

Mr. Jeffrey Crawford Rhode Island Department of Environmental Management Office of Waste Management 235 Promenade Street Providence, RI 02908-5767 ARCADIS U.S., Inc. 300 Metro Center Boulevard Suite 250 Warwick Rhode Island 02886 Tel 401.738.3887 Fax 401.732.1686

www.arcadis-us.com

SER-1

Subject:

May 2012 Quarterly Monitoring Report for Springfield Street School Complex

Dear Mr. Crawford:

ARCADIS US, Inc. (ARCADIS) conducted quarterly monitoring of soil gas, indoor air, the cap, and the sub-slab ventilation system between May 29 and 31, 2012. The monitoring was performed in accordance with the *Long-Term Operation and Maintenance Plan and Site Contingency Plan* (O&M Plan) contained in the *Remedial Action Work Plan* prepared by ATC dated April 2, 1999, revised May 3, 1999 and May 9, 1999. The *Remedial Action Work Plan* (RAWP) was approved by the Rhode Island Department of Environmental Management (RIDEM) in a letter dated June 4, 1999.

This work is subject to the Limitations contained in Attachment A. Results of monitoring are provided in the following sections and in the attachments.

COVER MONITORING

ARCADIS conducted a visual survey of the site on May 31, 2012 for evidence of significant soil cover erosion, or for any areas where the orange snow fencing indicator barrier was visible. ARCADIS did not observe any areas where the orange indicator barrier was visible during this monitoring event. No evidence of erosion or significant settling was observed. Holes observed during the previous inspection had been repaired.

SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by ARCADIS during the quarterly monitoring on May 29 and 31, 2012. The two elementary school blowers and the two middle school blowers were operating normally upon arrival.

Date:

June 25, 2012

Contact:

Donna H. Pallister, PE

Phone:

401.738.3887

Email:

Donna.pallister@arcadisus.com

Our ref:

WK012152.0007

Samples of influent and effluent (before and after the carbon canisters) air were collected at each blower and screened for methane, carbon dioxide, oxygen, carbon monoxide, hydrogen sulfide, and organic vapors using a Landtec GEM2000 Plus and a MiniRae 2000. Results of screening are provided on Table 1. Methane, hydrogen sulfide and organic vapors were not detected in any of the samples. Carbon Monoxide was detected at a concentration of 1 to 2 ppm in all but one location; all locations were below the RAWP Action Level of 9 ppm. Carbon dioxide was detected at a concentration of 0.1 to 0.2% at each location; all seven of the sample concentrations were greater than the RAWP Action Level of 1000 ppm (0.1%).

INDOOR AIR MONITORING

Indoor air monitoring was conducted on May 31, 2012 using a QRAE plus multi-gas meter (methane, hydrogen sulfide, oxygen), a Mini Rae photoionization detector (organic vapors), and a Fluke 975 Airmeter (carbon dioxide, carbon monoxide). School was in session during the monitoring event. Results of monitoring are provided in the Table 2. Carbon dioxide measurements were made with a Fluke 975 Airmeter indoor air quality meter. The Fluke 975 has a range of 0 to 5,000 ppm, with a resolution of 1 ppm.

The outside temperature on May 31 was 82 °F. Carbon dioxide was measured outside in the school parking lot at 630 ppm.

All readings were below the RAWP Action Levels. Methane, carbon monoxide, hydrogen sulfide, and organic vapors were not detected, and carbon dioxide was within the expected range for an occupied building.

Concentrations of carbon dioxide inside occupied buildings are expected to be higher than the concentrations in outdoor air because the building occupants expel carbon dioxide. Therefore, in indoor air, the concentration of carbon dioxide is typically used as an indicator of the effectiveness of the heating, ventilating, and air conditioning (HVAC) system in circulating outdoor air into the building. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have prepared ASHRAE Standard 62.1-2007 titled *Ventilation for Acceptable Indoor Air Quality*. The purpose of the Standard is to specify minimum ventilation rates and other measures to provide indoor air quality that is acceptable to human occupants and that minimize adverse health effects. A discussion regarding carbon dioxide concentrations in indoor air contained in Informative Appendix C of the Standard states: "... maintaining a steady-state CO₂ concentration in a space of no greater than about 700 ppm above outdoor air levels will indicate that a substantial majority of visitors entering a space will be satisfied with respect to human bioeffluents (body odor)." This is the basis for ASHRAE's recommendations for concentrations of

carbon dioxide in indoor air. The average concentrations measured inside the site buildings were less than 700 ppm above the ambient outdoor concentrations.

The Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) for carbon dioxide in the workplace is 5,000 ppm. All readings were below this concentration.

The control panels for the methane monitors at both schools were inspected on May 31, 2012. The methane monitor control panels had stickers that indicated that the monitors were calibrated by Diamond Technical Services within the month prior to the inspection. Diamond Technical Services calibrates the sensors on a monthly basis.

Calibration Certificates from Diamond Calibration indicate that many of the sensors read above 0 when calibrated to the zero gas. This prevents the sensors from giving a fault alarm if the reading drops below zero due to a sudden temperature change, and still provides a conservative measure of protection because the alarm limit does not change.

GROUNDWATER MONITORING

The new and existing groundwater monitoring wells were sampled by ARCADIS on May 29, 2012. Prior to sampling, the depth to water was gauged, and a volume of water equivalent to approximately three well volumes was removed from the well. Groundwater samples were collected in laboratory prepared sample jars and delivered under chain-of-custody protocol to Contest Laboratory in East Longmeadow, Massachusetts for analysis for volatile organic compounds by EPA method 8260. The laboratory report is provided as Attachment C. Results of analysis of groundwater samples are summarized in Table 3.

1,4-Dicloroethane was detected in a sample collected from monitoring well ATC-4 at a concentration of 1.9 μ g/L. There is no GB groundwater standard for this compound. This compound has been detected occasionally during previous sampling events in this well at similar concentrations. No other target analytes were detected in any of the groundwater samples collected on May 29, 2012.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 29 locations on May 29, 2012. The sampling was conducted by placing an air sampling gripper cap on each well and attaching a piece of tubing. A volume of air equivalent to approximately 3 well volumes was removed from each well using a Sensidyne BDXII air sampling pump. Soil gas was

then screened using a Landtec GEM 2000 Plus Landfill Gas Analyzer and a MiniRae Photoionization Detector (PID).

Air samples were also collected in Tedlar bags from wells WB-2 and MPL-6. The Tedlar bags were submitted to Con-test Analytical Laboratory for analysis for VOC via EPA method TO-14.

Soil Gas Field Monitoring Results

Soil gas samples were screened for methane, carbon monoxide, hydrogen sulfide, carbon dioxide, oxygen, and total VOCs. Soil gas survey results are provided in Table 4. Methane, hydrogen sulfide, and organic vapors were not detected in any samples.

Carbon dioxide was detected in soil gas at concentrations ranging from 0.1% to 9.8% during the May monitoring event. The carbon dioxide Remedial Action Work Plan Action Level is 0.1% and 25 readings exceeded the action level. The maximum concentration detected during the March round was 7.9%, which was lower than the maximum during the current round. This is consistent with the pattern shown during previous rounds of declining carbon dioxide concentrations in the winter, and increasing concentrations in the summer and early fall. Graphs presenting carbon dioxide, oxygen, and methane concentrations over time for selected representative wells are presented in Attachment D.

The presence of carbon dioxide in soil gas is an indicator of subsurface bacterial activity and does not represent a threat to users of the property. The highest concentration of carbon dioxide was found in well MPL-6, located on the northern end of the property near Hartford Avenue. The monitoring locations on the northern end of the property adjacent to large expanses of paved parking lot, sidewalk, and streets have typically had the highest carbon dioxide concentrations.

Carbon monoxide was detected in 14 samples at concentrations ranging from 0 to 5 ppm during the May monitoring event. The RAWP action level for carbon monoxide is 9 ppm and all of the samples were below the action level.

Soil Gas Laboratory Results

Soil gas samples were collected from soil gas wells MPL-6 and WB-2 in Tedlar bags and submitted to Con-Test Analytical Laboratories for analysis by method TO-14. Results of the analysis are summarized in Table 5, and the laboratory report is provided in Attachment C. The results of analysis were generally consistent with the

concentrations and compounds which have been detected in previous monitoring events.

The Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) are provided in Table 5 for comparison purposes even though they are not applicable to soil gas, because it does not represent exposure point concentrations. The PELs are the average concentrations that OSHA allows to be present in a workplace without any respiratory protection or exposure controls. The concentrations detected in soil gas were well below the OSHA PELs.

CONCLUSIONS

Methane, hydrogen sulfide, carbon monoxide and organic vapor concentrations did not exceed RAWP action levels in any soil gas or indoor air samples. Carbon dioxide concentrations exceeded the action level at soil gas locations and subslab system monitoring points. The detection of carbon dioxide in soil gas is typical of what has been detected during previous monitoring events and appears to be a result of naturally occurring bacterial activity in the subsurface.

If you have any questions or require any additional information, please contact the undersigned at 401-738-3887, extension 25.

Sincerely,

ARCADIS U.S., Inc.

Donna H. Pallister, PE, LSP Senior Environmental Engineer

Sonna H Pallett

Copies:

C. Jones, Providence SchoolsA. Sepe, City of ProvidenceProvidence Public Building Authority

ARCADIS

Tables

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
May 31, 2012

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
Elementary School inlet 1	0.0	0.1	20.3	1	0	0.0
Elementary School inlet 2	0.0	0.1	20.4	2	0	0.0
Elementary School Outlet	0.0	0.0	20.7	1	0	0.0
Middle School front shed inlet	0.0	0.0	20.6	0	0	0.0
Middle School front shed after 2 nd carbon	0.0	0.2	20.4	1	0	0.0
Middle School back shed inlet	0.0	0.2	20.4	2	0	0.0
Middle School back shed after 2 nd carbon	0.0	0.2	20.5	2	0	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ррт	10 ррт	5 ррт

Measurements made with: Landtec GEM2000, , MiniRAE 2000

Sampling date: May 31, 2012

Measured by: D. Pallister

Table 2 Indoor Air Monitoring Results Springfield Street School Complex Providence, Rhode Island May 31, 2012

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
E.S. Front office	0.0	622	20.5	0	0	0.0
E.S. Elevator	0.0	620	20.6	0	0	0.0
E.S. Faculty Work Room	0.0	635	20.6	0	0	0.0
E.S. Gym	0.0	641	20.6	0	0	0.0
E.S. Stairway B	0.0	657	20.6	0	0	0.0
E.S. Stairway C	0.0	647	20.7	0	0	0.0
E.S. Library	0.0	713	20.7	0	0	0.0
E.S. Room 111 Music/Art Room	0.0	587	20.7	0	0	0.0
E.S. Cafeteria	0.0	741	20.6	0	0	0.0
E.S. Room 107	0.0	624	20.7	0	0	0.0

Table 2 Indoor Air Monitoring Notes Springfield Street School Complex May 31, 2012

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Front Office	0	680	20.6	0	0	0.0
M.S. Elevator	0	643	20.5	0	0	0.0
M.S. Stairway near Hartford Ave. GS-01	0	753	20.5	0	0	0.0
M.S. Near sensor #16 in hall outside cafeteria	0	633	20.6	0	0	0.0
M.S. Faculty Work Room	0	560	20.4	0	0	0.0
M.S. Sensor #15	0	646	20.7	0	0	0.0
M.S. GS-03 Across from Boys Bathroom	0	694	20.5	0	0	0.0
M.S. Second Floor - Library	0	745	20.6	0	0	0.0
M.S. Cafeteria	0	650	20.6	0	0	0.0

Table 2 Indoor Air Monitoring Notes Springfield Street School Complex May 31, 2012

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Front Hall near sensor #4	0	676	20.6	0	0	0.0
M.S. Hallway across from elevator near sensor #9	0	585	20.5	0	0	0.0
M.S. Near sensor GS 06 hallway right end	0	664	20.3	0	0	0.0
M.S. stairway near Hartford Ave. sensor GS-7	0	680	20.5	0	0	0.0
Remedial Action Work Plan Action Levels	0.05	1,000 ppm (0.1%)	NA	9 ppm	5 ppm	5 ppm

Notes:

E.S. indicates Elementary School, M.S. indicates Middle School

Measurements made with: Landtec GEM2000, Fluke 975 Airmeter, MiniRAE 2000

PPM = Parts per million

Outdoor conditions: carbon monoxide = 0 ppm, carbon dioxide = 630 ppm, temperature = 82 °F.

Table 3 Groundwater Monitoring Results Springfield Street School Providence, Rhode Island

								Samplin	ng Dates an	d Results i	n µa/L						
Well	Detected Compounds	2/28/2001	7/20/2001	*9- 12/2001	8/1/2002	8/28/2002	12/19/2002					5/21/2004	8/17/2004	12/2/2004	4/6/2005	7/27/2005	10/27&28/ 2005
ATC-1																	
	Benzene	6.1	ND	18.9	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-butylbenzene	1.7	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	sec-Butylbenzene	1.1	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	4.5	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Isopropylbenzene	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MTBE	12.4	7.0	28.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	1.27	ND	ND	ND	ND	ND	1.10	ND	ND
	Toluene	2.5	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene	2.2	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene	3.4	ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylenes	14.6	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ATC-2																	
	Chloroform	0.9	ND	ND	1.0	ND	ND	ND	ND	ND	NS	1.1	1.0	ND	ND	ND	ND
MW-6																	
	Chloroform																
Installed																	
ATC-3																	
	Toluene	ND	ND	ND	ND	NS	ND	ND	ND	ND	3.03	ND	ND	ND	ND	ND	ND
MW-7																	
Installed	4/2011																
ATC-4																	
	Benzene	ND	ND	2.5	0.6	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND
	Chlorobenzene	2.6	ND	57.3	2.7	5.18	ND	ND	ND	ND	ND	ND	ND	0.60	ND	ND	ND
	1,4-dichlorobenzene	4.2	ND	9.2	3.4	3.36	ND	ND	ND	ND	ND	0.80	1.6	2.1	ND	ND	ND
	MTBE	ND	ND	ND	ND	ND	ND	ND	1.19	9.55	1.06	2.90	0.6	ND	ND	ND	ND
	1,2,4-Trimethylbenzene	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Amyl Methyl Ether																
	(TAME)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethylene																
ATC-5																	
A10-3	MTBE	ND	ND	2.2	NS	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND ND	ND	ND ND	ND	ND	NS	ND	ND	0.6	ND	ND	ND ND	ND
											·						
MW-8			•														
Installed																	
Sample	d By:	ATC	ATC	ATC	ATC	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR

^{*}ATC Monitoring Report for September through December 2001 did not list date samples were collected.

