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ENVIRONMENTAL

Mr. Jeffrey Crawford
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

Subject:
December 2012 Quarterly Monitoring Report for Springfield Street School Complex

Date:
February 14, 2013

Contact:
Donna H. Pallister, PE

Phone:
401.738.3887

Email:
Donna.pallister@arcadis-us.com

Our ref:
WK012152.0008

Dear Mr. Crawford:

ARCADIS US, Inc. (ARCADIS) conducted quarterly monitoring of soil gas, indoor air, the cap, and the sub-slab ventilation system between December 14, 2012 and January 4, 2013. 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 December 14, 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.

SUB-SLAB VENTILATION SYSTEM

Field Monitoring

The sub-slab ventilation system was inspected by ARCADIS during the quarterly monitoring on December 14, 2012. The two elementary school blowers and the two middle school blowers were operating normally upon arrival.

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, carbon monoxide, hydrogen sulfide, and organic vapors were not detected in any of the samples. Carbon dioxide was detected at concentrations of 0.1 to 0.3% at each location; all seven of the sample concentrations were equal or greater than the RAWP Action Level of 1000 ppm (0.1%).

Air samples were also collected in Tedlar bags from influent air at each blower. The Tedlar bags were submitted to Con-test Analytical Laboratory for analysis for VOC via EPA method TO-14.

Soil Gas Laboratory Results

Sub-slab soil gas samples were collected from the influent to each sub-slab ventilation system. The samples were collected in Tedlar bags and submitted to Con-Test Analytical Laboratories for analysis by method TO-14. Results of the analysis are summarized in Table 2, and the laboratory report is provided in Attachment C.

The Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) are provided in Table 2 for comparison purposes even though they are not directly 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.

INDOOR AIR MONITORING

Indoor air monitoring was conducted on December 14, 2012 using a Landtec GEM 2000 Plus 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 3. 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 December 14, 2012 was 46 ^{o}F. Carbon dioxide was measured outside in the school parking lot at 480 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 CO_2 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 December 14, 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 groundwater monitoring wells were sampled by ARCADIS on December 19, 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 4.

The only target analyte detected in any of the wells was 1,4-dichlorobenzene which was detected in a sample collected from monitoring well ATC-4 at a concentration of 2.1 µg/L. There is no GB groundwater standard for this compound. This compound has been detected during a previous sampling event in this well at a similar concentration. No other target analytes were detected in any of the groundwater samples collected on December 19, 2012.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 29 locations on December 19, 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).

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 5. Methane, carbon monoxide, hydrogen sulfide, and total VOCs were not detected in any samples.

Carbon dioxide was detected in soil gas at concentrations ranging from 0.1% to 9.4% during the December monitoring event. The carbon dioxide Remedial Action Work Plan Action Level is 0.1% and 23 readings exceeded the action level. The maximum concentration detected during the December 2012 monitoring round was 9.4%, which was lower than the maximum detected during the August 2012 round of 12.8%. 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.

ANNUAL ELUR INSPECTIONS

After the Five Year Review of the Site was completed, RIDEM issued a letter dated August 17, 2012 which requires, among other things, that annual inspections be conducted for compliance with the Environmental Land Usage Restriction (ELUR). The Annual ELUR inspections was conducted during the November 2012 monitoring round. Annual monitoring of the monitoring of vacuum produced by the subslab ventilation system, as required by the August 17, 2012 letter, will be conducted during the next monitoring round since weather conditions were not favorable during the December 2012 monitoring round.

The Site was inspected for compliance with the restrictions contained in Section A of the ELUR. The restrictions specified in the ELUR are listed below along with the current status with respect to the restriction:

- No residential use beyond current RIDEM approved use as a school – compliant, no change in use.
- No groundwater on the property to be used as potable water – compliant, no drinking water wells have been installed.
- No soil shall be disturbed in any manner without written permission of the Office of Waste Management except as permitted in the Long Tern Operation and Maintenance Plan (LTOMP) – compliant, no evidence of disturbance of soils not in compliance with the LTOMP.
- Humans engaged in activities at the Property shall not be exposed to soils containing Hazardous Materials and/or petroleum in concentrations exceeding applicable Department approved Direct Exposure Criteria set forth in the Remediation Regulations – compliant, no evidence of breaches of cap that would allow people at the site to come in contact with underlying impacted soil.
- No subsurface structures shall be constructed on the Property over groundwater containing Hazardous Materials and/or petroleum concentrations exceeding the applicable Department approved GB

Objectives – compliant, no Hazardous Materials or petroleum have been detected in groundwater at concentrations exceeding GB Objectives.

- The engineered controls described in the LTOMP must not be disturbed and shall be properly maintained to prevent humans engaged in residential activities from being exposed to soils containing Hazardous Materials and/or petroleum in concentrations exceeding the applicable Department approved residential Direct Exposure Criteria – compliant, engineered controls are in place and properly maintained.

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 sub slab 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.

The ELUR inspection did not reveal any evidence of non-compliance with the restrictions contained in the ELUR.

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

Copies:
A. Sepe, City of Providence
Providence Public Building Authority

ARCADIS

Tables

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
December 14, 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	0.3	20.6	0	0	0.0
Elementary School inlet 2	0.0	0.2	20.6	0	0	0.0
Elementary School Outlet	0.0	0.3	20.5	0	0	0.0
Middle School front shed inlet	0.0	0.1	21.1	0	0	0.0
Middle School front shed after 2nd carbon	0.0	0.1	21.0	0	0	0.0
Middle School back shed inlet	0.0	0.3	20.4	0	0	0.0
Middle School back shed after 2nd carbon	0.0	0.3	20.3	0	0	0.0
Remedial Action Work Plan Action Levels	**0.5**	**1,000 ppm (0.1%)**	**NA**	**9 ppm**	**10 ppm**	**5 ppm**

Measurements made with: Landtec GEM2000 Plus, MiniRae 2000

Sampling date: December 14, 2012

Measured by: Donna Pallister

Table 2
Soil Gas Samples Collected from System Influent
Springfield Street School Complex

