3.47	25		
1,4-Dichlorobenzene	9.29	1.0	µg/L	10.0		92.9	70-130	5.64	25		
trans-1,4-Dichloro-2-butene	8.41	2.0	µg/L	10.0		84.1	70-130	3.14	25		
Dichlorodifluoromethane (Freon 12)	7.02	2.0	µg/L	10.0		70.2	40-160	3.63	25		†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	6.56	25		
1,2-Dichloroethane	9.02	1.0	µg/L	10.0		90.2	70-130	4.19	25		
1,1-Dichloroethylene	9.94	1.0	µg/L	10.0		99.4	70-130	0.605	25		
cis-1,2-Dichloroethylene	9.41	1.0	µg/L	10.0		94.1	70-130	4.23	25		
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130	7.43	25		
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130	6.16	25		
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	1.29	25		
2,2-Dichloropropane	9.11	1.0	µg/L	10.0		91.1	40-130	0.438	25		†
1,1-Dichloropropene	9.62	2.0	µg/L	10.0		96.2	70-130	0.835	25		
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130	4.25	25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130	2.10	25		
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130	10.7	25		
Diisopropyl Ether (DIPE)	11.8	0.50	µg/L	10.0		118	70-130	7.40	25		
1,4-Dioxane	80.2	50	µg/L	100		80.2	40-130	21.9	50	V-05, V-16	† ‡
Ethylbenzene	9.24	1.0	µg/L	10.0		92.4	70-130	2.35	25		
Hexachlorobutadiene	9.55	0.50	µg/L	10.0		95.5	70-130	5.93	25		
2-Hexanone (MBK)	97.7	10	µg/L	100		97.7	70-160	13.0	25		†
Isopropylbenzene (Cumene)	9.73	1.0	µg/L	10.0		97.3	70-130	0.308	25		
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101	70-130	2.09	25		
Methyl tert-Butyl Ether (MTBE)	11.4	1.0	µg/L	10.0		114	70-130	9.70	25		

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B078843 - SW-846 5030B												
LCS Dup (B078843-BSD1)				Prepared & Analyzed: 08/15/13								
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130	4.84		25		
4-Methyl-2-pentanone (MIBK)	97.8	10	µg/L	100		97.8	70-160	13.9		25		†
Naphthalene	11.5	2.0	µg/L	10.0		115	40-130	12.0		25		†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.569		25		
Styrene	9.60	1.0	µg/L	10.0		96.0	70-130	1.14		25		
1,1,1,2-Tetrachloroethane	9.29	1.0	µg/L	10.0		92.9	70-130	1.63		25		
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	10.5		25		
Tetrachloroethylene	9.17	1.0	µg/L	10.0		91.7	70-130	3.64		25		
Tetrahydrofuran	11.6	10	µg/L	10.0		116	70-130	**27.7**	*	25	R-05	
Toluene	9.61	1.0	µg/L	10.0		96.1	70-130	3.38		25		
1,2,3-Trichlorobenzene	12.2	5.0	µg/L	10.0		122	70-130	8.75		25		
1,2,4-Trichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	14.9		25		
1,3,5-Trichlorobenzene	9.78	1.0	µg/L	10.0		97.8	70-130	6.22		25		
1,1,1-Trichloroethane	9.33	1.0	µg/L	10.0		93.3	70-130	0.645		25		
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130	9.75		25		
Trichloroethylene	9.26	1.0	µg/L	10.0		92.6	70-130	0.868		25		
Trichlorofluoromethane (Freon 11)	9.45	2.0	µg/L	10.0		94.5	70-130	0.317		25		
1,2,3-Trichloropropane	9.75	2.0	µg/L	10.0		97.5	70-130	8.44		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107	70-130	1.70		25		
1,2,4-Trimethylbenzene	9.38	1.0	µg/L	10.0		93.8	70-130	4.25		25		
1,3,5-Trimethylbenzene	9.31	1.0	µg/L	10.0		93.1	70-130	1.62		25		
Vinyl Chloride	8.51	2.0	µg/L	10.0		85.1	40-160	0.589		25		†
m+p Xylene	19.0	2.0	µg/L	20.0		95.2	70-130	0.210		25		
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	3.79		25		
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		103	70-130					
Surrogate: Toluene-d8	*25.9*		µg/L	25.0		104	70-130					
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100	70-130					
Batch B078938 - SW-846 5030B												
Blank (B078938-BLK1)				Prepared: 08/16/13 Analyzed: 08/20/13								
Acetone	ND	50	µg/L									
Acrylonitrile	ND	5.0	µg/L									
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L									
Benzene	ND	1.0	µg/L									
Bromobenzene	ND	1.0	µg/L									
Bromochloromethane	ND	1.0	µg/L									
Bromodichloromethane	ND	1.0	µg/L									
Bromoform	ND	1.0	µg/L									
Bromomethane	ND	2.0	µg/L									
2-Butanone (MEK)	ND	20	µg/L									
tert-Butyl Alcohol (TBA)	ND	20	µg/L								V-05, V-16	
n-Butylbenzene	ND	5.0	µg/L									
sec-Butylbenzene	ND	1.0	µg/L									
tert-Butylbenzene	ND	1.0	µg/L									
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L									
Carbon Disulfide	ND	4.0	µg/L									
Carbon Tetrachloride	ND	5.0	µg/L									
Chlorobenzene	ND	1.0	µg/L									
Chlorodibromomethane	ND	0.50	µg/L									
Chloroethane	ND	2.0	µg/L									
Chloroform	ND	2.0	µg/L									