ND is not detected above method detection limit

NS is not sampled

NA= No applicable standard published

MTBE is Methyl tert-Butyl Ether

μg/L = micrograms per liter

Table 3 Groundwater Monitoring Results Springfield Street School Providence, Rhode Island

									Sampling I	Dates and Re	esults in ug/L							
Well	Detected Compounds	2/2/2006	4/27/2006	8/31/2006	11/15/2006	3/27/2007	5/21/2007	8/20/2007	11/13/2007	2/12/2008	5/21/2008	8/26/2008	11/18/2008	2/17/2009	5/7/2009	8/25/2009	11/18/2009	3/1/2010
ATC-1																		
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-butylbenzene	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Butylbenzene	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND
	Trichloroethylene	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ATC-2																		
71102	Chloroform	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6																		
IVIVV-0	Chloroform																	
Inetalloc	d 4/2011																	
ATC-3																		
A10-3	Toluene	3.0	ND	4.5	13.1	ND	2.3	1.3	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS
MW-7																		
	4/2011																	
ATC-4																		
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	ND	ND	ND	ND	ND	ND	1.80	1.90	ND	ND	1.2	ND	ND	ND	1	ND	ND
	1,4-dichlorobenzene	ND	ND	1.2	1.1	ND	1.2	2.1	2.1	ND	ND	2.1	1.4	ND	1.7	1.5	ND	ND
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	tert-Amyl Methyl Ether																	
	(TAME)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethylene													ND	ND	ND	ND	ND
ATC-5																		
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-8																		
	d 4/2011																	
Sample		LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	ARCADIS
	,																	2: .2.3

^{*}ATC Monitoring Report for Septembe ND is not detected above method det NS is not sampled NA= No applicable standard published MTBE is Methyl tert-Butyl Ether µg/L = micrograms per liter

Table 3 Groundwater Monitoring Results Springfield Street School Providence, Rhode Island

					Sampling Da	ites and Res	ults in ua/L				RIDEM GB
							u.to u.g, _				Groundwater
Well	Detected Compounds	5/20/2010	8/25/2010	11/19/2010	2/24/2011	6/16/2011	10/3/2011	12/6/2011	3/15/2012	5/29/2012	Objective
ATC-1	-										-
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
	n-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
	Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	540
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
	1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
ATC-2											
	Chloroform	NS	NS	NS	NS	Closed	Closed	Closed	Closed	Closed	NA
						4/2011	4/2011	4/2011	4/2011	4/2011	
MW-6						ND					
	Chloroform					ND	2.0	ND	ND	ND	NA
Installed	d 4/2011										
ATC-3											
	Toluene	NS	NS	NS	NS	Closed	Closed	Closed	Closed	Closed	1700
						4/2011	4/2011	4/2011	4/2011	4/2011	
MW-7						ND	ND	ND	ND	ND	NA
Installed											
ATC-4											
	Benzene	ND	ND	ND	NS	NS	ND	ND	ND	ND	140
	Chlorobenzene	ND	ND	ND	NS	NS	ND	ND	ND	ND	70
	1,4-dichlorobenzene	ND	ND	1.5	NS	NS	ND	ND	ND	1.9	NA
	MTBE	ND	ND	ND	NS	NS	ND	ND	ND	ND	5000
	1,2,4-Trimethylbenzene	ND	ND	ND	NS	NS	ND	ND	ND	ND	NA
	tert-Amyl Methyl Ether										
	(TAME)	ND	0.5	ND	NS	NS	ND	ND	ND	ND	NA
	Trichloroethylene	ND	ND	ND	NS	NS	1.1	1.3	ND	ND	540
ATC-5											
	MTBE	ND	NS	NS	NS	Closed	Closed	Closed	Closed	Closed	5000
	Chloroform	ND	NS	NS	NS	4/2011	4/2011	4/2011	4/2011	4/2011	NA
MW-8						ND	ND	ND	ND	ND	NA
	d 4/2011										
Sample	d By:	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	

*ATC Monitoring Report for September ND is not detected above method det NS is not sampled NA= No applicable standard publisher MTBE is Methyl tert-Butyl Ether µg/L = micrograms per liter

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
May 29, 2012

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
WB-1	0.0	2.7	16.2	001	0.0	0.0
WB-2	0.0	0.7	20.1	0.0	0.0	0.0
WB-3	0.0	0.0	21.1	002	0.0	0.0
WB-4	0.0	0.0	21.3	001	0.0	0.1
WB-5	0.0	0.0	21.0	001	0.0	0.0
WB-6	0.0	0.8	20.2	005	0.0	0.0
WB-7R	0.0	0.4	20.2	0.0	0.0	0.0
WB-8	0.0	0.0	20.9	0.0	0.0	0.0
WB-12	0.0	2.0	18.0	0.0	0.0	0.0
WB-13	0.0	.5	19.3	0.0	0.0	0.0
WB-14	0.0	2.0	16.1	0.0	0.0	0.0
WB-15	0.0	4.5	12.4	003	0.0	0.0
EPL-1	0.0	0.9	19.5	0.0	0.0	0.0
EPL-2	0.0	1.5	17.4	001	0.0	0.0
EPL-3	0.0	3.6	12.3	002	0.0	0.0
EPL-4	0.0	2.9	15.9	0.0	0.0	0.0
EPL-5	0.0	1.6	17.8	0.0	0.0	0.0
ENE-1	0.0	0.1	20.4	0.0	0.0	0.0

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
May 29, 2012

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MG1	0.0	1.5	17.0	0.0	0.0	0.0
MG2	0.0	1.3	18.0	0.0	0.0	0.0
MG3	0.0	2.5	15.6	0.0	0.0	0.0
MG4	0.0	0.7	18.5	002	0.0	0.0
MG5	0.0	1.4	18.0	0.0	0.0	0.0
MPL2	0.0	0.1	20.0	003	0.0	0.0
MPL3	0.0	4.5	10.5	003	0.0	0.0
MPL5	0.0	5.5	11.2	0.0	0.0	0.0
MPL6	0.0	9.8	6.3	001	0.0	0.0
MPL7	0.1	4.6	13.4	001	0.0	0.0
MPL8	0.0	3.9	14.1	003	0.0	0.0
Remedial Action Work Plan Action Levels	0.5%	1,000 PPM	NA	9 PPM	10 PPM	5 PPM

Sampled by: Andrew DaSilva

Weather Conditions: 80 Degrees Fahrenheit, Sunny

Sampling Equipment: Landtec GEM 2000 Plus, MiniRae 2000 PID

Parameter	OSHA PELs (PPBv)																				Results o	of Analysis	in parts per	r billion by	volume (PF	PBv)																			
	(PPBV)											МР	PL-6																					WB-2											-
Date Collected:		2/20/2007	5/17/2007 8/2	2/2007 11	1/14/2007	2/12/2008	5/21/2008	8/26/2008	11/26/2008	2/10/2009	5/7/2009	8/25/2009		3/1/2010	5/21/2010	8/25/2010	11/19/2010	2/24/2011	6/14/2011	10/3/2011	12/6/2011	3/15/201	5/29/2012	2/20/2007	5/17/2007	8/22/2007	11/14/2007	2/12/2008	5/21/2008	8/26/2008	11/26/2008	2/26/2009	5/12/2009	8/25/2009	11/18/2009	3/1/2010	5/21/2010	8/25/2010	11/19/2010	2/24/2011	6/14/2011	10/3/2011 1	12/6/2011	3/15/2012	/29/112
Benzene	1,000	ND	0.36	0.74	ND	ND	0.51	1.0	0.3	0.31	0.31	2.40	0.29	0.18	0.52	0.37	0.25	ND	0.38	0.48	16.00	0.27	0.55	ND	0.29	ND	ND	ND	0.21	0.46	0.23	0.24	ND	2.1	0.39	0.16	0.22	0.30	0.18	ND	0.45	0.22	0.43	0.32	0.45
Carbon Tetrachloride	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	0.062	ND	ND	ND	ND	ND	ND	0.055	ND	ND
Chlorobenzene	75,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.058	ND	ND	ND	ND	ND	ND	0.14	3.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.053	ND	0.073	ND	ND	ND	ND	ND	ND	0.160	5.000	ND
Chloroethane	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	50,000	ND	3.2	0.48	ND	ND	0.25	ND	0.10	ND	ND	0.15	0.12	0.12	0.13	ND	ND	ND	ND	0.13	0.06	ND	0.15	ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND	0.22	0.38	0.07	0.12	ND	0.15	ND	ND	0.59	0.24	ND	0.24
Chloromethane	100,000	ND	0.24	0.36	ND	ND	0.28	0.88	0.36	0.39	0.16	0.77	0.13	0.26	0.22	0.31	0.12	ND	0.50	0.22	0.60	0.19	0.31	ND	0.11	ND	ND	ND	0.2	0.56	0.23	0.54	ND	0.28	0.2	0.22	0.23	0.35	0.11	ND	0.34	0.25	0.12	0.16	0.36
Dichlorodifluoromethane (Freon 12)	1,000,000	ND	ND (0.28	ND	ND	0.53	0.78	0.31	0.44	0.44	0.43	0.28	0.61	0.48	0.45	0.34	0.51 B	0.68	0.33	0.46	0.42	0.54	ND	0.5	0.57	0.66	0.57	0.49	0.66	0.4	0.51	0.55	0.57	0.44	0.66	0.49	0.60	0.44	0.51 B	0.48	0.63	0.59	0.49	0.61
1,3-Dichlorobenzene	None	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30	1.70	ND	0.14	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	0.74	ND	0.20	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75,000	ND	ND (0.54	ND	ND	ND	0.65	ND	0.13	ND	0.27	0.44	0.051	0.27	0.13	ND	0.23	ND	0.94	0.19	ND	0.53	ND	0.16	0.37	ND	ND	ND	ND	ND	0.15	ND	0.3	0.25	0.056	0.12	ND	ND	0.23	ND	0.84	0.25	0.11	0.50
1,1-Dichloroethane	100,000	ND	ND (0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	None	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	200,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Freon 114)																																													
Ethylbenzene	100,000	ND	0.75	0.7	2.3	0.65	1.3	3.9	0.4	0.36	3.8	5.6	1.1	0.14	0.44	0.14	0.22	1.80	3.10	1.0	1.3	0.8	0.27	ND	0.55	0.46	3.2	0.78	0.41	1.3	0.33	0.42	2.0	4.6	0.6	0.16	0.37	0.10	0.23	1.8	2.5	0.94	1.40	1.20	0.41
Methylene Chloride	100,000	ND	ND (0.84	3.5	2	2.6	3.8	2.9	1.7	2.2	1.9	1.5	1.7	3.2	2.7	1.4	1.7	2.6	2.8	14.0	15.0	5.8	ND	0.53	0.5	4.9	2.5	3.4	3.0	2.3	1.1	2.0	1.8	1.8	1.9	3.2	5.1	1.5	1.7	2.5	2.7	13.0	11.0	6.4
Styrene	100,000	ND	1.6	1.5	1.4	ND	1.1	3.0	0.3	0.36	2.8	3.2	1.0	0.26	10	1.7	0.3	0.51	0.76	2.1	1.2	8.0	5.9	ND	1	1.1	0.69	ND	0.5	1.5	0.1	0.47	1.3	3.1	0.51	0.33	3.6	1.1	0.37	0.51	0.80	1.8	1.2	8.0	5.6
Tetrachloroethylene	100,000	ND	0.19	0.27	4.6	1.9	0.99	4.1	0.6	0.33	0.65	4.0	0.76	0.19	0.21	0.47	0.25	0.34	6.00	1.1	0.1	0.1	0.21	ND	0.16	0.81	3.2	2.7	0.64	1.6	0.8	0.32	16	3.2	0.43	0.13	0.37	0.44	0.18	0.34	4.70	0.60	0.12	0.12	0.24
Toluene	200,000	4.9	17	7.2	15	6.9	7.7	64	4	4.1	30	21	5	0.84	32	1.2	0.83	2.40	7.30	9.1	5.6	2.8	20.0	4.6	12	5.3	10	9.3	3	30	1.8	2.3	12	21	2.6	1.4	8.8	1.1	0.75	2.4	6.1	7.8	3.9	3.0	22
1,1,1-Trichloroethane	350,000	ND	ND (0.36	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	0.19	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	38	ND	1.3	ND	ND	ND	ND	ND	ND	0.052	ND	ND	0.14	ND	ND	0.31	ND	ND	ND	ND
Trichloroethylene	100,000	ND	ND (0.25	0.53	1	4.1	3.6	1.7	ND	0.26	0.098	0.91	0.067	0.24	3.0	0.63	ND	0.78	1.2	0.1	0.2	0.23	ND	ND	4.6	ND	ND	3	2.8	0.97	0.32	ND	0.095	0.26	ND	0.37	0.70	0.15	ND	0.59	0.18	0.07	ND	0.12
Trichlorofluoromethane (Freon 11)	1,000,000	ND	ND	0.7	0.65	ND	0.27	1.3	0.5	0.28	0.72	0.96	0.60	0.44	6.0	0.82	0.44	0.31	0.94	2.4	0.7	0.7	3.3	ND	0.41	0.43	ND	ND	0.26	0.54	0.3	0.41	2.8	2	0.51	0.47	1.2	1.1	0.28	0.31	0.93	2.20	0.50	0.49	1.20
1,1,2-Trichloro-1,2,2,-Trifluoroethane	1,000,000	ND	ND (0.27	ND	ND	ND	ND	0.06	ND	ND	0.06	0.083	0.069	ND	ND	ND	ND	ND	ND	0.077	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	ND	ND	0.06	0.11	0.076	ND	ND	ND	ND	ND	ND	0.089	ND	ND
(Freon 113)																																													
1,3,5-Trimethylbenzene	None	ND	0.12	ND	ND	ND	0.28	3.7	0.1	ND	8.1	0.5	0.31	0.057	ND	ND	ND	1.0	1.4	0.56	0.33	0.31	0.16	ND	ND	ND	0.57	ND	ND	0.67	0.2	0.13	1.4	0.41	0.18	0.071	ND	ND	ND	1.0	1.3	0.47	0.39	0.40	0.23
1,2,4-Trimethylbenzene	None	ND	ND (0.44	1.6	1.3	1.3	9.1	0.3	0.24	15	1.6	1.3	0.23	0.72	0.13	0.39	3.10	3.20	2.6	1.0	1.0	0.47	ND	1	0.26	1.7	1.1	0.66	1.6	0.66	0.52	3.2	1.2	0.9	0.28	0.62	0.10	0.38	3.1	3.3	2.0	1.2	1.2	0.63
Vinyl chloride	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M/p-Xylene	100,000	1.4	3.1	2.4	5.3	2.2	3.7	11	1	0.95	11	15	3	0.41	1.2	0.42	0.59	5.10	8.40	4.0	3.2	2.0	0.65	1.2	2.5	1.8	10	2.6	1.3	3.7	0.94	1.4	6.1	13	1.5	0.52	0.93	0.32	0.59	5.1	7.0	3.5	3.7	2.6	1.1
o-Xylene	100,000	ND	0.61	0.68	1.8	0.69	1.6	5.0	0.4	0.32	8.0	4.3	1.2	0.15	0.34	0.12	0.23	2.30	3.90	1.6	1.0	0.6	0.31	ND	0.56	0.48	3.5	0.8	0.64	1.5	0.43	0.45	2.3	3.3	0.6	0.18	0.26	ND	0.24	2.3	3.4	1.4	1.2	0.9	0.46

Notes: ND = Not detected Only detected compounds are listed, sel aboratory report for complete list on analytes. B = compound also detected in blank

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Appendix A
Limitations & Service Constraints

LIMITATIONS AND SERVICE CONSTRAINTS

GENERAL REPORTS/DOCUMENT

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ARCADIS and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that ARCADIS relied upon any information prepared by other parties not under contract to ARCADIS, ARCADIS makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when ARCADIS's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ARCADIS's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

ARCADIS, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

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Appendix B Laboratory Results



June 6, 2012

Donna Pallister Arcadis US, Inc. - Warwick, RI 300 Metro Center Blvd., Suite 250 Warwick, RI 02886

Project Location: Providence, RI

Client Job Number:

Project Number: WK012152.0007

Laboratory Work Order Number: 12E1060

Lua Watthington

Enclosed are results of analyses for samples received by the laboratory on May 30, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington Project Manager



Arcadis US, Inc. - Warwick, RI REPORT DATE: 6/6/2012

300 Metro Center Blvd., Suite 250 Warwick, RI 02886

ATTN: Donna Pallister

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.0007

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E1060

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
ATC-1	12E1060-01	Ground Water		SW-846 8260C	
MW-7	12E1060-02	Ground Water		SW-846 8260C	
ATC-4	12E1060-03	Ground Water		SW-846 8260C	
MW-8	12E1060-04	Ground Water		SW-846 8260C	
Trip Blank	12E1060-05	Trip Blank Water		SW-846 8260C	
MW-6	12E1060-06	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:

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:

 $1, 2- Dibromo-3- chloropropane (DBCP), 2, 2- Dichloropropane, tert-Amyl Methyl Ether (TAME), tert-Butyl Alcohol (TBA), trans-1, 3- Dichloropropene \\ 12E1060-01[ATC-1], 12E1060-02[MW-7], 12E1060-03[ATC-4], 12E1060-04[MW-8], 12E1060-05[Trip Blank], 12E1060-06[MW-6], B052501-BLK1, B052501-BS1, B052501-BSD1 \\ 12E1060-05[MW-6], 12E1060-06[MW-6], 12E1060-$