Parameter	Sample Date	CT DEP Proposed Residental Volatization Criteria For Soil Vapor (ug/m3)*	OSHA PEL's (ug/m3)	Middle School Back (ug/m3)	Middle School Front (ug/m3)	Elementary School #1 (ug/m3)	Elementary School # 2 (ug/m3)
Benzene	8/23/2012	3,000	3,000	0.87	1	0.7	0.7
	1/4/2013			0.2	0.26	0.37	0.33
Carbon Tetrachloride	8/23/2012	6,000	62,900	ND	ND	0.65	ND
	1/4/2013			ND	ND	ND	ND
Chloroform	8/23/2012	22,000	240,000	ND	ND	1.7	1.7
	1/4/2013			0.26	ND	0.51	0.58
Chloromethane	8/23/2012	NA	207,000	ND	2	ND	ND
	1/4/2013			0.18	0.23	ND	ND
1,4-Dichlorobenzene	8/23/2012	5,712,000	450,000	1.9	ND	1.9	ND
	1/4/2013			ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	8/23/2012	NA	4,950,000	7	2.3	11	6.6
	1/4/2013			2.6	1.7	2.6	3.5
trans- 1,3- Dichloropopene	8/23/2012	5,000	5,000	ND	ND	ND	0.61
	1/4/2013			ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	8/23/2012	NA	7,000,000	17	0.78	20	2
	1/4/2013			2.7	1.3	1.7	0.83
Ethylbenzene	8/23/2012	7,165,000	435,000	0.49	ND	0.49	ND
	1/4/2013			1.2	1.3	1.6	1
Methylene Chloride	8/23/2012	4,168,100	86,750	19	52	18	46
	1/4/2013			5.8	6.8	10	5.9
Styrene	8/23/2012	34,000	456,000	27	6.6	28	6.7
	1/4/2013			6.8	7.4	7.2	5.3
Tetrachloroethylene	8/23/2012	75,000	678,000	1.4	ND	29	3.6
	1/4/2013			2.9	3.1	8.6	3.3
Toluene	8/23/2012	2,864,000	750,000	280	150	300	140
	1/4/2013			31	41	44	25
Trichloroethylene	8/23/2012	38,000	537,000	ND	ND	4.5	0.63
	1/4/2013			1	1.3	3.7	1.3
Trichlorofluoromethane (Freon 11)	8/23/2012	NA	5,600,000	8.5	8	17	14
	1/4/2013			1.6	1.1	1.2	0.18
M/p-Xylene	8/23/2012	2,192,000	435,000	1.2	0.9	1.1	ND
	1/4/2013			6	6.3	7.1	4.3
o-Xylene	8/23/2012	2,192,000	435,000	0.45	ND	0.45	ND
	1/4/2013			1.3	1.4	1.4	0.88

Notes:
Samples collected in Tedlar bags and analyzed via EPA method TO-14
Only detected compounds are listed, see laboratory certificate for complete list of analyses
OSHA PEL's = Occupational Safety and Health Administration Permissable Exposure Limits
ug/m3 = micrograms per cubic meter
* From Appendix F to Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies

Table 3
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
December 14, 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	598	21.1	0	0	0.0
E.S. Elevator	0.0	691	21.1	0	0	0.0
E.S. Faculty Work Room	0.0	825	21.1	0	0	0.0
E.S. Gym	0.0	647	20.9	0	0	0.0
E.S. Stairway B	0.0	726	21.0	0	0	0.0
E.S. Stairway C	0.0	630	20.9	0	0	0.0
E.S. Library	0.0	931	20.9	0	0	0.0
E.S. Room 111 Music/Art Room	0.0	582	20.9	0	0	0.0
E.S. Cafeteria	0.0	544	20.8	0	0	0.0
E.S. Room 107	0.0	617	20.9	0	0	0.0

Table 3
Indoor Air Monitoring Notes
Springfield Street School Complex
December 14, 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	0.0	821	20.7	0	0	0.0
M.S. Elevator	0.0	910	20.7	0	0	0.0
M.S. Stairway near Elem. School GS-01	0.0	847	20.8	0	0	0.0
M.S. Near sensor #16 in hall outside cafeteria	0.0	767	20.8	0	0	0.0
M.S. Faculty Work Room	0.0	707	20.8	0	0	0.0
M.S. Sensor #15 Outside Gym	0.0	735	20.7	0	0	0.0
M.S. GS-03 Across from Boys Bathroom	0.0	592	20.8	0	0	0.0
M.S. Second Floor - Library	0.0	940	20.7	0	0	0.0
M.S. Cafeteria	0.0	809	20.7	0	0	0.0

Table 3
Indoor Air Monitoring Notes
Springfield Street School Complex
December 14, 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	0.0	848	20.8	0	0	0.0
M.S. Hallway across from elevator near sensor #9	0.0	751	20.7	0	0	0.0
M.S. Near sensor GS 06 hallway right end	0.0	925	20.8	0	0	0.0
M.S. stairway near Hartford Ave. sensor GS-7	0.0	966	20.7	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: MiniRae photoionization detector, Fluke 975 Airmeter

PPM = Parts per million

Outdoor conditions: carbon dioxide = 480 ppm,
temperature = 46 ºF.