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B078938 - SW-846 5030B										
Blank (B078938-BLK1)				Prepared: 08/16/13 Analyzed: 08/20/13						
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	2.0	µg/L							
trans-1,3-Dichloropropene	ND	5.0	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-05, V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078938 - SW-846 5030B											
Blank (B078938-BLK1)				Prepared: 08/16/13 Analyzed: 08/20/13							
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.6*		µg/L	25.0		106	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.6	70-130				
Surrogate: 4-Bromofluorobenzene	*23.1*		µg/L	25.0		92.5	70-130				
LCS (B078938-BS1)				Prepared: 08/16/13 Analyzed: 08/20/13							
Acetone	82.1	50	µg/L	100		82.1	70-160				†
Acrylonitrile	8.22	5.0	µg/L	10.0		82.2	70-130				
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130				
Benzene	9.36	1.0	µg/L	10.0		93.6	70-130				
Bromobenzene	9.70	1.0	µg/L	10.0		97.0	70-130				
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130				
Bromodichloromethane	10.2	1.0	µg/L	10.0		102	70-130				
Bromoform	9.34	1.0	µg/L	10.0		93.4	70-130				
Bromomethane	4.78	2.0	µg/L	10.0		47.8	40-160			V-20	†
2-Butanone (MEK)	85.4	20	µg/L	100		85.4	40-160				†
tert-Butyl Alcohol (TBA)	68.4	20	µg/L	100		68.4	40-160			V-05, V-16	†
n-Butylbenzene	8.61	5.0	µg/L	10.0		86.1	70-130				
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130				
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107	70-130				
Carbon Disulfide	8.29	4.0	µg/L	10.0		82.9	70-130				
Carbon Tetrachloride	9.35	5.0	µg/L	10.0		93.5	70-130				
Chlorobenzene	9.65	1.0	µg/L	10.0		96.5	70-130				
Chlorodibromomethane	9.12	0.50	µg/L	10.0		91.2	70-130				
Chloroethane	10.3	2.0	µg/L	10.0		103	70-130				
Chloroform	10.9	2.0	µg/L	10.0		109	70-130				
Chloromethane	7.08	2.0	µg/L	10.0		70.8	40-160				†
2-Chlorotoluene	9.95	1.0	µg/L	10.0		99.5	70-130				
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.57	5.0	µg/L	10.0		95.7	70-130				
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130				
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130				
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130				
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
trans-1,4-Dichloro-2-butene	8.56	2.0	µg/L	10.0		85.6	70-130				
Dichlorodifluoromethane (Freon 12)	6.57	2.0	µg/L	10.0		65.7	40-160				†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130				
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130				
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130				
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130				
trans-1,2-Dichloroethylene	9.67	1.0	µg/L	10.0		96.7	70-130				
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130				
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130				
2,2-Dichloropropane	8.47	1.0	µg/L	10.0		84.7	40-130				†
1,1-Dichloropropene	9.90	2.0	µg/L	10.0		99.0	70-130				
cis-1,3-Dichloropropene	8.46	2.0	µg/L	10.0		84.6	70-130				
trans-1,3-Dichloropropene	8.61	5.0	µg/L	10.0		86.1	70-130				