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

Analyte & Samples(s) Qualified:

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

 $12E1060-01[ATC-1], 12E1060-02[MW-7], 12E1060-03[ATC-4], 12E1060-04[MW-8], 12E1060-05[Trip\ Blank], 12E1060-06[MW-6], B052501-BLK1, B052501-BS1, B052501-BSD1$

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

B052501-BS1, B052501-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed

in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian Laboratory Manager



Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012
Field Sample #: ATC-1

Sampled: 5/29/2012 16:15

Sample ID: 12E1060-01
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analys
Acetone	ND	50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Acrylonitrile	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$	1	V-05	SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Benzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Bromobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Bromochloromethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Bromodichloromethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Bromoform	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Bromomethane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
2-Butanone (MEK)	ND	20	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
tert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$	1	V-05, V-16	SW-846 8260C	5/31/12	5/31/12 15:30	MFF
n-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
sec-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
tert-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Carbon Disulfide	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Chlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Chlorodibromomethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Chloroform	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1-Dichloropropene	ND	2.0	μg/L μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
cis-1,3-Dichloropropene	ND	0.50	μ g/ L μ g/ L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF

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Project Location: Providence, RI Work Order: 12E1060 Sample Description:

Date Received: 5/30/2012 Field Sample #: ATC-1

Sampled: 5/29/2012 16:15

Sample ID: 12E1060-01 Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Ethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Hexachlorobutadiene	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
2-Hexanone (MBK)	ND	10	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Isopropylbenzene (Cumene)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Tetrahydrofuran	ND	10	μg/L	1	V-16	SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Vinyl Chloride	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
m+p Xylene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 15:30	MFF
Surrogates		% Recovery	Recovery Limits	3	Flag				
1,2-Dichloroethane-d4		98.1	70-130					5/31/12 15:30	
Toluene-d8		99.3	70-130					5/31/12 15:30	
4-Bromofluorobenzene		95.8	70-130					5/31/12 15:30	



Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012
Field Sample #: MW-7

Sampled: 5/29/2012 09:35

Sample ID: 12E1060-02
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analys
Acetone	ND	50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Acrylonitrile	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Benzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Bromobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Bromochloromethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Bromodichloromethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Bromoform	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Bromomethane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
2-Butanone (MEK)	ND	20	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
tert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$	1	V-05, V-16	SW-846 8260C	5/31/12	5/31/12 16:01	MFF
n-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
sec-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
tert-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Carbon Disulfide	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Carbon Tetrachloride	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Chlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Chlorodibromomethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Chloroform	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
4-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2-Dibromoethane (EDB)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF

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Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012

Field Sample #: MW-7

Sampled: 5/29/2012 09:35

Sample ID: 12E1060-02
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	5/31/12	5/31/12 16:01	MFF
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Hexachlorobutadiene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Tetrahydrofuran	ND	10	μg/L	1	V-16	SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:01	MFF
Surrogates		% Recovery	Recovery Limits	8	Flag				
1,2-Dichloroethane-d4		97.7	70-130					5/31/12 16:01	
Toluene-d8		98.1	70-130					5/31/12 16:01	
4-Bromofluorobenzene		96.4	70-130					5/31/12 16:01	



Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012
Field Sample #: ATC-4

Sampled: 5/29/2012 11:20

Sample ID: 12E1060-03
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analysi
Acetone	ND	50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Acrylonitrile	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Benzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Bromobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Bromochloromethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Bromodichloromethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Bromoform	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Bromomethane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
2-Butanone (MEK)	ND	20	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
tert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$	1	V-05, V-16	SW-846 8260C	5/31/12	5/31/12 16:32	MFF
n-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
sec-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
tert-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Carbon Disulfide	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Chlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Chlorodibromomethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Chloroform	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,4-Dichlorobenzene	1.9	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Diethyl Ether	ND	2.0	μg/L	1	-	SW-846 8260C	5/31/12	5/31/12 16:32	MFF

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Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012
Field Sample #: ATC-4

Sampled: 5/29/2012 11:20

Sample ID: 12E1060-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Disspropy Ether (DIPE) ND 0.50 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,4-Dixanae ND 50 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,4-Dixanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,4-Dixanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,4-Dixanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,1,2-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,2,3-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,3,5-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,3,5-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,3,5-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,3,5-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,3,5-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,3,5-Trichlorochanae ND 1.0 μgL 1 SW-346 8260C 531/12 531/12 [632 MFI 1,3,5-Trichlorochanae ND 1.0 μ	Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1.4-Diexame	Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C		•	MFF
Ethylbenzene		ND			1	V-16				MFF
2-Hexanone (MBK) ND 10 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI Isopropylbenzene (Cumene) ND 1.0 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI p-Isopropylbenzene (Cumene) ND 1.0 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI Methyl tert-Bauff MER ND 1.0 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI Methyl-pentanone (MIBK) ND 1.0 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI Methyl-pentanone (MIBK) ND 1.0 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI Malphalaene ND 2.0 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI Styrene ND 1.0 μgl. 1 SW-846 \$200C 531/12 531/12 16:32 MFI Styrene ND 1.0	Ethylbenzene	ND	1.0		1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
2-Hexanone (MBK) ND 10 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI Isopropylbranene (Cumene) ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI p-Isopropylbuleue (P-Cymene) ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI Methyl terr-Baul Elbert (MTBE) ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI Methyl-p-pentanone (MIBK) ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI Machyl-p-pentanone (MIBK) ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI Naphtalache ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI Styrene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16-32 MFI Styrene ND 1.0	Hexachlorobutadiene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Pisopropytoluene (p-Cymene) ND 1.0 pg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI	2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Methyl tert-Butyl Ether (MTBE) ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI Methylene Chloride ND 5.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI 4-Methyl-Pentanone (MIBK) ND 10 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI A-Methyl-Pentanone (MIBK) ND 10 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI A-Methyl-Pentanone (MIBK) ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI A-Methyl-Pentanone (MIBK) ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI Styrene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI 1,1,2-Tertachlorocethane ND 1.0 µg/L 1 V-16 SW-846 8260C 5/31/12 5/31/12 16/32 MFI Tetrahydrofuran<	Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Methylene Chloride ND 5.0 pg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI 4-Methyl-2-pentanone (MIBK) ND 10 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI Naphthalene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI n-Propylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI 1,1,2-Tetrachloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI 1,1,2-Tetrachloroethane ND 0.50 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI 1,1,2-Tetrachloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16/32 MFI Tetrahydrofuran ND 1.0 µg/L 1 V-16 SW-846 8260C 5/31/12 5/31/12 16/32 MFI Toluene ND	p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
A-Methyl-2-pentanone (MIBK) ND 10 ng/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI	Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Naphthalene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI n-Propylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,1,2-Tetrachloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Tetrachloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Tetrachloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Tetrachloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Tetrachloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Tetrachloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Tetrachloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Tetrachloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-5-Trichlorobenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane (Freen 11) ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane (Freen 11) ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1/2-Trichloroethane ND 1.0 µg/L 1 SW-846 82	Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
n-Propylbenzene ND 1.0	4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Styrene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI	Naphthalene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Styrene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,1,2-Tetrachloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2,2-Tetrachloroethane ND 0.50 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI Tetrachloroethylene ND 1.0 µg/L 1 V-16 SW-846 8260C 5/31/12 5/31/12 16.32 MFI Tetrahydrofuran ND 1.0 µg/L 1 V-16 SW-846 8260C 5/31/12 5/31/12 16.32 MFI Toluene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,3,5-Trichlorobenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,3-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16.32 MFI 1,1,3-Trichloroet	n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,1,2,2-Tetrachloroethane	Styrene	ND	1.0		1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Tetrachloroethylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Tetrahydrofuran ND 10 μg/L 1 V-16 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Toluene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,1-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,1-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichlorobenzene ND	1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Tetrahydrofuran ND 10 µg/L 1 V-16 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Toluene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Toluene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI SW-846 8260C 5/31/	1,1,2,2-Tetrachloroethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Toluene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,3-Trichlorobenzene ND 5.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trichlorobenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2-Trichloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2-Trichlorophane (Freon 11) ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2-Trichlorophane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichlorophane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichlorophane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichlorophane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trimethylbenzene ND 2.0 µg/L 1 SW-846 82	Tetrachloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1.2,3-Trichlorobenzene ND 5.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,1-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2-Trichloropenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31	Tetrahydrofuran	ND	10	$\mu g/L$	1	V-16	SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2,4-Trichlorobenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,1-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,1-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichlorofluoromethane (Freon 11) ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trim	Toluene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,3,5-Trichlorobenzene	1,2,3-Trichlorobenzene	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,1,1-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Trichloroethylene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Trichlorofluoromethane (Freon 11) ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,3-Trichloropropane ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,3-Trichloro-1,2,2-trifluoroethane ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI (Freon 113) 1,2,4-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 µg/L 1 SW	1,2,4-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,1,2-Trichloroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Trichloroethylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI SW-846 8260C 5/31/12 5/31/1	1,3,5-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Trichloroethylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Trichlorofluoromethane (Freon 11) ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,3-Trichloropropane ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI (Freon 113) 1,2,4-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1	1,1,1-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Trichlorofluoromethane (Freon 11) ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,3-Trichloropropane ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI (Freon 113) 1,2,4-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μ	1,1,2-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2,3-Trichloropropane ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) 1,2,4-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenz	Trichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) 1,2,4-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,2,4-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenz	Trichlorofluoromethane (Freon 11)	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
(Freon 113) 1,2,4-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,3,5-Trimethylbenzene ND 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI 1,0 μg/L 1 μg	1,2,3-Trichloropropane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,3,5-Trimethylbenzene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Vinyl Chloride ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI m+p Xylene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI o-Xylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Surrogates Recovery Limits Flag		ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Vinyl Chloride ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI m+p Xylene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI o-Xylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Surrogates % Recovery Recovery Limits Flag	•	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
m+p Xylene ND 2.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI o-Xylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Surrogates Recovery Limits Flag	1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
o-Xylene ND 1.0 μg/L 1 SW-846 8260C 5/31/12 5/31/12 16:32 MFI Surrogates % Recovery Recovery Limits Flag	Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
Surrogates % Recovery Recovery Limits Flag	• •	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
v v	o-Xylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 16:32	MFF
1,2-Dichloroethane-d4 98.3 70-130 5/31/12 16:32			•		1	Flag				
T-1 49 00.2 70.120	· ·									
Toluene-d8 99.2 70-130 5/31/12 16:32 4-Bromofluorobenzene 97.3 70-130 5/31/12 16:32										



Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012

Field Sample #: MW-8

Sampled: 5/29/2012 11:55

Sample ID: 12E1060-04
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	5/31/12	5/31/12 17:33	MFF
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Benzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Bromobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Bromochloromethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Bromoform	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Bromomethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
2-Butanone (MEK)	ND	20	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
tert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$	1	V-05, V-16	SW-846 8260C	5/31/12	5/31/12 17:33	MFF
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Carbon Disulfide	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Chlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Chlorodibromomethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Chloroform	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF

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Project Location: Providence, RI Work Order: 12E1060 Sample Description:

Date Received: 5/30/2012 Field Sample #: MW-8

Sampled: 5/29/2012 11:55

Sample ID: 12E1060-04 Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,4-Dioxane	ND	50	$\mu g/L$	1	V-16	SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Ethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Hexachlorobutadiene	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
2-Hexanone (MBK)	ND	10	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Isopropylbenzene (Cumene)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Tetrahydrofuran	ND	10	μg/L	1	V-16	SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Vinyl Chloride	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
m+p Xylene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:33	MFF
Surrogates		% Recovery	Recovery Limits	i	Flag				
1,2-Dichloroethane-d4		99.0	70-130	_				5/31/12 17:33	
Toluene-d8		99.0	70-130					5/31/12 17:33	
4-Bromofluorobenzene		96.3	70-130					5/31/12 17:33	



Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012

Field Sample #: Trip Blank

Sampled: 5/29/2012 00:00

Sample ID: 12E1060-05
Sample Matrix: Trip Blank 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	5/31/12	5/31/12 13:27	MFF
Acrylonitrile	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$	1	V-05	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Benzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Bromobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Bromochloromethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Bromodichloromethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Bromoform	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Bromomethane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
2-Butanone (MEK)	ND	20	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
tert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$	1	V-05, V-16	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
n-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
sec-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
tert-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Carbon Disulfide	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Carbon Tetrachloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Chlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Chlorodibromomethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Chloroform	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1-Dichloropropene	ND	2.0	μg/L	1	-	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Diethyl Ether	ND	2.0	μg/L	1	-	SW-846 8260C	5/31/12	5/31/12 13:27	MFF

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Project Location: Providence, RI Work Order: 12E1060 Sample Description:

Date Received: 5/30/2012 Field Sample #: Trip Blank

Sampled: 5/29/2012 00:00

Sample ID: 12E1060-05 Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,4-Dioxane	ND	50	$\mu g/L$	1	V-16	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Ethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Hexachlorobutadiene	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
2-Hexanone (MBK)	ND	10	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Isopropylbenzene (Cumene)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Naphthalene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Tetrahydrofuran	ND	10	μg/L	1	V-16	SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Toluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Vinyl Chloride	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
m+p Xylene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 13:27	MFF
Surrogates		% Recovery	Recovery Limits	3	Flag				
1,2-Dichloroethane-d4		97.1	70-130					5/31/12 13:27	
Toluene-d8		99.5	70-130					5/31/12 13:27	
4-Bromofluorobenzene		95.3	70-130					5/31/12 13:27	



Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012

Field Sample #: MW-6

Sampled: 5/29/2012 10:15

Sample ID: 12E1060-06
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Acrylonitrile	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Benzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Bromobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Bromochloromethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Bromodichloromethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Bromoform	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Bromomethane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
2-Butanone (MEK)	ND	20	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
tert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$	1	V-05, V-16	SW-846 8260C	5/31/12	5/31/12 17:02	MFF
n-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
sec-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
tert-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Carbon Disulfide	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Carbon Tetrachloride	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Chlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Chlorodibromomethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Chloroethane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Chloroform	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Chloromethane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
4-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2-Dibromoethane (EDB)	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Dibromomethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
trans-1,3-Dichloropropene	ND	0.50	μg/L	1	V-05	SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF

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Project Location: Providence, RI Sample Description: Work Order: 12E1060

Date Received: 5/30/2012
Field Sample #: MW-6

Sampled: 5/29/2012 10:15

Sample ID: 12E1060-06
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	5/31/12	5/31/12 17:02	MFF
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Hexachlorobutadiene	ND	0.50	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Methylene Chloride	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Naphthalene	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
n-Propylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Styrene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Tetrachloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Tetrahydrofuran	ND	10	$\mu g/L$	1	V-16	SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Toluene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2,3-Trichlorobenzene	ND	5.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2,4-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,3,5-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1,1-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1,2-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Trichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2,3-Trichloropropane	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,2,4-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
o-Xylene	ND	1.0	μg/L	1		SW-846 8260C	5/31/12	5/31/12 17:02	MFF
Surrogates		% Recovery	Recovery Limit	s	Flag				
1,2-Dichloroethane-d4		98.0	70-130					5/31/12 17:02	
Toluene-d8 4-Bromofluorobenzene		98.7 95.3	70-130 70-130					5/31/12 17:02 5/31/12 17:02	



Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
12E1060-01 [ATC-1]	B052501	5	5.00	05/31/12	
12E1060-02 [MW-7]	B052501	5	5.00	05/31/12	
12E1060-03 [ATC-4]	B052501	5	5.00	05/31/12	
12E1060-04 [MW-8]	B052501	5	5.00	05/31/12	
12E1060-05 [Trip Blank]	B052501	5	5.00	05/31/12	
12E1060-06 [MW-6]	B052501	5	5.00	05/31/12	



