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March 28, 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: February 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 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).

FIELD ACTIVITIES

The following field activities were conducted from February 13, 14, 15, and 22, 2013.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on February 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 February 13, 14, 15, and 22, 2013 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 February 2013 is contained in **Table 3**. Due to snow cover at the time of the sampling event, some wells were sampled the week following the originally scheduled sampling event. This required samples to be analyzed at separate times, and generated two analytical reports. 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 except for well MW-112, which had a PCE concentration of 25,000 ug/L.

A summary of the compliance well results is contained in **Table 4**. The results for the compliance wells 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 and vinyl chloride were above the compliance standard for wells MW-112.)

Mr. Joseph T. Martella, II

March 28, 2013

Page 3 of 7

FUTURE ACTIVITIES

The next sampling event is scheduled for August 2013.

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

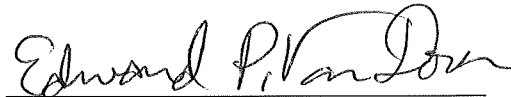
Laboratory Analytical Reports

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. and the person responsible for the preparation of this Status Report dated March 25, 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



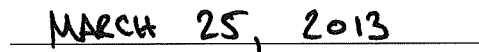
Date:

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



Date:

TABLES

Table 1
Summary Field Parameters
February 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

SITE_ID	DATE	pH	Temperature (deg.c)	Conductivity (ms/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mv)
MW-101D	2/13/2013	6.49	16.08	0.264	2.02	199.7
MW-101S	2/13/2013	6.13	13.45	0.917	1.76	-0.2
MW-112	2/13/2013	6.14	15.85	0.572	2.81	110.5
MW-116D	2/14/2013	5.93	14.83	0.171	1.92	147.5
MW-116S	2/14/2013	5.83	13.87	0.298	6.25	174.4
MW-201D	2/13/2013	6.54	15.17	1.117	0.74	82.8
MW-202D	2/13/2013	6.04	15.87	0.919	1.84	148.1
MW-202S	2/13/2013	6.18	15.57	0.742	1.69	60.2
MW-207D	2/13/2013	6.91	16.25	0.469	2.85	206.7
MW-207S	2/13/2013	6.38	15.85	0.851	0.42	195.9
MW-209D	2/13/2013	6.43	14.49	0.442	0.56	170.4
MW-216D	2/22/2013	6.42	14.07	0.497	1.90	13.7
MW-216S	2/22/2013	6.65	13.29	0.950	0.76	-56.2
MW-217D	2/22/2013	6.69	15.28	0.632	3.60	24.3
MW-217S	2/22/2013	6.5	14.45	0.747	0.66	75.7
MW-218D	2/14/2013	6.19	14.54	0.160	0.71	187.4
MW-218S	2/14/2013	6.67	15.95	0.850	0.14	-122.4
Notes:						
C° = degrees Celsius						
mS/cm = millisiemens per centimeter						
mg/L = milligrams per liter						
mV = milli volts						

**Table 2
Groundwater Elevations
February 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	2/13/2013	99.52	24.30	---	75.22
CW-02	2/13/2013	98.86	24.80	---	74.06
CW-06	2/13/2013	99.52	24.50	---	75.02
GZA-3	2/13/2013	NA	16.72	---	NA
MW-101D	2/13/2013	98.91	24.66	---	74.25
MW-101S	2/13/2013	98.90	24.01	---	74.89
MW-109D	2/13/2013	NA	18.70	---	NA
MW-112	2/13/2013	100.63	26.52	---	74.11
MW-116D	2/14/2013	98.92	24.80	---	74.12
MW-116S	2/14/2013	99.40	25.30	---	74.10
MW-201D	2/13/2013	98.80	24.68	---	74.12
MW-202D	2/13/2013	98.17	24.09	---	74.08
MW-202S	2/13/2013	98.06	23.96	---	74.10
MW-207D	2/13/2013	98.18	24.07	---	74.11
MW-207S	2/13/2013	98.28	24.23	---	74.05
MW-209D	2/13/2013	99.90	26.22	---	73.68
MW-216D	2/22/2013	98.69	25.27	---	73.42
MW-216S	2/22/2013	99.58	25.38	---	74.20
MW-217D	2/22/2013	98.65	24.60	---	74.05
MW-217S	2/22/2013	98.71	24.70	---	74.01
MW-218D	2/14/2013	99.67	25.53	---	74.14
MW-218S	2/14/2013	99.61	25.60	---	74.01
MW-220S	2/13/2013	99.41	24.68	---	74.73
MW-221S	2/13/2013	98.92	25.01	0.03	73.94

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

Table 3
Groundwater Analytical Results
February 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT	CW-01 2/15/2013 Primary	CW-02 2/14/2013 Primary	CW-06 2/15/2013 Primary	CW-06 2/15/2013 Duplicate 1	GZA-3 2/13/2013 Primary	GZA-3 2/13/2013 Duplicate	MW-101D 2/13/2013 Primary	MW-101S 2/13/2013 Primary	MW-101S 2/13/2013 Duplicate 1	MW-109D 2/13/2013 Primary	MW-112 2/13/2013 Primary	MW-116D 2/14/2013 Primary	MW-116S 2/14/2013 Primary	MW-201D 2/13/2013 Primary	MW-202D 2/13/2013 Primary
VOC (ug/L)															
1,1,1-Trichloroethane	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	4.6	<1.0
1,1-Dichloroethane	<1.0	<1.0	---	---	1.1	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	---	---	1.1	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
4-Isopropyltoluene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
Acetone	<50	<50	---	---	<50	---	<50	200	<50	<50	<25000D	<50	<50	<50	<50
Chloroform	<2.0	<2.0	---	---	<2.0	---	<2.0	<2.0	<2.0	<2.0	<1000D	<2.0	<2.0	9.9	12
cis-1,2-Dichloroethene	<1.0	<1.0	---	---	58	---	<1.0	2.2	2.3	<1.0	<500D	<1.0	<1.0	3.4	3.7
Ethylbenzene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
m/p-xylene	<2.0	<2.0	---	---	<2.0	---	<2.0	<2.0	<2.0	<2.0	<1000D	<2.0	<2.0	<2.0	<2.0
Methyltert-butylether	<1.0	<1.0	---	---	6.6	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	1.2	<1.0
Naphthalene	<2.0	<2.0	---	---	<2.0	---	<2.0	<2.0	<2.0	<2.0	<1000D	<2.0	<2.0	<2.0	<2.0
n-Butylbenzene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	<1.0	---	---	<1.0	---	14	3.1	3	<1.0	25000D	<1.0	<1.0	6000D	430D
Toluene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	---	---	<1.0	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	---	---	3.2	---	<1.0	<1.0	<1.0	<1.0	<500D	<1.0	<1.0	130	2.4
Vinyl chloride	<2.0	<2.0	---	---	27	---	<2.0	<2.0	<2.0	<2.0	<1000D	<2.0	<2.0	<2.0	<2.0
Xylene (total)	<2.0	<2.0	---	---	<2.0	---	<2.0	<2.0	<2.0	<2.0	<1000D	<2.0	<2.0	<2.0	<2.0
TPH (mg/L)															
TPH	---	---	5.8	6	---	---	---	---	---	---	---	---	---	---	---
Dissolved Metals (ug/L)															
Lead	---	---	---	---	<10	<10	---	---	---	<10	---	---	---	---	---

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.

Table 3
Groundwater Analytical Results
February 2013

Former Gorham Manufacturing Facility
Providence, Rhode Island

CONSTITUENT	MW-202S 2/13/2013 Primary	MW-207D 2/13/2013 Primary	MW-207S 2/13/2013 Primary	MW-209D 2/13/2013 Primary	MW-216D 2/22/2013 Primary	MW-216S 2/22/2013 Primary	MW-217D 2/22/2013 Primary	MW-217S 2/22/2013 Primary	MW-218D 2/14/2013 Primary	MW-218S 2/14/2013 Primary
VOC (ug/L)										
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0D
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0D
1,1-Dichloroethene	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0D
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	10	<1.0	<1.0	<1.0	<5.0D
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	7.6	<1.0	<1.0	<1.0	<5.0D
4-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<5.0D
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250D
Chloroform	2.2	<2.0	10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10D
cis-1,2-Dichloroethene	<1.0	<1.0	12	19	<1.0	50	5.2	2.8	<1.0	<5.0D
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<5.0D
m/p-xylene	<2.0	<2.0	<2.0	<2.0	<2.0	5.6	<2.0	<2.0	<2.0	<10D
Methyltert-butylether	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0D
Naphthalene	<2.0	<2.0	<2.0	<2.0	<2.0	27	<2.0	<2.0	<2.0	<10D
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<5.0D
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	8.5	<1.0	<1.0	<1.0	<5.0D
Tetrachloroethene	38	2.5	190D	880D	<1.0	<1.0	<1.0	7.8	99	<5.0D
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<5.0D
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0D
Trichloroethene	<1.0	<1.0	2.6	190D	1.4	<1.0	7.2	1.4	7.6	<5.0D
Vinyl chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10D
Xylene (total)	<2.0	<2.0	<2.0	<2.0	<2.0	14	<2.0	<2.0	<2.0	<10D
TPH (mg/L)										
TPH	---	---	---	---	---	---	---	---	---	---
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.

**Table 4
Compliance Wells Analytical Results
February 2013**

**Former Gorham Manufacturing Facility
Providence, Rhode Island**

Mashapaug Pond Compliance Wells				
Sample ID	GZA-3	GZA-3	MW-109D	Compliance
Date Collected	2/13/2012	2/13/2012	2/13/2012	Standard ¹
CONSTITUENT		Duplicate		
Metals (mg/L)				
Lead	<0.010	<0.010	<0.010	0.03
VOCs (ug/L)				
1,1-Dichloroethane	1.1	NA	<1.0	50,000
1,1-Dichloroethene	1.1	NA	<1.0	50,000
cis-1,2-Dichloroethene	58	NA	<1.0	50,000
Methyl tert-butyl ether	6.6	NA	<1.0	50,000
Tetrachloroethene	<1.0	NA	<1.0	5,000
Trichloroethene	3.2	NA	<1.0	20,000
Vinyl chloride	27	NA	<2.0	1,200

TPH Remediation Area Well			
Sample ID	CW-6	CW-6	Compliance
Date Collected	2/15/2013	2/15/2013	Standard ¹
CONSTITUENT		Duplicate	
TPH (mg/L)	5.8	6	20

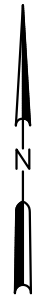
Sewer Interceptor Area Wells			
Sample ID	CW-1	CW-2	Compliance
Date Collected	2/15/2013	2/14/2013	Standard ²
CONSTITUENT			
VOCs (ug/L)			
1,1-Dichloroethane	<1.0	<1.0	120,000
1,1-Dichloroethene	<1.0	<1.0	23,000
cis-1,2-Dichloroethene	<1.0	<1.0	69,000
trans-1,2-Dichloroethene	<1.0	<1.0	79,000
Tetrachloroethene	<1.0	<1.0	NS
Trichloroethene	<1.0	<1.0	87,000


Adelaide Avenue Wells					
Sample ID	MW-112	MW-209D	MW-218D	MW-218S	Compliance
Date Collected	2/13/2013	2/13/2013	2/14/2013	2/14/2013	Standard ³
CONSTITUENT					
VOCs (ug/L)					
cis-1,2-Dichloroethene	<500D	19	<1.0	<5.0D	2,400
1,1-Dichloroethene	<500D	3.4	<1.0	<5.0D	7
Chloroform	<1000D	<2.0	<2.0	<10D	1,900
Methyl tert-butyl ether	<500D	1.5	<1.0	<5.0D	5,000
Tetrachloroethene	25000D	880D	99	<5.0D	150
Trichloroethene	<500D	140D	7.6	<5.0D	540
Vinyl chloride	<1000D	<2.0	<2.0	<10D	2

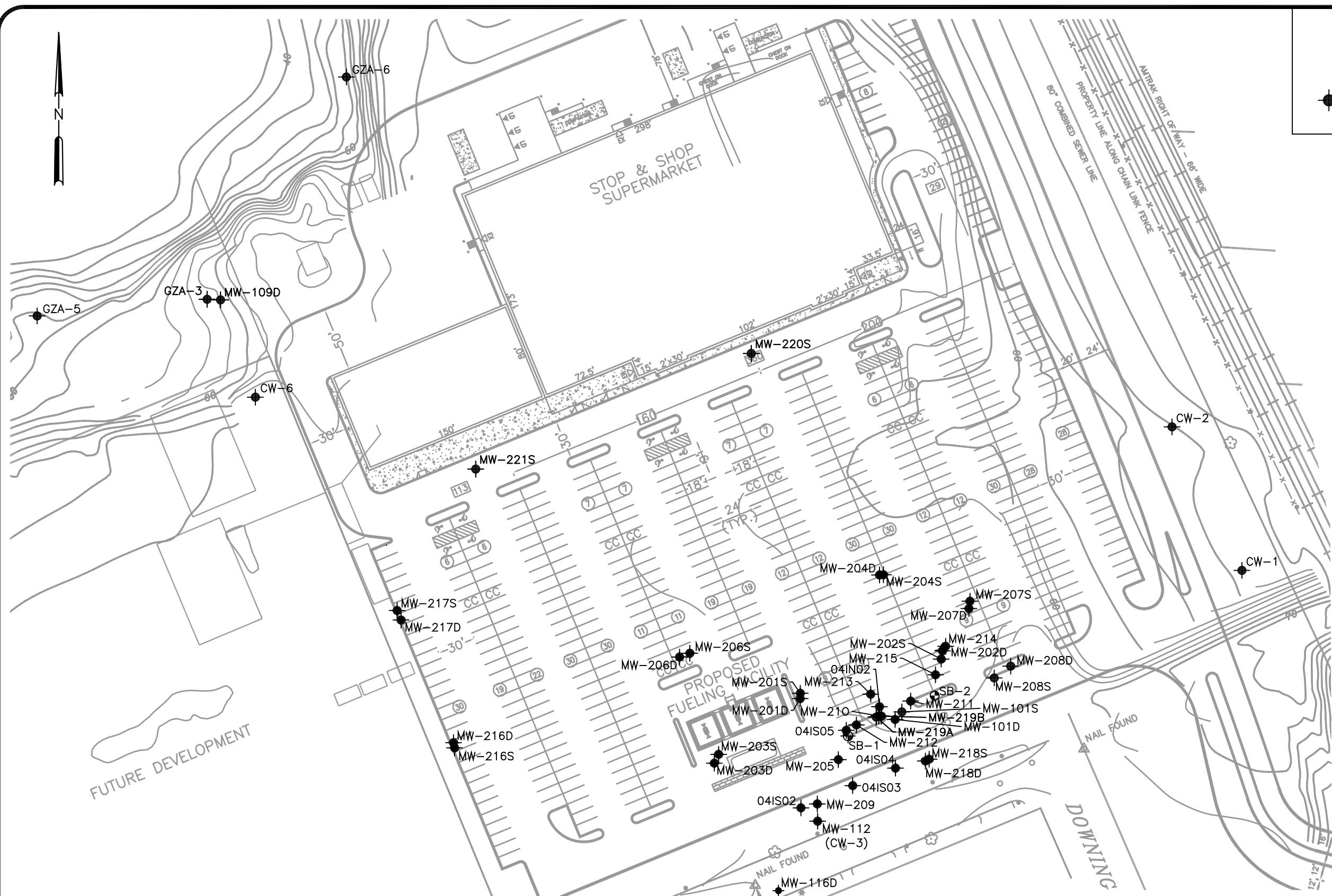
Notes:

- 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.
 - These compliance standards taken from Table 5 - Upper Concentration Limits for GB Groundwater, RIDEM Remediation Regulations.
 - 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
NA - Indicates that the analysis was not performed.
NS - Indicates that no applicable standard exists. Compound does not have a lower explosive limit (LEL).
D = Result reported from a diluted sample.