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078938 - SW-846 5030B											
LCS (B078938-BS1)				Prepared: 08/16/13 Analyzed: 08/20/13							
Diethyl Ether	9.50	2.0	µg/L	10.0		95.0	70-130				
Diisopropyl Ether (DIPE)	11.1	0.50	µg/L	10.0		111	70-130				
1,4-Dioxane	70.4	50	µg/L	100		70.4	40-130			V-05, V-16	†
Ethylbenzene	9.71	1.0	µg/L	10.0		97.1	70-130				
Hexachlorobutadiene	9.99	1.0	µg/L	10.0		99.9	70-130				
2-Hexanone (MBK)	91.5	10	µg/L	100		91.5	70-160				†
Isopropylbenzene (Cumene)	9.99	1.0	µg/L	10.0		99.9	70-130				
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.0		108	70-130				
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130				
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130				
4-Methyl-2-pentanone (MIBK)	95.8	10	µg/L	100		95.8	70-160				†
Naphthalene	10.8	5.0	µg/L	10.0		108	40-130				†
n-Propylbenzene	10.1	1.0	µg/L	10.0		101	70-130				
Styrene	9.87	1.0	µg/L	10.0		98.7	70-130				
1,1,1,2-Tetrachloroethane	9.47	2.0	µg/L	10.0		94.7	70-130				
1,1,2,2-Tetrachloroethane	9.54	0.50	µg/L	10.0		95.4	70-130				
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103	70-130				
Tetrahydrofuran	8.84	10	µg/L	10.0		88.4	70-130				
Toluene	9.67	1.0	µg/L	10.0		96.7	70-130				
1,2,3-Trichlorobenzene	10.1	5.0	µg/L	10.0		101	70-130				
1,2,4-Trichlorobenzene	9.91	5.0	µg/L	10.0		99.1	70-130				
1,3,5-Trichlorobenzene	8.29	1.0	µg/L	10.0		82.9	70-130				
1,1,1-Trichloroethane	9.98	1.0	µg/L	10.0		99.8	70-130				
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130				
Trichloroethylene	9.92	1.0	µg/L	10.0		99.2	70-130				
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0		105	70-130				
1,2,3-Trichloropropane	9.49	2.0	µg/L	10.0		94.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107	70-130				
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130				
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130				
Vinyl Chloride	7.64	2.0	µg/L	10.0		76.4	40-160				†
m+p Xylene	20.0	2.0	µg/L	20.0		100	70-130				
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	*26.2*		µg/L	25.0		105	70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.0		101	70-130				
LCS Dup (B078938-BSD1)				Prepared: 08/16/13 Analyzed: 08/20/13							
Acetone	81.3	50	µg/L	100		81.3	70-160	0.955	25		†
Acrylonitrile	8.03	5.0	µg/L	10.0		80.3	70-130	2.34	25		
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.0		103	70-130	2.36	25		
Benzene	9.42	1.0	µg/L	10.0		94.2	70-130	0.639	25		
Bromobenzene	9.94	1.0	µg/L	10.0		99.4	70-130	2.44	25		
Bromochloromethane	10.3	1.0	µg/L	10.0		103	70-130	1.97	25		
Bromodichloromethane	10.2	1.0	µg/L	10.0		102	70-130	0.0983	25		
Bromoform	9.31	1.0	µg/L	10.0		93.1	70-130	0.322	25		
Bromomethane	5.88	2.0	µg/L	10.0		58.8	40-160	20.6	25	V-20	†
2-Butanone (MEK)	81.7	20	µg/L	100		81.7	40-160	4.47	25		†
tert-Butyl Alcohol (TBA)	63.2	20	µg/L	100		63.2	40-160	7.88	25	V-16, V-05	†
n-Butylbenzene	8.40	5.0	µg/L	10.0		84.0	70-130	2.47	25		
sec-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.470	25		
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	3.40	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B078938 - SW-846 5030B											
LCS Dup (B078938-BSD1)				Prepared: 08/16/13 Analyzed: 08/20/13							
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	µg/L	10.0		106	70-130	0.468	25		
Carbon Disulfide	8.26	4.0	µg/L	10.0		82.6	70-130	0.363	25		
Carbon Tetrachloride	9.51	5.0	µg/L	10.0		95.1	70-130	1.70	25		
Chlorobenzene	9.86	1.0	µg/L	10.0		98.6	70-130	2.15	25		
Chlorodibromomethane	9.23	0.50	µg/L	10.0		92.3	70-130	1.20	25		
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130	2.02	25		
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	0.0920	25		
Chloromethane	7.14	2.0	µg/L	10.0		71.4	40-160	0.844	25		†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	2.38	25		
4-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130	1.15	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.46	5.0	µg/L	10.0		94.6	70-130	1.16	25		
1,2-Dibromoethane (EDB)	9.89	0.50	µg/L	10.0		98.9	70-130	3.38	25		
Dibromomethane	10.4	1.0	µg/L	10.0		104	70-130	1.64	25		
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	1.59	25		
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	1.18	25		
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	0.495	25		
trans-1,4-Dichloro-2-butene	8.39	2.0	µg/L	10.0		83.9	70-130	2.01	25		
Dichlorodifluoromethane (Freon 12)	6.80	2.0	µg/L	10.0		68.0	40-160	3.44	25		†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130	0.476	25		
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110	70-130	0.733	25		