QUALITY CONTROL

Source

Spike

RPD

%REC

Volatile Organic Compounds by GC/MS - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B052501 - SW-846 5030B										
Blank (B052501-BLK1)	Prepared & Analyzed: 05/31/12									
Acetone	ND	50	μg/L							
Acrylonitrile	ND	5.0	$\mu \text{g/L}$							
tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu \text{g}/L$							V-05
Benzene	ND	1.0	$\mu g\!/\!L$							
Bromobenzene	ND	1.0	$\mu g/L$							
Bromochloromethane	ND	1.0	$\mu g/L$							
Bromodichloromethane	ND	0.50	$\mu \text{g/L}$							
Bromoform	ND	1.0	$\mu \text{g/L}$							
Bromomethane	ND	2.0	μg/L							
2-Butanone (MEK)	ND	20	$\mu \text{g/L}$							
tert-Butyl Alcohol (TBA)	ND	20	μg/L							V-05, V-16
n-Butylbenzene	ND	1.0	$\mu \text{g/L}$							
sec-Butylbenzene	ND	1.0	μg/L							
tert-Butylbenzene	ND	1.0	μg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L							
Carbon Disulfide	ND	2.0	μg/L							
Carbon Tetrachloride	ND	5.0	μg/L							
Chlorobenzene	ND	1.0	μg/L							
Chlorodibromomethane	ND	0.50	μg/L							
Chloroethane	ND	2.0	μg/L							
Chloroform	ND	2.0	μg/L							
Chloromethane	ND	2.0	μg/L							
2-Chlorotoluene	ND	1.0	μg/L							
4-Chlorotoluene	ND	1.0	$\mu g/L$							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	$\mu g/L$							V-05
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							V-05
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							V-05
Diethyl Ether Dieenropyl Ether (DIPE)	ND	2.0	μg/L							
Diisopropyl Ether (DIPE)	ND	0.50	μg/L							37.16
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

Spike

Source

%REC

RPD

Volatile Organic Compounds by GC/MS - Quality Control

Reporting

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
-						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
atch B052501 - SW-846 5030B				D 10.4		/01/10				
lank (B052501-BLK1) Iethylene Chloride	ND	5.0	па/І	Prepared & A	Analyzed: 05	/31/12				
-Methyl-2-pentanone (MIBK)	ND	10	μg/L μg/L							
[aphthalene	ND	2.0								
Propylbenzene	ND	1.0	μg/L μg/L							
tyrene	ND	1.0	μg/L μg/L							
1,1,2-Tetrachloroethane	ND	1.0	μg/L μg/L							
1,2,2-Tetrachloroethane	ND	0.50	μg/L μg/L							
etrachloroethylene	ND ND	1.0	μg/L μg/L							
etrahydrofuran		10	μg/L μg/L							V-16
bluene	ND	1.0	μg/L μg/L							V-10
2,3-Trichlorobenzene	ND	5.0	μg/L μg/L							
2,4-Trichlorobenzene	ND	1.0	μg/L μg/L							
3,5-Trichlorobenzene	ND ND	1.0	μg/L μg/L							
1,1-Trichloroethane	ND ND	1.0	μg/L μg/L							
1,2-Trichloroethane	ND ND	1.0	μg/L μg/L							
richloroethylene	ND ND	1.0	μg/L μg/L							
richlorofluoromethane (Freon 11)	ND ND	2.0	μg/L μg/L							
2,3-Trichloropropane		2.0	μg/L μg/L							
,1,2-Trichloro-1,2,2-trifluoroethane (Freon	ND ND	1.0	μg/L μg/L							
13)	ND	1.0	μg/ L							
2,4-Trimethylbenzene	ND	1.0	$\mu g/L$							
3,5-Trimethylbenzene	ND	1.0	$\mu g/L$							
inyl Chloride	ND	2.0	$\mu g/L$							
+p Xylene	ND	2.0	$\mu g/L$							
Xylene	ND	1.0	$\mu g/L$							
urrogate: 1,2-Dichloroethane-d4	24.1		μg/L	25.0		96.6	70-130			
urrogate: Toluene-d8	24.6		μg/L	25.0		98.5	70-130			
urrogate: 4-Bromofluorobenzene	24.0		μg/L	25.0		96.1	70-130			
CS (B052501-BS1)				Prepared & A	Analyzed: 05	/31/12				
cetone	109	50	μg/L	100		109	70-160			
crylonitrile	10.3	5.0	μg/L	10.0		103	70-130			
rt-Amyl Methyl Ether (TAME)	8.81	0.50	$\mu g/L$	10.0		88.1	70-130			V-05
enzene	10.5	1.0	μg/L	10.0		105	70-130			
romobenzene	11.4	1.0	μg/L	10.0		114	70-130			
romochloromethane	10.7	1.0	$\mu g/L$	10.0		107	70-130			
romodichloromethane	8.97	0.50	μg/L	10.0		89.7	70-130			
romoform	10.6	1.0	μg/L	10.0		106	70-130			
romomethane	7.82	2.0	μg/L	10.0		78.2	40-160			V-20
Butanone (MEK)	97.9	20	$\mu g/L$	100		97.9	40-160			
rt-Butyl Alcohol (TBA)	86.2	20	$\mu g/L$	100		86.2	40-160			V-05, V-16
Butylbenzene	10.8	1.0	$\mu g/L$	10.0		108	70-130			
c-Butylbenzene	11.7	1.0	μg/L	10.0		117	70-130			
rt-Butylbenzene		1.0	μg/L	10.0		119	70-130			
AD A LEAL LEAL (TDEE)	11.9						-0.430			
rt-Butyl Etnyl Etner (1BEE)		0.50	$\mu g/L$	10.0		93.0	70-130			
• • • •	9.30	0.50 2.0	μg/L μg/L	10.0 10.0		93.0 91.1	70-130 70-130			
arbon Disulfide										
arbon Disulfide arbon Tetrachloride	9.30 9.11 9.13	2.0	$\mu g/L$	10.0		91.1	70-130			
arbon Disulfide arbon Tetrachloride hlorobenzene	9.30 9.11 9.13 12.8	2.0 5.0	μg/L μg/L	10.0 10.0		91.1 91.3	70-130 70-130			
arbon Disulfide arbon Tetrachloride hlorobenzene hlorodibromomethane	9.30 9.11 9.13 12.8 9.13	2.0 5.0 1.0	μg/L μg/L μg/L	10.0 10.0 10.0		91.1 91.3 128	70-130 70-130 70-130			
ert-Butyl Ethyl Ether (TBEE) Earbon Disulfide Earbon Tetrachloride Ehlorobenzene Ehlorodibromomethane Ehloroethane Ehloroform	9.30 9.11 9.13 12.8 9.13 9.92	2.0 5.0 1.0 0.50	μg/L μg/L μg/L μg/L	10.0 10.0 10.0 10.0		91.1 91.3 128 91.3	70-130 70-130 70-130 70-130			
arbon Disulfide arbon Tetrachloride hlorobenzene hlorodibromomethane hloroethane	9.30 9.11 9.13 12.8 9.13	2.0 5.0 1.0 0.50 2.0	μg/L μg/L μg/L μg/L μg/L	10.0 10.0 10.0 10.0 10.0		91.1 91.3 128 91.3 99.2	70-130 70-130 70-130 70-130 70-130			



QUALITY CONTROL

Spike

Source

Volatile Organic Compounds by GC/MS - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch B052501 - SW-846 5030B											
LCS (B052501-BS1)				Prepared &	Analyzed: 05/	31/12					
4-Chlorotoluene	12.7	1.0	$\mu g/L$	10.0		127	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.81	5.0	μg/L	10.0		88.1	70-130			V-05	
1,2-Dibromoethane (EDB)	11.9	0.50	μg/L	10.0		119	70-130				
Dibromomethane	11.3	1.0	$\mu \text{g/L}$	10.0		113	70-130				
1,2-Dichlorobenzene	12.5	1.0	$\mu \text{g/L}$	10.0		125	70-130				
1,3-Dichlorobenzene	12.5	1.0	μg/L	10.0		125	70-130				
1,4-Dichlorobenzene	11.7	1.0	$\mu g/L$	10.0		117	70-130				
trans-1,4-Dichloro-2-butene	8.58	2.0	$\mu g/L$	10.0		85.8	70-130				
Dichlorodifluoromethane (Freon 12)	8.27	2.0	μg/L	10.0		82.7	40-160				
1,1-Dichloroethane	10.7	1.0	$\mu g/L$	10.0		107	70-130				
1,2-Dichloroethane	11.7	1.0	μg/L	10.0		117	70-130				
1,1-Dichloroethylene	10.8	1.0	$\mu g/L$	10.0		108	70-130				
cis-1,2-Dichloroethylene	9.85	1.0	μg/L	10.0		98.5	70-130				
trans-1,2-Dichloroethylene	10.7	1.0	μg/L	10.0		107	70-130				
1,2-Dichloropropane	10.4	1.0	μg/L	10.0		104	70-130				
1,3-Dichloropropane	11.3	0.50	μg/L	10.0		113	70-130				
2,2-Dichloropropane	7.73	1.0	μg/L	10.0		77.3	40-130			V-05	
1,1-Dichloropropene	10.7	2.0	μg/L	10.0		107	70-130				
cis-1,3-Dichloropropene	8.74	0.50	μg/L	10.0		87.4	70-130				
trans-1,3-Dichloropropene	8.88	0.50	μg/L	10.0		88.8	70-130			V-05	
Diethyl Ether	11.8	2.0	μg/L	10.0		118	70-130				
Diisopropyl Ether (DIPE)	11.6	0.50	μg/L	10.0		116	70-130				
1,4-Dioxane	111	50	μg/L	100		111	40-130			V-16	
Ethylbenzene	11.5	1.0	μg/L	10.0		115	70-130				
Hexachlorobutadiene	11.1	0.50	μg/L	10.0		111	70-130				
2-Hexanone (MBK)	102	10	μg/L	100		102	70-160				
Isopropylbenzene (Cumene)	12.5	1.0	μg/L	10.0		125	70-130				
p-Isopropyltoluene (p-Cymene)	11.7	1.0	μg/L	10.0		117	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)	104	10	μg/L	100		104	70-160				
Naphthalene	10.5	2.0	μg/L	10.0		105	40-130				
n-Propylbenzene	12.2	1.0	μg/L	10.0		122	70-130				
Styrene	12.3	1.0	μg/L	10.0		123	70-130				
1,1,2-Tetrachloroethane	10.5	1.0	μg/L	10.0		105	70-130				
1,1,2,2-Tetrachloroethane Tetrachloroethylene	11.7	0.50 1.0	μg/L	10.0		117	70-130				
Tetrahydrofuran	11.8	1.0	μg/L	10.0		118	70-130			V 16	
Toluene	10.2	1.0	μg/L μg/I	10.0		102	70-130			V-16	
1,2,3-Trichlorobenzene	11.3	5.0	μg/L μg/I	10.0		113	70-130				
1,2,4-Trichlorobenzene	11.3	1.0	μg/L μg/I	10.0 10.0		113	70-130 70-130				
1,3,5-Trichlorobenzene	11.0	1.0	μg/L μg/L	10.0		110 106	70-130 70-130				
1,1,1-Trichloroethane	10.6	1.0	μg/L μg/L	10.0		95.4	70-130 70-130				
1,1,2-Trichloroethane	9.54	1.0	μg/L μg/L	10.0		93.4 117	70-130				
Trichloroethylene	11.7 11.2	1.0	μg/L μg/L	10.0		117	70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	μg/L μg/L	10.0		106	70-130				
1,2,3-Trichloropropane	13.0	2.0	μg/L μg/L	10.0		130	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	13.0	1.0	μg/L μg/L	10.0		130	70-130				
113)	12.8	1.0	MØ L	10.0		120	/0-130				
1,2,4-Trimethylbenzene	11.0	1.0	$\mu g/L$	10.0		110	70-130				
1,3,5-Trimethylbenzene	11.7	1.0	$\mu g/L$	10.0		117	70-130				
Vinyl Chloride	9.48	2.0	μg/L	10.0		94.8	40-160				