Table 4
Groundwater Monitoring Results
Springfield Street School
Providence, Rhode Island

Well	Detected Compounds	Sampling Dates and Results in µg/L															
		2/28/2001	7/20/2001	*9- 12/2001	8/1/2002	8/28/2002	12/19/2002	3/18/2003	7/17/2003	11/5/2003	1/22/2004	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 4/2011																	
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																	
	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	NS	ND	ND	0.6	ND	ND	ND	ND
MW-8																	
Installed 4/2011																	
Sampled 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 4
Groundwater Monitoring Results
Springfield Street School
Providence, Rhode Island

Well	Detected Compounds	Sampling Dates and Results in ug/L																	
		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	ND
	n-butylbenzene	ND	ND	1.4	ND	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	ND
	tert-Butylbenzene	ND	ND	ND	1.2	ND	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	ND
	Isopropylbenzene	ND	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	ND
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	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	ND
	Toluene	ND	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	ND
	1,3,5-Trimethylbenzene	ND	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	ND
	1,1,2-Trichloroethane	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ATC-2																			
	Chloroform	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6																			
	Chloroform																		
Installed 4/2011																			
ATC-3																			
	Toluene	3.0	ND	4.5	13.1	ND	2.3	1.3	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7																			
Installed 4/2011																			
ATC-4																			
	Benzene	ND	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	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	ND
	MTBE	ND	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	ND
	tert-Amyl Methyl Ether (TAME)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethylene													ND	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	ND
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-8																			
Installed 4/2011																			
Sampled By:		LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	ARCADIS	

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

Table 4
Groundwater Monitoring Results
Springfield Street School
Providence, Rhode Island

Well	Detected Compounds	Sampling Dates and Results in ug/L											RIDEM GB Groundwater Objective
		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	8/21/2012	12/19/2012	
ATC-1													
	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
	n-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
	Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	540
	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
	1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
ATC-2													
	Chloroform	NS	NS	NS	NS	Closed	Closed	Closed	Closed	Closed	Closed	Closed	NA
						4/2011	4/2011	4/2011	4/2011	4/2011	4/2011	4/2012	
MW-6						ND							
	Chloroform					ND	2.0	ND	ND	ND	2.2	ND	NA
Installed 4/2011													
ATC-3													
	Toluene	NS	NS	NS	NS	Closed 4/2011	Closed 4/2011	Closed 4/2011	Closed 4/2011	Closed 4/2011	Closed 4/2011	Closed 4/2012	1700
MW-7						ND	ND	ND	ND	ND	ND	ND	NA
Installed 4/2011													
ATC-4													
	Benzene	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	140
	Chlorobenzene	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	70
	1,4-dichlorobenzene	ND	ND	1.5	NS	NS	ND	ND	ND	1.9	ND	2.1	NA
	MTBE	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	5000
	1,2,4-Trimethylbenzene	ND	ND	ND	NS	NS	ND	ND	ND	ND	ND	ND	NA
	tert-Amyl Methyl Ether (TAME)	ND	0.5	ND	NS	NS	ND	ND	ND	ND	ND	ND	NA
	Trichloroethylene	ND	ND	ND	NS	NS	1.1	1.3	ND	ND	ND	ND	540
ATC-5													
	MTBE	ND	NS	NS	NS	Closed	Closed	Closed	Closed	Closed	Closed	Closed	5000
	Chloroform	ND	NS	NS	NS	4/2011	4/2011	4/2011	4/2011	4/2011	4/2011	4/2012	NA
MW-8						ND	ND	ND	ND	ND	ND	ND	NA
Installed 4/2011													
Sampled By:		ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	ARCADIS	

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

Table 5
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
December 19, 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	1.7	18.4	0.0	0.0	0.0
WB-2	0.0	0.3	20.6	0.0	0.0	0.0
WB-3	0.0	0.2	20.6	0.0	0.0	0.0
WB-4	0.0	0.1	21.0	0.0	0.0	0.0
WB-5	0.0	0.0	20.4	0.0	0.0	0.0
WB-6	0.0	0.3	20.6	0.0	0.0	0.0
WB-7 R	0.0	0.1	20.6	0.0	0.0	0.0
WB-8	0.0	0.0	20.8	0.0	0.0	0.0
WB-12	0.0	0.7	20.4	0.0	0.0	0.0
WB-13	0.0	0.7	20.1	0.0	0.0	0.0
WB-14	0.0	2.5	18.0	0.0	0.0	0.0
WB-15	0.0	0.2	20.6	0.0	0.0	0.0
EPL-1	0.0	0.2	20.4	0.0	0.0	0.0
EPL-2	0.0	0.7	19.8	0.0	0.0	0.0
EPL-3	0.0	1.7	18.3	0.0	0.0	0.0
EPL-4	0.0	4.7	14.7	0.0	0.0	0.0
EPL-5	0.0	2.7	16.8	0.0	0.0	0.0
ENE-1	0.0	0.1	20.8	0.0	0.0	0.0

Table 5
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
December 19, 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	5.4	14.7	0.0	0.0	0.0
MG2	0.0	0.6	20.2	0.0	0.0	0.0
MG3	0.0	0.2	20.6	0.0	0.0	0.0
MG4	0.0	0.5	20.2	0.0	0.0	0.0
MG5	0.0	0.1	20.9	0.0	0.0	0.0
MPL2	0.0	3.4	16.9	0.0	0.0	0.0
MPL3	0.0	7.7	11.8	0.0	0.0	0.0
MPL5	0.0	2.5	18.1	0.0	0.0	0.0
MPL6	0.0	9.4	5.7	0.0	0.0	0.0
MPL7	0.0	8.9	10.0	0.0	0.0	0.0
MPL8	0.0	4.9	15.6	0.0	0.0	0.0
Remedial Action Work Plan Action Levels	**0.5%**	**0.1% (1,000 PPM)**	**NA**	**9 PPM**	**10 PPM**	**5 PPM**

Sampled by: Andrew DaSilva

Weather Conditions: 43 F, Sunny

Sampling Equipment: Landtec GEM 2000 Plus, MiniRae 2000 PID

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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' 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

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

December 28, 2012

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

Project Location: Springfield St., School, Providence
Client Job Number:
Project Number: WK012152.0008
Laboratory Work Order Number: 12L0663

Enclosed are results of analyses for samples received by the laboratory on December 20, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

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

REPORT DATE: 12/28/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: WK012152.0008

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12L0663

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

PROJECT LOCATION: Springfield St., School, Providence

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-7	12L0663-01	Water		SW-846 8260C	
MW-6	12L0663-02	Water		SW-846 8260C	
ATC-4	12L0663-03	Water		SW-846 8260C	
ATC-1	12L0663-04	Water		SW-846 8260C	
MW-8	12L0663-05	Water		SW-846 8260C	

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

CASE NARRATIVE SUMMARY

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

SW-846 8260C

Qualifications:

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

Analyte & Samples(s) Qualified:

trans-1,3-Dichloropropene

12L0663-01[MW-7], 12L0663-02[MW-6], 12L0663-03[ATC-4], 12L0663-04[ATC-1], 12L0663-05[MW-8], B065154-BLK1, B065154-BS1, B065154-BSD1

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

Analyte & Samples(s) Qualified:

Carbon Disulfide

12L0663-01[MW-7], 12L0663-02[MW-6], 12L0663-03[ATC-4], 12L0663-04[ATC-1], 12L0663-05[MW-8], B065154-BLK1, B065154-BS1, B065154-BSD1

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:

1,4-Dioxane, Acetone, Chlorodibromomethane, cis-1,3-Dichloropropene, Dichlorodifluoromethane (Freon 12), tert-Butyl Alcohol (TBA), trans-1,3-Dichloropropene

12L0663-01[MW-7], 12L0663-02[MW-6], 12L0663-03[ATC-4], 12L0663-04[ATC-1], 12L0663-05[MW-8], B065154-BLK1, B065154-BS1, B065154-BSD1

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

Analyte & Samples(s) Qualified:

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

12L0663-01[MW-7], 12L0663-02[MW-6], 12L0663-03[ATC-4], 12L0663-04[ATC-1], 12L0663-05[MW-8], B065154-BLK1, B065154-BS1, B065154-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.

Michael A. Erickson
Laboratory Director

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: MW-7 Sampled: 12/19/2012 09:35

Sample ID: 12L0663-01

Sample Matrix: 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	V-05	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Carbon Disulfide	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Chlorodibromomethane	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	L-04, V-05	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF

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

Project Location: Springfield St., School, Providen | Sample Description: | Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: MW-7 | Sampled: 12/19/2012 09:35

Sample ID: 12L0663-01

Sample Matrix: 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	12/21/12	12/25/12 4:59	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 4:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	102	70-130		12/25/12 4:59
Toluene-d8	98.0	70-130		12/25/12 4:59
4-Bromofluorobenzene	98.8	70-130		12/25/12 4:59

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: MW-6 Sampled: 12/19/2012 10:20

Sample ID: 12L0663-02

Sample Matrix: 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	V-05	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Carbon Disulfide	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Chlorodibromomethane	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	L-04, V-05	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: MW-6 Sampled: 12/19/2012 10:20

Sample ID: 12L0663-02

Sample Matrix: 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	12/21/12	12/25/12 5:30	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 5:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	101	70-130		12/25/12 5:30
Toluene-d8	98.7	70-130		12/25/12 5:30
4-Bromofluorobenzene	98.6	70-130		12/25/12 5:30

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: ATC-4 Sampled: 12/19/2012 11:15

Sample ID: 12L0663-03

Sample Matrix: 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	V-05	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Carbon Disulfide	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Chlorodibromomethane	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,4-Dichlorobenzene	2.1	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	L-04, V-05	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: ATC-4 Sampled: 12/19/2012 11:15

Sample ID: 12L0663-03

Sample Matrix: 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	12/21/12	12/25/12 6:00	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	102	70-130		12/25/12 6:00
Toluene-d8	99.3	70-130		12/25/12 6:00
4-Bromofluorobenzene	98.9	70-130		12/25/12 6:00

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: ATC-1 Sampled: 12/19/2012 14:30

Sample ID: 12L0663-04

Sample Matrix: 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	V-05	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Carbon Disulfide	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Chlorodibromomethane	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	L-04, V-05	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF

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

Project Location: Springfield St., School, Providen | Sample Description: | Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: ATC-1 | Sampled: 12/19/2012 14:30

Sample ID: 12L0663-04

Sample Matrix: 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	12/21/12	12/25/12 6:31	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 6:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	103	70-130		12/25/12 6:31
Toluene-d8	98.4	70-130		12/25/12 6:31
4-Bromofluorobenzene	98.4	70-130		12/25/12 6:31

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: MW-8 Sampled: 12/19/2012 12:45

Sample ID: 12L0663-05

Sample Matrix: 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	V-05	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Carbon Disulfide	ND	2.0	µg/L	1	R-05	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Chlorodibromomethane	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	V-05	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1	L-04, V-05	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF

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

Project Location: Springfield St., School, Providen Sample Description: Work Order: 12L0663

Date Received: 12/20/2012

Field Sample #: MW-8 Sampled: 12/19/2012 12:45

Sample ID: 12L0663-05

Sample Matrix: 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	12/21/12	12/25/12 7:02	MFF
1,4-Dioxane	ND	50	µg/L	1	V-05, V-16	SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/21/12	12/25/12 7:02	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	102	70-130		12/25/12 7:02
Toluene-d8	98.7	70-130		12/25/12 7:02
4-Bromofluorobenzene	98.4	70-130		12/25/12 7:02

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12L0663-01 [MW-7]	B065154	5	5.00	12/21/12
12L0663-02 [MW-6]	B065154	5	5.00	12/21/12
12L0663-03 [ATC-4]	B065154	5	5.00	12/21/12
12L0663-04 [ATC-1]	B065154	5	5.00	12/21/12
12L0663-05 [MW-8]	B065154	5	5.00	12/21/12