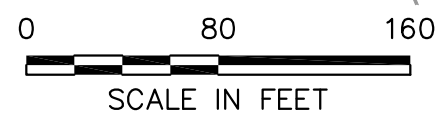
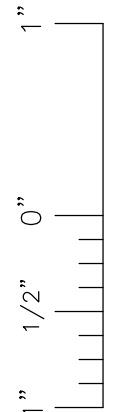
FIGURES



LEGEND
 MW-101S MONITORING WELL



File: N:\dwg\Gorham\cntgf-02.dwg Layout: SP User: James.O'Donnell Apr 02, 2013 - 11:05am



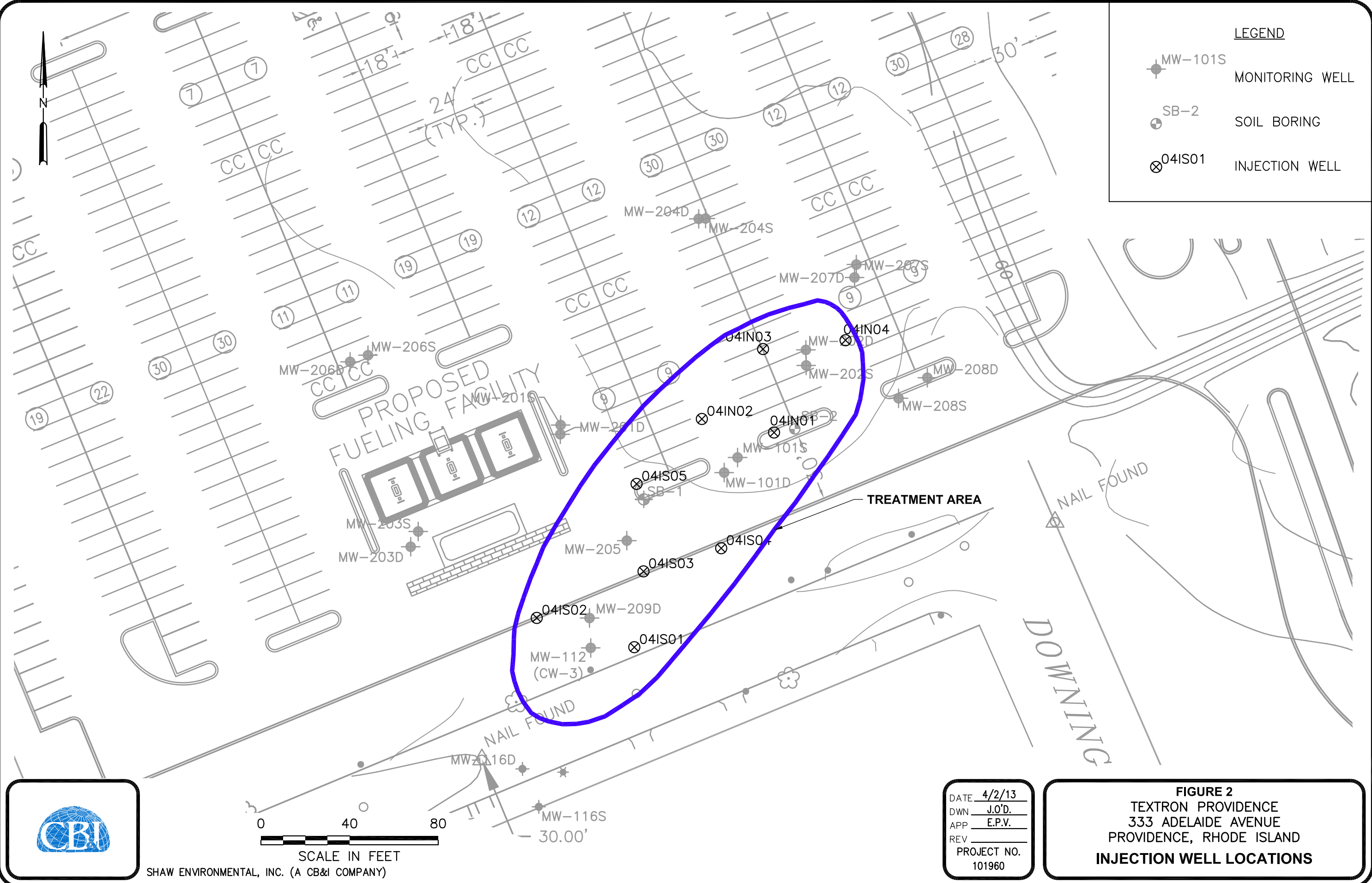
SHAW ENVIRONMENTAL, INC. (A CB&I COMPANY)

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

LEGEND

- MW-101S MONITORING WELL
- SB-2 SOIL BORING
- 04IS01 INJECTION WELL



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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

LABORATORY REPORTS

March 6, 2013

Edward Van Doren
Shaw Environmental - MA
150 Royall Street
Canton, MA 02021

Project Location: Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 13B0642

Enclosed are results of analyses for samples received by the laboratory on February 25, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Shaw Environmental - MA
150 Royall Street
Canton, MA 02021
ATTN: Edward Van Doren

REPORT DATE: 3/6/2013

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13B0642

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-216S	13B0642-01	Ground Water		SW-846 8260C	
MW-216D	13B0642-02	Ground Water		SW-846 8260C	
MW-217S	13B0642-03	Ground Water		SW-846 8260C	
MW-217D	13B0642-04	Ground Water		SW-846 8260C	

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:**1,4-Dioxane**B068244-BS1, B068244-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Methylene Chloride**13B0642-01[MW-216S], B068296-BLK1, B068296-BS1, B068296-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:**1,2,4-Trichlorobenzene**B068244-BS1

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:**1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Chloromethane, Methylene Chloride, Naphthalene, trans-1,4-Dichloro-2-butene**13B0642-02[MW-216D], 13B0642-03[MW-217S], 13B0642-04[MW-217D], B068244-BLK1, B068244-BS1, B068244-BSD1, 13B0642-01[MW-216S], B068296-BLK1, B068296-BS1, B068296-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)**13B0642-01[MW-216S], 13B0642-02[MW-216D], 13B0642-03[MW-217S], 13B0642-04[MW-217D], B068244-BLK1, B068244-BS1, B068244-BSD1, B068296-BLK1, B068296-BS1, B068296-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**B068296-BS1, B068296-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.

A handwritten signature in black ink, appearing to read "M. Erickson", is written on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-216S

Sampled: 2/22/2013 08:00

Sample ID: 13B0642-01

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	2/27/13	3/2/13 6:09	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/27/13	3/2/13 6:09	MFF
n-Butylbenzene	1.6	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Carbon Disulfide	ND	10	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
cis-1,2-Dichloroethylene	50	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
cis-1,3-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-216S

Sampled: 2/22/2013 08:00

Sample ID: 13B0642-01

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	2/27/13	3/2/13 6:09	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Ethylbenzene	2.1	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
p-Isopropyltoluene (p-Cymene)	1.3	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Methylene Chloride	ND	5.0	µg/L	1	L-04, V-05	SW-846 8260C	2/27/13	3/2/13 6:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Naphthalene	27	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Toluene	1.5	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,3,5-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,2,4-Trimethylbenzene	10	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
1,3,5-Trimethylbenzene	7.6	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
m+p Xylene	5.6	2.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF
o-Xylene	8.5	1.0	µg/L	1		SW-846 8260C	2/27/13	3/2/13 6:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.3	70-130	3/2/13 6:09
Toluene-d8	96.3	70-130	3/2/13 6:09
4-Bromofluorobenzene	102	70-130	3/2/13 6:09

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-216D

Sampled: 2/22/2013 08:45

Sample ID: 13B0642-02

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	2/26/13	2/26/13 22:24	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/26/13	2/26/13 22:24	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:24	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
2,2-Dichloropropane	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-216D

Sampled: 2/22/2013 08:45

Sample ID: 13B0642-02

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	2/26/13	2/26/13 22:24	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:24	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Trichloroethylene	1.4	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	117	70-130	
Toluene-d8	98.7	70-130	
4-Bromofluorobenzene	98.8	70-130	

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-217S

Sampled: 2/22/2013 09:15

Sample ID: 13B0642-03

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	2/26/13	2/26/13 22:54	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/26/13	2/26/13 22:54	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:54	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
cis-1,2-Dichloroethylene	2.8	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
2,2-Dichloropropane	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-217S

Sampled: 2/22/2013 09:15

Sample ID: 13B0642-03

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	2/26/13	2/26/13 22:54	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:54	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Tetrachloroethylene	7.8	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Trichloroethylene	1.4	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 22:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	115	70-130	
Toluene-d8	97.7	70-130	
4-Bromofluorobenzene	97.6	70-130	

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-217D

Sampled: 2/22/2013 09:30

Sample ID: 13B0642-04

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	2/26/13	2/26/13 23:25	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/26/13	2/26/13 23:25	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 23:25	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
cis-1,2-Dichloroethylene	5.2	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
2,2-Dichloropropane	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF

Project Location: Providence, RI

Sample Description:

Work Order: 13B0642

Date Received: 2/25/2013

Field Sample #: MW-217D

Sampled: 2/22/2013 09:30

Sample ID: 13B0642-04

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	2/26/13	2/26/13 23:25	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 23:25	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Trichloroethylene	7.2	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/26/13	2/26/13 23:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	117	70-130	
Toluene-d8	96.1	70-130	
4-Bromofluorobenzene	98.3	70-130	

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0642-02 [MW-216D]	B068244	5	5.00	02/26/13
13B0642-03 [MW-217S]	B068244	5	5.00	02/26/13
13B0642-04 [MW-217D]	B068244	5	5.00	02/26/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0642-01 [MW-216S]	B068296	5	5.00	02/27/13

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
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Batch B068244 - SW-846 5030B

Blank (B068244-BLK1)

Prepared & Analyzed: 02/26/13

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							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	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	5.0	µg/L							V-05
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	5.0	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							

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
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Batch B068244 - SW-846 5030B

Blank (B068244-BLK1)

Prepared & Analyzed: 02/26/13

Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05
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							V-05
1,2,4-Trichlorobenzene	ND	5.0	µg/L							V-05
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	29.6		µg/L	25.0		119	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.9	70-130			

LCS (B068244-BS1)

Prepared & Analyzed: 02/26/13

Acetone	136	50	µg/L	100		136	70-160			†
Acrylonitrile	8.79	5.0	µg/L	10.0		87.9	70-130			
tert-Amyl Methyl Ether (TAME)	11.2	0.50	µg/L	10.0		112	70-130			
Benzene	10.0	1.0	µg/L	10.0		100	70-130			
Bromobenzene	10.9	1.0	µg/L	10.0		109	70-130			
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130			
Bromodichloromethane	11.3	0.50	µg/L	10.0		113	70-130			
Bromoform	9.18	1.0	µg/L	10.0		91.8	70-130			
Bromomethane	4.64	2.0	µg/L	10.0		46.4	40-160			†
2-Butanone (MEK)	101	20	µg/L	100		101	40-160			†
tert-Butyl Alcohol (TBA)	96.3	20	µg/L	100		96.3	40-160			V-16 †
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
sec-Butylbenzene	12.1	1.0	µg/L	10.0		121	70-130			
tert-Butylbenzene	12.5	1.0	µg/L	10.0		125	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.3	0.50	µg/L	10.0		113	70-130			
Carbon Disulfide	11.2	5.0	µg/L	10.0		112	70-130			
Carbon Tetrachloride	11.7	5.0	µg/L	10.0		117	70-130			
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
Chlorodibromomethane	9.58	0.50	µg/L	10.0		95.8	70-130			
Chloroethane	11.7	2.0	µg/L	10.0		117	70-130			
Chloroform	11.4	2.0	µg/L	10.0		114	70-130			
Chloromethane	8.34	2.0	µg/L	10.0		83.4	40-160			V-05 †
2-Chlorotoluene	12.0	1.0	µg/L	10.0		120	70-130			

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 B068244 - SW-846 5030B										
LCS (B068244-BS1)										
Prepared & Analyzed: 02/26/13										
4-Chlorotoluene	12.7	1.0	µg/L	10.0		127	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.36	5.0	µg/L	10.0		93.6	70-130			
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130			
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,3-Dichlorobenzene	11.8	1.0	µg/L	10.0		118	70-130			
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
trans-1,4-Dichloro-2-butene	7.52	5.0	µg/L	10.0		75.2	70-130			V-05
Dichlorodifluoromethane (Freon 12)	7.89	2.0	µg/L	10.0		78.9	40-160			†
1,1-Dichloroethane	9.62	1.0	µg/L	10.0		96.2	70-130			
1,2-Dichloroethane	12.8	1.0	µg/L	10.0		128	70-130			
1,1-Dichloroethylene	12.1	1.0	µg/L	10.0		121	70-130			
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130			
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130			
2,2-Dichloropropane	11.9	5.0	µg/L	10.0		119	40-130			†
1,1-Dichloropropene	11.1	2.0	µg/L	10.0		111	70-130			
cis-1,3-Dichloropropene	9.18	0.50	µg/L	10.0		91.8	70-130			
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130			
Diethyl Ether	11.7	2.0	µg/L	10.0		117	70-130			
Diisopropyl Ether (DIPE)	9.90	0.50	µg/L	10.0		99.0	70-130			
1,4-Dioxane	138	50	µg/L	100		138 *	40-130			L-02, V-16 †
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Hexachlorobutadiene	11.8	0.50	µg/L	10.0		118	70-130			
2-Hexanone (MBK)	112	10	µg/L	100		112	70-160			†
Isopropylbenzene (Cumene)	12.0	1.0	µg/L	10.0		120	70-130			
p-Isopropyltoluene (p-Cymene)	12.1	1.0	µg/L	10.0		121	70-130			
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0		108	70-130			
Methylene Chloride	10.2	5.0	µg/L	10.0		102	70-130			
4-Methyl-2-pentanone (MIBK)	112	10	µg/L	100		112	70-160			†
Naphthalene	6.42	2.0	µg/L	10.0		64.2	40-130			V-05 †
n-Propylbenzene	12.0	1.0	µg/L	10.0		120	70-130			
Styrene	11.6	1.0	µg/L	10.0		116	70-130			
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2,2-Tetrachloroethane	9.62	0.50	µg/L	10.0		96.2	70-130			
Tetrachloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130			
Toluene	11.1	1.0	µg/L	10.0		111	70-130			
1,2,3-Trichlorobenzene	7.16	5.0	µg/L	10.0		71.6	70-130			V-05
1,2,4-Trichlorobenzene	6.50	5.0	µg/L	10.0		65.0 *	70-130			L-07, V-05
1,3,5-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,1,1-Trichloroethane	11.8	1.0	µg/L	10.0		118	70-130			
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
Trichloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
Trichlorofluoromethane (Freon 11)	13.0	2.0	µg/L	10.0		130	70-130			
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.0		109	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.9	1.0	µg/L	10.0		129	70-130			
1,2,4-Trimethylbenzene	11.8	1.0	µg/L	10.0		118	70-130			
1,3,5-Trimethylbenzene	12.0	1.0	µg/L	10.0		120	70-130			
Vinyl Chloride	10.1	2.0	µg/L	10.0		101	40-160			†

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
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Batch B068244 - SW-846 5030B

LCS (B068244-BS1)

Prepared & Analyzed: 02/26/13

m+p Xylene	24.3	2.0	µg/L	20.0		122	70-130			
o-Xylene	12.6	1.0	µg/L	10.0		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	27.5		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

LCS Dup (B068244-BSD1)

Prepared & Analyzed: 02/26/13

Acetone	148	50	µg/L	100		148	70-160	9.00	25	†
Acrylonitrile	9.43	5.0	µg/L	10.0		94.3	70-130	7.03	25	
tert-Amyl Methyl Ether (TAME)	11.6	0.50	µg/L	10.0		116	70-130	3.78	25	
Benzene	9.91	1.0	µg/L	10.0		99.1	70-130	0.904	25	
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.70	25	
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130	2.61	25	
Bromodichloromethane	10.9	0.50	µg/L	10.0		109	70-130	4.05	25	
Bromoform	9.16	1.0	µg/L	10.0		91.6	70-130	0.218	25	
Bromomethane	4.68	2.0	µg/L	10.0		46.8	40-160	0.858	25	†
2-Butanone (MEK)	115	20	µg/L	100		115	40-160	12.9	25	†
tert-Butyl Alcohol (TBA)	121	20	µg/L	100		121	40-160	22.6	25	V-16 †
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.555	25	
sec-Butylbenzene	11.8	1.0	µg/L	10.0		118	70-130	2.60	25	
tert-Butylbenzene	12.3	1.0	µg/L	10.0		123	70-130	1.86	25	
tert-Butyl Ethyl Ether (TBEE)	11.6	0.50	µg/L	10.0		116	70-130	2.54	25	
Carbon Disulfide	10.7	5.0	µg/L	10.0		107	70-130	4.84	25	
Carbon Tetrachloride	11.3	5.0	µg/L	10.0		113	70-130	3.47	25	
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.15	25	
Chlorodibromomethane	9.43	0.50	µg/L	10.0		94.3	70-130	1.58	25	
Chloroethane	11.4	2.0	µg/L	10.0		114	70-130	2.16	25	
Chloroform	11.4	2.0	µg/L	10.0		114	70-130	0.176	25	
Chloromethane	8.17	2.0	µg/L	10.0		81.7	40-160	2.06	25	V-05 †
2-Chlorotoluene	11.7	1.0	µg/L	10.0		117	70-130	1.77	25	
4-Chlorotoluene	12.6	1.0	µg/L	10.0		126	70-130	1.18	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109	70-130	15.2	25	
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	1.28	25	
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130	1.26	25	
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	1.05	25	
1,3-Dichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130	2.32	25	
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	1.66	25	
trans-1,4-Dichloro-2-butene	8.18	5.0	µg/L	10.0		81.8	70-130	8.41	25	V-05
Dichlorodifluoromethane (Freon 12)	7.98	2.0	µg/L	10.0		79.8	40-160	1.13	25	†
1,1-Dichloroethane	9.49	1.0	µg/L	10.0		94.9	70-130	1.36	25	
1,2-Dichloroethane	12.6	1.0	µg/L	10.0		126	70-130	1.18	25	
1,1-Dichloroethylene	11.5	1.0	µg/L	10.0		115	70-130	4.84	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.584	25	
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	2.51	25	
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130	0.297	25	
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	0.190	25	
2,2-Dichloropropane	11.6	5.0	µg/L	10.0		116	40-130	2.47	25	†
1,1-Dichloropropene	11.1	2.0	µg/L	10.0		111	70-130	0.180	25	
cis-1,3-Dichloropropene	9.19	0.50	µg/L	10.0		91.9	70-130	0.109	25	
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	1.29	25	
Diethyl Ether	12.1	2.0	µg/L	10.0		121	70-130	3.44	25	
Diisopropyl Ether (DIPE)	9.85	0.50	µg/L	10.0		98.5	70-130	0.506	25	

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
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Batch B068244 - SW-846 5030B

LCS Dup (B068244-BSD1)