RPD

%REC



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 B052501 - SW-846 5030B											
LCS (B052501-BS1)				Prepared &	Analyzed: 05/	31/12					
m+p Xylene	24.6	2.0	μg/L	20.0		123	70-130				
o-Xylene	12.6	1.0	$\mu g/L$	10.0		126	70-130				
Surrogate: 1,2-Dichloroethane-d4	24.2		μg/L	25.0		97.0	70-130				_
Surrogate: Toluene-d8	24.9		μg/L	25.0		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	24.5		μg/L	25.0		98.0	70-130				
LCS Dup (B052501-BSD1)				Prepared &	Analyzed: 05/	31/12					
Acetone	98.0	50	μg/L	100		98.0	70-160	10.4	25		
Acrylonitrile	9.98	5.0	$\mu g/L$	10.0		99.8	70-130	3.06	25		
tert-Amyl Methyl Ether (TAME)	8.51	0.50	$\mu g/L$	10.0		85.1	70-130	3.46	25	V-05	
Benzene	10.3	1.0	$\mu g/L$	10.0		103	70-130	2.31	25		
Bromobenzene	11.6	1.0	$\mu g/L$	10.0		116	70-130	1.65	25		
Bromochloromethane	10.5	1.0	$\mu g \! / \! L$	10.0		105	70-130	1.88	25		
Bromodichloromethane	8.67	0.50	$\mu g \! / \! L$	10.0		86.7	70-130	3.40	25		
Bromoform	10.1	1.0	$\mu g/L$	10.0		101	70-130	4.34	25		
Bromomethane	9.83	2.0	$\mu g/L$	10.0		98.3	40-160	22.8	25	V-20	
2-Butanone (MEK)	86.4	20	$\mu g/L$	100		86.4	40-160	12.5	25		
ert-Butyl Alcohol (TBA)	73.3	20	$\mu g/L$	100		73.3	40-160	16.2	25	V-05, V-16	
n-Butylbenzene	10.8	1.0	$\mu g/L$	10.0		108	70-130	0.557	25		
sec-Butylbenzene	12.1	1.0	$\mu g/L$	10.0		121	70-130	2.94	25		
ert-Butylbenzene	11.8	1.0	$\mu g/L$	10.0		118	70-130	0.589	25		
ert-Butyl Ethyl Ether (TBEE)	9.22	0.50	$\mu g/L$	10.0		92.2	70-130	0.864	25		
Carbon Disulfide	8.97	2.0	$\mu g/L$	10.0		89.7	70-130	1.55	25		
Carbon Tetrachloride	9.03	5.0	$\mu g/L$	10.0		90.3	70-130	1.10	25		
Chlorobenzene	12.8	1.0	$\mu g/L$	10.0		128	70-130	0.156	25		
Chlorodibromomethane	9.12	0.50	$\mu g/L$	10.0		91.2	70-130	0.110	25		
Chloroethane	10.2	2.0	μg/L	10.0		102	70-130	2.69	25		
Chloroform	10.7	2.0	μg/L	10.0		107	70-130	2.95	25		
Chloromethane	8.78	2.0	μg/L	10.0		87.8	40-160	0.341	25		•
2-Chlorotoluene	12.2	1.0	μg/L	10.0		122	70-130	1.22	25		
4-Chlorotoluene	12.7	1.0	μg/L	10.0		127	70-130	0.314	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.05	5.0	μg/L	10.0		80.5	70-130	9.02	25	V-05	
1,2-Dibromoethane (EDB)	11.4	0.50	μg/L	10.0		114	70-130	4.12	25		
Dibromomethane	11.0	1.0	μg/L	10.0		110	70-130	2.42	25		
1,2-Dichlorobenzene	12.4	1.0	μg/L	10.0		124	70-130	0.401	25		
1,3-Dichlorobenzene	12.5	1.0	μg/L	10.0		125	70-130	0.00	25		
1,4-Dichlorobenzene	11.6	1.0	μg/L	10.0		116	70-130	0.944	25		
trans-1,4-Dichloro-2-butene	7.83	2.0	μg/L	10.0		78.3	70-130	9.14	25		
Dichlorodifluoromethane (Freon 12)	8.05	2.0	μg/L	10.0		80.5	40-160	2.70	25		
1,1-Dichloroethane	10.5	1.0	μg/L	10.0		105	70-130	1.70	25		
1,2-Dichloroethane	11.6	1.0	μg/L	10.0		116	70-130	0.857	25		
1,1-Dichloroethylene	10.8	1.0	μg/L	10.0		108	70-130	0.00	25		
rong 1.2 Dichloroethylene	9.52	1.0	μg/L	10.0		95.2	70-130	3.41	25		
rans-1,2-Dichloroethylene	10.6	1.0	μg/L	10.0		106	70-130	0.753	25 25		
1,2-Dichloropropane	10.4	1.0	μg/L	10.0		104	70-130	0.0963	25 25		
1,3-Dichloropropane	11.1	0.50	μg/L	10.0		111	70-130	2.32	25 25	17.05	
2,2-Dichloropropane	7.42	1.0	μg/L	10.0		74.2	40-130	4.09	25	V-05	
,1-Dichloropropene	10.4	2.0	μg/L μα/Ι	10.0		104	70-130	2.85	25		
cis-1,3-Dichloropropene	8.51	0.50	μg/L μα/Ι	10.0		85.1	70-130	2.67	25	V 05	
crans-1,3-Dichloropropene Diethyl Ether	8.66	0.50	μg/L μg/I	10.0		86.6	70-130	2.51	25	V-05	
Diculyi Eulei	11.7	2.0	μg/L	10.0		117	70-130	0.933	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 B052501 - SW-846 5030B											
LCS Dup (B052501-BSD1)				Prepared &	Analyzed: 05	/31/12					
1,4-Dioxane	92.6	50	μg/L	100		92.6	40-130	17.6	50	V-16	 † ‡
Ethylbenzene	11.5	1.0	$\mu \text{g/L}$	10.0		115	70-130	0.174	25		
Hexachlorobutadiene	11.3	0.50	$\mu \text{g/L}$	10.0		113	70-130	1.34	25		
2-Hexanone (MBK)	91.3	10	$\mu \text{g/L}$	100		91.3	70-160	11.5	25		†
Isopropylbenzene (Cumene)	12.5	1.0	$\mu \text{g/L}$	10.0		125	70-130	0.00	25		
p-Isopropyltoluene (p-Cymene)	11.8	1.0	$\mu g/L$	10.0		118	70-130	0.595	25		
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	$\mu \text{g/L}$	10.0		108	70-130	2.28	25		
Methylene Chloride	10.3	5.0	$\mu \text{g/L}$	10.0		103	70-130	0.390	25		
4-Methyl-2-pentanone (MIBK)	95.7	10	$\mu g/L$	100		95.7	70-160	8.76	25		†
Naphthalene	8.92	2.0	$\mu g/L$	10.0		89.2	40-130	16.0	25		†
n-Propylbenzene	12.2	1.0	$\mu \text{g/L}$	10.0		122	70-130	0.492	25		
Styrene	12.1	1.0	$\mu \text{g/L}$	10.0		121	70-130	0.984	25		
1,1,1,2-Tetrachloroethane	10.5	1.0	μg/L	10.0		105	70-130	0.285	25		
1,1,2,2-Tetrachloroethane	11.0	0.50	$\mu \text{g/L}$	10.0		110	70-130	5.99	25		
Tetrachloroethylene	11.7	1.0	$\mu \text{g/L}$	10.0		117	70-130	0.255	25		
Tetrahydrofuran	8.85	10	$\mu g/L$	10.0		88.5	70-130	13.8	25	V-16	
Toluene	11.2	1.0	$\mu g/L$	10.0		112	70-130	1.33	25		
1,2,3-Trichlorobenzene	9.77	5.0	μg/L	10.0		97.7	70-130	14.3	25		
1,2,4-Trichlorobenzene	10.2	1.0	$\mu g/L$	10.0		102	70-130	7.64	25		
1,3,5-Trichlorobenzene	10.3	1.0	μg/L	10.0		103	70-130	2.49	25		
1,1,1-Trichloroethane	9.25	1.0	μg/L	10.0		92.5	70-130	3.09	25		
1,1,2-Trichloroethane	11.4	1.0	μg/L	10.0		114	70-130	2.25	25		
Trichloroethylene	11.0	1.0	μg/L	10.0		110	70-130	0.901	25		
Trichlorofluoromethane (Freon 11)	10.6	2.0	μg/L	10.0		106	70-130	0.0946	25		
1,2,3-Trichloropropane	12.3	2.0	μg/L	10.0		123	70-130	5.70	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.9	1.0	μg/L	10.0		129	70-130	0.156	25		
1,2,4-Trimethylbenzene	11.1	1.0	$\mu g/L$	10.0		111	70-130	0.721	25		
1,3,5-Trimethylbenzene	11.6	1.0	$\mu \text{g/L}$	10.0		116	70-130	1.12	25		
Vinyl Chloride	9.57	2.0	$\mu g/L$	10.0		95.7	40-160	0.945	25		†
m+p Xylene	24.5	2.0	$\mu \text{g}/L$	20.0		122	70-130	0.692	25		
o-Xylene	12.6	1.0	$\mu g/L$	10.0		126	70-130	0.159	25		
Surrogate: 1,2-Dichloroethane-d4	23.7		μg/L	25.0		94.9	70-130				
Surrogate: Toluene-d8	25.0		$\mu g/L$	25.0		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	25.0		μg/L	25.0		99.9	70-130				



FLAG/QUALIFIER SUMMARY

T	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.
7-05	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.
7-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
<i>Y</i> -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
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME,RI
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
tert-Butyl Alcohol (TBA)	NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,3-Dichlorobenzene	CT,NH,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,RI
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME,RI
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI
The CON-TEST Environmental Laboratory operates un	der the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publile Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

	MACOSO MATERIAL OSOSON IN OS			□ [†] 24-Hr □ [†] 48-Hr	76.000	Car Walle
#	MA State DW Form Required PWSID #		Connecticut:	RUSH †	Date/Time: 1635	Reinquished by: (signature)
red	 RCP Analysis Certification Form Required 			Other SIT	41.05.5	11/1ch
uired	 MCP Analytical Certification Form Required 			□ 10-Day	Date/Time: 101	Received by: (signature)
	s your project wich of acr :		Massachusetts:	☐ 7-Day	5/29/12	
0 = other	S VOIII PROJECT MCD OF BCD 3	ments	Detection Limit Requiren	Turnaround **	To Rof Date/Time: 18:35	Relinquished by (signature
SL = sludge	H - High; M - Medium; L - Low; C - Clean; U - Unknown	gh; M - Med	H-H			
S = soil/solid	тау ре підп іп сопсепітацоп іп міатіх/сопс. Соде вох:	oe riigri in co	Шау			
A = air	the following codes to let Con-Test know if a specific sample	e following	Please use th			COIIII eliis:
WW= wastewater						
GW= groundwater						
*Matrix Code:				•	-	
		×	X GW	S/29/12 10:15	MW-6	90
O = Other		×	X OW		Trip Blank	, OS
T - Na thiografiata		\	\dashv		- 1	10-01
B = Sodium bisulfate		×	X GZ	11:55	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	10 PO
S = Sulfuric Acid		>	X OF	02:11	ATCT	(C) E (C)
N = Nitric Acid		ς .	-		A	() +
M = Methanol		×	メのぎ		ナーゴマ	OH 02
H = HCl		×	Mg/W	16:15	ATC-1	25 CI
**Preservation			7 A	14,11	WB-2	141
			××	5/29/12 16:38	WPL-6	(a, 0)
0 =Other			Composite Class Lotte	Date/Time Date/Time	╁	(ideoratory use only)
T=tedlar bag			*Matrix Conc Code		Client Sample ID / Description	ō
V= vial		·	O "Enhanced Data Package"	Collection		
ST=sterile		10	HER		proposal date	O yes
P =plastic		(OPDF OEXCEL OGIS	Format:	? (for billing purposes)	Project Proposal Provided? (for billing purposes)
G =glass) -	downa pallistil & alcadis vision	Elliali. QQ	VA SIBA	Campica by.
A=amber glass		_	الما المحاصط الما		9, 61	Λ
***Cont. Code:		1 L 26		eld St. Fax #	Providence, RI Springfield St.	Project Location:
O Lab to Filter		6	DAIA DELIVERY (check all that apply) O FAX DEMAIL XWEBSITE	O FAX SOFE	a Vallister	Attention: Donne
O Field Filtered				Client PO#	15 R1 02886	Wowide
Dissoived Metais			A 21713 C. 2001	Project #	O CORC	
Discoulant Make	ANALYSIS REQUESTED		£ 000 C>15/07/1	Droino+ #	alta Circa Riva	ر مور
***Container Cod P		ナイ	Telephone: 401-738-3887	Telephone:	Decap15	Company Name: 🛕
		/ 도	(ANALYTICAL LABORATORY www.contestlabs.com	IIIIIIII ANALYTICAL
# of Containers 5		2	777 1060	stlabs.com		
	East longmeadow, MA 01028				Fax: 413-525-6405	
Page of 6		RECORD	CHAIN OF CUSTODY	_	Phone: 413-525-2332	

COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

TURNAROUND TIME (business days) 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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

NELAC & AIHA Certified WBE/DBE Certified

☐ [†]72-Hr ☐ [†]4-Day □ [†]24-Hr □ [†]48-Hr 39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com





Sample Receipt Checklist

Were the samples received in Temperature Compliance of (2-6°C)? Temperature "C by Temp blank Temperature "C by Temp gun 5,8°C Time Time Time 6) Are there any RUSH or SHORT HOLDING TIME samples? Who was notified Date Time 7) Location where samples are stored: # Of Location where samples are stored: # Of Location where samples have the proper Acid pH: Yes No N/A # OF Location where samples have the proper Base pH: Yes No N/A # OF Location where samples have the proper Base pH: Yes No N/A # OF CONTAINER'S RECEIVED ACCURATE TO THE STORE TO	CLIENT NAME: Arcadi	Σ	_RECEIVED BY:	(. (-5	DATE: 5/30/12
If not, explain: 4) How were the samples received: On loe Direct from Sampling Ambient In Cooler(s) Were the samples received in Temperature Compliance of (2-6°C)? Were the samples received in Temperature Compliance of (2-6°C)? We have the samples received in Temperature °C by Temp gun 5) Are there Dissolved samples for the lab to filter? Who was notified Date Time 6) Are there any RUSH or SHORT HOLDING TIME samples? Who was notified Date Time 7) Location where samples are stored: ## Of containers are ceived at Con-Test ## of containers received at Con-Test ## of containers 1 Liter Amber 500 mL Amber 500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 40 mL Vial - type listed below 1	2) Does the chain agree with the		ned?		No CoC Included
Were the samples received in Temperature Compliance of (2-6°C)? Were the samples received in Temperature Compliance of (2-6°C)? Temperature "C by Temp gun		endition?		Yes No	
Were the samples received in Temperature Compliance of (2-6°C)? Temperature "C by Temp blank Temperature "C by Temp gun 5,8°C Time 70	4) How were the samples receive	ed:			
Were the samples received in Temperature Compliance of (2-6°C)? Temperature °C by Temp gun Temperature °C by Temp gun Temperature °C by Temp gun Time Share there Dissolved samples for the lab to filter? Who was notified Date Time Share there any RUSH or SHORT HOLDING TIME samples? Who was notified Date Time Permission to subcontract samples? Yes No (Walk-in clients only) if not already approved Client Signature: B) Do all samples have the proper Base pH: Yes No N/A Share there any RUSH or SHORT HOLDING TIME samples? Who was notified Date Time Permission to subcontract samples? Yes No (Walk-in clients only) if not already approved Client Signature: B) Do all samples have the proper Base pH: Yes No N/A Share there any RUSH or SHORT HOLDING TIME samples? Yes No (Walk-in clients only) if not already approved Client Signature: B) Do all samples have the proper Base pH: Yes No N/A Share there any RUSH or SHORT HOLDING TIME samples? Yes No (Walk-in clients only) if not already approved Client Signature: B oz amber/clear jar 4 oz amber/clear jar Persider jar 4 oz amber/clear ja	On Ice Direct from S	ampling	Ambient	In Cooler(s)	
Temperature "C by Temp gun 5,8 °C 5) Are there Dissolved samples for the lab to filter? Who was notified Date Time 6) Are there any RUSH or SHORT HOLDING TIME samples? Who was notified Date Time 7) Location where samples are stored:	Were the samples received in Te	mperature Complia	nce of (2-6°C)?		
Who was notified Date Time	Temperature °C by Temp blank				
Who was notified Date Time			Time	Yes No	
Who was notified				Yes No)
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 Containers received at Con-Test # of containers 1 Liter Amber # of containers 1 Liter Amber # of containers 1 Liter Plastic # of containers 250 mL Amber (80z amber) 1 Liter Plastic # Air Cassette 500 mL Plastic # By Ziploc 40 mL Vial - type listed below # PM 2.5 / PM 10 Colisure / bacteria bottle Dissolved Oxygen bottle SoC kit Encore To-17 Tubes Flashpoint bottle Non-ConTest Container Perchlorate Kit Other Laboratory Comments: 40 mL vials: # HCI # Methanol Permission to subcontract samples? Yes No (Walk-in clients only) if not already approved Client Signature: (Walk-in clients only) if not already approved Client Signature: # of containers # of containers # of containers # do containers # do zamber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar Plastic Bag / Ziploc PM 2.5 / PM 10 PUF Cartridge SOC Kit To-17 Tubes Non-ConTest Container Other Laboratory Comments: 40 mL vials: # HCI # Methanol Time and Date Frozen:			-	رسيب ١٠٠٥	
Page 28 of Containers Containers received at Con-Test		10	Pern (Wal	k-in clients only)	
# of containers received at Con-Test # of containers # dor can ber/clear jar # dir Cassette # Bisulfate # Disabplocative Tube # Other Glass jar # Other # Disabplocative Tube # Other Glass jar # Disabplocative Tube # Disabplocative Tube # Other Glass jar # Disabplocative Tube # Disabplocative Tube # Other Glass jar # Disabplocative Tube # Disabplocative Tube # Other Glass jar # Disabplocative Tube # Disabplocative Tube # Disabplocative Tube # Other Glass jar # Disabplocative Tube # Disabplocative Tube # Other Glass jar # Disabplocative Tube # Disabplocative Tube # Disabplocative Tube # Disabplocative Tube # Other Glass jar # Disabplocative Tube # Disabp	8) Do all samples have the prope	r Acid pH: Yes N	lo N/A		-
# of containers received at Con-Test # of containers # of containers # of containers 1 Liter Amber	9) Do all samples have the prope	r Base pH: Yes	No N/A		_
# of containers # of c	C	ontainers re			
1 Liter Amber 500 mL Amber 250 mL Amber (8oz amber) 250 mL Plastic 300 mL Plastic 4 oz amber/clear jar 2 oz amber/clear jar 2 oz amber/clear jar 3 Liter Plastic 4 in Cassette 5 in Cass		# of containers			# of containers
Soo mL Amber 4 oz amber/clear jar 2 oz amber/clear jar 2 oz amber/clear jar 2 oz amber/clear jar 3 oz amber/clear jar 4 oz amber/clear jar 2 oz amber/clear jar 3 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 2 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 2 oz amber/clear jar 4 oz amber/clear jar 4 oz amber/clear jar 2 oz amber/clear jar 4 oz	1 Liter Amber	,	8 oz	amber/clear iar	
2 oz amber/clear jar 1 Liter Plastic 500 mL Plastic 40 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle Encore Flashpoint bottle Perchlorate Kit Other Laboratory Comments: 2 oz amber/clear jar Air Cassette Hg/Hopcalite Tube Plastic Bag / Ziploc PM 2.5 / PM 10 PUF Cartridge SOC Kit TO-17 Tubes Non-ConTest Container Other Other Other Time and Date Frozen:	500 mL Amber		9. P. 3564. Se.		***************************************
Air Cassette 500 mL Plastic 250 mL plastic 40 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle Flashpoint bottle Perchlorate Kit Other Laboratory Comments: Air Cassette Hg/Hopcalite Tube Plastic Bag / Ziploc PM 2.5 / PM 10 PUF Cartridge SOC Kit SOC Kit Non-ConTest Container Other Other To-17 Tubes Non-ConTest Container Other Other Time and Date Frozen: Time and Date Frozen: Time and Date Frozen: Page 36 of	250 mL Amber (8oz amber)		1.23		······································
Hg/Hopcalite Tube Plastic Bag / Ziploc PM 2.5 / PM 10 PUF Cartridge SOC Kit To-17 Tubes Perchlorate Kit Other Doc#:277: # Bisulfate # DI Water Bag / Ziploc PM 2.5 / PM 10 PUF Cartridge SOC Kit To-17 Tubes Non-ConTest Container Other Other Other Other Other Doc#:277: # Bisulfate # DI Water Page 36 of Page	1 Liter Plastic				
250 mL plastic 40 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle Encore Flashpoint bottle Perchlorate Kit Other Laboratory Comments: Plastic Bag / Ziploc PM 2.5 / PM 10 PUF Cartridge SOC Kit TO-17 Tubes Non-ConTest Container Other Other Other Time and Date Frozen: Time and Date Frozen: Page 26 of	500 mL Plastic		Hg/	Hopcalite Tube	
Colisure / bacteria bottle Dissolved Oxygen bottle Encore Flashpoint bottle Perchlorate Kit Other Laboratory Comments: Perchlorate Kit Other A0 mL vials: # HCl Doc# 2777 # Bisulfate PUF Cartridge SOC Kit SOC Kit TO-17 Tubes Non-ConTest Container Other Other Other Time and Date Frozen:	250 mL plastic		Plas		
Colisure / bacteria bottle Dissolved Oxygen bottle Encore Flashpoint bottle Perchlorate Kit Other Laboratory Comments: Perchlorate Kit Other A0 mL vials: # HCl Doc# 2777 # Bisulfate PUF Cartridge SOC Kit SOC Kit TO-17 Tubes Non-ConTest Container Other Other Other Time and Date Frozen:		18	_ Pi	VI 2.5 / PM 10	
SOC Kit TO-17 Tubes Non-ConTest Container Other glass jar Other			25.9756074	UF Cartridge	
Flashpoint bottle Perchlorate Kit Other glass jar Other Laboratory Comments: 40 mL vials: # HCl Doc# 2777: # Bisulfate # DI Water				SOC Kit	
Perchlorate Kit Other Glass jar Other Laboratory Comments: 40 mL vials: # HCl			_ T	O-17 Tubes	
Other Laboratory Comments: 40 mL vials: # HCl		· · · · · · · · · · · · · · · · · · ·	Non-C	onTest Contain	er
Laboratory Comments: 40 mL vials: # HCl				ther glass jar	
40 mL viais: # HCl	Other Laboratory Comments:		and the second	Other	L
Doc# 277 # Bisulfate # DI Water	40 ml viole: #1101	14	U	T	Time and Date Frozen:
Page 26 of		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
			# 1.111		Page 26 of