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B065154 - SW-846 5030B										
Blank (B065154-BLK1)				Prepared: 12/21/12 Analyzed: 12/25/12						
Acetone	ND	50	µg/L							V-05
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-05, V-16
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	2.0	µg/L							R-05
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							V-05
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							V-05
trans-1,3-Dichloropropene	ND	0.50	µg/L							L-04, V-05
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-05, V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B065154 - SW-846 5030B											
Blank (B065154-BLK1)				Prepared: 12/21/12 Analyzed: 12/25/12							
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.3	70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		99.0	70-130				
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		98.0	70-130				
LCS (B065154-BS1)				Prepared: 12/21/12 Analyzed: 12/25/12							
Acetone	94.0	50	µg/L	100		94.0	70-160			V-05	†
Acrylonitrile	9.93	5.0	µg/L	10.0		99.3	70-130				
tert-Amyl Methyl Ether (TAME)	9.01	0.50	µg/L	10.0		90.1	70-130				
Benzene	10.9	1.0	µg/L	10.0		109	70-130				
Bromobenzene	11.1	1.0	µg/L	10.0		111	70-130				
Bromochloromethane	11.3	1.0	µg/L	10.0		113	70-130				
Bromodichloromethane	9.60	1.0	µg/L	10.0		96.0	70-130				
Bromoform	8.15	1.0	µg/L	10.0		81.5	70-130				
Bromomethane	5.56	2.0	µg/L	10.0		55.6	40-160				†
2-Butanone (MEK)	92.3	20	µg/L	100		92.3	40-160				†
tert-Butyl Alcohol (TBA)	72.2	20	µg/L	100		72.2	40-160			V-05, V-16	†
n-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130				
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130				
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.92	0.50	µg/L	10.0		99.2	70-130				
Carbon Disulfide	9.24	2.0	µg/L	10.0		92.4	70-130			R-05	
Carbon Tetrachloride	8.97	5.0	µg/L	10.0		89.7	70-130				
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130				
Chlorodibromomethane	7.58	0.50	µg/L	10.0		75.8	70-130			V-05	
Chloroethane	10.9	2.0	µg/L	10.0		109	70-130				
Chloroform	10.4	2.0	µg/L	10.0		104	70-130				
Chloromethane	8.03	2.0	µg/L	10.0		80.3	40-160				†
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B065154 - SW-846 5030B												
LCS (B065154-BS1)				Prepared: 12/21/12 Analyzed: 12/25/12								
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.25	5.0	µg/L	10.0		82.5		70-130				
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130				
Dibromomethane	10.7	1.0	µg/L	10.0		107		70-130				
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.0		107		70-130				
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110		70-130				
trans-1,4-Dichloro-2-butene	8.77	2.0	µg/L	10.0		87.7		70-130				
Dichlorodifluoromethane (Freon 12)	4.86	2.0	µg/L	10.0		48.6		40-160			V-05	†
1,1-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130				
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104		70-130				
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107		70-130				
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,2-Dichloroethylene	9.70	1.0	µg/L	10.0		97.0		70-130				
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109		70-130				
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107		70-130				
2,2-Dichloropropane	6.06	1.0	µg/L	10.0		60.6		40-130				†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107		70-130				
cis-1,3-Dichloropropene	7.22	0.50	µg/L	10.0		72.2		70-130			V-05	
trans-1,3-Dichloropropene	6.99	0.50	µg/L	10.0		**69.9**	*	70-130			L-04, V-05	
Diethyl Ether	11.0	2.0	µg/L	10.0		110		70-130				
Diisopropyl Ether (DIPE)	12.6	0.50	µg/L	10.0		126		70-130				
1,4-Dioxane	83.3	50	µg/L	100		83.3		40-130			V-05, V-16	†
Ethylbenzene	11.2	1.0	µg/L	10.0		112		70-130				
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108		70-130				
2-Hexanone (MBK)	96.6	10	µg/L	100		96.6		70-160				†
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0		109		70-130				
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0		115		70-130				
Methyl tert-Butyl Ether (MTBE)	9.96	1.0	µg/L	10.0		99.6		70-130				
Methylene Chloride	9.16	5.0	µg/L	10.0		91.6		70-130				
4-Methyl-2-pentanone (MIBK)	100	10	µg/L	100		100		70-160				†
Naphthalene	8.33	2.0	µg/L	10.0		83.3		40-130				†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130				
Styrene	10.8	1.0	µg/L	10.0		108		70-130				
1,1,1,2-Tetrachloroethane	9.58	2.0	µg/L	10.0		95.8		70-130				
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104		70-130				
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106		70-130				
Tetrahydrofuran	10.2	10	µg/L	10.0		102		70-130				
Toluene	10.8	1.0	µg/L	10.0		108		70-130				
1,2,3-Trichlorobenzene	8.52	5.0	µg/L	10.0		85.2		70-130				
1,2,4-Trichlorobenzene	8.87	5.0	µg/L	10.0		88.7		70-130				
1,3,5-Trichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130				
1,1,1-Trichloroethane	9.50	1.0	µg/L	10.0		95.0		70-130				
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109		70-130				
Trichloroethylene	10.4	1.0	µg/L	10.0		104		70-130				
Trichlorofluoromethane (Freon 11)	10.0	2.0	µg/L	10.0		100		70-130				
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.0		102		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.0		114		70-130				
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110		70-130				
Vinyl Chloride	8.12	2.0	µg/L	10.0		81.2		40-160				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B065154 - SW-846 5030B											
LCS (B065154-BS1)				Prepared: 12/21/12 Analyzed: 12/25/12							
m+p Xylene	22.6	2.0	µg/L	20.0		113	70-130				
o-Xylene	11.1	1.0	µg/L	10.0		111	70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.0		96.4	70-130				
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130				
LCS Dup (B065154-BSD1)				Prepared: 12/21/12 Analyzed: 12/25/12							
Acetone	75.2	50	µg/L	100		75.2	70-160	22.3	25	V-05	†
Acrylonitrile	10.7	5.0	µg/L	10.0		107	70-130	7.28	25		
tert-Amyl Methyl Ether (TAME)	9.00	0.50	µg/L	10.0		90.0	70-130	0.111	25		
Benzene	10.7	1.0	µg/L	10.0		107	70-130	2.50	25		
Bromobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.92	25		
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130	0.530	25		
Bromodichloromethane	9.39	1.0	µg/L	10.0		93.9	70-130	2.21	25		
Bromoform	8.13	1.0	µg/L	10.0		81.3	70-130	0.246	25		
Bromomethane	6.10	2.0	µg/L	10.0		61.0	40-160	9.26	25		†
2-Butanone (MEK)	89.8	20	µg/L	100		89.8	40-160	2.81	25		†
tert-Butyl Alcohol (TBA)	57.4	20	µg/L	100		57.4	40-160	22.8	25	V-05, V-16	†
n-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	3.60	25		
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	5.04	25		
tert-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	3.37	25		
tert-Butyl Ethyl Ether (TBEE)	9.94	0.50	µg/L	10.0		99.4	70-130	0.201	25		
Carbon Disulfide	7.02	2.0	µg/L	10.0		70.2	70-130	**27.3** *	25	R-05	
Carbon Tetrachloride	8.65	5.0	µg/L	10.0		86.5	70-130	3.63	25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.48	25		
Chlorodibromomethane	7.60	0.50	µg/L	10.0		76.0	70-130	0.264	25	V-05	
Chloroethane	9.12	2.0	µg/L	10.0		91.2	70-130	17.6	25		
Chloroform	10.2	2.0	µg/L	10.0		102	70-130	1.94	25		
Chloromethane	7.73	2.0	µg/L	10.0		77.3	40-160	3.81	25		†
2-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	3.56	25		
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130	2.48	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.23	5.0	µg/L	10.0		82.3	70-130	0.243	25		
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.0		102	70-130	1.55	25		
Dibromomethane	10.6	1.0	µg/L	10.0		106	70-130	0.563	25		
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.95	25		
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.66	25		
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	2.31	25		
trans-1,4-Dichloro-2-butene	8.76	2.0	µg/L	10.0		87.6	70-130	0.114	25		
Dichlorodifluoromethane (Freon 12)	4.69	2.0	µg/L	10.0		46.9	40-160	3.56	25	V-05	†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	3.42	25		
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.65	25		
1,1-Dichloroethylene	8.76	1.0	µg/L	10.0		87.6	70-130	19.6	25		
cis-1,2-Dichloroethylene	9.77	1.0	µg/L	10.0		97.7	70-130	3.72	25		
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	7.25	25		
1,2-Dichloropropane	10.7	1.0	µg/L	10.0		107	70-130	2.04	25		
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	1.60	25		
2,2-Dichloropropane	5.88	1.0	µg/L	10.0		58.8	40-130	3.02	25		†
1,1-Dichloropropene	10.0	2.0	µg/L	10.0		100	70-130	6.08	25		
cis-1,3-Dichloropropene	7.06	0.50	µg/L	10.0		70.6	70-130	2.24	25	V-05	
trans-1,3-Dichloropropene	6.85	0.50	µg/L	10.0		**68.5** *	70-130	2.02	25	L-04, V-05	
Diethyl Ether	8.96	2.0	µg/L	10.0		89.6	70-130	20.1	25		
Diisopropyl Ether (DIPE)	12.2	0.50	µg/L	10.0		122	70-130	2.58	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B065154 - SW-846 5030B											
LCS Dup (B065154-BSD1)				Prepared: 12/21/12 Analyzed: 12/25/12							
1,4-Dioxane	81.9	50	µg/L	100		81.9	40-130	1.74	50	V-05, V-16	† ‡
Ethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	2.90	25		
Hexachlorobutadiene	10.8	0.50	µg/L	10.0		108	70-130	0.647	25		
2-Hexanone (MBK)	94.1	10	µg/L	100		94.1	70-160	2.64	25		†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105	70-130	4.39	25		
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111	70-130	3.37	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130	1.89	25		
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130	11.7	25		
4-Methyl-2-pentanone (MIBK)	98.0	10	µg/L	100		98.0	70-160	2.26	25		†
Naphthalene	8.48	2.0	µg/L	10.0		84.8	40-130	1.78	25		†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.49	25		
Styrene	10.5	1.0	µg/L	10.0		105	70-130	2.73	25		
1,1,1,2-Tetrachloroethane	9.17	2.0	µg/L	10.0		91.7	70-130	4.37	25		
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130	0.962	25		
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130	5.52	25		
Tetrahydrofuran	9.83	10	µg/L	10.0		98.3	70-130	4.09	25		
Toluene	10.4	1.0	µg/L	10.0		104	70-130	3.78	25		
1,2,3-Trichlorobenzene	8.60	5.0	µg/L	10.0		86.0	70-130	0.935	25		
1,2,4-Trichlorobenzene	8.79	1.0	µg/L	10.0		87.9	70-130	0.906	25		
1,3,5-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.21	25		
1,1,1-Trichloroethane	9.21	1.0	µg/L	10.0		92.1	70-130	3.10	25		
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	3.54	25		
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	2.92	25		
Trichlorofluoromethane (Freon 11)	9.01	2.0	µg/L	10.0		90.1	70-130	10.5	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103	70-130	0.877	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.41	1.0	µg/L	10.0		94.1	70-130	19.2	25		
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	3.88	25		
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	3.22	25		
Vinyl Chloride	7.23	2.0	µg/L	10.0		72.3	40-160	11.6	25		†
m+p Xylene	21.7	2.0	µg/L	20.0		108	70-130	4.02	25		
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	4.63	25		
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.7	70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