Prepared & Analyzed: 02/26/13

1,4-Dioxane	168	50	µg/L	100		168 *	40-130	19.2	50	L-02, V-16 † ‡
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	0.447	25	
Hexachlorobutadiene	12.0	0.50	µg/L	10.0		120	70-130	2.19	25	
2-Hexanone (MBK)	122	10	µg/L	100		122	70-160	8.54	25	†
Isopropylbenzene (Cumene)	11.9	1.0	µg/L	10.0		119	70-130	1.25	25	
p-Isopropyltoluene (p-Cymene)	11.8	1.0	µg/L	10.0		118	70-130	2.69	25	
Methyl tert-Butyl Ether (MTBE)	11.3	1.0	µg/L	10.0		113	70-130	4.07	25	
Methylene Chloride	10.4	5.0	µg/L	10.0		104	70-130	1.64	25	
4-Methyl-2-pentanone (MIBK)	120	10	µg/L	100		120	70-160	6.86	25	†
Naphthalene	7.54	2.0	µg/L	10.0		75.4	40-130	16.0	25	V-05 †
n-Propylbenzene	11.7	1.0	µg/L	10.0		117	70-130	2.70	25	
Styrene	11.3	1.0	µg/L	10.0		113	70-130	2.45	25	
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108	70-130	1.12	25	
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102	70-130	5.75	25	
Tetrachloroethylene	11.2	1.0	µg/L	10.0		112	70-130	4.12	25	
Tetrahydrofuran	11.8	10	µg/L	10.0		118	70-130	13.8	25	
Toluene	10.8	1.0	µg/L	10.0		108	70-130	2.10	25	
1,2,3-Trichlorobenzene	8.45	5.0	µg/L	10.0		84.5	70-130	16.5	25	V-05
1,2,4-Trichlorobenzene	7.44	5.0	µg/L	10.0		74.4	70-130	13.5	25	V-05
1,3,5-Trichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	6.02	25	
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130	2.32	25	
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	1.45	25	
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	3.57	25	
Trichlorofluoromethane (Freon 11)	12.5	2.0	µg/L	10.0		125	70-130	3.84	25	
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130	5.53	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.7	1.0	µg/L	10.0		127	70-130	1.65	25	
1,2,4-Trimethylbenzene	11.6	1.0	µg/L	10.0		116	70-130	1.72	25	
1,3,5-Trimethylbenzene	11.6	1.0	µg/L	10.0		116	70-130	2.71	25	
Vinyl Chloride	9.82	2.0	µg/L	10.0		98.2	40-160	2.41	25	†
m+p Xylene	24.1	2.0	µg/L	20.0		120	70-130	0.950	25	
o-Xylene	12.5	1.0	µg/L	10.0		125	70-130	0.717	25	
Surrogate: 1,2-Dichloroethane-d4	27.8		µg/L	25.0		111	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

Batch B068296 - SW-846 5030B

Blank (B068296-BLK1)

Prepared: 02/27/13 Analyzed: 03/02/13

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							

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
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Batch B068296 - SW-846 5030B

Blank (B068296-BLK1)

Prepared: 02/27/13 Analyzed: 03/02/13

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							
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							
Methylene Chloride	ND	5.0	µg/L							L-04, V-05
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							
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							

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
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Batch B068296 - SW-846 5030B

Blank (B068296-BLK1)

Prepared: 02/27/13 Analyzed: 03/02/13

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	24.5		µg/L	25.0		98.2	70-130			
Surrogate: Toluene-d8	24.2		µg/L	25.0		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		96.7	70-130			

LCS (B068296-BS1)

Prepared: 02/27/13 Analyzed: 03/01/13

Acetone	82.0	50	µg/L	100		82.0	70-160			†
Acrylonitrile	11.4	5.0	µg/L	10.0		114	70-130			
tert-Amyl Methyl Ether (TAME)	9.91	0.50	µg/L	10.0		99.1	70-130			
Benzene	10.4	1.0	µg/L	10.0		104	70-130			
Bromobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromochloromethane	11.2	1.0	µg/L	10.0		112	70-130			
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130			
Bromoform	9.92	1.0	µg/L	10.0		99.2	70-130			
Bromomethane	4.71	2.0	µg/L	10.0		47.1	40-160		V-20	†
2-Butanone (MEK)	84.8	20	µg/L	100		84.8	40-160			†
tert-Butyl Alcohol (TBA)	69.8	20	µg/L	100		69.8	40-160		V-16	†
n-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
sec-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
tert-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130			
Carbon Disulfide	8.73	2.0	µg/L	10.0		87.3	70-130			
Carbon Tetrachloride	9.55	5.0	µg/L	10.0		95.5	70-130			
Chlorobenzene	11.6	1.0	µg/L	10.0		116	70-130			
Chlorodibromomethane	9.15	0.50	µg/L	10.0		91.5	70-130			
Chloroethane	9.78	2.0	µg/L	10.0		97.8	70-130			
Chloroform	10.6	2.0	µg/L	10.0		106	70-130			
Chloromethane	7.49	2.0	µg/L	10.0		74.9	40-160			†
2-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130			
4-Chlorotoluene	11.8	1.0	µg/L	10.0		118	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.14	5.0	µg/L	10.0		81.4	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130			
Dibromomethane	11.0	1.0	µg/L	10.0		110	70-130			
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,3-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,4-Dichloro-2-butene	8.79	2.0	µg/L	10.0		87.9	70-130			
Dichlorodifluoromethane (Freon 12)	7.59	2.0	µg/L	10.0		75.9	40-160			†
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1-Dichloroethylene	9.77	1.0	µg/L	10.0		97.7	70-130			
cis-1,2-Dichloroethylene	9.81	1.0	µg/L	10.0		98.1	70-130			
trans-1,2-Dichloroethylene	12.0	1.0	µg/L	10.0		120	70-130			

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 B068296 - SW-846 5030B										
LCS (B068296-BS1)										
					Prepared: 02/27/13 Analyzed: 03/01/13					
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130			
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104	70-130			
2,2-Dichloropropane	7.52	1.0	µg/L	10.0		75.2	40-130			†
1,1-Dichloropropene	10.2	2.0	µg/L	10.0		102	70-130			
cis-1,3-Dichloropropene	8.36	0.50	µg/L	10.0		83.6	70-130			
trans-1,3-Dichloropropene	8.68	0.50	µg/L	10.0		86.8	70-130			
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130			
Diisopropyl Ether (DIPE)	12.6	0.50	µg/L	10.0		126	70-130			
1,4-Dioxane	95.5	50	µg/L	100		95.5	40-130			V-16 †
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Hexachlorobutadiene	10.4	0.50	µg/L	10.0		104	70-130			
2-Hexanone (MBK)	92.3	10	µg/L	100		92.3	70-160			†
Isopropylbenzene (Cumene)	11.7	1.0	µg/L	10.0		117	70-130			
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111	70-130			
Methyl tert-Butyl Ether (MTBE)	11.4	1.0	µg/L	10.0		114	70-130			
Methylene Chloride	6.84	5.0	µg/L	10.0		68.4 *	70-130			L-04, V-05
4-Methyl-2-pentanone (MIBK)	94.7	10	µg/L	100		94.7	70-160			†
Naphthalene	7.60	2.0	µg/L	10.0		76.0	40-130			†
n-Propylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
Styrene	11.8	1.0	µg/L	10.0		118	70-130			
1,1,1,2-Tetrachloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
Tetrahydrofuran	9.63	10	µg/L	10.0		96.3	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	7.92	5.0	µg/L	10.0		79.2	70-130			
1,2,4-Trichlorobenzene	9.46	1.0	µg/L	10.0		94.6	70-130			
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0		107	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104	70-130			
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Vinyl Chloride	8.18	2.0	µg/L	10.0		81.8	40-160			†
m+p Xylene	23.2	2.0	µg/L	20.0		116	70-130			
o-Xylene	11.8	1.0	µg/L	10.0		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.9		µg/L	25.0		95.4	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			

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
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Batch B068296 - SW-846 5030B

LCS Dup (B068296-BSD1)

Prepared: 02/27/13 Analyzed: 03/02/13

Acetone	86.3	50	µg/L	100		86.3	70-160	5.16	25	†
Acrylonitrile	12.7	5.0	µg/L	10.0		127	70-130	10.9	25	
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102	70-130	2.79	25	
Benzene	9.94	1.0	µg/L	10.0		99.4	70-130	4.04	25	
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	1.77	25	
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130	3.44	25	
Bromodichloromethane	9.90	0.50	µg/L	10.0		99.0	70-130	5.79	25	
Bromoform	9.81	1.0	µg/L	10.0		98.1	70-130	1.12	25	
Bromomethane	5.72	2.0	µg/L	10.0		57.2	40-160	19.4	25	V-20 †
2-Butanone (MEK)	90.3	20	µg/L	100		90.3	40-160	6.32	25	†
tert-Butyl Alcohol (TBA)	77.5	20	µg/L	100		77.5	40-160	10.5	25	V-16 †
n-Butylbenzene	9.40	1.0	µg/L	10.0		94.0	70-130	6.78	25	
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	7.33	25	
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	6.52	25	
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130	0.00	25	
Carbon Disulfide	7.78	2.0	µg/L	10.0		77.8	70-130	11.5	25	
Carbon Tetrachloride	8.91	5.0	µg/L	10.0		89.1	70-130	6.93	25	
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	2.71	25	
Chlorodibromomethane	9.09	0.50	µg/L	10.0		90.9	70-130	0.658	25	
Chloroethane	9.57	2.0	µg/L	10.0		95.7	70-130	2.17	25	
Chloroform	10.2	2.0	µg/L	10.0		102	70-130	3.74	25	
Chloromethane	7.29	2.0	µg/L	10.0		72.9	40-160	2.71	25	†
2-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	3.31	25	
4-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130	3.19	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.61	5.0	µg/L	10.0		86.1	70-130	5.61	25	
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130	1.57	25	
Dibromomethane	10.8	1.0	µg/L	10.0		108	70-130	1.65	25	
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.92	25	
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	5.08	25	
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	2.84	25	
trans-1,4-Dichloro-2-butene	9.05	2.0	µg/L	10.0		90.5	70-130	2.91	25	
Dichlorodifluoromethane (Freon 12)	6.76	2.0	µg/L	10.0		67.6	40-160	11.6	25	†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130	4.04	25	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	3.11	25	
1,1-Dichloroethylene	8.88	1.0	µg/L	10.0		88.8	70-130	9.54	25	
cis-1,2-Dichloroethylene	9.34	1.0	µg/L	10.0		93.4	70-130	4.91	25	
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	4.70	25	
1,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	70-130	3.53	25	
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130	1.45	25	
2,2-Dichloropropane	6.85	1.0	µg/L	10.0		68.5	40-130	9.32	25	†
1,1-Dichloropropene	9.56	2.0	µg/L	10.0		95.6	70-130	6.67	25	
cis-1,3-Dichloropropene	8.11	0.50	µg/L	10.0		81.1	70-130	3.04	25	
trans-1,3-Dichloropropene	8.59	0.50	µg/L	10.0		85.9	70-130	1.04	25	
Diethyl Ether	10.2	2.0	µg/L	10.0		102	70-130	0.391	25	
Diisopropyl Ether (DIPE)	12.3	0.50	µg/L	10.0		123	70-130	3.13	25	
1,4-Dioxane	103	50	µg/L	100		103	40-130	7.82	50	V-16 † ‡
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	5.12	25	
Hexachlorobutadiene	9.89	0.50	µg/L	10.0		98.9	70-130	5.31	25	
2-Hexanone (MBK)	99.6	10	µg/L	100		99.6	70-160	7.55	25	†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111	70-130	5.52	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130	4.63	25	
Methyl tert-Butyl Ether (MTBE)	11.4	1.0	µg/L	10.0		114	70-130	0.263	25	

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 B068296 - SW-846 5030B										
LCS Dup (B068296-BSD1)										
					Prepared: 02/27/13 Analyzed: 03/02/13					
Methylene Chloride	6.09	5.0	µg/L	10.0		60.9	* 70-130	11.6	25	L-04, V-05
4-Methyl-2-pentanone (MIBK)	100	10	µg/L	100		100	70-160	5.65	25	†
Naphthalene	8.09	2.0	µg/L	10.0		80.9	40-130	6.25	25	†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130	5.04	25	
Styrene	11.4	1.0	µg/L	10.0		114	70-130	2.84	25	
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101	70-130	2.35	25	
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130	3.16	25	
Tetrachloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130	5.87	25	
Tetrahydrofuran	10.6	10	µg/L	10.0		106	70-130	9.31	25	
Toluene	9.97	1.0	µg/L	10.0		99.7	70-130	5.94	25	
1,2,3-Trichlorobenzene	8.61	5.0	µg/L	10.0		86.1	70-130	8.35	25	
1,2,4-Trichlorobenzene	9.50	1.0	µg/L	10.0		95.0	70-130	0.422	25	
1,3,5-Trichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130	3.67	25	
1,1,1-Trichloroethane	9.38	1.0	µg/L	10.0		93.8	70-130	7.69	25	
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	0.478	25	
Trichloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130	5.51	25	
Trichlorofluoromethane (Freon 11)	9.18	2.0	µg/L	10.0		91.8	70-130	10.8	25	
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111	70-130	3.85	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.37	1.0	µg/L	10.0		93.7	70-130	10.1	25	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130	4.65	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	4.71	25	
Vinyl Chloride	8.00	2.0	µg/L	10.0		80.0	40-160	2.22	25	†
m+p Xylene	22.0	2.0	µg/L	20.0		110	70-130	5.39	25	
o-Xylene	11.5	1.0	µg/L	10.0		115	70-130	2.65	25	
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.4	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.6	70-130			

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-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low 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.
 - 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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
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

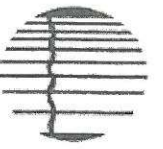
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
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	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
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	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
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	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



CON-TEST
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

13B0642
Rev 04.01.10

Company Name: Shaw Environmental, A C&I Co. Telephone: 617-589-4030

Address: 150 Royall Street Canton, MA 02021 Project # 130274

Attention: Ed Vandoren Client PO# 835493

Project Location: Providence, RI DATA DELIVERY (check all that apply)

Sampled By: Daniel Leahy Email: edward.vandoren@cbi.com

Project Proposal Provided? (for billing purposes)

Yes No proposal date

Format: PDF EXCEL OGIS OTHER GISKey format

Collection: "Enhanced Data Package"

Con-Test Lab ID <small>(lab only use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Part Code	Cont. Code
01	MW-2165	2/21/13	0800		✓	GW	G/V
02	MW-2167D	2/21/13	0845		✓		
03	MW-2175	2/21/13	0915		✓		
04	MW-2177D	2/21/13	0930		✓		

Comments:

2/21/13

Relinquished by: (signature) *[Signature]* Date/Time: 2/21/13

Received by: (signature) *[Signature]* Date/Time: 2/21/13

Relinquished by: (signature) *[Signature]* Date/Time: 2/25/13

Received by: (signature) *[Signature]* Date/Time: 2/25/13

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 INCOMPLETE, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT.

ANALYSIS REQUESTED

VOC (EPA 8260B)

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

Is your project MCP or RCP?

- MCP Form Required
- RCP Form Required
- MA State DW Form Required PWSID #



NELAC & AIHA-LAP, LLC Accredited

WBEDBE Certified

Page 1 of 1

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Shaw RECEIVED BY: KKm DATE: 2/25/13

- 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 2.7

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	8		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 8 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

March 21, 2013

Edward Van Doren
CB&I - MA
150 Royall Street
Canton, MA 02021

Project Location: Providence, RI
Client Job Number:
Project Number: 130274
Laboratory Work Order Number: 13B0453

Enclosed are results of analyses for samples received by the laboratory on February 18, 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

CB&I - MA
150 Royall Street
Canton, MA 02021
ATTN: Edward Van Doren

REPORT DATE: 3/21/2013

PURCHASE ORDER NUMBER: 835493-000 OP

PROJECT NUMBER: 130274

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13B0453

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-207S	13B0453-01	Ground Water		SW-846 8260C	
MW-207D	13B0453-02	Ground Water		SW-846 8260C	
MW-202S	13B0453-03	Ground Water		SW-846 8260C	
MW-202D	13B0453-04	Ground Water		SW-846 8260C	
MW-101D	13B0453-05	Ground Water		SW-846 8260C	
MW-101S	13B0453-06	Ground Water		SW-846 8260C	
MW-101S DUP	13B0453-07	Ground Water		SW-846 8260C	
MW-201D	13B0453-08	Ground Water		SW-846 8260C	
MW-112	13B0453-09	Ground Water		SW-846 8260C	
MW-209D	13B0453-10	Ground Water		SW-846 8260C	
GZA-3	13B0453-11	Ground Water		SW-846 6010C	
				SW-846 8260C	
GZA-3 DUP	13B0453-12	Ground Water		SW-846 6010C	
MW-109D	13B0453-13	Ground Water		SW-846 6010C	
				SW-846 8260C	
CW-2	13B0453-14	Ground Water		SW-846 8260C	
MW-218D	13B0453-15	Ground Water		SW-846 8260C	
MW-218S	13B0453-16	Ground Water		SW-846 8260C	
MW-116D	13B0453-17	Ground Water		SW-846 8260C	
MW-116S	13B0453-18	Ground Water		SW-846 8260C	
CW-6	13B0453-19	Ground Water		SW-846 8015C	
CW-6 DUP	13B0453-20	Ground Water		SW-846 8015C	
CW-1	13B0453-21	Ground Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

REVISED REPORT - TCE originally not reported for sample 13B0453-10. TCE now included for all samples.

SW-846 8015C

Qualifications:

Sample contamination does not match any reference standard. Majority of contamination falls within C12-C32 of the hydrocarbon range.