1,1-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	2.59	25		
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	1.68	25		
trans-1,2-Dichloroethylene	9.65	1.0	µg/L	10.0		96.5	70-130	0.207	25		
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130	0.863	25		
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130	1.06	25		
2,2-Dichloropropane	8.58	1.0	µg/L	10.0		85.8	40-130	1.29	25		†
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101	70-130	1.60	25		
cis-1,3-Dichloropropene	8.58	2.0	µg/L	10.0		85.8	70-130	1.41	25		
trans-1,3-Dichloropropene	8.56	5.0	µg/L	10.0		85.6	70-130	0.582	25		
Diethyl Ether	9.90	2.0	µg/L	10.0		99.0	70-130	4.12	25		
Diisopropyl Ether (DIPE)	11.1	0.50	µg/L	10.0		111	70-130	0.360	25		
1,4-Dioxane	75.2	50	µg/L	100		75.2	40-130	6.54	50	V-05, V-16	† ‡
Ethylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130	2.74	25		
Hexachlorobutadiene	9.79	1.0	µg/L	10.0		97.9	70-130	2.02	25		
2-Hexanone (MBK)	85.6	10	µg/L	100		85.6	70-160	6.65	25		†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130	2.28	25		
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.0		108	70-130	0.0926	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130	3.17	25		
Methylene Chloride	11.0	5.0	µg/L	10.0		110	70-130	0.917	25		
4-Methyl-2-pentanone (MIBK)	91.0	10	µg/L	100		91.0	70-160	5.18	25		†
Naphthalene	10.7	5.0	µg/L	10.0		107	40-130	0.838	25		†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130	1.67	25		
Styrene	10.0	1.0	µg/L	10.0		100	70-130	1.71	25		
1,1,1,2-Tetrachloroethane	9.91	2.0	µg/L	10.0		99.1	70-130	4.54	25		
1,1,2,2-Tetrachloroethane	9.34	0.50	µg/L	10.0		93.4	70-130	2.12	25		
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130	0.869	25		
Tetrahydrofuran	8.27	10	µg/L	10.0		82.7	70-130	6.66	25		
Toluene	9.84	1.0	µg/L	10.0		98.4	70-130	1.74	25		
1,2,3-Trichlorobenzene	10.0	5.0	µg/L	10.0		100	70-130	1.09	25		
1,2,4-Trichlorobenzene	9.76	5.0	µg/L	10.0		97.6	70-130	1.53	25		
1,3,5-Trichlorobenzene	8.10	1.0	µg/L	10.0		81.0	70-130	2.32	25		
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130	1.49	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B078938 - SW-846 5030B										
LCS Dup (B078938-BSD1)				Prepared: 08/16/13 Analyzed: 08/20/13						
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	0.780	25	
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	1.40	25	
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.0		108	70-130	3.29	25	
1,2,3-Trichloropropane	9.52	2.0	µg/L	10.0		95.2	70-130	0.316	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130	3.84	25	
1,2,4-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	1.39	25	
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	1.55	25	
Vinyl Chloride	7.99	2.0	µg/L	10.0		79.9	40-160	4.48	25	†
m+p Xylene	20.4	2.0	µg/L	20.0		102	70-130	1.93	25	
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130	3.33	25	
Surrogate: 1,2-Dichloroethane-d4	*25.9*		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.9	70-130			
Batch B079149 - SW-846 5030B										
Blank (B079149-BLK1)				Prepared: 08/20/13 Analyzed: 08/21/13						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16
n-Butylbenzene	ND	5.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079149 - SW-846 5030B										
Blank (B079149-BLK1)				Prepared: 08/20/13 Analyzed: 08/21/13						
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	2.0	µg/L							
trans-1,3-Dichloropropene	ND	5.0	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-05, V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							V-05
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*27.0*		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	*23.3*		µg/L	25.0		93.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B079149 - SW-846 5030B											
LCS (B079149-BS1)				Prepared: 08/20/13 Analyzed: 08/21/13							
Acetone	78.5	50	µg/L	100		78.5	70-160				†
Acrylonitrile	9.50	5.0	µg/L	10.0		95.0	70-130				
tert-Amyl Methyl Ether (TAME)	9.75	0.50	µg/L	10.0		97.5	70-130				
Benzene	9.69	1.0	µg/L	10.0		96.9	70-130				
Bromobenzene	9.81	1.0	µg/L	10.0		98.1	70-130				
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130				
Bromodichloromethane	10.7	1.0	µg/L	10.0		107	70-130				
Bromoform	9.40	1.0	µg/L	10.0		94.0	70-130				
Bromomethane	5.77	2.0	µg/L	10.0		57.7	40-160				†
2-Butanone (MEK)	81.7	20	µg/L	100		81.7	40-160				†
tert-Butyl Alcohol (TBA)	76.7	20	µg/L	100		76.7	40-160			V-16	†
n-Butylbenzene	8.60	5.0	µg/L	10.0		86.0	70-130				
sec-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130				