12L0663

Company Name: ARCADIS
Address: 300 Metro Center Blvd.
Warwick, RI 02886
Attention: Donna Pallister
Project Location: Springfield St School, Providence
Sampled By: Andrew DaSilva

Telephone: (401) 738-3887
Project # WK012152.0008
Client PO # —

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☑ WEBSITE CLIENT
Fax # :
Email: donna.pallister@arcadis-us.com
Format: ☑ EXCEL ☑ PDF ☐ GIS KEY
☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

State Form Required?
☒ yes ☐ no

ANALYSIS REQUESTED

Field ID	Sample Description	Lab #	Date Sampled Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	15 H V VOC 8260	# of containers	**Preservative	~Cont. Code
	MW-7	01	12/19	0935		X			X			
	MW-6	02	12/19	1020		X			X			
	ATC-4	03	12/19	1115		X			X			
	ATC-1	04	12/19	1430		X			X			
	MW-8	05	12/19	1245		X			X			

~Cont. Code: A=amber, G=glass, P=plastic, ST=sterile, V= vial, S=summa, T=tedlar b, O=Other

Client Comments:

Laboratory Comments: 3.1 IR

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

Relinquished by: (signature) (to ref)	Date/Time: 15:50 12/19/12	
Received by: (signature) Ref.	Date/Time: 15:15 12-20-12	
Relinquished by: (signature)	Date/Time: 1810 12-20-12	
Received by: (signature)	Date/Time: 12:20 PM 1810	