Analyte & Samples(s) Qualified:

TPH (C9-C36)

13B0453-19[CW-6], 13B0453-20[CW-6 DUP]

SW-846 8260C

Qualifications:

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:

1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane, tert-Butylbenzene

B067994-BSD1, B068044-BSD1, B068044-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

13B0453-01[MW-207S], 13B0453-02[MW-207D], 13B0453-03[MW-202S], 13B0453-04[MW-202D], 13B0453-08[MW-201D], 13B0453-16[MW-218S], B067993-BLK1, B067993-BS1, B067993-BSD1, B068044-BLK1, B068044-BS1, B068044-BSD1

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

13B0453-09[MW-112]

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

13B0453-16[MW-218S]

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:

Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12)

13B0453-09[MW-112], 13B0453-10[MW-209D], B067994-BLK1, B067994-BS1, B067994-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)

13B0453-01[MW-207S], 13B0453-02[MW-207D], 13B0453-03[MW-202S], 13B0453-04[MW-202D], 13B0453-05[MW-101D], 13B0453-06[MW-101S], 13B0453-07[MW-101S DUP], 13B0453-08[MW-201D], 13B0453-09[MW-112], 13B0453-10[MW-209D], 13B0453-11[GZA-3], 13B0453-13[MW-109D], 13B0453-14[CW-2], 13B0453-15[MW-218D], 13B0453-16[MW-218S], 13B0453-17[MW-116D], 13B0453-18[MW-116S], 13B0453-21[CW-1], B067993-BLK1, B067993-BS1, B067993-BSD1, B067994-BLK1, B067994-BS1, B067994-BSD1, B068044-BLK1, B068044-BS1, B068044-BSD1, B068078-BLK1, B068078-BS1, B068078-BSD1, B068116-BLK1, B068116-BS1, B068116-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:

1,4-Dioxane, Bromomethane

B067994-BS1, B067994-BSD1, B068078-BS1, B068078-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.



James M. Georgantas
Project Chemist

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-207S

Sampled: 2/13/2013 08:30

Sample ID: 13B0453-01

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	2/19/13	2/19/13 17:27	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Bromomethane	ND	5.0	µg/L	1	R-05	SW-846 8260C	2/19/13	2/19/13 17:27	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 17:27	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Chloroform	10	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
cis-1,2-Dichloroethylene	12	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-207S

Sampled: 2/13/2013 08:30

Sample ID: 13B0453-01

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	2/19/13	2/19/13 17:27	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Tetrachloroethylene	190	20	µg/L	20		SW-846 8260C	2/20/13	2/20/13 12:27	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Trichloroethylene	2.6	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	97.8	70-130	2/19/13 17:27
1,2-Dichloroethane-d4	99.9	70-130	2/20/13 12:27
Toluene-d8	103	70-130	2/20/13 12:27
Toluene-d8	100	70-130	2/19/13 17:27
4-Bromofluorobenzene	109	70-130	2/19/13 17:27
4-Bromofluorobenzene	102	70-130	2/20/13 12:27

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-207D

Sampled: 2/13/2013 09:00

Sample ID: 13B0453-02

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	2/19/13	2/19/13 17:53	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Bromomethane	ND	5.0	µg/L	1	R-05	SW-846 8260C	2/19/13	2/19/13 17:53	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 17:53	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-207D

Sampled: 2/13/2013 09:00

Sample ID: 13B0453-02

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	2/19/13	2/19/13 17:53	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Tetrachloroethylene	2.5	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 17:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.1	70-130	2/19/13 17:53
Toluene-d8	106	70-130	2/19/13 17:53
4-Bromofluorobenzene	103	70-130	2/19/13 17:53

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-202S

Sampled: 2/13/2013 09:30

Sample ID: 13B0453-03

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	2/19/13	2/19/13 18:19	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Bromomethane	ND	5.0	µg/L	1	R-05	SW-846 8260C	2/19/13	2/19/13 18:19	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 18:19	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Chloroform	2.2	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-202S

Sampled: 2/13/2013 09:30

Sample ID: 13B0453-03

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	2/19/13	2/19/13 18:19	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Tetrachloroethylene	38	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	95.6	70-130	2/19/13 18:19
Toluene-d8	102	70-130	2/19/13 18:19
4-Bromofluorobenzene	102	70-130	2/19/13 18:19

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-202D

Sampled: 2/13/2013 10:00

Sample ID: 13B0453-04

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	2/19/13	2/19/13 18:45	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Bromomethane	ND	5.0	µg/L	1	R-05	SW-846 8260C	2/19/13	2/19/13 18:45	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 18:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Chloroform	12	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
cis-1,2-Dichloroethylene	3.7	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-202D

Sampled: 2/13/2013 10:00

Sample ID: 13B0453-04

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	2/19/13	2/19/13 18:45	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Tetrachloroethylene	430	50	µg/L	50		SW-846 8260C	2/20/13	2/20/13 12:53	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Trichloroethylene	2.4	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 18:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.6	70-130	2/19/13 18:45
1,2-Dichloroethane-d4	103	70-130	2/20/13 12:53
Toluene-d8	105	70-130	2/20/13 12:53
Toluene-d8	104	70-130	2/19/13 18:45
4-Bromofluorobenzene	105	70-130	2/19/13 18:45
4-Bromofluorobenzene	99.4	70-130	2/20/13 12:53

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-101D

Sampled: 2/13/2013 10:45

Sample ID: 13B0453-05

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	2/22/13	2/22/13 13:47	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 13:47	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-101D

Sampled: 2/13/2013 10:45

Sample ID: 13B0453-05

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	2/22/13	2/22/13 13:47	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Tetrachloroethylene	14	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 13:47	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.0	70-130	2/22/13 13:47
Toluene-d8	101	70-130	2/22/13 13:47
4-Bromofluorobenzene	105	70-130	2/22/13 13:47

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-101S

Sampled: 2/13/2013 11:45

Sample ID: 13B0453-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	200	50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 14:13	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
cis-1,2-Dichloroethylene	2.2	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-101S

Sampled: 2/13/2013 11:45

Sample ID: 13B0453-06

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	2/22/13	2/22/13 14:13	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Tetrachloroethylene	3.1	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:13	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	93.2	70-130	2/22/13 14:13
Toluene-d8	99.8	70-130	2/22/13 14:13
4-Bromofluorobenzene	104	70-130	2/22/13 14:13

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-101S DUP

Sampled: 2/13/2013 11:45

Sample ID: 13B0453-07

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	2/21/13	2/21/13 12:09	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 12:09	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
cis-1,2-Dichloroethylene	2.3	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-101S DUP

Sampled: 2/13/2013 11:45

Sample ID: 13B0453-07

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	2/21/13	2/21/13 12:09	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Tetrachloroethylene	3.0	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	97.6	70-130	2/21/13 12:09
Toluene-d8	103	70-130	2/21/13 12:09
4-Bromofluorobenzene	101	70-130	2/21/13 12:09

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-201D

Sampled: 2/13/2013 12:45

Sample ID: 13B0453-08

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	2/19/13	2/19/13 19:11	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Bromomethane	ND	5.0	µg/L	1	R-05	SW-846 8260C	2/19/13	2/19/13 19:11	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 19:11	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Chloroform	9.9	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
cis-1,2-Dichloroethylene	3.4	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-201D

Sampled: 2/13/2013 12:45

Sample ID: 13B0453-08

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	2/19/13	2/19/13 19:11	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Methyl tert-Butyl Ether (MTBE)	1.2	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Tetrachloroethylene	6000	100	µg/L	100		SW-846 8260C	2/20/13	2/20/13 14:11	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1,1-Trichloroethane	4.6	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Trichloroethylene	130	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/19/13 19:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	99.2	70-130	2/19/13 19:11
1,2-Dichloroethane-d4	99.4	70-130	2/20/13 14:11
Toluene-d8	102	70-130	2/19/13 19:11
Toluene-d8	107	70-130	2/20/13 14:11
4-Bromofluorobenzene	106	70-130	2/20/13 14:11
4-Bromofluorobenzene	102	70-130	2/19/13 19:11

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-112

Sampled: 2/13/2013 13:30

Sample ID: 13B0453-09

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	25000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Acrylonitrile	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
tert-Amyl Methyl Ether (TAME)	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Benzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Bromobenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Bromochloromethane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Bromodichloromethane	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Bromoform	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Bromomethane	ND	1000	µg/L	500	V-05	SW-846 8260C	2/19/13	2/21/13 16:23	MFF
2-Butanone (MEK)	ND	10000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
tert-Butyl Alcohol (TBA)	ND	10000	µg/L	500	V-16	SW-846 8260C	2/19/13	2/21/13 16:23	MFF
n-Butylbenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
sec-Butylbenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
tert-Butylbenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Carbon Disulfide	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Carbon Tetrachloride	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Chlorobenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Chlorodibromomethane	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Chloroethane	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Chloroform	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Chloromethane	ND	1000	µg/L	500	V-05	SW-846 8260C	2/19/13	2/21/13 16:23	MFF
2-Chlorotoluene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
4-Chlorotoluene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2-Dibromoethane (EDB)	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Dibromomethane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2-Dichlorobenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,3-Dichlorobenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,4-Dichlorobenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
trans-1,4-Dichloro-2-butene	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	1000	µg/L	500	V-05	SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1-Dichloroethane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2-Dichloroethane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1-Dichloroethylene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
cis-1,2-Dichloroethylene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
trans-1,2-Dichloroethylene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2-Dichloropropane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,3-Dichloropropane	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
2,2-Dichloropropane	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1-Dichloropropene	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
cis-1,3-Dichloropropene	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
trans-1,3-Dichloropropene	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Diethyl Ether	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-112

Sampled: 2/13/2013 13:30

Sample ID: 13B0453-09

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	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,4-Dioxane	ND	25000	µg/L	500	V-16	SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Ethylbenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Hexachlorobutadiene	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
2-Hexanone (MBK)	ND	5000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Isopropylbenzene (Cumene)	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Methylene Chloride	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	5000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Naphthalene	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
n-Propylbenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Styrene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1,1,2-Tetrachloroethane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1,2,2-Tetrachloroethane	ND	250	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Tetrachloroethylene	25000	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Tetrahydrofuran	ND	5000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Toluene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2,3-Trichlorobenzene	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2,4-Trichlorobenzene	ND	2500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,3,5-Trichlorobenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1,1-Trichloroethane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1,2-Trichloroethane	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Trichloroethylene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Trichlorofluoromethane (Freon 11)	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2,3-Trichloropropane	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,2,4-Trimethylbenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
1,3,5-Trimethylbenzene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
Vinyl Chloride	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
m+p Xylene	ND	1000	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF
o-Xylene	ND	500	µg/L	500		SW-846 8260C	2/19/13	2/21/13 16:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	114	70-130	2/21/13 16:23
Toluene-d8	97.7	70-130	2/21/13 16:23
4-Bromofluorobenzene	97.9	70-130	2/21/13 16:23

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-209D

Sampled: 2/13/2013 14:15

Sample ID: 13B0453-10

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	2/19/13	2/21/13 16:53	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/19/13	2/21/13 16:53	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/19/13	2/21/13 16:53	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/19/13	2/21/13 16:53	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
trans-1,4-Dichloro-2-butene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1-Dichloroethylene	3.4	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
cis-1,2-Dichloroethylene	19	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
trans-1,2-Dichloroethylene	1.5	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
2,2-Dichloropropane	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-209D

Sampled: 2/13/2013 14:15

Sample ID: 13B0453-10

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	2/19/13	2/21/13 16:53	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Methyl tert-Butyl Ether (MTBE)	1.5	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Tetrachloroethylene	880	100	µg/L	100		SW-846 8260C	2/19/13	2/22/13 18:09	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Trichloroethylene	190	100	µg/L	100		SW-846 8260C	2/19/13	2/22/13 18:09	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF
o-Xylene	ND	100	µg/L	100		SW-846 8260C	2/19/13	2/22/13 18:09	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/19/13	2/21/13 16:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	115	70-130	2/21/13 16:53
1,2-Dichloroethane-d4	96.0	70-130	2/22/13 18:09
Toluene-d8	103	70-130	2/22/13 18:09
Toluene-d8	98.6	70-130	2/21/13 16:53
4-Bromofluorobenzene	97.4	70-130	2/21/13 16:53
4-Bromofluorobenzene	103	70-130	2/22/13 18:09

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: GZA-3

Sampled: 2/13/2013 15:15

Sample ID: 13B0453-11

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	2/21/13	2/21/13 12:36	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 12:36	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1-Dichloroethane	1.1	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1-Dichloroethylene	1.1	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
cis-1,2-Dichloroethylene	58	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: GZA-3

Sampled: 2/13/2013 15:15

Sample ID: 13B0453-11

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	2/21/13	2/21/13 12:36	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Methyl tert-Butyl Ether (MTBE)	6.6	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Trichloroethylene	3.2	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
Vinyl Chloride	27	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 12:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	99.4	70-130	2/21/13 12:36
Toluene-d8	101	70-130	2/21/13 12:36
4-Bromofluorobenzene	106	70-130	2/21/13 12:36

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Sampled: 2/13/2013 15:15

Field Sample #: GZA-3

Sample ID: 13B0453-11

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	2/19/13	2/19/13 13:32	KSH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Sampled: 2/13/2013 15:15

Field Sample #: GZA-3 DUP

Sample ID: 13B0453-12

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	2/19/13	2/19/13 13:37	KSH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-109D

Sampled: 2/13/2013 16:00

Sample ID: 13B0453-13

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	2/22/13	2/22/13 14:40	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 14:40	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-109D

Sampled: 2/13/2013 16:00

Sample ID: 13B0453-13

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	2/22/13	2/22/13 14:40	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 14:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.2	70-130	2/22/13 14:40
Toluene-d8	101	70-130	2/22/13 14:40
4-Bromofluorobenzene	103	70-130	2/22/13 14:40

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Sampled: 2/13/2013 16:00

Field Sample #: MW-109D

Sample ID: 13B0453-13

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	2/19/13	2/19/13 13:41	KSH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: CW-2

Sampled: 2/14/2013 09:00

Sample ID: 13B0453-14

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	2/21/13	2/21/13 13:02	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 13:02	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: CW-2

Sampled: 2/14/2013 09:00

Sample ID: 13B0453-14

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	2/21/13	2/21/13 13:02	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	97.0	70-130	2/21/13 13:02
Toluene-d8	100	70-130	2/21/13 13:02
4-Bromofluorobenzene	108	70-130	2/21/13 13:02

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-218D

Sampled: 2/14/2013 10:30

Sample ID: 13B0453-15

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	2/21/13	2/21/13 14:20	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 14:20	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-218D

Sampled: 2/14/2013 10:30

Sample ID: 13B0453-15

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	2/21/13	2/21/13 14:20	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Tetrachloroethylene	99	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Trichloroethylene	7.6	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 14:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.8	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	106	70-130	

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-218S

Sampled: 2/14/2013 11:30

Sample ID: 13B0453-16

Sample Matrix: Ground Water

Sample Flags: RL-12

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	2/20/13	2/20/13 19:52	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Bromoform	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Bromomethane	ND	25	µg/L	5	R-05	SW-846 8260C	2/20/13	2/20/13 19:52	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-16	SW-846 8260C	2/20/13	2/20/13 19:52	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Chloromethane	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-218S

Sampled: 2/14/2013 11:30

Sample ID: 13B0453-16

Sample Matrix: Ground Water

Sample Flags: RL-12

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	2/20/13	2/20/13 19:52	EEH
1,4-Dioxane	ND	250	µg/L	5	V-16	SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Hexachlorobutadiene	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Naphthalene	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Trichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	2/20/13	2/20/13 19:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.4	70-130	2/20/13 19:52
Toluene-d8	102	70-130	2/20/13 19:52
4-Bromofluorobenzene	101	70-130	2/20/13 19:52

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-116D

Sampled: 2/14/2013 13:00

Sample ID: 13B0453-17

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	2/22/13	2/22/13 15:06	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 15:06	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-116D

Sampled: 2/14/2013 13:00

Sample ID: 13B0453-17

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	2/22/13	2/22/13 15:06	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/22/13	2/22/13 15:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.6	70-130	2/22/13 15:06
Toluene-d8	99.8	70-130	2/22/13 15:06
4-Bromofluorobenzene	105	70-130	2/22/13 15:06

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: MW-116S

Sampled: 2/14/2013 14:00

Sample ID: 13B0453-18

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	2/21/13	2/21/13 13:28	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 13:28	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Sampled: 2/14/2013 14:00

Field Sample #: MW-116S

Sample ID: 13B0453-18

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	2/21/13	2/21/13 13:28	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	98.2	70-130	2/21/13 13:28
Toluene-d8	104	70-130	2/21/13 13:28
4-Bromofluorobenzene	104	70-130	2/21/13 13:28

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Sampled: 2/15/2013 09:30

Field Sample #: CW-6

Sample ID: 13B0453-19

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	5.8	0.22	mg/L	1	Z-01	SW-846 8015C	2/20/13	2/22/13 11:15	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	96.5		40-140					2/22/13 11:15	

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Sampled: 2/15/2013 09:30

Field Sample #: CW-6 DUP

Sample ID: 13B0453-20

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	6.0	0.21	mg/L	1	Z-01	SW-846 8015C	2/20/13	2/22/13 11:33	SCS
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl	92.2		40-140					2/22/13 11:33	

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: CW-1

Sampled: 2/15/2013 08:00

Sample ID: 13B0453-21

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	2/21/13	2/21/13 13:54	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 13:54	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH

Project Location: Providence, RI

Sample Description:

Work Order: 13B0453

Date Received: 2/18/2013

Field Sample #: CW-1

Sampled: 2/15/2013 08:00

Sample ID: 13B0453-21

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	2/21/13	2/21/13 13:54	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	2/21/13	2/21/13 13:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	94.9	70-130	2/21/13 13:54
Toluene-d8	100	70-130	2/21/13 13:54
4-Bromofluorobenzene	106	70-130	2/21/13 13:54