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130				
Carbon Disulfide	10.2	4.0	µg/L	10.0		102	70-130				
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130				
Chlorobenzene	9.70	1.0	µg/L	10.0		97.0	70-130				
Chlorodibromomethane	9.47	0.50	µg/L	10.0		94.7	70-130				
Chloroethane	11.3	2.0	µg/L	10.0		113	70-130				
Chloroform	11.0	2.0	µg/L	10.0		110	70-130				
Chloromethane	7.89	2.0	µg/L	10.0		78.9	40-160				†
2-Chlorotoluene	9.93	1.0	µg/L	10.0		99.3	70-130				
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.79	5.0	µg/L	10.0		87.9	70-130				
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130				
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130				
1,2-Dichlorobenzene	9.71	1.0	µg/L	10.0		97.1	70-130				
1,3-Dichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130				
1,4-Dichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130				
trans-1,4-Dichloro-2-butene	8.45	2.0	µg/L	10.0		84.5	70-130				
Dichlorodifluoromethane (Freon 12)	7.57	2.0	µg/L	10.0		75.7	40-160				†
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130				
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130				
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130				
cis-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
trans-1,2-Dichloroethylene	12.1	1.0	µg/L	10.0		121	70-130				
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130				
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130				
2,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	40-130				†
1,1-Dichloropropene	11.0	2.0	µg/L	10.0		110	70-130				
cis-1,3-Dichloropropene	9.07	2.0	µg/L	10.0		90.7	70-130				
trans-1,3-Dichloropropene	9.03	5.0	µg/L	10.0		90.3	70-130				
Diethyl Ether	9.50	2.0	µg/L	10.0		95.0	70-130				
Diisopropyl Ether (DIPE)	11.2	0.50	µg/L	10.0		112	70-130				
1,4-Dioxane	75.3	50	µg/L	100		75.3	40-130			V-05, V-16	†
Ethylbenzene	10.1	1.0	µg/L	10.0		101	70-130				
Hexachlorobutadiene	9.46	1.0	µg/L	10.0		94.6	70-130				
2-Hexanone (MBK)	84.0	10	µg/L	100		84.0	70-160				†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130				
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110	70-130				
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.0		110	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B079149 - SW-846 5030B											
LCS (B079149-BS1)				Prepared: 08/20/13 Analyzed: 08/21/13							
Methylene Chloride	11.5	5.0	µg/L	10.0		115	70-130				
4-Methyl-2-pentanone (MIBK)	88.4	10	µg/L	100		88.4	70-160				†
Naphthalene	10.4	5.0	µg/L	10.0		104	40-130				†
n-Propylbenzene	10.3	1.0	µg/L	10.0		103	70-130				
Styrene	10.2	1.0	µg/L	10.0		102	70-130				
1,1,1,2-Tetrachloroethane	9.82	2.0	µg/L	10.0		98.2	70-130				
1,1,2,2-Tetrachloroethane	8.74	0.50	µg/L	10.0		87.4	70-130				
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111	70-130				
Tetrahydrofuran	8.21	10	µg/L	10.0		82.1	70-130				
Toluene	10.1	1.0	µg/L	10.0		101	70-130				
1,2,3-Trichlorobenzene	9.59	5.0	µg/L	10.0		95.9	70-130				
1,2,4-Trichlorobenzene	9.22	5.0	µg/L	10.0		92.2	70-130				
1,3,5-Trichlorobenzene	7.29	1.0	µg/L	10.0		72.9	70-130			V-05	
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130				
1,1,2-Trichloroethane	9.98	1.0	µg/L	10.0		99.8	70-130				
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130				
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116	70-130				
1,2,3-Trichloropropane	9.13	2.0	µg/L	10.0		91.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130				
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130				
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130				
Vinyl Chloride	8.53	2.0	µg/L	10.0		85.3	40-160				†
m+p Xylene	20.7	2.0	µg/L	20.0		103	70-130				
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	*26.6*		µg/L	25.0		106	70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.4	70-130				
LCS Dup (B079149-BSD1)				Prepared: 08/20/13 Analyzed: 08/21/13							
Acetone	82.4	50	µg/L	100		82.4	70-160	4.77	25		†
Acrylonitrile	9.93	5.0	µg/L	10.0		99.3	70-130	4.43	25		
tert-Amyl Methyl Ether (TAME)	9.67	0.50	µg/L	10.0		96.7	70-130	0.824	25		
Benzene	9.48	1.0	µg/L	10.0		94.8	70-130	2.19	25		
Bromobenzene	9.50	1.0	µg/L	10.0		95.0	70-130	3.21	25		
Bromochloromethane	10.3	1.0	µg/L	10.0		103	70-130	3.26	25		
Bromodichloromethane	10.2	1.0	µg/L	10.0		102	70-130	4.89	25		
Bromoform	9.19	1.0	µg/L	10.0		91.9	70-130	2.26	25		
Bromomethane	6.64	2.0	µg/L	10.0		66.4	40-160	14.0	25		†
2-Butanone (MEK)	85.4	20	µg/L	100		85.4	40-160	4.42	25		†
tert-Butyl Alcohol (TBA)	77.9	20	µg/L	100		77.9	40-160	1.60	25	V-16	†