June 6, 2012

Donna Pallister Arcadis US, Inc. - Warwick, RI 300 Metro Center Blvd., Suite 250 Warwick, RI 02886

Project Location: Providence RI, Springfield, St

Client Job Number:

Project Number: WK012152.0007

Laboratory Work Order Number: 12E1069

Lua Watthington

Enclosed are results of analyses for samples received by the laboratory on May 30, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington Project Manager



Arcadis US, Inc. - Warwick, RI 300 Metro Center Blvd., Suite 250

Warwick, RI 02886 ATTN: Donna Pallister

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.0007

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E1069

REPORT DATE: 6/6/2012

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, Springfield, St

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MPL-6	12E1069-01	Air		EPA TO-14A	
WB-2	12E1069-02	Air		EPA TO-14A	



CASE NARRATIVE SUMMARY

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

EPA TO-14A

Qualifications:

Holding times and stability of samples taken in tedlar bags have not been determined

Analyte & Samples(s) Qualified:

12E1069-01[MPL-6], 12E1069-02[WB-2]

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

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Hexachlorobutadiene

B052719-BS1

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

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Hexachlorobutadiene

B052719-BS1

 $The \ results \ of \ analyses \ reported \ only \ relate \ to \ samples \ submitted \ to \ the \ Con-Test \ Analytical \ Laboratory \ for \ testing.$

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian Laboratory Manager



ANALYTICAL RESULTS

Project Location: Providence RI, Springfield, St

Date Received: 5/30/2012 **Field Sample #: MPL-6 Sample ID: 12E1069-01** Sample Matrix: Air Sampled: 5/29/2012 16:38 Sample Description/Location: Sub Description/Location:

Canister ID: Canister Size: 6 liter Flow Controller ID: Sample Type: Grab Work Order: 12E1069 Initial Vacuum(in Hg): Final Vacuum(in Hg): Receipt Vacuum(in Hg):

Flow Controller Type: Fixed-Orifice Flow Controller Calibration RPD Pre and Post-Sampling:

Sample Flags: A-09		Er.	A 10-14A					
Sample Flags. 71-07	ppl			ug/r			Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Benzene	0.55	0.10		1.8	0.32	2	5/31/12 22:02	ТРН
Bromomethane	ND	0.10		ND	0.39	2	5/31/12 22:02	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	5/31/12 22:02	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	5/31/12 22:02	TPH
Chloroethane	ND	0.10		ND	0.26	2	5/31/12 22:02	TPH
Chloroform	0.15	0.10		0.74	0.49	2	5/31/12 22:02	TPH
Chloromethane	0.31	0.10		0.64	0.21	2	5/31/12 22:02	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	5/31/12 22:02	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	5/31/12 22:02	TPH
1,3-Dichlorobenzene	0.11	0.10		0.65	0.60	2	5/31/12 22:02	TPH
1,4-Dichlorobenzene	0.53	0.10		3.2	0.60	2	5/31/12 22:02	TPH
Dichlorodifluoromethane (Freon 12)	0.54	0.10		2.7	0.49	2	5/31/12 22:02	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	5/31/12 22:02	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	5/31/12 22:02	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	5/31/12 22:02	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	5/31/12 22:02	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	5/31/12 22:02	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	5/31/12 22:02	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	5/31/12 22:02	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	5/31/12 22:02	TPH
Ethylbenzene	0.27	0.10		1.2	0.43	2	5/31/12 22:02	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	5/31/12 22:02	TPH
Methylene Chloride	5.8	1.0		20	3.5	2	5/31/12 22:02	TPH
Styrene	5.9	0.10		25	0.43	2	5/31/12 22:02	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	5/31/12 22:02	TPH
Tetrachloroethylene	0.21	0.10		1.4	0.68	2	5/31/12 22:02	TPH
Toluene	20	0.10		77	0.38	2	5/31/12 22:02	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	5/31/12 22:02	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	5/31/12 22:02	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	5/31/12 22:02	TPH
Trichloroethylene	0.23	0.10		1.2	0.54	2	5/31/12 22:02	TPH
Trichlorofluoromethane (Freon 11)	3.3	0.10		19	0.56	2	5/31/12 22:02	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	5/31/12 22:02	TPH
1,2,4-Trimethylbenzene	0.47	0.10		2.3	0.49	2	5/31/12 22:02	TPH
1,3,5-Trimethylbenzene	0.16	0.10		0.81	0.49	2	5/31/12 22:02	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	5/31/12 22:02	TPH
m&p-Xylene	0.65	0.20		2.8	0.87	2	5/31/12 22:02	TPH



ANALYTICAL RESULTS

 $Project\ Location:\ Providence\ RI,\ Springfield,\ St$

Date Received: 5/30/2012

Field Sample #: MPL-6

Sample ID: 12E1069-01

Sample Matrix: Air

Sampled: 5/29/2012 16:38

Sample Description/Location: Sub Description/Location: Canister ID:

Canister ID:
Canister Size: 6 liter
Flow Controller ID:
Sample Type: Grab

Work Order: 12E1069 Initial Vacuum(in Hg): Final Vacuum(in Hg): Receipt Vacuum(in Hg): Flow Controller Type: Fixed-Orifice

Flow Controller Calibration
RPD Pre and Post-Sampling:

	LIA	10-144	
Sample Flags: A-09	ppbv	ug/m3	Date/Time
Analyte	Results RL	Flag Results RL	Dilution Analyzed Analyst
o-Xylene	0.31 0.10	1.4 0.43	2 5/31/12 22:02 TPH
Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	113	70-130	5/31/12 22:02



ANALYTICAL RESULTS

Project Location: Providence RI, Springfield, St

Date Received: 5/30/2012

Field Sample #: WB-2

Sample ID: 12E1069-02

Sample Matrix: Air

Sampled: 5/29/2012 14:11

Sample Description/Location: Sub Description/Location: Canister ID:

Canister Size: 6 liter Flow Controller ID: Sample Type: Grab Work Order: 12E1069 Initial Vacuum(in Hg): Final Vacuum(in Hg): Receipt Vacuum(in Hg):

Flow Controller Type: Fixed-Orifice Flow Controller Calibration RPD Pre and Post-Sampling:

		EP.	A TO-14A					
Sample Flags: A-09	ppl	bv		ug/r	n3		Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Benzene	0.45	0.10		1.5	0.32	2	5/31/12 23:18	TPH
Bromomethane	ND	0.10		ND	0.39	2	5/31/12 23:18	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	5/31/12 23:18	TPH
Chlorobenzene	ND	0.10		ND	0.46	2	5/31/12 23:18	TPH
Chloroethane	ND	0.10		ND	0.26	2	5/31/12 23:18	TPH
Chloroform	0.24	0.10		1.2	0.49	2	5/31/12 23:18	TPH
Chloromethane	0.36	0.10		0.75	0.21	2	5/31/12 23:18	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	5/31/12 23:18	TPH
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	5/31/12 23:18	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	5/31/12 23:18	TPH
1,4-Dichlorobenzene	0.50	0.10		3.0	0.60	2	5/31/12 23:18	TPH
Dichlorodifluoromethane (Freon 12)	0.61	0.10		3.0	0.49	2	5/31/12 23:18	TPH
1,1-Dichloroethane	ND	0.10		ND	0.40	2	5/31/12 23:18	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	5/31/12 23:18	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	5/31/12 23:18	TPH
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	5/31/12 23:18	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	5/31/12 23:18	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	5/31/12 23:18	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	5/31/12 23:18	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	5/31/12 23:18	TPH
Ethylbenzene	0.41	0.10		1.8	0.43	2	5/31/12 23:18	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	5/31/12 23:18	TPH
Methylene Chloride	6.4	1.0		22	3.5	2	5/31/12 23:18	TPH
Styrene	5.6	0.10		24	0.43	2	5/31/12 23:18	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	5/31/12 23:18	TPH
Tetrachloroethylene	0.24	0.10		1.6	0.68	2	5/31/12 23:18	TPH
Toluene	22	0.10		81	0.38	2	5/31/12 23:18	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	5/31/12 23:18	TPH
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	5/31/12 23:18	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	5/31/12 23:18	TPH
Trichloroethylene	0.12	0.10		0.63	0.54	2	5/31/12 23:18	TPH
Trichlorofluoromethane (Freon 11)	1.2	0.10		6.9	0.56	2	5/31/12 23:18	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	5/31/12 23:18	TPH
1,2,4-Trimethylbenzene	0.63	0.10		3.1	0.49	2	5/31/12 23:18	TPH
1,3,5-Trimethylbenzene	0.23	0.10		1.2	0.49	2	5/31/12 23:18	TPH
Vinyl Chloride	ND	0.10		ND	0.26	2	5/31/12 23:18	TPH
m&p-Xylene	1.1	0.20		4.6	0.87	2	5/31/12 23:18	TPH



ANALYTICAL RESULTS

Project Location: Providence RI, Springfield, St

Date Received: 5/30/2012 **Field Sample #: WB-2 Sample ID: 12E1069-02** Sample Matrix: Air Sampled: 5/29/2012 14:11 Sample Description/Location: Sub Description/Location: Canister ID:

Canister Size: 6 liter Flow Controller ID: Sample Type: Grab Work Order: 12E1069
Initial Vacuum(in Hg):

Final Vacuum(in Hg):
Receipt Vacuum(in Hg):

Flow Controller Type: Fixed-Orifice Flow Controller Calibration RPD Pre and Post-Sampling:

		2111101111					
Sample Flags: A-09	ppbv		ug/i	m3		Date/Time	
Analyte	Results RL	Flag	Results	RL	Dilution	Analyzed	Analyst
o-Xylene	0.46 0.10)	2.0	0.43	2	5/31/12 23:18	ТРН
Surrogates	% Recovery		% REG	C Limits			
4-Bromofluorobenzene (1)	115		70-	-130		5/31/12 23:18	



Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-14A Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
12E1069-01 [MPL-6] 12E1069-02 [WB-2]	B052719 B052719	1	1	N/A N/A	1000 1000	400 400	200 200	05/31/12 05/31/12



Surrogate: 4-Bromofluorobenzene (1)

8.95

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte Results RL Results RL ppbv Result %REC Limits RPD Limit Flag		ppby	7	ug/m	3	Spike Level	Source		%REC		RPD	
	Analyte	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	Flag

Batch B052719 - TO-15 Prep			
Blank (B052719-BLK1)			Prepared & Analyzed: 05/31/12
Benzene	ND	0.020	
Bromomethane	ND	0.020	
Carbon Tetrachloride	ND	0.020	
Chlorobenzene	ND	0.020	
Chloroethane	ND	0.020	
Chloroform	ND	0.020	
Chloromethane	ND	0.020	
1,2-Dibromoethane (EDB)	ND	0.020	
1,2-Dichlorobenzene	ND	0.020	
1,3-Dichlorobenzene	ND	0.020	
1,4-Dichlorobenzene	ND	0.020	
Dichlorodifluoromethane (Freon 12)	ND	0.020	
1,1-Dichloroethane	ND	0.020	
1,2-Dichloroethane	ND	0.020	
1,1-Dichloroethylene	ND	0.020	
cis-1,2-Dichloroethylene	ND	0.020	
1,2-Dichloropropane	ND	0.020	
cis-1,3-Dichloropropene	ND	0.020	
trans-1,3-Dichloropropene	ND	0.020	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020	
Ethylbenzene	ND	0.020	
Hexachlorobutadiene	ND	0.020	
Methylene Chloride	ND	0.20	
Styrene	ND	0.020	
1,1,2,2-Tetrachloroethane	ND	0.020	
Tetrachloroethylene	ND	0.020	
Toluene	ND	0.020	
1,2,4-Trichlorobenzene	ND	0.020	
1,1,1-Trichloroethane	ND	0.020	
1,1,2-Trichloroethane	ND	0.020	
Trichloroethylene	ND	0.020	
Trichlorofluoromethane (Freon 11)	ND	0.020	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.020	
1,2,4-Trimethylbenzene	ND	0.020	
1,3,5-Trimethylbenzene	ND	0.020	
Vinyl Chloride	ND	0.020	
m&p-Xylene	ND	0.040	
o-Xylene	ND	0.020	

112

8.00

70-130



1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Surrogate: 4-Bromofluorobenzene (1)

Vinyl Chloride

m&p-Xylene

o-Xylene

4.85

4.78

5.67

9.18

4.71

9.16

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

	ppbv	ug/m3	3	Spike Level	Source		%REC		RPD	
Analyte	Results R	_	RL	ppbv	Result	%REC	Limits	RPD	Limit	Flag
Batch B052719 - TO-15 Prep										
LCS (B052719-BS1)				Prepared & A	Analyzed: 05/	31/12				
Benzene	4.08			5.00		81.6	70-130			
Bromomethane	5.32			5.00		106	70-130			
Carbon Tetrachloride	4.74			5.00		94.8	70-130			
Chlorobenzene	4.82			5.00		96.3	70-130			
Chloroethane	6.19			5.00		124	70-130			
Chloroform	5.87			5.00		117	70-130			
Chloromethane	5.27			5.00		105	70-130			
1,2-Dibromoethane (EDB)	4.55			5.00		91.0	70-130			
1,2-Dichlorobenzene	5.88			5.00		118	70-130			
1,3-Dichlorobenzene	5.76			5.00		115	70-130			
1,4-Dichlorobenzene	5.63			5.00		113	70-130			
Dichlorodifluoromethane (Freon 12)	5.89			5.00		118	70-130			
1,1-Dichloroethane	5.36			5.00		107	70-130			
1,2-Dichloroethane	5.18			5.00		104	70-130			
1,1-Dichloroethylene	4.94			5.00		98.8	70-130			
cis-1,2-Dichloroethylene	5.31			5.00		106	70-130			
1,2-Dichloropropane	4.08			5.00		81.6	70-130			
cis-1,3-Dichloropropene	4.61			5.00		92.3	70-130			
trans-1,3-Dichloropropene	4.35			5.00		87.1	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.81			5.00		116	70-130			
Ethylbenzene	4.69			5.00		93.8	70-130			
Hexachlorobutadiene	6.99			5.00		140 *	70-130			L-01, V-06
Methylene Chloride	4.70			5.00		94.1	70-130			
Styrene	4.49			5.00		89.8	70-130			
1,1,2,2-Tetrachloroethane	4.74			5.00		94.8	70-130			
Tetrachloroethylene	5.76			5.00		115	70-130			
Toluene	4.63			5.00		92.5	70-130			
1,2,4-Trichlorobenzene	6.71			5.00		134 *	70-130			L-01, V-06
1,1,1-Trichloroethane	4.49			5.00		89.8	70-130			
1,1,2-Trichloroethane	4.80			5.00		96.0	70-130			
Trichloroethylene	4.54			5.00		90.9	70-130			
Trichlorofluoromethane (Freon 11)	5.96			5.00		119	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	6.03			5.00		121	70-130			

5.00

5.00

5.00

10.0

5.00

8.00

70-130

70-130

70-130

70-130

70-130

70-130

97.0

95.6

113

91.8

94.3

115



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.
A-09	Holding times and stability of samples taken in tedlar bags have not been determined
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.