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-11 [GZA-3]	B067967	50.0	50.0	02/19/13
13B0453-12 [GZA-3 DUP]	B067967	50.0	50.0	02/19/13
13B0453-13 [MW-109D]	B067967	50.0	50.0	02/19/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-19 [CW-6]	B068045	930	1.00	02/20/13
13B0453-20 [CW-6 DUP]	B068045	950	1.00	02/20/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-01 [MW-207S]	B067993	5	5.00	02/19/13
13B0453-02 [MW-207D]	B067993	5	5.00	02/19/13
13B0453-03 [MW-202S]	B067993	5	5.00	02/19/13
13B0453-04 [MW-202D]	B067993	5	5.00	02/19/13
13B0453-08 [MW-201D]	B067993	5	5.00	02/19/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-09 [MW-112]	B067994	0.01	5.00	02/19/13
13B0453-10 [MW-209D]	B067994	5	5.00	02/19/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-01RE1 [MW-207S]	B068044	0.25	5.00	02/20/13
13B0453-04RE1 [MW-202D]	B068044	0.1	5.00	02/20/13
13B0453-08RE1 [MW-201D]	B068044	0.05	5.00	02/20/13
13B0453-16 [MW-218S]	B068044	1	5.00	02/20/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-07 [MW-101S DUP]	B068078	5	5.00	02/21/13
13B0453-11 [GZA-3]	B068078	5	5.00	02/21/13
13B0453-14 [CW-2]	B068078	5	5.00	02/21/13
13B0453-15 [MW-218D]	B068078	5	5.00	02/21/13
13B0453-18 [MW-116S]	B068078	5	5.00	02/21/13
13B0453-21 [CW-1]	B068078	5	5.00	02/21/13

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-05 [MW-101D]	B068116	5	5.00	02/22/13

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13B0453-06 [MW-101S]	B068116	5	5.00	02/22/13
13B0453-10RE1 [MW-209D]	B068116	0.05	5.00	02/19/13
13B0453-13 [MW-109D]	B068116	5	5.00	02/22/13
13B0453-17 [MW-116D]	B068116	5	5.00	02/22/13

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
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Batch B067993 - SW-846 5030B

Blank (B067993-BLK1)

Prepared & Analyzed: 02/19/13

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	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	5.0	µg/L							R-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16
n-Butylbenzene	ND	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	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	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							

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
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Batch B067993 - SW-846 5030B

Blank (B067993-BLK1)

Prepared & Analyzed: 02/19/13

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							
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	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.7		µg/L	25.0		103	70-130			

LCS (B067993-BS1)

Prepared & Analyzed: 02/19/13

Acetone	104	50	µg/L	100		104	70-160			†
Acrylonitrile	10.6	5.0	µg/L	10.0		106	70-130			
tert-Amyl Methyl Ether (TAME)	10.8	0.50	µg/L	10.0		108	70-130			
Benzene	9.84	1.0	µg/L	10.0		98.4	70-130			
Bromobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130			
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130			
Bromoform	10.6	1.0	µg/L	10.0		106	70-130			
Bromomethane	4.01	5.0	µg/L	10.0		40.1	40-160		R-05	†
2-Butanone (MEK)	105	20	µg/L	100		105	40-160			†
tert-Butyl Alcohol (TBA)	122	20	µg/L	100		122	40-160		V-16	†
n-Butylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
sec-Butylbenzene	12.4	1.0	µg/L	10.0		124	70-130			
tert-Butylbenzene	12.2	1.0	µg/L	10.0		122	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130			
Carbon Disulfide	9.49	4.0	µg/L	10.0		94.9	70-130			
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102	70-130			
Chlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105	70-130			
Chloroethane	9.71	2.0	µg/L	10.0		97.1	70-130			
Chloroform	9.84	2.0	µg/L	10.0		98.4	70-130			
Chloromethane	6.47	2.0	µg/L	10.0		64.7	40-160			†
2-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130			

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 B067993 - SW-846 5030B										
LCS (B067993-BS1)										
Prepared & Analyzed: 02/19/13										
4-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	13.0	5.0	µg/L	10.0		130	70-130			
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130			
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichlorobenzene	12.0	1.0	µg/L	10.0		120	70-130			
1,3-Dichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130			
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
trans-1,4-Dichloro-2-butene	10.8	2.0	µg/L	10.0		108	70-130			
Dichlorodifluoromethane (Freon 12)	6.69	2.0	µg/L	10.0		66.9	40-160			†
1,1-Dichloroethane	9.84	1.0	µg/L	10.0		98.4	70-130			
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,1-Dichloroethylene	9.61	1.0	µg/L	10.0		96.1	70-130			
cis-1,2-Dichloroethylene	9.38	1.0	µg/L	10.0		93.8	70-130			
trans-1,2-Dichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130			
1,2-Dichloropropane	10.7	1.0	µg/L	10.0		107	70-130			
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130			
2,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	40-130			†
1,1-Dichloropropene	9.75	2.0	µg/L	10.0		97.5	70-130			
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130			
trans-1,3-Dichloropropene	12.0	0.50	µg/L	10.0		120	70-130			
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130			
Diisopropyl Ether (DIPE)	11.4	0.50	µg/L	10.0		114	70-130			
1,4-Dioxane	115	50	µg/L	100		115	40-130			V-16 †
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
Hexachlorobutadiene	11.1	0.50	µg/L	10.0		111	70-130			
2-Hexanone (MBK)	123	10	µg/L	100		123	70-160			†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.0		106	70-130			
p-Isopropyltoluene (p-Cymene)	12.5	1.0	µg/L	10.0		125	70-130			
Methyl tert-Butyl Ether (MTBE)	11.1	1.0	µg/L	10.0		111	70-130			
Methylene Chloride	10.2	5.0	µg/L	10.0		102	70-130			
4-Methyl-2-pentanone (MIBK)	123	10	µg/L	100		123	70-160			†
Naphthalene	11.5	2.0	µg/L	10.0		115	40-130			†
n-Propylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Styrene	10.6	1.0	µg/L	10.0		106	70-130			
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
Tetrahydrofuran	11.1	10	µg/L	10.0		111	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109	70-130			
1,2,4-Trichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3,5-Trichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,1,1-Trichloroethane	9.74	1.0	µg/L	10.0		97.4	70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
Trichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.0		103	70-130			
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.0		110	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0		101	70-130			
1,2,4-Trimethylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Vinyl Chloride	7.64	2.0	µg/L	10.0		76.4	40-160			†

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
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Batch B067993 - SW-846 5030B

LCS (B067993-BS1)

Prepared & Analyzed: 02/19/13

m+p Xylene	21.7	2.0	µg/L	20.0		109	70-130			
o-Xylene	11.6	1.0	µg/L	10.0		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/L	25.0		99.5	70-130			
Surrogate: Toluene-d8	25.9		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			

LCS Dup (B067993-BSD1)

Prepared & Analyzed: 02/19/13

Acetone	94.9	50	µg/L	100		94.9	70-160	8.88	25	†
Acrylonitrile	10.4	5.0	µg/L	10.0		104	70-130	2.00	25	
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104	70-130	3.40	25	
Benzene	9.67	1.0	µg/L	10.0		96.7	70-130	1.74	25	
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	1.68	25	
Bromochloromethane	10.1	1.0	µg/L	10.0		101	70-130	3.32	25	
Bromodichloromethane	9.84	0.50	µg/L	10.0		98.4	70-130	1.91	25	
Bromoform	10.5	1.0	µg/L	10.0		105	70-130	1.04	25	
Bromomethane	5.46	5.0	µg/L	10.0		54.6	40-160	30.6 *	25	R-05 †
2-Butanone (MEK)	96.5	20	µg/L	100		96.5	40-160	8.48	25	†
tert-Butyl Alcohol (TBA)	101	20	µg/L	100		101	40-160	19.1	25	V-16 †
n-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130	0.532	25	
sec-Butylbenzene	11.6	1.0	µg/L	10.0		116	70-130	6.59	25	
tert-Butylbenzene	11.7	1.0	µg/L	10.0		117	70-130	4.25	25	
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130	0.273	25	
Carbon Disulfide	9.17	4.0	µg/L	10.0		91.7	70-130	3.43	25	
Carbon Tetrachloride	9.92	5.0	µg/L	10.0		99.2	70-130	2.69	25	
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.644	25	
Chlorodibromomethane	9.95	0.50	µg/L	10.0		99.5	70-130	5.38	25	
Chloroethane	10.5	2.0	µg/L	10.0		105	70-130	7.63	25	
Chloroform	9.70	2.0	µg/L	10.0		97.0	70-130	1.43	25	
Chloromethane	7.14	2.0	µg/L	10.0		71.4	40-160	9.85	25	†
2-Chlorotoluene	11.6	1.0	µg/L	10.0		116	70-130	7.41	25	
4-Chlorotoluene	12.1	1.0	µg/L	10.0		121	70-130	5.36	25	
1,2-Dibromo-3-chloropropane (DBCP)	11.4	5.0	µg/L	10.0		114	70-130	13.0	25	
1,2-Dibromoethane (EDB)	9.99	0.50	µg/L	10.0		99.9	70-130	4.88	25	
Dibromomethane	9.53	1.0	µg/L	10.0		95.3	70-130	10.9	25	
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	7.62	25	
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	9.20	25	
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	2.11	25	
trans-1,4-Dichloro-2-butene	10.7	2.0	µg/L	10.0		107	70-130	1.21	25	
Dichlorodifluoromethane (Freon 12)	6.85	2.0	µg/L	10.0		68.5	40-160	2.36	25	†
1,1-Dichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130	0.910	25	
1,2-Dichloroethane	9.34	1.0	µg/L	10.0		93.4	70-130	7.32	25	
1,1-Dichloroethylene	9.98	1.0	µg/L	10.0		99.8	70-130	3.78	25	
cis-1,2-Dichloroethylene	9.39	1.0	µg/L	10.0		93.9	70-130	0.107	25	
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	2.40	25	
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130	4.90	25	
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	4.26	25	
2,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	40-130	0.492	25	†
1,1-Dichloropropene	9.82	2.0	µg/L	10.0		98.2	70-130	0.715	25	
cis-1,3-Dichloropropene	9.93	0.50	µg/L	10.0		99.3	70-130	7.84	25	
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130	9.56	25	
Diethyl Ether	9.95	2.0	µg/L	10.0		99.5	70-130	8.56	25	
Diisopropyl Ether (DIPE)	11.1	0.50	µg/L	10.0		111	70-130	2.41	25	

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
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Batch B067993 - SW-846 5030B

LCS Dup (B067993-BSD1)

Prepared & Analyzed: 02/19/13

1,4-Dioxane	101	50	µg/L	100		101	40-130	13.2	50	V-16 † ‡
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.944	25	
Hexachlorobutadiene	10.3	0.50	µg/L	10.0		103	70-130	7.41	25	
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160	15.0	25	†
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0		115	70-130	7.96	25	
p-Isopropyltoluene (p-Cymene)	11.8	1.0	µg/L	10.0		118	70-130	5.44	25	
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.0		107	70-130	4.40	25	
Methylene Chloride	10.2	5.0	µg/L	10.0		102	70-130	0.195	25	
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108	70-160	12.7	25	†
Naphthalene	9.64	2.0	µg/L	10.0		96.4	40-130	17.8	25	†
n-Propylbenzene	11.5	1.0	µg/L	10.0		115	70-130	1.75	25	
Styrene	10.7	1.0	µg/L	10.0		107	70-130	0.845	25	
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101	70-130	2.63	25	
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130	3.75	25	
Tetrachloroethylene	9.73	1.0	µg/L	10.0		97.3	70-130	10.1	25	
Tetrahydrofuran	11.0	10	µg/L	10.0		110	70-130	1.00	25	
Toluene	10.1	1.0	µg/L	10.0		101	70-130	5.03	25	
1,2,3-Trichlorobenzene	9.53	5.0	µg/L	10.0		95.3	70-130	13.8	25	
1,2,4-Trichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130	11.0	25	
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	8.67	25	
1,1,1-Trichloroethane	9.85	1.0	µg/L	10.0		98.5	70-130	1.12	25	
1,1,2-Trichloroethane	9.76	1.0	µg/L	10.0		97.6	70-130	6.16	25	
Trichloroethylene	9.33	1.0	µg/L	10.0		93.3	70-130	7.43	25	
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.0		103	70-130	0.00	25	
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.0		108	70-130	2.11	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.81	1.0	µg/L	10.0		98.1	70-130	2.71	25	
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	6.20	25	
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	5.64	25	
Vinyl Chloride	7.97	2.0	µg/L	10.0		79.7	40-160	4.23	25	†
m+p Xylene	23.1	2.0	µg/L	20.0		116	70-130	6.25	25	
o-Xylene	11.7	1.0	µg/L	10.0		117	70-130	0.948	25	
Surrogate: 1,2-Dichloroethane-d4	24.3		µg/L	25.0		97.1	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	26.8		µg/L	25.0		107	70-130			

Batch B067994 - SW-846 5030B

Blank (B067994-BLK1)

Prepared: 02/19/13 Analyzed: 02/21/13

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	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
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							

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
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Batch B067994 - SW-846 5030B

Blank (B067994-BLK1)

Prepared: 02/19/13 Analyzed: 02/21/13

tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	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	5.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
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	5.0	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							
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							
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							

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 B067994 - SW-846 5030B										
Blank (B067994-BLK1)										
Prepared: 02/19/13 Analyzed: 02/21/13										
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	27.8		µg/L	25.0		111	70-130			
Surrogate: Toluene-d8	24.1		µg/L	25.0		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.2	70-130			
LCS (B067994-BS1)										
Prepared: 02/19/13 Analyzed: 02/21/13										
Acetone	121	50	µg/L	100		121	70-160			†
Acrylonitrile	8.25	5.0	µg/L	10.0		82.5	70-130			
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130			
Benzene	8.96	1.0	µg/L	10.0		89.6	70-130			
Bromobenzene	9.82	1.0	µg/L	10.0		98.2	70-130			
Bromochloromethane	9.64	1.0	µg/L	10.0		96.4	70-130			
Bromodichloromethane	9.78	0.50	µg/L	10.0		97.8	70-130			
Bromoform	8.55	1.0	µg/L	10.0		85.5	70-130			
Bromomethane	4.24	2.0	µg/L	10.0		42.4	40-160		V-05	†
2-Butanone (MEK)	96.2	20	µg/L	100		96.2	40-160			†
tert-Butyl Alcohol (TBA)	102	20	µg/L	100		102	40-160		V-16	†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
sec-Butylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
tert-Butylbenzene	11.7	1.0	µg/L	10.0		117	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0		104	70-130			
Carbon Disulfide	9.13	5.0	µg/L	10.0		91.3	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130			
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
Chlorodibromomethane	8.72	0.50	µg/L	10.0		87.2	70-130			
Chloroethane	10.7	2.0	µg/L	10.0		107	70-130			
Chloroform	10.0	2.0	µg/L	10.0		100	70-130			
Chloromethane	6.92	2.0	µg/L	10.0		69.2	40-160		V-05	†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130			
4-Chlorotoluene	11.6	1.0	µg/L	10.0		116	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.1	5.0	µg/L	10.0		101	70-130			
1,2-Dibromoethane (EDB)	9.97	0.50	µg/L	10.0		99.7	70-130			
Dibromomethane	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
trans-1,4-Dichloro-2-butene	7.65	5.0	µg/L	10.0		76.5	70-130			
Dichlorodifluoromethane (Freon 12)	6.01	2.0	µg/L	10.0		60.1	40-160		V-05	†
1,1-Dichloroethane	8.69	1.0	µg/L	10.0		86.9	70-130			
1,2-Dichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
cis-1,2-Dichloroethylene	9.41	1.0	µg/L	10.0		94.1	70-130			
trans-1,2-Dichloroethylene	9.30	1.0	µg/L	10.0		93.0	70-130			

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 B067994 - SW-846 5030B										
LCS (B067994-BS1)										
Prepared: 02/19/13 Analyzed: 02/21/13										
1,2-Dichloropropane	9.17	1.0	µg/L	10.0		91.7	70-130			
1,3-Dichloropropane	9.66	0.50	µg/L	10.0		96.6	70-130			
2,2-Dichloropropane	10.7	5.0	µg/L	10.0		107	40-130			†
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101	70-130			
cis-1,3-Dichloropropene	8.35	0.50	µg/L	10.0		83.5	70-130			
trans-1,3-Dichloropropene	9.21	0.50	µg/L	10.0		92.1	70-130			
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130			
Diisopropyl Ether (DIPE)	9.04	0.50	µg/L	10.0		90.4	70-130			
1,4-Dioxane	130	50	µg/L	100		130	40-130			V-16, V-20 †
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
Hexachlorobutadiene	11.3	0.50	µg/L	10.0		113	70-130			
2-Hexanone (MBK)	107	10	µg/L	100		107	70-160			†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.0		112	70-130			
p-Isopropyltoluene (p-Cymene)	11.3	1.0	µg/L	10.0		113	70-130			
Methyl tert-Butyl Ether (MTBE)	9.90	1.0	µg/L	10.0		99.0	70-130			
Methylene Chloride	8.62	5.0	µg/L	10.0		86.2	70-130			
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100		105	70-160			†
Naphthalene	7.61	2.0	µg/L	10.0		76.1	40-130			†
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	9.67	1.0	µg/L	10.0		96.7	70-130			
1,1,2,2-Tetrachloroethane	9.38	0.50	µg/L	10.0		93.8	70-130			
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Tetrahydrofuran	8.90	10	µg/L	10.0		89.0	70-130			
Toluene	10.0	1.0	µg/L	10.0		100	70-130			
1,2,3-Trichlorobenzene	8.40	5.0	µg/L	10.0		84.0	70-130			
1,2,4-Trichlorobenzene	7.65	5.0	µg/L	10.0		76.5	70-130			
1,3,5-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2-Trichloroethane	9.46	1.0	µg/L	10.0		94.6	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0		116	70-130			
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8	1.0	µg/L	10.0		118	70-130			
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Vinyl Chloride	9.10	2.0	µg/L	10.0		91.0	40-160			†
m+p Xylene	22.4	2.0	µg/L	20.0		112	70-130			
o-Xylene	11.4	1.0	µg/L	10.0		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	26.7		µg/L	25.0		107	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

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
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Batch B067994 - SW-846 5030B

LCS Dup (B067994-BSD1)