n-Butylbenzene	8.46	5.0	µg/L	10.0		84.6	70-130	1.64	25		
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130	4.80	25		
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	3.66	25		
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	µg/L	10.0		102	70-130	0.293	25		
Carbon Disulfide	9.54	4.0	µg/L	10.0		95.4	70-130	7.08	25		
Carbon Tetrachloride	9.91	5.0	µg/L	10.0		99.1	70-130	3.67	25		
Chlorobenzene	9.44	1.0	µg/L	10.0		94.4	70-130	2.72	25		
Chlorodibromomethane	9.21	0.50	µg/L	10.0		92.1	70-130	2.78	25		
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	10.3	25		
Chloroform	10.4	2.0	µg/L	10.0		104	70-130	5.14	25		
Chloromethane	7.67	2.0	µg/L	10.0		76.7	40-160	2.83	25		†
2-Chlorotoluene	9.62	1.0	µg/L	10.0		96.2	70-130	3.17	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B079149 - SW-846 5030B											
LCS Dup (B079149-BSD1)				Prepared: 08/20/13 Analyzed: 08/21/13							
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	3.12	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.99	5.0	µg/L	10.0		89.9	70-130	2.25	25		
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130	2.85	25		
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	4.08	25		
1,2-Dichlorobenzene	9.71	1.0	µg/L	10.0		97.1	70-130	0.00	25		
1,3-Dichlorobenzene	9.98	1.0	µg/L	10.0		99.8	70-130	0.400	25		
1,4-Dichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130	0.00	25		
trans-1,4-Dichloro-2-butene	8.44	2.0	µg/L	10.0		84.4	70-130	0.118	25		
Dichlorodifluoromethane (Freon 12)	7.03	2.0	µg/L	10.0		70.3	40-160	7.40	25		†
1,1-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	3.21	25		
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130	0.443	25		
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	4.97	25		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	4.12	25		
trans-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	3.71	25		
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	70-130	3.44	25		
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130	0.586	25		
2,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	40-130	7.57	25		†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104	70-130	5.71	25		
cis-1,3-Dichloropropene	8.81	2.0	µg/L	10.0		88.1	70-130	2.91	25		
trans-1,3-Dichloropropene	8.88	5.0	µg/L	10.0		88.8	70-130	1.68	25		
Diethyl Ether	9.30	2.0	µg/L	10.0		93.0	70-130	2.13	25		
Diisopropyl Ether (DIPE)	10.9	0.50	µg/L	10.0		109	70-130	2.99	25		
1,4-Dioxane	64.4	50	µg/L	100		64.4	40-130	15.6	50	V-05, V-16	† ‡
Ethylbenzene	9.66	1.0	µg/L	10.0		96.6	70-130	4.35	25		
Hexachlorobutadiene	9.49	1.0	µg/L	10.0		94.9	70-130	0.317	25		
2-Hexanone (MBK)	87.4	10	µg/L	100		87.4	70-160	3.98	25		†
Isopropylbenzene (Cumene)	9.81	1.0	µg/L	10.0		98.1	70-130	4.29	25		
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107	70-130	2.67	25		
Methyl tert-Butyl Ether (MTBE)	11.1	1.0	µg/L	10.0		111	70-130	0.633	25		
Methylene Chloride	10.8	5.0	µg/L	10.0		108	70-130	5.64	25		
4-Methyl-2-pentanone (MIBK)	91.4	10	µg/L	100		91.4	70-160	3.32	25		†
Naphthalene	10.5	5.0	µg/L	10.0		105	40-130	0.953	25		†
n-Propylbenzene	10.1	1.0	µg/L	10.0		101	70-130	1.67	25		
Styrene	10.1	1.0	µg/L	10.0		101	70-130	1.38	25		
1,1,1,2-Tetrachloroethane	9.44	2.0	µg/L	10.0		94.4	70-130	3.95	25		
1,1,2,2-Tetrachloroethane	8.94	0.50	µg/L	10.0		89.4	70-130	2.26	25		
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	5.25	25		
Tetrahydrofuran	8.96	10	µg/L	10.0		89.6	70-130	8.74	25		
Toluene	9.71	1.0	µg/L	10.0		97.1	70-130	4.14	25		
1,2,3-Trichlorobenzene	9.78	5.0	µg/L	10.0		97.8	70-130	1.96	25		
1,2,4-Trichlorobenzene	9.43	5.0	µg/L	10.0		94.3	70-130	2.25	25		
1,3,5-Trichlorobenzene	7.62	1.0	µg/L	10.0		76.2	70-130	4.43	25	V-05	
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	5.43	25		
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130	0.997	25		
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	2.93	25		
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130	11.3	25		
1,2,3-Trichloropropane	9.39	2.0	µg/L	10.0		93.9	70-130	2.81	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.0		106	70-130	5.79	25		
1,2,4-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	2.00	25		
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	3.60	25		
Vinyl Chloride	8.17	2.0	µg/L	10.0		81.7	40-160	4.31	25		†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079149 - SW-846 5030B										
LCS Dup (B079149-BSD1)				Prepared: 08/20/13 Analyzed: 08/21/13						
m+p Xylene	19.9	2.0	µg/L	20.0		99.4	70-130	4.00	25	
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	1.87	25	