CERTIFICATIONS

Certified Analyses included in this Report

EPATO-14A in Airs Benzene AHBAFLNY Fromomeduane AHBAFLNY Curbon Tetrachloride AHBAFLNY Chlorochernere AHBAFLNY Chlorocherne AHBAFLNY Chlorocherne AHBAFLNY Chlorocherne AHBAFLNY L-Dolchlorocherane (EDI) NY 1_3-Dichlorocherane (EDI) NY 1_3-Dichlorocherane AHBAFLNY 1_3-Dichlorocherane AHBAFLNY<	Analyte	Certifications
Bromomethame AHA,FLNY Carbon Terrenforide AHA,FLNY Chlorochame AHA,FLNY Chlorochame AHA,FLNY Chloromethame AHA,FLNY 1,2-Dichromethame (EDB) NY 1,2-Dichromethame (EDB) NY 1,3-Dichlorobenzeme AHA,FLNY 1,3-Dichlorobenzeme AHA,FLNY 1,3-Dichloromethame (Feon 12) AHA,FLNY 1,1-Dichloromethame AHA,FLNY 1,1-Dichlorochame AHA,FLNY <t< td=""><td>EPA TO-14A in Air</td><td></td></t<>	EPA TO-14A in Air	
Carbon Tetrachloride AHIA-FLNY Chiorochenzene AHIA-FLNY Chloroform AHIA-FLNY Chloromethane AHIA-FLNY Chloromethane (EDB) NY 1,2-Dichlorobenzene AHIA-FLNY 1,3-Dichlorobenzene AHIA-FLNY 1,4-Dichlorobenzene AHIA-FLNY 1,1-Dichlorodenzene AHIA-FLNY 1,1-Dichlorodenzene AHIA-FLNY 1,2-Dichlorodenzene AHIA-FLNY 1,2-Dichlorodenzene AHIA-FLNY 1,2-Dichlorodenzene AHIA-FLNY 1,2-Dichlorodenzene AHIA-FLNY 1,2-Dichlorodenzene AHIA-FLNY 1,2-Dichlorodenzene AHIA-FLNY 1,2-Dichloropropene AHIA-FLNY 1,2-Dichloropropene AHIA-FLNY 1,2-Dichloropropene AHIA-FLNY 1,2-Dichlorobenzene AHIA-FLNY Meta-blorobutadiene AHIA-FLNY Meta-blorobenzene AHIA-FLNY 1,1-2-Trichlorochane AHIA-FLNY Tickeralhorochane AHIA-FLNY 1,1-2-Trichlorochane AHIA-FLNY <td>Benzene</td> <td>AIHA,FL,NY</td>	Benzene	AIHA,FL,NY
Chlorochenzene AHA,FL,NY Chlorochenne AHIA,FL,NY Chloromethane AHIA,FL,NY Chloromethane AHIA,FL,NY 1,2-Dischlorochenzene AHIA,FL,NY 1,3-Dischlorochenzene AHIA,FL,NY 1,4-Dechlorochenzene AHIA,FL,NY 1,1-Dischlorochenzene AHIA,FL,NY 1,2-Dischlorochene AHIA,FL,NY 1,2-Dischlorochene AHIA,FL,NY 1,1-Dischlorochene AHIA,FL,NY 1,2-Dischlorochene AHIA,FL,NY 1,2-Dischlorochene AHIA,FL,NY 1,2-Dischlorochene AHIA,FL,NY 1,2-Dischloropopene AHIA,FL,NY 1,2-Dischloropopene AHIA,FL,NY 1-Dischlorochene AHIA,FL,NY Hexachlorobutadiene AHIA,FL,NY Mebylene Chloride AHIA,FL,NY Styrene AHIA,FL,NY Toluene AHIA,FL,NY Toluene AHIA,FL,NY Toluene AHIA,FL,NY Toluene AHIA,FL,NY Toluene AHIA,FL,NY Trichlorochane	Bromomethane	AIHA,FL,NY
Chloroctinane AlHA,FL,NY Chloromethane AlHA,FL,NY 1.2-Dichrorochane (EDB) NY 1.2-Dichrorochane (EDB) NY 1.3-Dichlorochazene AlHA,FL,NY 1.3-Dichlorochazene AlHA,FL,NY 1.1-Dichlorochazene AlHA,FL,NY 1.1-Dichlorochane (Fron 12) AlHA,FL,NY 1.1-Dichlorochane AlHA,FL,NY 1.2-Dichlorochylene AlHA,FL,NY Methylene Chlorde AlHA,FL,NY Methylene Chlorde AlHA,FL,NY Tenedhorochylene AlHA,FL,NY Tenedhorochylene AlHA,FL,NY I.JTrichlorochane AlHA,FL,NY I.JTrichlorochane AlHA,FL,NY I.JTrichlorochane	Carbon Tetrachloride	AIHA,FL,NY
Chloroform AlHA,FL,NY Chloromethane (FDB) NY 1,2-Dehlorobenzene AlHA,FL,NY 1,3-Dichlorobenzene AlHA,FL,NY 1,4-Dehlorobenzene AlHA,FL,NY 1,1-Dichloroethane (Fron 12) AlHA,FL,NY 1,1-Dichloroethane AlHA,FL,NY 1,1-Dichloroethane AlHA,FL,NY 1,1-Dichloroethylene AlHA,FL,NY 1,1-Dichloroethylene AlHA,FL,NY 1,2-Dichloroethylene AlHA,FL,NY 1,2-Dichloropropane AlHA,FL,NY 1,2-Dichloropropane AlHA,FL,NY 1,2-Dichloropropane AlHA,FL,NY 1,2-Dichloropropane AlHA,FL,NY Hexachlorothydene AlHA,FL,NY Hexachlorophylene AlHA,FL,NY Hexachlorothydene AlHA,FL,NY Hyster AlHA,FL,NY 1,1,2-Tetrachlorochane AlHA,FL,NY 1,1,2-Trichlorochane AlHA,FL,NY 1,1,2-Trichlorochane AlHA,FL,NY 1,1,2-Trichlorochane (Fron 11) AlHA,FL,NY 1,1,2-Trichlorochane (Fron 11) AlHA,FL,NY 1,1,2-Tr	Chlorobenzene	AIHA,FL,NY
Chloromethane (EDB) NY 1,2-Dichlorobenzene	Chloroethane	AIHA,FL,NY
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1,2-Dichlorobenzene AIIIA,FL,NY 1,3-Dichlorodenzene AIIIA,FL,NY 1,4-Dichlorodenzene AIIIA,FL,NY 1,1-Dichlorocethane AIIIA,FL,NY 1,2-Dichlorocethane AIIIA,FL,NY 1,1-Dichlorocethylene AIIIA,FL,NY 1,1-Dichloropropane AIIIA,FL,NY cis-1,2-Dichloropropane AIIIA,FL,NY cis-1,3-Dichloropropane AIIIA,FL,NY trans-1,3-Dichloropropane NY 1,2-Dichloro-1,1,2-tetrafluorocethane (Freon 114) AIIA,FL,NY trans-1,3-Dichloropropane AIIIA,FL,NY Hexachlorobutadiene AIIIA,FL,NY Hexachlorobutadiene AIIIA,FL,NY Methylene Chloride AIIIA,FL,NY Styrene AIIIA,FL,NY 1,1,2-Tetrachlorocethane AIIIA,FL,NY Toluene AIIIA,FL,NY 1,2-4-Trichlorocethane AIIIA,FL,NY 1,1,1-Trichlorocethane AIIIA,FL,NY Trichlorochane AIIIA,FL,NY Trichlorochane (Freon 11) AIIIA,FL,NY Trichlorochane (Freon 112) AIIIA,FL,NY Trichlorochane (Freon 113)	Chloromethane	AIHA,FL,NY
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Dichlorodifluoromethane (Freon 12) AlHA,FL,NY 1,1-Dichloroethane AlHA,FL,NY 1,2-Dichloroethylene AlHA,FL,NY cis-1,2-Dichloroethylene AlHA,FL,NY cis-1,3-Dichloropropane AlHA,FL,NY trans-1,3-Dichloropropene NY 1,2-Dichloro-1,1,2-tetrafluoroethane (Freon 114) AlHA,FL,NY Ethylbenzene AlHA,FL,NY Hexachlorobutadiene AlHA,FL,NY Methylene Chloride AlHA,FL,NY Styrene AlHA,FL,NY Tetrachloroethylene AlHA,FL,NY Totuene AlHA,FL,NY 1,2,4-Trichloroethylene AlHA,FL,NY 1,1,1-Trichloroethane AlHA,FL,NY 1,1,2-Trichloroethane AlHA,FL,NY Trichloroethylene AlHA,FL,NY Trichloroethane (Freon 11) AlHA,FL,NY Trichloroethane (Freon 1	1,3-Dichlorobenzene	AIHA,FL,NY
1,1-Dichloroethane AHA,FL,NY 1,2-Dichloroethylene AHA,FL,NY cis-1,2-Dichloroethylene AHA,FL,NY 1,2-Dichloropropane AHA,FL,NY cis-1,3-Dichloropropene AHA,FL,NY trans-1,3-Dichloropropene NY 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) AHA,FL,NY Ethylbenzene AHA,FL,NY Hexachlorobutadiene AHA,FL,NY Methylene Chloride AHA,FL,NY Styrene AHA,FL,NY 1,1,2,2-Tetrachloroethylene AHA,FL,NY 1,1,2,2-Tichloroethylene AHA,FL,NY Toluene AHA,FL,NY 1,2,4-Trichloroethane AHA,FL,NY 1,1,1-Trichloroethane AHA,FL,NY Trichloroethylene AHA,FL,NY Trichloroethylene AHA,FL,NY Trichloroethone (Freon 11) AHA,FL,NY Trichloroethylene AHA,FL,NY Trichloroethylene AHA,FL,NY Trichloroethylene AHA,FL,NY Trichloroethylene AHA,FL,NY Trichloroethylene AHA,FL,NY Trichloroethyl	1,4-Dichlorobenzene	AIHA,FL,NY
1,2-Dichloroethylene AHA,FL,NY cis-1,2-Dichlorophylene AHA,FL,NY 1,2-Dichloropropane AHA,FL,NY cis-1,3-Dichloropropene AHA,FL,NY cis-1,3-Dichloropropene NY 1,2-Dichloroptopene NY 1,2-Dichloroptopene AHA,FL,NY Ethylbenzene AHA,FL,NY Hexachlorobutadiene AHA,FL,NY Methylene Chloride AHA,FL,NY Styrene AHA,FL,NY 1,1,2-Z-Tetrachloroethylene AHA,FL,NY Toluene AHA,FL,NY 1,2,4-Trichlorobenzene AHA,FL,NY 1,1,1-Trichloroethane AHA,FL,NY 1,1,2-Trichloroethane AHA,FL,NY 1,1,2-Trichloroethane AHA,FL,NY Trichlorofluoromethane (Freon 11) AHA,FL,NY 1,1,2-Trichloroethylene AHA,FL,NY Trichlorofluoromethane (Freon 11) AHA,FL,NY 1,1,2-Trimethylbenzene AHA,FL,NY Vmyl Chloride AHA,FL,NY Wmyl Chloride AHA,FL,NY	Dichlorodifluoromethane (Freon 12)	AIHA,FL,NY
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cis-1,2-Dichloropthylene AlHA,FL,NY 1,2-Dichloropropane AlHA,FL,NY cis-1,3-Dichloropropene NY 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) AlHA,FL,NY Ethylbenzene AlHA,FL,NY Hexachlorobutadiene AlHA,FL,NY Methylene Chloride AlHA,FL,NY Styrene AlHA,FL,NY 1,1,2-2-Tetrachloroethane AlHA,FL,NY Toluene AlHA,FL,NY 1,2,4-Trichloroethane AlHA,FL,NY 1,1,1-Trichloroethane AlHA,FL,NY 1,1,2-Trichloroethane AlHA,FL,NY 1,1,2-Trichloroethane AlHA,FL,NY 1,1,2-Trichloroethane (Freon 11) AlHA,FL,NY 1,1,2-Trichloroethane (Freon 11) AlHA,FL,NY 1,2,4-Trimethylbenzene AlHA,FL,NY 1,2,4-Trimethylbenzene AlHA,FL,NY Vinyl Chloride AlHA,FL,NY Winyl Chloride AlHA,FL,NY	1,2-Dichloroethane	AIHA,FL,NY
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1,3,5-Trimethylbenzene AIHA,FL,NY Vinyl Chloride AIHA,FL,NY m&p-Xylene AIHA,FL,NY	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
Vinyl Chloride AIHA,FL,NY m&p-Xylene AIHA,FL,NY		
m&p-Xylene AIHA,FL,NY	1,3,5-Trimethylbenzene	AIHA,FL,NY
	Vinyl Chloride	AIHA,FL,NY
o-Xylene AIHA,FL,NY	m&p-Xylene	AIHA,FL,NY
	o-Xylene	AIHA,FL,NY



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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