Prepared: 02/19/13 Analyzed: 02/21/13

Acetone	119	50	µg/L	100		119	70-160	1.27	25	†
Acrylonitrile	8.19	5.0	µg/L	10.0		81.9	70-130	0.730	25	
tert-Amyl Methyl Ether (TAME)	9.43	0.50	µg/L	10.0		94.3	70-130	7.06	25	
Benzene	8.21	1.0	µg/L	10.0		82.1	70-130	8.74	25	
Bromobenzene	9.07	1.0	µg/L	10.0		90.7	70-130	7.94	25	
Bromochloromethane	8.77	1.0	µg/L	10.0		87.7	70-130	9.45	25	
Bromodichloromethane	8.91	0.50	µg/L	10.0		89.1	70-130	9.31	25	
Bromoform	8.47	1.0	µg/L	10.0		84.7	70-130	0.940	25	
Bromomethane	4.23	2.0	µg/L	10.0		42.3	40-160	0.236	25	V-05 †
2-Butanone (MEK)	97.9	20	µg/L	100		97.9	40-160	1.76	25	†
tert-Butyl Alcohol (TBA)	105	20	µg/L	100		105	40-160	2.71	25	V-16 †
n-Butylbenzene	9.39	1.0	µg/L	10.0		93.9	70-130	11.1	25	
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	9.26	25	
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	11.0	25	
tert-Butyl Ethyl Ether (TBEE)	9.65	0.50	µg/L	10.0		96.5	70-130	7.58	25	
Carbon Disulfide	8.47	5.0	µg/L	10.0		84.7	70-130	7.50	25	
Carbon Tetrachloride	10.0	5.0	µg/L	10.0		100	70-130	3.73	25	
Chlorobenzene	9.49	1.0	µg/L	10.0		94.9	70-130	8.48	25	
Chlorodibromomethane	8.30	0.50	µg/L	10.0		83.0	70-130	4.94	25	
Chloroethane	9.88	2.0	µg/L	10.0		98.8	70-130	8.16	25	
Chloroform	9.24	2.0	µg/L	10.0		92.4	70-130	7.90	25	
Chloromethane	6.25	2.0	µg/L	10.0		62.5	40-160	10.2	25	V-05 †
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	7.82	25	
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	8.14	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.3	5.0	µg/L	10.0		103	70-130	2.05	25	
1,2-Dibromoethane (EDB)	9.47	0.50	µg/L	10.0		94.7	70-130	5.14	25	
Dibromomethane	9.37	1.0	µg/L	10.0		93.7	70-130	7.00	25	
1,2-Dichlorobenzene	9.72	1.0	µg/L	10.0		97.2	70-130	8.66	25	
1,3-Dichlorobenzene	9.78	1.0	µg/L	10.0		97.8	70-130	9.91	25	
1,4-Dichlorobenzene	9.12	1.0	µg/L	10.0		91.2	70-130	10.0	25	
trans-1,4-Dichloro-2-butene	7.59	5.0	µg/L	10.0		75.9	70-130	0.787	25	
Dichlorodifluoromethane (Freon 12)	6.52	2.0	µg/L	10.0		65.2	40-160	8.14	25	V-05 †
1,1-Dichloroethane	8.02	1.0	µg/L	10.0		80.2	70-130	8.02	25	
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	6.69	25	
1,1-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	2.76	25	
cis-1,2-Dichloroethylene	8.54	1.0	µg/L	10.0		85.4	70-130	9.69	25	
trans-1,2-Dichloroethylene	8.59	1.0	µg/L	10.0		85.9	70-130	7.94	25	
1,2-Dichloropropane	8.22	1.0	µg/L	10.0		82.2	70-130	10.9	25	
1,3-Dichloropropane	9.05	0.50	µg/L	10.0		90.5	70-130	6.52	25	
2,2-Dichloropropane	10.1	5.0	µg/L	10.0		101	40-130	6.05	25	†
1,1-Dichloropropene	9.75	2.0	µg/L	10.0		97.5	70-130	3.33	25	
cis-1,3-Dichloropropene	7.70	0.50	µg/L	10.0		77.0	70-130	8.10	25	
trans-1,3-Dichloropropene	8.58	0.50	µg/L	10.0		85.8	70-130	7.08	25	
Diethyl Ether	10.3	2.0	µg/L	10.0		103	70-130	4.94	25	
Diisopropyl Ether (DIPE)	8.39	0.50	µg/L	10.0		83.9	70-130	7.46	25	
1,4-Dioxane	139	50	µg/L	100		139 *	40-130	6.69	50	L-07, V-16, V-20, † ‡ L-07
Ethylbenzene	9.60	1.0	µg/L	10.0		96.0	70-130	8.19	25	
Hexachlorobutadiene	10.4	0.50	µg/L	10.0		104	70-130	8.36	25	
2-Hexanone (MBK)	106	10	µg/L	100		106	70-160	1.50	25	†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105	70-130	6.92	25	
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130	8.77	25	
Methyl tert-Butyl Ether (MTBE)	9.45	1.0	µg/L	10.0		94.5	70-130	4.65	25	

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
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Batch B067994 - SW-846 5030B

LCS Dup (B067994-BSD1)

Prepared: 02/19/13 Analyzed: 02/21/13

Methylene Chloride	8.05	5.0	µg/L	10.0		80.5	70-130	6.84	25	
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100		106	70-160	0.605	25	†
Naphthalene	7.49	2.0	µg/L	10.0		74.9	40-130	1.59	25	†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130	8.43	25	
Styrene	9.65	1.0	µg/L	10.0		96.5	70-130	7.86	25	
1,1,1,2-Tetrachloroethane	8.94	1.0	µg/L	10.0		89.4	70-130	7.85	25	
1,1,2,2-Tetrachloroethane	9.35	0.50	µg/L	10.0		93.5	70-130	0.320	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	2.71	25	
Tetrahydrofuran	9.69	10	µg/L	10.0		96.9	70-130	8.50	25	
Toluene	9.29	1.0	µg/L	10.0		92.9	70-130	7.76	25	
1,2,3-Trichlorobenzene	8.03	5.0	µg/L	10.0		80.3	70-130	4.50	25	
1,2,4-Trichlorobenzene	6.89	5.0	µg/L	10.0		68.9 *	70-130	10.5	25	L-07, L-07
1,3,5-Trichlorobenzene	9.38	1.0	µg/L	10.0		93.8	70-130	11.5	25	
1,1,1-Trichloroethane	9.77	1.0	µg/L	10.0		97.7	70-130	5.09	25	
1,1,2-Trichloroethane	9.04	1.0	µg/L	10.0		90.4	70-130	4.54	25	
Trichloroethylene	9.32	1.0	µg/L	10.0		93.2	70-130	8.92	25	
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.0		120	70-130	3.38	25	
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0		104	70-130	0.867	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4	1.0	µg/L	10.0		124	70-130	5.45	25	
1,2,4-Trimethylbenzene	9.62	1.0	µg/L	10.0		96.2	70-130	11.6	25	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	9.22	25	
Vinyl Chloride	8.60	2.0	µg/L	10.0		86.0	40-160	5.65	25	†
m+p Xylene	20.7	2.0	µg/L	20.0		103	70-130	7.94	25	
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	7.63	25	
Surrogate: 1,2-Dichloroethane-d4	27.1		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			

Batch B068044 - SW-846 5030B

Blank (B068044-BLK1)

Prepared & Analyzed: 02/20/13

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	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	5.0	µg/L							R-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16
n-Butylbenzene	ND	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	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							

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
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Batch B068044 - SW-846 5030B

Blank (B068044-BLK1)

Prepared & Analyzed: 02/20/13

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	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							
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							
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							

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
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Batch B068044 - SW-846 5030B

Blank (B068044-BLK1)

Prepared & Analyzed: 02/20/13

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	25.2		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

LCS (B068044-BS1)

Prepared & Analyzed: 02/20/13

Acetone	105	50	µg/L	100		105	70-160			†
Acrylonitrile	11.4	5.0	µg/L	10.0		114	70-130			
tert-Amyl Methyl Ether (TAME)	10.3	0.50	µg/L	10.0		103	70-130			
Benzene	10.2	1.0	µg/L	10.0		102	70-130			
Bromobenzene	11.6	1.0	µg/L	10.0		116	70-130			
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130			
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130			
Bromoform	10.7	1.0	µg/L	10.0		107	70-130			
Bromomethane	3.71	5.0	µg/L	10.0		37.1 *	40-160			R-05 †
2-Butanone (MEK)	108	20	µg/L	100		108	40-160			†
tert-Butyl Alcohol (TBA)	116	20	µg/L	100		116	40-160			V-16 †
n-Butylbenzene	12.2	1.0	µg/L	10.0		122	70-130			
sec-Butylbenzene	12.6	1.0	µg/L	10.0		126	70-130			
tert-Butylbenzene	13.1	1.0	µg/L	10.0		131 *	70-130			L-07
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	11.2	1.0	µg/L	10.0		112	70-130			
Chlorodibromomethane	9.98	0.50	µg/L	10.0		99.8	70-130			
Chloroethane	9.80	2.0	µg/L	10.0		98.0	70-130			
Chloroform	9.98	2.0	µg/L	10.0		99.8	70-130			
Chloromethane	5.51	2.0	µg/L	10.0		55.1	40-160			†
2-Chlorotoluene	12.5	1.0	µg/L	10.0		125	70-130			
4-Chlorotoluene	12.7	1.0	µg/L	10.0		127	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	12.9	5.0	µg/L	10.0		129	70-130			
1,2-Dibromoethane (EDB)	9.96	0.50	µg/L	10.0		99.6	70-130			
Dibromomethane	9.91	1.0	µg/L	10.0		99.1	70-130			
1,2-Dichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130			
1,3-Dichlorobenzene	12.3	1.0	µg/L	10.0		123	70-130			
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
trans-1,4-Dichloro-2-butene	10.3	2.0	µg/L	10.0		103	70-130			
Dichlorodifluoromethane (Freon 12)	6.26	2.0	µg/L	10.0		62.6	40-160			†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichloroethane	9.67	1.0	µg/L	10.0		96.7	70-130			
1,1-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
cis-1,2-Dichloroethylene	9.80	1.0	µg/L	10.0		98.0	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
2,2-Dichloropropane	9.81	1.0	µg/L	10.0		98.1	40-130			†
1,1-Dichloropropene	10.5	2.0	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130			
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130			

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
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Batch B068044 - SW-846 5030B

LCS (B068044-BS1)

Prepared & Analyzed: 02/20/13

Diethyl Ether	10.4	2.0	µg/L	10.0		104	70-130			
Diisopropyl Ether (DIPE)	11.6	0.50	µg/L	10.0		116	70-130			
1,4-Dioxane	122	50	µg/L	100		122	40-130			V-16 †
Ethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Hexachlorobutadiene	10.9	0.50	µg/L	10.0		109	70-130			
2-Hexanone (MBK)	117	10	µg/L	100		117	70-160			†
Isopropylbenzene (Cumene)	12.0	1.0	µg/L	10.0		120	70-130			
p-Isopropyltoluene (p-Cymene)	12.7	1.0	µg/L	10.0		127	70-130			
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130			
Methylene Chloride	11.1	5.0	µg/L	10.0		111	70-130			
4-Methyl-2-pentanone (MIBK)	118	10	µg/L	100		118	70-160			†
Naphthalene	11.2	2.0	µg/L	10.0		112	40-130			†
n-Propylbenzene	12.2	1.0	µg/L	10.0		122	70-130			
Styrene	11.1	1.0	µg/L	10.0		111	70-130			
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.0		114	70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
Tetrahydrofuran	10.9	10	µg/L	10.0		109	70-130			
Toluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2,3-Trichlorobenzene	9.94	5.0	µg/L	10.0		99.4	70-130			
1,2,4-Trichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3,5-Trichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2-Trichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130			
Trichloroethylene	9.98	1.0	µg/L	10.0		99.8	70-130			
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130			
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.0		104	70-130			
1,2,4-Trimethylbenzene	11.9	1.0	µg/L	10.0		119	70-130			
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Vinyl Chloride	7.39	2.0	µg/L	10.0		73.9	40-160			†
m+p Xylene	23.8	2.0	µg/L	20.0		119	70-130			
o-Xylene	12.1	1.0	µg/L	10.0		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.6	70-130			
Surrogate: Toluene-d8	23.9		µg/L	25.0		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	27.0		µg/L	25.0		108	70-130			

LCS Dup (B068044-BSD1)

Prepared & Analyzed: 02/20/13

Acetone	112	50	µg/L	100		112	70-160	6.88	25	†
Acrylonitrile	11.8	5.0	µg/L	10.0		118	70-130	4.14	25	
tert-Amyl Methyl Ether (TAME)	10.9	0.50	µg/L	10.0		109	70-130	5.48	25	
Benzene	9.81	1.0	µg/L	10.0		98.1	70-130	3.51	25	
Bromobenzene	11.3	1.0	µg/L	10.0		113	70-130	3.40	25	
Bromochloromethane	10.6	1.0	µg/L	10.0		106	70-130	3.07	25	
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130	2.17	25	
Bromoform	10.4	1.0	µg/L	10.0		104	70-130	1.99	25	
Bromomethane	5.31	5.0	µg/L	10.0		53.1	40-160	35.5 *	25	R-05 †
2-Butanone (MEK)	113	20	µg/L	100		113	40-160	3.99	25	†
tert-Butyl Alcohol (TBA)	118	20	µg/L	100		118	40-160	1.90	25	V-16 †
n-Butylbenzene	11.8	1.0	µg/L	10.0		118	70-130	3.59	25	
sec-Butylbenzene	12.4	1.0	µg/L	10.0		124	70-130	1.51	25	
tert-Butylbenzene	12.6	1.0	µg/L	10.0		126	70-130	3.89	25	

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
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Batch B068044 - SW-846 5030B

LCS Dup (B068044-BSD1)

Prepared & Analyzed: 02/20/13

tert-Butyl Ethyl Ether (TBEE)	11.4	0.50	µg/L	10.0		114	70-130	10.7	25	
Carbon Disulfide	10.1	4.0	µg/L	10.0		101	70-130	0.981	25	
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	1.67	25	
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	1.17	25	
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103	70-130	2.86	25	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	3.51	25	
Chloroform	10.4	2.0	µg/L	10.0		104	70-130	4.03	25	
Chloromethane	7.00	2.0	µg/L	10.0		70.0	40-160	23.8	25	†
2-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130	8.78	25	
4-Chlorotoluene	12.1	1.0	µg/L	10.0		121	70-130	4.69	25	
1,2-Dibromo-3-chloropropane (DBCP)	13.3	5.0	µg/L	10.0		133	* 70-130	3.51	25	L-07
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130	8.09	25	
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	6.82	25	
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	3.84	25	
1,3-Dichlorobenzene	12.2	1.0	µg/L	10.0		122	70-130	0.816	25	
1,4-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	0.180	25	
trans-1,4-Dichloro-2-butene	11.4	2.0	µg/L	10.0		114	70-130	9.60	25	
Dichlorodifluoromethane (Freon 12)	6.22	2.0	µg/L	10.0		62.2	40-160	0.641	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	0.388	25	
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130	3.65	25	
1,1-Dichloroethylene	9.80	1.0	µg/L	10.0		98.0	70-130	3.31	25	
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	2.02	25	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	0.376	25	
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	70-130	5.69	25	
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130	4.54	25	
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130	5.55	25	†
1,1-Dichloropropene	10.2	2.0	µg/L	10.0		102	70-130	2.70	25	
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130	1.45	25	
trans-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117	70-130	7.73	25	
Diethyl Ether	11.1	2.0	µg/L	10.0		111	70-130	6.90	25	
Diisopropyl Ether (DIPE)	12.0	0.50	µg/L	10.0		120	70-130	3.30	25	
1,4-Dioxane	128	50	µg/L	100		128	40-130	4.95	50	V-16 † ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	4.34	25	
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108	70-130	1.38	25	
2-Hexanone (MBK)	125	10	µg/L	100		125	70-160	6.41	25	†
Isopropylbenzene (Cumene)	11.4	1.0	µg/L	10.0		114	70-130	5.65	25	
p-Isopropyltoluene (p-Cymene)	12.0	1.0	µg/L	10.0		120	70-130	5.34	25	
Methyl tert-Butyl Ether (MTBE)	11.7	1.0	µg/L	10.0		117	70-130	12.1	25	
Methylene Chloride	11.5	5.0	µg/L	10.0		115	70-130	3.73	25	
4-Methyl-2-pentanone (MIBK)	124	10	µg/L	100		124	70-160	5.36	25	†
Naphthalene	11.3	2.0	µg/L	10.0		113	40-130	0.622	25	†
n-Propylbenzene	11.7	1.0	µg/L	10.0		117	70-130	3.85	25	
Styrene	11.2	1.0	µg/L	10.0		112	70-130	0.627	25	
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130	0.0939	25	
1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.0		114	70-130	0.702	25	
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130	0.464	25	
Tetrahydrofuran	10.9	10	µg/L	10.0		109	70-130	0.183	25	
Toluene	10.8	1.0	µg/L	10.0		108	70-130	4.75	25	
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108	70-130	7.92	25	
1,2,4-Trichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	1.18	25	
1,3,5-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.35	25	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	1.55	25	

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
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Batch B068044 - SW-846 5030B

LCS Dup (B068044-BSD1)

Prepared & Analyzed: 02/20/13

1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	7.65	25	
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	3.45	25	
Trichlorofluoromethane (Freon 11)	10.7	2.0	µg/L	10.0		107	70-130	5.17	25	
1,2,3-Trichloropropane	11.4	2.0	µg/L	10.0		114	70-130	0.870	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130	0.861	25	
1,2,4-Trimethylbenzene	11.8	1.0	µg/L	10.0		118	70-130	0.507	25	
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	3.11	25	
Vinyl Chloride	7.45	2.0	µg/L	10.0		74.5	40-160	0.809	25	†
m+p Xylene	22.6	2.0	µg/L	20.0		113	70-130	5.26	25	
o-Xylene	12.1	1.0	µg/L	10.0		121	70-130	0.496	25	
Surrogate: 1,2-Dichloroethane-d4	25.5		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.9		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