Surrogate: 1,2-Dichloroethane-d4	*26.7*		µg/L	25.0		107	70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.5	70-130			
Batch B079351 - SW-846 5030B										
Blank (B079351-BLK1)				Prepared & Analyzed: 08/22/13						
Trichloroethylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*28.3*		µg/L	25.0		113	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.6	70-130			
LCS (B079351-BS1)				Prepared & Analyzed: 08/22/13						
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	*27.4*		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			
LCS Dup (B079351-BSD1)				Prepared & Analyzed: 08/22/13						
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	4.18	25	
Surrogate: 1,2-Dichloroethane-d4	*27.6*		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079086 - SW-846 3510C										
Blank (B079086-BLK1)				Prepared: 08/19/13 Analyzed: 08/20/13						
Fuel Oil #2	ND	0.20	mg/L							
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: o-Terphenyl	*0.0812*		mg/L	0.100		81.2	40-140			
LCS (B079086-BS1)				Prepared: 08/19/13 Analyzed: 08/20/13						
Fuel Oil #2	0.982	0.20	mg/L	1.00		98.2	40-140			
TPH (C9-C36)	0.982	0.20	mg/L	1.00		98.2	40-140			
Surrogate: o-Terphenyl	*0.0894*		mg/L	0.100		89.4	40-140			
LCS Dup (B079086-BSD1)				Prepared: 08/19/13 Analyzed: 08/20/13						
Fuel Oil #2	0.896	0.20	mg/L	1.00		89.6	40-140	9.09	25	
TPH (C9-C36)	0.896	0.20	mg/L	1.00		89.6	40-140	9.09	25	
Surrogate: o-Terphenyl	*0.0825*		mg/L	0.100		82.5	40-140			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B078874 - SW-846 3005A Dissolved										
Blank (B078874-BLK1)				Prepared: 08/15/13 Analyzed: 08/17/13						
Lead	ND	0.010	mg/L							
LCS (B078874-BS1)				Prepared: 08/15/13 Analyzed: 08/17/13						
Lead	0.495	0.010	mg/L	0.500		99.0	80-120			
LCS Dup (B078874-BSD1)				Prepared: 08/15/13 Analyzed: 08/17/13						
Lead	0.495	0.010	mg/L	0.500		99.0	80-120	0.0235	20	
Duplicate (B078874-DUP1)	**Source: 13H0515-21**			Prepared: 08/15/13 Analyzed: 08/17/13						
Lead	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B078874-MS1)	**Source: 13H0515-21**			Prepared: 08/15/13 Analyzed: 08/17/13						
Lead	0.473	0.010	mg/L	0.500	0.00525	93.6	75-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-01	Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Sample contamination matches the range for #2 fuel oil, but it does not match the pattern.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Lead	CT,NH,NY,NC,ME,VA
SW-846 8260C in Water	
Acetone	CT,NY,ME,NH,VA
Acrylonitrile	CT,NY,ME,NH,VA
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA
Benzene	CT,NY,ME,NH,VA
Bromochloromethane	NY,ME,NH,VA
Bromodichloromethane	CT,NY,ME,NH,VA
Bromoform	CT,NY,ME,NH,VA
Bromomethane	CT,NY,ME,NH,VA
2-Butanone (MEK)	CT,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA
n-Butylbenzene	NY,ME,VA
sec-Butylbenzene	NY,ME,VA
tert-Butylbenzene	NY,ME,VA
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA
Carbon Disulfide	CT,NY,ME,NH,VA
Carbon Tetrachloride	CT,NY,ME,NH,VA
Chlorobenzene	CT,NY,ME,NH,VA
Chlorodibromomethane	CT,NY,ME,NH,VA
Chloroethane	CT,NY,ME,NH,VA
Chloroform	CT,NY,ME,NH,VA
Chloromethane	CT,NY,ME,NH,VA
2-Chlorotoluene	NY,ME,NH,VA
4-Chlorotoluene	NY,ME,NH,VA
Dibromomethane	NY,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,ME,NH,VA
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA
1,1-Dichloroethane	CT,NY,ME,NH,VA
1,2-Dichloroethane	CT,NY,ME,NH,VA
1,1-Dichloroethylene	CT,NY,ME,NH,VA
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA
1,2-Dichloropropane	CT,NY,ME,NH,VA
1,3-Dichloropropane	NY,ME,VA
2,2-Dichloropropane	NY,ME,NH,VA
1,1-Dichloropropene	NY,ME,NH,VA
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA
Methylene Chloride	CT,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA
Naphthalene	NY,ME,NH,VA
n-Propylbenzene	CT,NY,ME,NH,VA
Styrene	CT,NY,ME,NH,VA
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA
Tetrachloroethylene	CT,NY,ME,NH,VA
Toluene	CT,NY,ME,NH,VA
1,2,3-Trichlorobenzene	NY,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA
1,1,2-Trichloroethane	CT,NY,ME,NH,VA
Trichloroethylene	CT,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA
1,2,3-Trichloropropane	NY,ME,NH,VA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA
1,2,4-Trimethylbenzene	NY,ME,VA
1,3,5-Trimethylbenzene	NY,ME,VA
Vinyl Chloride	CT,NY,ME,NH,VA
m+p Xylene	CT,NY,ME,NH,VA
o-Xylene	CT,NY,ME,NH,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
A CB&I Company
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