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other STP
RUSH *5 Day
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? Rhode Island Regs
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's:

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

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

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

AIHA, NELAC & WBE/DBE Certified

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Sample Receipt Checklist

CLIENT NAME: ARCADIS RECEIVED BY: UC DATE: 12/20

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

2) **Does the chain agree with the samples?** (Yes) No
If not, explain:

3) **Are all the samples in good condition?** (Yes) No
If not, explain:

4) **How were the samples received:**
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.1

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
Who was notified _____ Date _____ Time _____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
Who was notified _____ Date _____ Time _____

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

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

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	15	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: 6 amber MW-7/MW-8
9 clear

40 mL vials: # HCl 15 # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

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January 11, 2013

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

Project Location: Springfield St.
Client Job Number:
Project Number: WK012152.0008
Laboratory Work Order Number: 13A0112

Enclosed are results of analyses for samples received by the laboratory on January 4, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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

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

REPORT DATE: 1/11/2013

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.0008

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13A0112

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

PROJECT LOCATION: Springfield St.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Middle School Back	13A0112-01	Sub Slab		EPA TO-14A	
Elementary School # 1	13A0112-02	Sub Slab		EPA TO-14A	
Elementary School # 2	13A0112-03	Sub Slab		EPA TO-14A	
Middle School Front	13A0112-04	Sub Slab		EPA TO-14A	

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CASE NARRATIVE SUMMARY

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

EPA TO-14A

Qualifications:

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

Analyte & Samples(s) Qualified:

13A0112-01[Middle School Back], 13A0112-02[Elementary School # 1], 13A0112-03[Elementary School # 2], 13A0112-04[Middle School Front]

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:

trans-1,3-Dichloropropene

B066051-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:

Hexachlorobutadiene, trans-1,3-Dichloropropene

B066051-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

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ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Middle School Back
Sample ID: 13A0112-01
Sample Matrix: Sub Slab
Sampled: 1/4/2013 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Benzene	0.064	0.050		0.20	0.16	1	1/6/13 4:04	WSD
Bromomethane	ND	0.050		ND	0.19	1	1/6/13 4:04	WSD
Carbon Tetrachloride	ND	0.050		ND	0.31	1	1/6/13 4:04	WSD
Chlorobenzene	ND	0.050		ND	0.23	1	1/6/13 4:04	WSD
Chloroethane	ND	0.050		ND	0.13	1	1/6/13 4:04	WSD
Chloroform	0.053	0.050		0.26	0.24	1	1/6/13 4:04	WSD
Chloromethane	0.085	0.050		0.18	0.10	1	1/6/13 4:04	WSD
1,2-Dibromoethane (EDB)	ND	0.050		ND	0.38	1	1/6/13 4:04	WSD
1,2-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 4:04	WSD
1,3-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 4:04	WSD
1,4-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 4:04	WSD
Dichlorodifluoromethane (Freon 12)	0.52	0.050		2.6	0.25	1	1/6/13 4:04	WSD
1,1-Dichloroethane	ND	0.050		ND	0.20	1	1/6/13 4:04	WSD
1,2-Dichloroethane	0.058	0.050		0.23	0.20	1	1/6/13 4:04	WSD
1,1-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 4:04	WSD
cis-1,2-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 4:04	WSD
1,2-Dichloropropane	ND	0.050		ND	0.23	1	1/6/13 4:04	WSD
cis-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 4:04	WSD
trans-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 4:04	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.38	0.050		2.7	0.35	1	1/6/13 4:04	WSD
Ethylbenzene	0.28	0.050		1.2	0.22	1	1/6/13 4:04	WSD
Hexachlorobutadiene	ND	0.050		ND	0.53	1	1/6/13 4:04	WSD
Methylene Chloride	1.7	0.50		5.8	1.7	1	1/6/13 4:04	WSD
Styrene	1.6	0.050		6.8	0.21	1	1/6/13 4:04	WSD
1,1,2,2-Tetrachloroethane	ND	0.050		ND	0.34	1	1/6/13 4:04	WSD
Tetrachloroethylene	0.42	0.050		2.9	0.34	1	1/6/13 4:04	WSD
Toluene	8.3	0.050		31	0.19	1	1/6/13 4:04	WSD
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	1	1/6/13 4:04	WSD
1,1,1-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 4:04	WSD
1,1,2-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 4:04	WSD
Trichloroethylene	0.19	0.050		1.0	0.27	1	1/6/13 4:04	WSD
Trichlorofluoromethane (Freon 11)	0.28	0.050		1.6	0.28	1	1/6/13 4:04	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050		ND	0.38	1	1/6/13 4:04	WSD
1,2,4-Trimethylbenzene	0.073	0.050		0.36	0.25	1	1/6/13 4:04	WSD
1,3,5-Trimethylbenzene	ND	0.050		ND	0.25	1	1/6/13 4:04	WSD
Vinyl Chloride	ND	0.050		ND	0.13	1	1/6/13 4:04	WSD
m&p-Xylene	1.4	0.10		6.0	0.43	1	1/6/13 4:04	WSD

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ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Middle School Back
Sample ID: 13A0112-01
Sample Matrix: Sub Slab
Sampled: 1/4/2013 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
o-Xylene	0.30	0.050		1.3	0.22	1	1/6/13 4:04	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	1/6/13 4:04

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

ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Elementary School # 1
Sample ID: 13A0112-02
Sample Matrix: Sub Slab
Sampled: 1/4/2013 09:55