Batch B068078 - SW-846 5030B

Blank (B068078-BLK1)

Prepared & Analyzed: 02/21/13

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	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	5.0	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							
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							

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 B068078 - SW-846 5030B										
Blank (B068078-BLK1)										
Prepared & Analyzed: 02/21/13										
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	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							
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							
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	25.2		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	26.5		µg/L	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	26.7		µg/L	25.0		104	70-130			

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 B068078 - SW-846 5030B										
LCS (B068078-BS1)										
Prepared & Analyzed: 02/21/13										
Acetone	99.8	50	µg/L	100		99.8	70-160			†
Acrylonitrile	9.80	5.0	µg/L	10.0		98.0	70-130			
tert-Amyl Methyl Ether (TAME)	9.84	0.50	µg/L	10.0		98.4	70-130			
Benzene	8.78	1.0	µg/L	10.0		87.8	70-130			
Bromobenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
Bromochloromethane	9.56	1.0	µg/L	10.0		95.6	70-130			
Bromodichloromethane	8.95	0.50	µg/L	10.0		89.5	70-130			
Bromoform	9.33	1.0	µg/L	10.0		93.3	70-130			
Bromomethane	6.62	5.0	µg/L	10.0		66.2	40-160			V-20 †
2-Butanone (MEK)	96.5	20	µg/L	100		96.5	40-160			†
tert-Butyl Alcohol (TBA)	108	20	µg/L	100		108	40-160			V-16 †
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130			
Carbon Disulfide	7.83	4.0	µg/L	10.0		78.3	70-130			
Carbon Tetrachloride	9.11	5.0	µg/L	10.0		91.1	70-130			
Chlorobenzene	9.74	1.0	µg/L	10.0		97.4	70-130			
Chlorodibromomethane	9.36	0.50	µg/L	10.0		93.6	70-130			
Chloroethane	9.31	2.0	µg/L	10.0		93.1	70-130			
Chloroform	8.89	2.0	µg/L	10.0		88.9	70-130			
Chloromethane	6.96	2.0	µg/L	10.0		69.6	40-160			†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
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)	9.63	0.50	µg/L	10.0		96.3	70-130			
Dibromomethane	9.22	1.0	µg/L	10.0		92.2	70-130			
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,4-Dichlorobenzene	9.67	1.0	µg/L	10.0		96.7	70-130			
trans-1,4-Dichloro-2-butene	9.97	2.0	µg/L	10.0		99.7	70-130			
Dichlorodifluoromethane (Freon 12)	5.01	2.0	µg/L	10.0		50.1	40-160			†
1,1-Dichloroethane	8.88	1.0	µg/L	10.0		88.8	70-130			
1,2-Dichloroethane	8.92	1.0	µg/L	10.0		89.2	70-130			
1,1-Dichloroethylene	8.93	1.0	µg/L	10.0		89.3	70-130			
cis-1,2-Dichloroethylene	8.65	1.0	µg/L	10.0		86.5	70-130			
trans-1,2-Dichloroethylene	9.40	1.0	µg/L	10.0		94.0	70-130			
1,2-Dichloropropane	9.66	1.0	µg/L	10.0		96.6	70-130			
1,3-Dichloropropane	9.33	0.50	µg/L	10.0		93.3	70-130			
2,2-Dichloropropane	9.55	1.0	µg/L	10.0		95.5	40-130			†
1,1-Dichloropropene	9.05	2.0	µg/L	10.0		90.5	70-130			
cis-1,3-Dichloropropene	9.28	0.50	µg/L	10.0		92.8	70-130			
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130			
Diethyl Ether	9.49	2.0	µg/L	10.0		94.9	70-130			
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130			
1,4-Dioxane	105	50	µg/L	100		105	40-130			V-16 †
Ethylbenzene	9.90	1.0	µg/L	10.0		99.0	70-130			
Hexachlorobutadiene	9.57	0.50	µg/L	10.0		95.7	70-130			
2-Hexanone (MBK)	111	10	µg/L	100		111	70-160			†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0		103	70-130			
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110	70-130			
Methyl tert-Butyl Ether (MTBE)	10.0	1.0	µg/L	10.0		100	70-130			

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
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Batch B068078 - SW-846 5030B

LCS (B068078-BS1)

Prepared & Analyzed: 02/21/13

Methylene Chloride	8.77	5.0	µg/L	10.0		87.7	70-130			
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	100		109	70-160			†
Naphthalene	10.1	2.0	µg/L	10.0		101	40-130			†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
Styrene	9.74	1.0	µg/L	10.0		97.4	70-130			
1,1,1,2-Tetrachloroethane	9.35	1.0	µg/L	10.0		93.5	70-130			
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Tetrachloroethylene	9.44	1.0	µg/L	10.0		94.4	70-130			
Tetrahydrofuran	9.37	10	µg/L	10.0		93.7	70-130			
Toluene	9.59	1.0	µg/L	10.0		95.9	70-130			
1,2,3-Trichlorobenzene	9.26	5.0	µg/L	10.0		92.6	70-130			
1,2,4-Trichlorobenzene	9.61	1.0	µg/L	10.0		96.1	70-130			
1,3,5-Trichlorobenzene	9.72	1.0	µg/L	10.0		97.2	70-130			
1,1,1-Trichloroethane	8.87	1.0	µg/L	10.0		88.7	70-130			
1,1,2-Trichloroethane	9.05	1.0	µg/L	10.0		90.5	70-130			
Trichloroethylene	9.03	1.0	µg/L	10.0		90.3	70-130			
Trichlorofluoromethane (Freon 11)	9.22	2.0	µg/L	10.0		92.2	70-130			
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.0		100	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.01	1.0	µg/L	10.0		90.1	70-130			
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,3,5-Trimethylbenzene	9.61	1.0	µg/L	10.0		96.1	70-130			
Vinyl Chloride	7.06	2.0	µg/L	10.0		70.6	40-160			†
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.6	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	26.1		µg/L	25.0		105	70-130			

LCS Dup (B068078-BSD1)

Prepared & Analyzed: 02/21/13

Acetone	85.3	50	µg/L	100		85.3	70-160	15.7	25	†
Acrylonitrile	9.03	5.0	µg/L	10.0		90.3	70-130	8.18	25	
tert-Amyl Methyl Ether (TAME)	9.30	0.50	µg/L	10.0		93.0	70-130	5.64	25	
Benzene	8.48	1.0	µg/L	10.0		84.8	70-130	3.48	25	
Bromobenzene	9.52	1.0	µg/L	10.0		95.2	70-130	4.72	25	
Bromochloromethane	8.95	1.0	µg/L	10.0		89.5	70-130	6.59	25	
Bromodichloromethane	8.47	0.50	µg/L	10.0		84.7	70-130	5.51	25	
Bromoform	8.85	1.0	µg/L	10.0		88.5	70-130	5.28	25	
Bromomethane	6.44	5.0	µg/L	10.0		64.4	40-160	2.76	25	V-20 †
2-Butanone (MEK)	88.1	20	µg/L	100		88.1	40-160	9.09	25	†
tert-Butyl Alcohol (TBA)	96.7	20	µg/L	100		96.7	40-160	11.2	25	V-16 †
n-Butylbenzene	9.90	1.0	µg/L	10.0		99.0	70-130	5.31	25	
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	1.70	25	
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	3.40	25	
tert-Butyl Ethyl Ether (TBEE)	9.72	0.50	µg/L	10.0		97.2	70-130	5.70	25	
Carbon Disulfide	7.10	4.0	µg/L	10.0		71.0	70-130	9.78	25	
Carbon Tetrachloride	8.54	5.0	µg/L	10.0		85.4	70-130	6.46	25	
Chlorobenzene	9.44	1.0	µg/L	10.0		94.4	70-130	3.13	25	
Chlorodibromomethane	8.62	0.50	µg/L	10.0		86.2	70-130	8.23	25	
Chloroethane	8.39	2.0	µg/L	10.0		83.9	70-130	10.4	25	
Chloroform	8.41	2.0	µg/L	10.0		84.1	70-130	5.55	25	
Chloromethane	6.38	2.0	µg/L	10.0		63.8	40-160	8.70	25	†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	3.41	25	

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
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Batch B068078 - SW-846 5030B

LCS Dup (B068078-BSD1)

Prepared & Analyzed: 02/21/13

4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	3.60	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130	0.0947	25	
1,2-Dibromoethane (EDB)	8.89	0.50	µg/L	10.0		88.9	70-130	7.99	25	
Dibromomethane	8.93	1.0	µg/L	10.0		89.3	70-130	3.20	25	
1,2-Dichlorobenzene	9.99	1.0	µg/L	10.0		99.9	70-130	2.08	25	
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.05	25	
1,4-Dichlorobenzene	9.05	1.0	µg/L	10.0		90.5	70-130	6.62	25	
trans-1,4-Dichloro-2-butene	9.12	2.0	µg/L	10.0		91.2	70-130	8.91	25	
Dichlorodifluoromethane (Freon 12)	4.69	2.0	µg/L	10.0		46.9	40-160	6.60	25	†
1,1-Dichloroethane	8.34	1.0	µg/L	10.0		83.4	70-130	6.27	25	
1,2-Dichloroethane	8.44	1.0	µg/L	10.0		84.4	70-130	5.53	25	
1,1-Dichloroethylene	8.45	1.0	µg/L	10.0		84.5	70-130	5.52	25	
cis-1,2-Dichloroethylene	8.25	1.0	µg/L	10.0		82.5	70-130	4.73	25	
trans-1,2-Dichloroethylene	8.51	1.0	µg/L	10.0		85.1	70-130	9.94	25	
1,2-Dichloropropane	9.15	1.0	µg/L	10.0		91.5	70-130	5.42	25	
1,3-Dichloropropane	8.85	0.50	µg/L	10.0		88.5	70-130	5.28	25	
2,2-Dichloropropane	8.75	1.0	µg/L	10.0		87.5	40-130	8.74	25	†
1,1-Dichloropropene	8.26	2.0	µg/L	10.0		82.6	70-130	9.13	25	
cis-1,3-Dichloropropene	8.90	0.50	µg/L	10.0		89.0	70-130	4.18	25	
trans-1,3-Dichloropropene	9.86	0.50	µg/L	10.0		98.6	70-130	2.40	25	
Diethyl Ether	8.66	2.0	µg/L	10.0		86.6	70-130	9.15	25	
Diisopropyl Ether (DIPE)	9.80	0.50	µg/L	10.0		98.0	70-130	5.75	25	
1,4-Dioxane	85.8	50	µg/L	100		85.8	40-130	20.4	50	V-16 † ‡
Ethylbenzene	9.49	1.0	µg/L	10.0		94.9	70-130	4.23	25	
Hexachlorobutadiene	8.74	0.50	µg/L	10.0		87.4	70-130	9.07	25	
2-Hexanone (MBK)	100	10	µg/L	100		100	70-160	10.6	25	†
Isopropylbenzene (Cumene)	9.82	1.0	µg/L	10.0		98.2	70-130	4.67	25	
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.0		103	70-130	6.20	25	
Methyl tert-Butyl Ether (MTBE)	9.06	1.0	µg/L	10.0		90.6	70-130	10.3	25	
Methylene Chloride	8.04	5.0	µg/L	10.0		80.4	70-130	8.69	25	
4-Methyl-2-pentanone (MIBK)	99.9	10	µg/L	100		99.9	70-160	8.64	25	†
Naphthalene	8.75	2.0	µg/L	10.0		87.5	40-130	14.2	25	†
n-Propylbenzene	9.55	1.0	µg/L	10.0		95.5	70-130	8.52	25	
Styrene	9.43	1.0	µg/L	10.0		94.3	70-130	3.23	25	
1,1,1,2-Tetrachloroethane	9.13	1.0	µg/L	10.0		91.3	70-130	2.38	25	
1,1,2,2-Tetrachloroethane	9.38	0.50	µg/L	10.0		93.8	70-130	6.80	25	
Tetrachloroethylene	9.16	1.0	µg/L	10.0		91.6	70-130	3.01	25	
Tetrahydrofuran	8.66	10	µg/L	10.0		86.6	70-130	7.88	25	
Toluene	8.94	1.0	µg/L	10.0		89.4	70-130	7.02	25	
1,2,3-Trichlorobenzene	8.57	5.0	µg/L	10.0		85.7	70-130	7.74	25	
1,2,4-Trichlorobenzene	8.77	1.0	µg/L	10.0		87.7	70-130	9.14	25	
1,3,5-Trichlorobenzene	9.12	1.0	µg/L	10.0		91.2	70-130	6.37	25	
1,1,1-Trichloroethane	8.40	1.0	µg/L	10.0		84.0	70-130	5.44	25	
1,1,2-Trichloroethane	8.51	1.0	µg/L	10.0		85.1	70-130	6.15	25	
Trichloroethylene	8.57	1.0	µg/L	10.0		85.7	70-130	5.23	25	
Trichlorofluoromethane (Freon 11)	8.21	2.0	µg/L	10.0		82.1	70-130	11.6	25	
1,2,3-Trichloropropane	9.27	2.0	µg/L	10.0		92.7	70-130	7.88	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.38	1.0	µg/L	10.0		83.8	70-130	7.25	25	
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	2.37	25	
1,3,5-Trimethylbenzene	9.28	1.0	µg/L	10.0		92.8	70-130	3.49	25	
Vinyl Chloride	6.16	2.0	µg/L	10.0		61.6	40-160	13.6	25	†

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
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Batch B068078 - SW-846 5030B

LCS Dup (B068078-BSD1)

Prepared & Analyzed: 02/21/13

m+p Xylene	20.1	2.0	µg/L	20.0		100	70-130	3.57	25	
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	3.93	25	
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.6	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

Batch B068116 - SW-846 5030B

Blank (B068116-BLK1)

Prepared & Analyzed: 02/22/13

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	5.0	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							
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	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							

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
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Batch B068116 - SW-846 5030B

Blank (B068116-BLK1)

Prepared & Analyzed: 02/22/13

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							
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							
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	24.8		µg/L	25.0		99.0	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	27.3		µg/L	25.0		109	70-130			

LCS (B068116-BS1)

Prepared & Analyzed: 02/22/13

Acetone	79.9	50	µg/L	100		79.9	70-160			†
Acrylonitrile	9.27	5.0	µg/L	10.0		92.7	70-130			
tert-Amyl Methyl Ether (TAME)	9.65	0.50	µg/L	10.0		96.5	70-130			
Benzene	8.75	1.0	µg/L	10.0		87.5	70-130			
Bromobenzene	9.53	1.0	µg/L	10.0		95.3	70-130			
Bromochloromethane	8.91	1.0	µg/L	10.0		89.1	70-130			
Bromodichloromethane	9.09	0.50	µg/L	10.0		90.9	70-130			
Bromoform	8.90	1.0	µg/L	10.0		89.0	70-130			
Bromomethane	4.15	2.0	µg/L	10.0		41.5	40-160			†
2-Butanone (MEK)	83.4	20	µg/L	100		83.4	40-160			†
tert-Butyl Alcohol (TBA)	91.5	20	µg/L	100		91.5	40-160			V-16 †
n-Butylbenzene	9.76	1.0	µg/L	10.0		97.6	70-130			
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.99	0.50	µg/L	10.0		99.9	70-130			

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 B068116 - SW-846 5030B										
LCS (B068116-BS1)										
Prepared & Analyzed: 02/22/13										
Carbon Disulfide	8.22	4.0	µg/L	10.0		82.2	70-130			
Carbon Tetrachloride	8.80	5.0	µg/L	10.0		88.0	70-130			
Chlorobenzene	9.68	1.0	µg/L	10.0		96.8	70-130			
Chlorodibromomethane	8.92	0.50	µg/L	10.0		89.2	70-130			
Chloroethane	8.82	2.0	µg/L	10.0		88.2	70-130			
Chloroform	8.54	2.0	µg/L	10.0		85.4	70-130			
Chloromethane	5.75	2.0	µg/L	10.0		57.5	40-160			†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130			
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.97	5.0	µg/L	10.0		99.7	70-130			
1,2-Dibromoethane (EDB)	9.30	0.50	µg/L	10.0		93.0	70-130			
Dibromomethane	9.07	1.0	µg/L	10.0		90.7	70-130			
1,2-Dichlorobenzene	9.76	1.0	µg/L	10.0		97.6	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130			
trans-1,4-Dichloro-2-butene	8.72	2.0	µg/L	10.0		87.2	70-130			
Dichlorodifluoromethane (Freon 12)	4.18	2.0	µg/L	10.0		41.8	40-160			†
1,1-Dichloroethane	8.74	1.0	µg/L	10.0		87.4	70-130			
1,2-Dichloroethane	8.79	1.0	µg/L	10.0		87.9	70-130			
1,1-Dichloroethylene	8.74	1.0	µg/L	10.0		87.4	70-130			
cis-1,2-Dichloroethylene	8.42	1.0	µg/L	10.0		84.2	70-130			
trans-1,2-Dichloroethylene	8.83	1.0	µg/L	10.0		88.3	70-130			
1,2-Dichloropropane	9.45	1.0	µg/L	10.0		94.5	70-130			
1,3-Dichloropropane	9.31	0.50	µg/L	10.0		93.1	70-130			
2,2-Dichloropropane	8.63	1.0	µg/L	10.0		86.3	40-130			†
1,1-Dichloropropene	8.92	2.0	µg/L	10.0		89.2	70-130			
cis-1,3-Dichloropropene	9.16	0.50	µg/L	10.0		91.6	70-130			
trans-1,3-Dichloropropene	9.97	0.50	µg/L	10.0		99.7	70-130			
Diethyl Ether	9.33	2.0	µg/L	10.0		93.3	70-130			
Diisopropyl Ether (DIPE)	9.81	0.50	µg/L	10.0		98.1	70-130			
1,4-Dioxane	88.6	50	µg/L	100		88.6	40-130			V-16 †
Ethylbenzene	9.45	1.0	µg/L	10.0		94.5	70-130			
Hexachlorobutadiene	9.07	0.50	µg/L	10.0		90.7	70-130			
2-Hexanone (MBK)	97.4	10	µg/L	100		97.4	70-160			†
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0		100	70-130			
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl tert-Butyl Ether (MTBE)	9.80	1.0	µg/L	10.0		98.0	70-130			
Methylene Chloride	8.26	5.0	µg/L	10.0		82.6	70-130			
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160			†
Naphthalene	8.89	2.0	µg/L	10.0		88.9	40-130			†
n-Propylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
Styrene	9.52	1.0	µg/L	10.0		95.2	70-130			
1,1,1,2-Tetrachloroethane	9.03	1.0	µg/L	10.0		90.3	70-130			
1,1,2,2-Tetrachloroethane	9.30	0.50	µg/L	10.0		93.0	70-130			
Tetrachloroethylene	9.53	1.0	µg/L	10.0		95.3	70-130			
Tetrahydrofuran	9.82	10	µg/L	10.0		98.2	70-130			
Toluene	9.31	1.0	µg/L	10.0		93.1	70-130			
1,2,3-Trichlorobenzene	8.58	5.0	µg/L	10.0		85.8	70-130			
1,2,4-Trichlorobenzene	9.05	1.0	µg/L	10.0		90.5	70-130			
1,3,5-Trichlorobenzene	9.38	1.0	µg/L	10.0		93.8	70-130			
1,1,1-Trichloroethane	8.78	1.0	µg/L	10.0		87.8	70-130			
1,1,2-Trichloroethane	9.33	1.0	µg/L	10.0		93.3	70-130			