1304515

Rev 04.05.12

Page ____ of ____

Company Name: Shaw Environmental, Inc.
Telephone: 617-589-4030
Address: 150 Royall Street
Canton, MA 02021
Project # 130274
Client PO# 835493
Attention: Ed VanDoren
Project Location: Providence, RI
Sampled By: Paul LeDoux

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax # _____
Email: Edward.VanDoren@CBI.com
Format: ○ PDF ○ EXCEL ○ GIS
✓ OTHER GISKey format
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	EPA 8260B (VOC's)
01	MW-101D	8-12-13	~~8-12-13~~ 1000		✓	GW		3	H	V	
02	MW-101S		0915		✓			3	H	V	
03	MW-101S Dup		0930		✓			3	H	V	
04	MW-112		1245		✓			3	H	V	
05	MW-116D		1330		✓			3	H	V	
06	MW-116S		1400		✓			3	H	V	
07	MW-201D		1045		✓			3	H	V	
08	MW-202D		0815		✓			3	H	V	
09	MW-202S		0745		✓			3	H	V	
10	MW-207D	✓	0630		✓	✓		3	H	V	

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfat
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL= sludge
O = other_____

Comments:
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H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time
Relinquished by: (signature)	8/13/13
Received by: (signature)	8/14/13 1230
Relinquished by: (signature)	8/14/13 1810
Received by: (signature) 4.8°C	8/14/13 1810

Turnaround ††
☐ 7-Day
☑ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Cont. Code	# of Containers	** Preservation	*** Container Code	ANALYSIS REQUESTED: EPA 8260B (VOC's)
11	MW-207S	8.12.13	0700		✓	GW		3	H	V	
12	MW-218S	8.12.13	1130		✓			3	H	V	
13	MW-218D	8.12.13	1200		✓			3	H	V	
14	MW-216D	8.12.13	1530		✓			3	H	V	
15	MW-216S	8.12.13	1445		✓			3	H	V	
16	MW-217D	8.13.13	1300		✓			3	H	V	
17	MW-217S	8.13.13	1200		✓			3	H	V	
18	CW-1	8.13.13	0600		✓			3	H	V	
19	CW-2	8.13.13	0700		✓			3	H	V	
20	MW-209D	8.13.13	1130		✓			3	H	V	

Dissolved Metal
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
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I = Iced
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Relinquished by: (signature)	Date/Time: 8.13.13
Received by: (signature)	Date/Time: 8/14/13
Relinquished by: (signature)	Date/Time: 8/14/13
Received by: (signature) Rebecca West	Date/Time: 8/14/13 1810

Turnaround ††
☐ 7-Day
☑ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
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Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/~~Time~~	Collection Ending ~~Date~~/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	EPA 8260B (VOC's)	Dissolved Lead	TPH
									H	N	I		
									V	P	A		
21	GZA-3	8.13.13	1030		✓	GW		3			3	1	
22	MW-109D	↓	0930		✓	↓		3			3	1	
23	CW-6	↓	0800		✓	↓		2					2
24	CW-6 DUP	↓	0830		✓	↓		2					2
25	GZA-3	↓	1030		✓	↓		1				1	

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Lead samples are field filtered.

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Relinquished by: (signature)	Date/Time: 8/14/13 1810	
Received by: (signature)	Date/Time: 8/14/13 1810	

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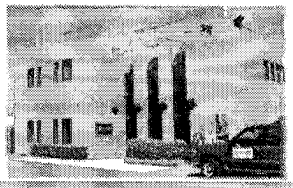
Sample Receipt Checklist



CLIENT NAME: CB&I / Shaw RECEIVED BY: RLF DATE: 8/14/13

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included

2) **Does the chain agree with the samples?** (Yes) No

If not, explain:

3) **Are all the samples in good condition?** (Yes) No

If not, explain:

4) **How were the samples received:**

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.8°C

5) **Are there Dissolved samples for the lab to filter?** Yes (No)

Who was notified _____ Date _____ Time _____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)

Who was notified _____ Date _____ Time _____

7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** (Yes) No N/A _____

9) **Do all samples have the proper Base pH:** Yes No (N/A) _____

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	4	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	3	Plastic Bag / Ziploc	
40 mL Vial - type listed below	10	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 10 # Methanol _____ Time and Date Frozen:

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____