· · · · · · · · · · · · · · · · · · ·	ANALYTICAL LABORATORY	con-test

			ı		
red	BCP Analysis Certification Form Bequired		Signature of the Signature	i'	76/1
uired	MCP Analytical Certification Form Required			Received by: (signature) Date/Time: 101	Received by: (
	is your project wich or ach :	Massachusetts:	☐ 7-Day	5/29/12	1XX
O = other	Š	Detection Limit Requirements	Turnaround TT	(signature(To Cof) Date	Relinquished by:
SL = sludge	H - High; M - Medium; L - Low; C - Clean; U - Unknown	H - High; M - Mec			
A = air	be high in concentration in Matrix/Conc. Code Box:	may be high in c			
DW = drinking water	he following codes to let Con-Test know if a specific sample	Please use the following			Comments:
WW= wastewater					
GW = groundwater					
*Matrix Code:				•	
O = Other		× E ×	5/29/12 10:15		
T = Na thiosulfate		x GW X	1	Trip Blank	
X = Na hydroxide		X	\$ 11:55	MW-8	
S = Sulfuric Acid			02:11	7	
N = Nitric Acid		-	0.00		-
M = Methanol		<u> </u>	135	ナーゴレ	
H = HCL		X	16:15	ATC-1	1
**Preservation				. 8	
		ダ	- IF.	(138-2	
O =Other		×	5/29/12 16:38	WPL-6	0
T=tedlar bag		Composite Grab Code Conc Code		cilent sample iD / Description	(laboratory use only)
S=summa can		*Matrix	Beginning Ending	4	Con-Test Lab ID
V= vial		nced Data Package"	Collection		
ST=sterile		HER CENCER COS		ा ves O ves	O ves
P=plastic		7	Format:		
A=amber glass		doma pallister parcadis-usual 1 00	Email: de	By: A. Dasilya	Sampled By:
***Cont. Code:				cation: Providence 21 Springfield St.	Project Location:
O Lab to Filter		WEBSITE /		Donna Vallister	Attention:
O Field Filtered		EDV (Shook all that analy)	Client PO#	Wowide 21 07886	
Dissolved Metals	ANALYSIS REQUESTED	WK 612152, 0007	Project #	e (enter	Address:
***Container Cod		_	Telephone:	CIABJAN >	Company Name:
** Preservation			s.com	www.contestiabs.com	
of Containers		1717007 18	ntestlabs.com	LABORATORY	1
	East longmeadow, MA 01028	これらら	05	CON-ICS Fax: 413-525-6405	
Pageof		CHAIN OF CUSTODY RECORD	_	Phone: 413-525-2332	
) 		

COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. TURNAR JOUND TIME (business days) 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

* Require lab approval ☐ [†]72-Hr ☐ [†]4-Day ☐ [†]24-Hr ☐ [†]48-Hr

Other:

Connecticut:

O MA State DW Form Required PWSID#

NELAC & AIHA Certified WBE/DBE Certified

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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





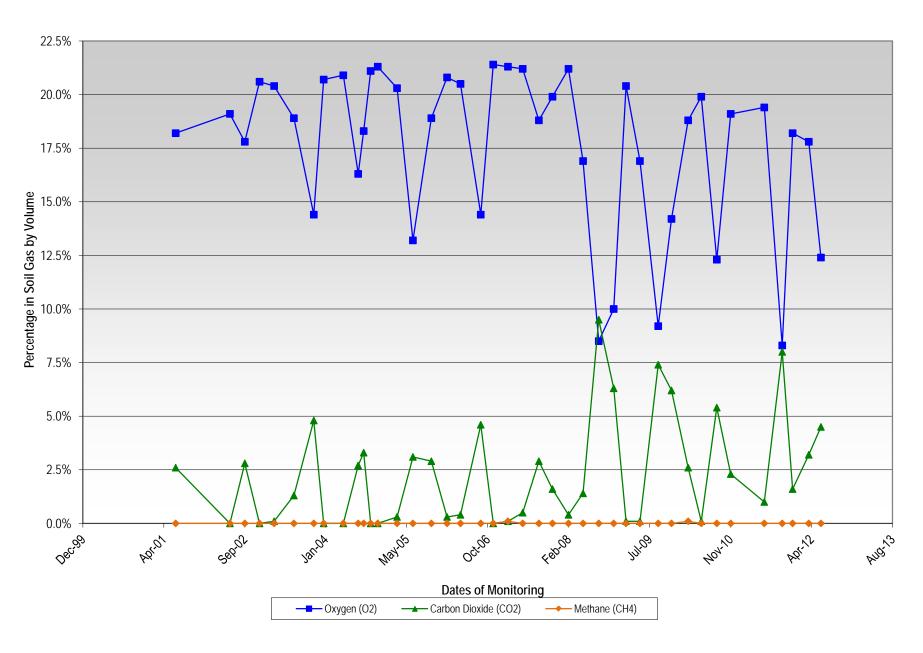
Sample Receipt Checklist

CLIENT NAME: Arcadis		RECEIVED BY:	(. (-5.	DATE: 5/30/12
 Was the chain(s) of custody relinque Does the chain agree with the samp If not, explain: 	les?	ed?	Yes No	No CoC Included
3) Are all the samples in good condition If not, explain:	n?	<	Yes No	
4) How were the samples received:				
On Ice Direct from Samplin	a 🗆	Ambient	in Cooler(s)	
Were the samples received in Tempera			Yes No	N/A
Temperature °C by Temp blank Temperature °C by Temp gun 5. 8 °C				
5) Are there Dissolved samples for the	lab to filter?		Yes No	
Who was notified		Time	100 (10	
6) Are there any RUSH or SHORT HOLI			Yes No	
Who was notified			res (NO	
	Date			
7) Location where samples are stored:	10	Permission to subcontract samples? Yes No (Walk-in clients only) if not already approved Client Signature:		
8) Do all samples have the proper Acid	nU. Voc. No.		- <u> </u>	
9) Do all samples have the proper Base				
		eived at C	on-Test	
	of containers			
1 Liter Amber	or containers	0 ==	0 70 10 00 10 00 10 00 10 00 10 10 10 10 10	# of containers
500 mL Amber		11日本語を選挙	amber/clear jar	
250 mL Amber (8oz amber)		1 m	amber/clear jar	
1 Liter Plastic		W338074	amber/clear jar ir Cassette	
500 mL Plastic		24.7437	***	
250 mL plastic			Hopcalite Tube	
40 mL Vial - type listed below			tic Bag / Ziploc	
Colisure / bacteria bottle			1 2.5 / PM 10	
Dissolved Oxygen bottle	A SECOND	PL	JF Cartridge	
Encore			SOC Kit	
Flashpoint bottle		14-3-21	O-17 Tubes	
Perchlorate Kit		Non-Co	onTest Containe	r
Other		······	her glass jar	
Laboratory Comments:	l.		Other Ted (
and a second comments.			bag	S
40 mL vials: # HCI# Methanol				Time and Date Frozen:
Doc# 277 # Bisulfate	# DI Wa			
Rev. 2 Sept 2011 # Thiosulfate				Page 15 of

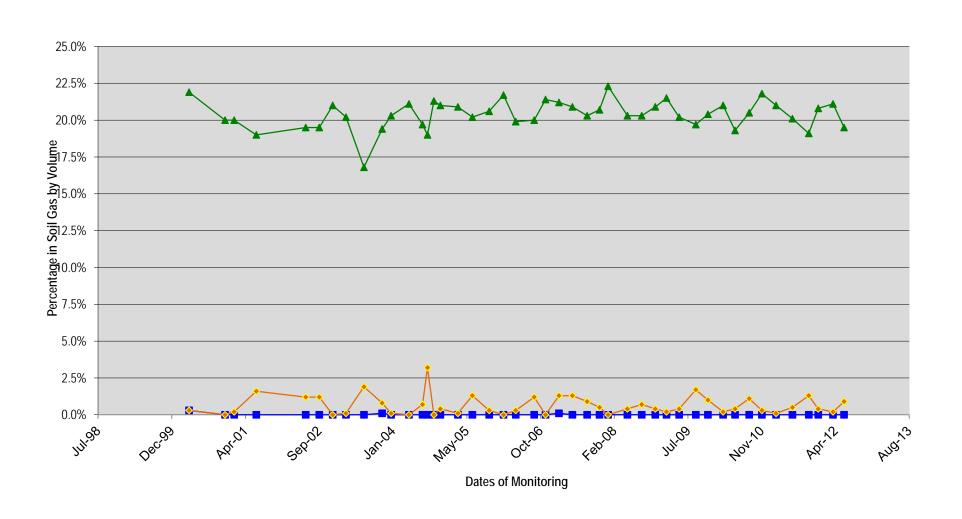
ARCADIS

Appendix C
Soil Gas Parameter Graphs

Soil Gas Well WB15 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



Soil Gas Well EPL1 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island

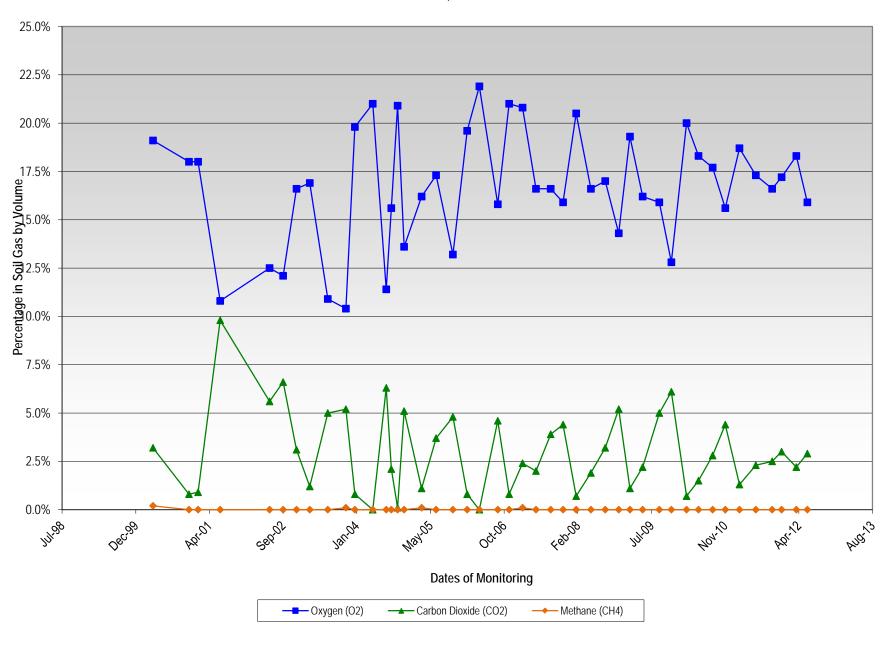


—■ Methane

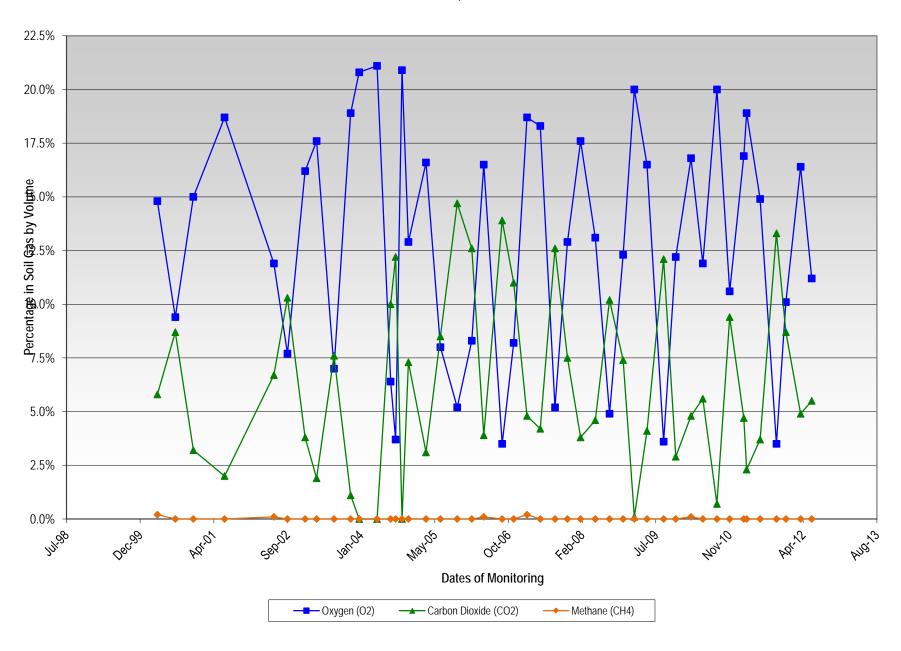
→ Oxygen

── Carbon Dioxide

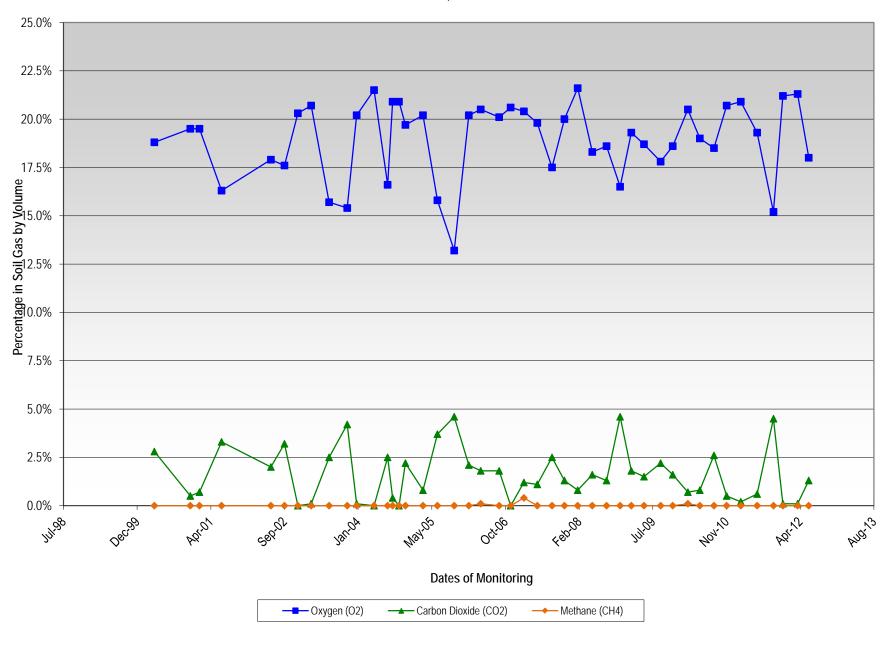
Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



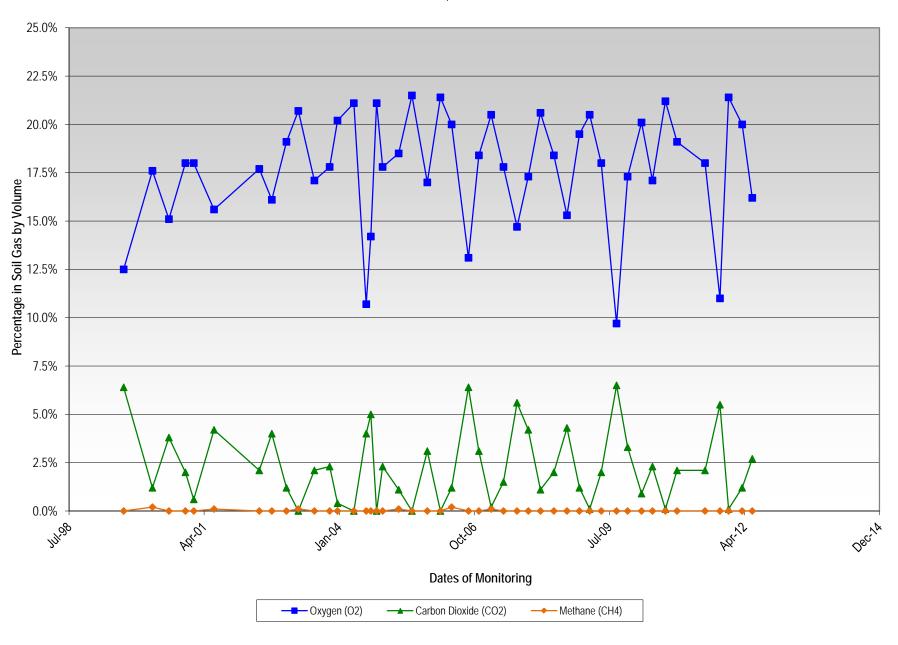
Soil Gas Well MPL5 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



Soil Gas Well MG2 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



Soil Gas Well WB1 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



Soil Gas Well MPL-7 Fluctuations in Methane, Oxygen and Carbon Dioxide