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
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Batch B068116 - SW-846 5030B

LCS (B068116-BS1)

Prepared & Analyzed: 02/22/13

Trichloroethylene	9.33	1.0	µg/L	10.0		93.3	70-130			
Trichlorofluoromethane (Freon 11)	9.12	2.0	µg/L	10.0		91.2	70-130			
1,2,3-Trichloropropane	9.46	2.0	µg/L	10.0		94.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.82	1.0	µg/L	10.0		88.2	70-130			
1,2,4-Trimethylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
1,3,5-Trimethylbenzene	9.73	1.0	µg/L	10.0		97.3	70-130			
Vinyl Chloride	6.69	2.0	µg/L	10.0		66.9	40-160			†
m+p Xylene	20.1	2.0	µg/L	20.0		101	70-130			
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130			

Surrogate: 1,2-Dichloroethane-d4	24.0		µg/L	25.0		96.2	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

LCS Dup (B068116-BSD1)

Prepared & Analyzed: 02/22/13

Acetone	90.7	50	µg/L	100		90.7	70-160	12.7	25	†
Acrylonitrile	10.2	5.0	µg/L	10.0		102	70-130	9.46	25	
tert-Amyl Methyl Ether (TAME)	9.81	0.50	µg/L	10.0		98.1	70-130	1.64	25	
Benzene	8.51	1.0	µg/L	10.0		85.1	70-130	2.78	25	
Bromobenzene	9.55	1.0	µg/L	10.0		95.5	70-130	0.210	25	
Bromochloromethane	8.97	1.0	µg/L	10.0		89.7	70-130	0.671	25	
Bromodichloromethane	8.77	0.50	µg/L	10.0		87.7	70-130	3.58	25	
Bromoform	8.90	1.0	µg/L	10.0		89.0	70-130	0.00	25	
Bromomethane	4.74	2.0	µg/L	10.0		47.4	40-160	13.3	25	†
2-Butanone (MEK)	91.9	20	µg/L	100		91.9	40-160	9.66	25	†
tert-Butyl Alcohol (TBA)	109	20	µg/L	100		109	40-160	17.7	25	V-16 †
n-Butylbenzene	9.69	1.0	µg/L	10.0		96.9	70-130	0.720	25	
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.473	25	
tert-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.277	25	
tert-Butyl Ethyl Ether (TBEE)	9.84	0.50	µg/L	10.0		98.4	70-130	1.51	25	
Carbon Disulfide	8.27	2.0	µg/L	10.0		82.7	70-130	0.606	25	
Carbon Tetrachloride	8.79	5.0	µg/L	10.0		87.9	70-130	0.114	25	
Chlorobenzene	9.60	1.0	µg/L	10.0		96.0	70-130	0.830	25	
Chlorodibromomethane	8.77	0.50	µg/L	10.0		87.7	70-130	1.70	25	
Chloroethane	8.80	2.0	µg/L	10.0		88.0	70-130	0.227	25	
Chloroform	8.61	2.0	µg/L	10.0		86.1	70-130	0.816	25	
Chloromethane	6.25	2.0	µg/L	10.0		62.5	40-160	8.33	25	†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	2.04	25	
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	1.14	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	µg/L	10.0		102	70-130	2.48	25	
1,2-Dibromoethane (EDB)	9.60	0.50	µg/L	10.0		96.0	70-130	3.17	25	
Dibromomethane	8.89	1.0	µg/L	10.0		88.9	70-130	2.00	25	
1,2-Dichlorobenzene	9.86	1.0	µg/L	10.0		98.6	70-130	1.02	25	
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.192	25	
1,4-Dichlorobenzene	9.57	1.0	µg/L	10.0		95.7	70-130	0.625	25	
trans-1,4-Dichloro-2-butene	8.88	2.0	µg/L	10.0		88.8	70-130	1.82	25	
Dichlorodifluoromethane (Freon 12)	4.27	2.0	µg/L	10.0		42.7	40-160	2.13	25	†
1,1-Dichloroethane	8.78	1.0	µg/L	10.0		87.8	70-130	0.457	25	
1,2-Dichloroethane	8.69	1.0	µg/L	10.0		86.9	70-130	1.14	25	
1,1-Dichloroethylene	8.91	1.0	µg/L	10.0		89.1	70-130	1.93	25	
cis-1,2-Dichloroethylene	8.26	1.0	µg/L	10.0		82.6	70-130	1.92	25	
trans-1,2-Dichloroethylene	9.22	1.0	µg/L	10.0		92.2	70-130	4.32	25	
1,2-Dichloropropane	9.09	1.0	µg/L	10.0		90.9	70-130	3.88	25	

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
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Batch B068116 - SW-846 5030B

LCS Dup (B068116-BSD1)

Prepared & Analyzed: 02/22/13

1,3-Dichloropropane	9.04	0.50	µg/L	10.0		90.4	70-130	2.94	25	
2,2-Dichloropropane	8.56	1.0	µg/L	10.0		85.6	40-130	0.814	25	†
1,1-Dichloropropene	8.41	2.0	µg/L	10.0		84.1	70-130	5.89	25	
cis-1,3-Dichloropropene	8.93	0.50	µg/L	10.0		89.3	70-130	2.54	25	
trans-1,3-Dichloropropene	9.78	0.50	µg/L	10.0		97.8	70-130	1.92	25	
Diethyl Ether	9.44	2.0	µg/L	10.0		94.4	70-130	1.17	25	
Diisopropyl Ether (DIPE)	9.99	0.50	µg/L	10.0		99.9	70-130	1.82	25	
1,4-Dioxane	104	50	µg/L	100		104	40-130	15.9	50	V-16 † ‡
Ethylbenzene	9.27	1.0	µg/L	10.0		92.7	70-130	1.92	25	
Hexachlorobutadiene	9.01	0.50	µg/L	10.0		90.1	70-130	0.664	25	
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160	6.26	25	†
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0		100	70-130	0.199	25	
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130	1.85	25	
Methyl tert-Butyl Ether (MTBE)	10.0	1.0	µg/L	10.0		100	70-130	2.12	25	
Methylene Chloride	8.53	5.0	µg/L	10.0		85.3	70-130	3.22	25	
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100		106	70-160	5.00	25	†
Naphthalene	9.31	2.0	µg/L	10.0		93.1	40-130	4.62	25	†
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130	3.58	25	
Styrene	9.63	1.0	µg/L	10.0		96.3	70-130	1.15	25	
1,1,1,2-Tetrachloroethane	8.86	1.0	µg/L	10.0		88.6	70-130	1.90	25	
1,1,2,2-Tetrachloroethane	9.78	0.50	µg/L	10.0		97.8	70-130	5.03	25	
Tetrachloroethylene	9.27	1.0	µg/L	10.0		92.7	70-130	2.77	25	
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130	3.60	25	
Toluene	9.07	1.0	µg/L	10.0		90.7	70-130	2.61	25	
1,2,3-Trichlorobenzene	8.82	5.0	µg/L	10.0		88.2	70-130	2.76	25	
1,2,4-Trichlorobenzene	9.15	1.0	µg/L	10.0		91.5	70-130	1.10	25	
1,3,5-Trichlorobenzene	8.61	1.0	µg/L	10.0		86.1	70-130	8.56	25	
1,1,1-Trichloroethane	8.56	1.0	µg/L	10.0		85.6	70-130	2.54	25	
1,1,2-Trichloroethane	9.02	1.0	µg/L	10.0		90.2	70-130	3.38	25	
Trichloroethylene	8.57	1.0	µg/L	10.0		85.7	70-130	8.49	25	
Trichlorofluoromethane (Freon 11)	9.21	2.0	µg/L	10.0		92.1	70-130	0.982	25	
1,2,3-Trichloropropane	9.80	2.0	µg/L	10.0		98.0	70-130	3.53	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.84	1.0	µg/L	10.0		88.4	70-130	0.227	25	
1,2,4-Trimethylbenzene	9.86	1.0	µg/L	10.0		98.6	70-130	0.712	25	
1,3,5-Trimethylbenzene	9.83	1.0	µg/L	10.0		98.3	70-130	1.02	25	
Vinyl Chloride	6.50	2.0	µg/L	10.0		65.0	40-160	2.88	25	†
m+p Xylene	19.7	2.0	µg/L	20.0		98.6	70-130	1.96	25	
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	1.56	25	
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/L	25.0		99.6	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	26.5		µg/L	25.0		106	70-130			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B068045 - SW-846 3510C										
Blank (B068045-BLK1)										
					Prepared: 02/20/13 Analyzed: 02/21/13					
Gasoline	ND	0.20	mg/L							
Fuel Oil #2	ND	0.20	mg/L							
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: o-Terphenyl	0.0809		mg/L	0.100		80.9	40-140			
LCS (B068045-BS1)										
					Prepared: 02/20/13 Analyzed: 02/21/13					
Fuel Oil #2	0.766	0.20	mg/L	1.00		76.6	40-140			
TPH (C9-C36)	0.766	0.20	mg/L	1.00		76.6	0-200			
Surrogate: o-Terphenyl	0.0684		mg/L	0.100		68.4	40-140			
LCS Dup (B068045-BSD1)										
					Prepared: 02/20/13 Analyzed: 02/21/13					
Fuel Oil #2	0.769	0.20	mg/L	1.00		76.9	40-140	0.320	25	
TPH (C9-C36)	0.766	0.20	mg/L	1.00		76.6	0-200	0.00		
Surrogate: o-Terphenyl	0.0705		mg/L	0.100		70.5	40-140			

QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B067967 - SW-846 3005A Dissolved										
Blank (B067967-BLK1)				Prepared & Analyzed: 02/19/13						
Lead	ND	0.010	mg/L							
LCS (B067967-BS1)				Prepared & Analyzed: 02/19/13						
Lead	0.490	0.010	mg/L	0.500		97.9	80-120			
LCS Dup (B067967-BSD1)				Prepared & Analyzed: 02/19/13						
Lead	0.498	0.010	mg/L	0.500		99.6	80-120	1.70	20	
Duplicate (B067967-DUP1)				Source: 13B0453-11			Prepared & Analyzed: 02/19/13			
Lead	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B067967-MS1)				Source: 13B0453-11			Prepared & Analyzed: 02/19/13			
Lead	0.466	0.010	mg/L	0.500	ND	93.2	75-125			

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-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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
RL-12	Elevated reporting limit due to matrix interference.
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 does not match any reference standard. Majority of contamination falls within C12-C32 of the hydrocarbon range.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C in Water</i>	
Lead	CT,NH,NY,NC,ME,VA
<i>SW-846 8260C in Water</i>	
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
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	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
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	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
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	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



CON-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

13B0453
REV 04.05.12

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name: Shaw Environmental, Inc.
Address: 150 Royall Street
Canton, MA 02021

Project # 130274
Client PO# 835493

Attention: Ed Vandoren
Project Location: Providence, RI

Sampled By: Daniel Leahy

Project Proposal Provided? (for billing purposes)
 Yes No proposal date

Project Format:
 PDF EXCEL GIS Com.
 OTHER GISKey format
 "Enhanced Data Package"

Collection:
Beginning Date/Time: 2/13/13
Ending Date/Time: 2/13/13

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

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GW = groundwater
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S = soil/solid
SL = sludge
O = other

Con-Test Lab ID	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Lab Code	Analysis Requested	# of Containers	Preservation	Container Code
01	MW-2075	2/13/13	0830		S	GW	GW	VOC (EPA 8260B)	2		
02	MW-2075	2/13/13	0900		S	GW	GW	TPH (EPA 8015)	2		
03	MW-2025	2/13/13	0930					Dissolved Lead (EPA 6010)	2		
04	MW-2025	2/13/13	1005						2		
05	MW-1017D	2/13/13	1045						2		
06	MW-1015	2/13/13	1145						2		
07	MW-1015 DUP	2/13/13	1145						2		
08	MW-201D	2/13/13	1245						2		
09	MW-112	2/13/13	1330						2		
10	MW-209D	2/13/13	1415						2		

Relinquished by (signature) _____ Date/Time: 2/16/13
 Released by (signature) _____ Date/Time: 2/18/13
 Relinquished by (signature) _____ Date/Time: 2/18/13
 Released by (signature) _____ Date/Time: 2/18/13
 Relinquished by (signature) _____ Date/Time: 2/18/13
 Released by (signature) _____ Date/Time: 2/18/13

Turnaround Time: 7-Day 10-Day Other _____
 RUSH 12-Hr 14-Hr 16-Hr 18-Hr 20-Hr
 Require lab approval Yes No
 Detection Limit Requirements: _____
 Massachusetts: _____
 Connecticut: _____
 Other: _____

IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.
 PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



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ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

13B0453
REV 04.05.12

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 3

Company Name: Shaw Environmental, Inc.

Address: 150 Royall Street
Canton, MA 02021

Attention: Ed Vandoren

Project Location: Providence, RI

Sampled By: Daniel Leahy

Project Proposal Provided? (for billing purposes)
 Yes No

Telephone: 617-589-4030

Project # 130274

Client PO# 835493

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE

Fax #

Email: Edward.Vandoren@ShawGRP.com

Format: PDF EXCEL OTHER GISKEY

"Enhanced Data Package"

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	Canse Code	ANALYSIS REQUESTED	
		Beginning Date/Time	Ending Date/Time					VOC (EPA 8260B)	TPH (EPA 8015)
11	G24-3	2/13/13	1515	G	GW	VP	2	2	1
12	G24-3 DUP	2/13/13	1515						
13	MW-1092	2/13/13	1600						
14	CW-2	2/14/13	0900						
15	MW-218D	2/14/13	1030						
16	MW-218S	2/14/13	1130						
17	MW-116D	2/14/13	1300						
18	MW-116S	2/14/13	1400						
19	CW-6	2/15/13	0930						
20	CW-6 DUP	2/15/13	0930						

Comments: Lead = Field Filtered.

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

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

Requested by: (signature) *[Signature]* Date/Time: 2/16/13 1:20

Received by: (signature) *[Signature]* Date/Time: 2/18/13 0915

Received by: (signature) *[Signature]* Date/Time: 2/18/13 13:00

Received by: (signature) *[Signature]* Date/Time: 2/18/13 18:00

Turnaround 7-Day 10-Day Other

RUSH 12-Hr 14-Hr 172-Hr 14-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 # _____

NEIAC & AHA-LAP, LLC Accredited

WB/DBE Certified

netac ACCREDITED BY

netac ACCREDITED BY

WB/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



CON-test

ANALYTICAL LABORATORY
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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

13B0453
Rev 04/05/12

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 3 of 3

Company Name: Shaw Environmental, a CBI Co. Telephone: 617-589-2040

Address: 150 Royall Street
Canton, MA 02021 Project # 130274

Client PO# DATA DELIVERY (check all that apply)
Attention: Edward Vandoren
 FAX EMAIL WEBSITE

Project Location: Providence, RI
Sampled By: _____
Email: edward.vandoren@cbi.com

Project Proposal Provided? (for billing purposes)
 Yes No
proposal date _____

Con-Test Lab ID <small>(laboratory use only)</small>	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Collection	Composite	Grab	*Matrix Lids	Tanner Lids	Turnaround		Detection Limit Requirements	
									7-Day	10-Day	Massachusetts:	Connecticut:
21	CW-1	2/15/13	2/28/13						<input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> Other	RUSH + <input type="checkbox"/> 12-Hr <input type="checkbox"/> 14-Day <input type="checkbox"/> 172-Hr	Other:	

ANALYSIS REQUESTED	# of Containers	** Preservation	*** Container Cod
VOC (82603 EPA)	2		Field Filtered
			Lab to Filter

Is your project MCP or RCP?

MCP Form Required
 RCP Form Required
 MA State DW Form Required
 PWSID # _____

NEIAC & AHA-LAP, LLC
Accredited
WBE/DBE Certified

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

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

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

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.

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 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Shaw Envir. RECEIVED BY: KKM DATE: 2/18/13

- 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 3.8

- 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		<u>4</u>	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		<u>3</u>	Plastic Bag / Ziploc		
40 mL Vial - type listed below		<u>36</u>	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: *one vial for sample MW-116D labeled 14:00 (coc reads 13:00) and one vial for sample MW-116S labeled 13:00 (coc reads 14:00)

40 mL vials: # HCl 36 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

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