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Benzene	0.12	0.050		0.37	0.16	1	1/6/13 4:47	WSD
Bromomethane	0.088	0.050		0.34	0.19	1	1/6/13 4:47	WSD
Carbon Tetrachloride	ND	0.050		ND	0.31	1	1/6/13 4:47	WSD
Chlorobenzene	ND	0.050		ND	0.23	1	1/6/13 4:47	WSD
Chloroethane	ND	0.050		ND	0.13	1	1/6/13 4:47	WSD
Chloroform	0.10	0.050		0.51	0.24	1	1/6/13 4:47	WSD
Chloromethane	ND	0.050		ND	0.10	1	1/6/13 4:47	WSD
1,2-Dibromoethane (EDB)	ND	0.050		ND	0.38	1	1/6/13 4:47	WSD
1,2-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 4:47	WSD
1,3-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 4:47	WSD
1,4-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 4:47	WSD
Dichlorodifluoromethane (Freon 12)	0.53	0.050		2.6	0.25	1	1/6/13 4:47	WSD
1,1-Dichloroethane	ND	0.050		ND	0.20	1	1/6/13 4:47	WSD
1,2-Dichloroethane	0.10	0.050		0.41	0.20	1	1/6/13 4:47	WSD
1,1-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 4:47	WSD
cis-1,2-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 4:47	WSD
1,2-Dichloropropane	ND	0.050		ND	0.23	1	1/6/13 4:47	WSD
cis-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 4:47	WSD
trans-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 4:47	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.25	0.050		1.7	0.35	1	1/6/13 4:47	WSD
Ethylbenzene	0.38	0.050		1.6	0.22	1	1/6/13 4:47	WSD
Hexachlorobutadiene	ND	0.050		ND	0.53	1	1/6/13 4:47	WSD
Methylene Chloride	3.0	0.50		10	1.7	1	1/6/13 4:47	WSD
Styrene	1.7	0.050		7.2	0.21	1	1/6/13 4:47	WSD
1,1,2,2-Tetrachloroethane	ND	0.050		ND	0.34	1	1/6/13 4:47	WSD
Tetrachloroethylene	1.3	0.050		8.6	0.34	1	1/6/13 4:47	WSD
Toluene	12	0.050		44	0.19	1	1/6/13 4:47	WSD
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	1	1/6/13 4:47	WSD
1,1,1-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 4:47	WSD
1,1,2-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 4:47	WSD
Trichloroethylene	0.69	0.050		3.7	0.27	1	1/6/13 4:47	WSD
Trichlorofluoromethane (Freon 11)	0.21	0.050		1.2	0.28	1	1/6/13 4:47	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050		ND	0.38	1	1/6/13 4:47	WSD
1,2,4-Trimethylbenzene	0.056	0.050		0.28	0.25	1	1/6/13 4:47	WSD
1,3,5-Trimethylbenzene	ND	0.050		ND	0.25	1	1/6/13 4:47	WSD
Vinyl Chloride	ND	0.050		ND	0.13	1	1/6/13 4:47	WSD
m&p-Xylene	1.6	0.10		7.1	0.43	1	1/6/13 4:47	WSD

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

ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Elementary School # 1
Sample ID: 13A0112-02
Sample Matrix: Sub Slab
Sampled: 1/4/2013 09:55

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
o-Xylene	0.33	0.050		1.4	0.22	1	1/6/13 4:47	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	1/6/13 4:47

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ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Elementary School # 2
Sample ID: 13A0112-03
Sample Matrix: Sub Slab
Sampled: 1/4/2013 09:58

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Benzene	0.10	0.050		0.33	0.16	1	1/6/13 5:27	WSD
Bromomethane	ND	0.050		ND	0.19	1	1/6/13 5:27	WSD
Carbon Tetrachloride	ND	0.050		ND	0.31	1	1/6/13 5:27	WSD
Chlorobenzene	ND	0.050		ND	0.23	1	1/6/13 5:27	WSD
Chloroethane	ND	0.050		ND	0.13	1	1/6/13 5:27	WSD
Chloroform	0.12	0.050		0.58	0.24	1	1/6/13 5:27	WSD
Chloromethane	ND	0.050		ND	0.10	1	1/6/13 5:27	WSD
1,2-Dibromoethane (EDB)	ND	0.050		ND	0.38	1	1/6/13 5:27	WSD
1,2-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 5:27	WSD
1,3-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 5:27	WSD
1,4-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 5:27	WSD
Dichlorodifluoromethane (Freon 12)	0.71	0.050		3.5	0.25	1	1/6/13 5:27	WSD
1,1-Dichloroethane	ND	0.050		ND	0.20	1	1/6/13 5:27	WSD
1,2-Dichloroethane	0.059	0.050		0.24	0.20	1	1/6/13 5:27	WSD
1,1-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 5:27	WSD
cis-1,2-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 5:27	WSD
1,2-Dichloropropane	ND	0.050		ND	0.23	1	1/6/13 5:27	WSD
cis-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 5:27	WSD
trans-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 5:27	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.12	0.050		0.83	0.35	1	1/6/13 5:27	WSD
Ethylbenzene	0.24	0.050		1.0	0.22	1	1/6/13 5:27	WSD
Hexachlorobutadiene	ND	0.050		ND	0.53	1	1/6/13 5:27	WSD
Methylene Chloride	1.7	0.50		5.9	1.7	1	1/6/13 5:27	WSD
Styrene	1.2	0.050		5.3	0.21	1	1/6/13 5:27	WSD
1,1,2,2-Tetrachloroethane	ND	0.050		ND	0.34	1	1/6/13 5:27	WSD
Tetrachloroethylene	0.48	0.050		3.3	0.34	1	1/6/13 5:27	WSD
Toluene	6.7	0.050		25	0.19	1	1/6/13 5:27	WSD
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	1	1/6/13 5:27	WSD
1,1,1-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 5:27	WSD
1,1,2-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 5:27	WSD
Trichloroethylene	0.23	0.050		1.3	0.27	1	1/6/13 5:27	WSD
Trichlorofluoromethane (Freon 11)	0.18	0.050		0.99	0.28	1	1/6/13 5:27	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050		ND	0.38	1	1/6/13 5:27	WSD
1,2,4-Trimethylbenzene	ND	0.050		ND	0.25	1	1/6/13 5:27	WSD
1,3,5-Trimethylbenzene	ND	0.050		ND	0.25	1	1/6/13 5:27	WSD
Vinyl Chloride	ND	0.050		ND	0.13	1	1/6/13 5:27	WSD
m&p-Xylene	0.98	0.10		4.3	0.43	1	1/6/13 5:27	WSD

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ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Elementary School # 2
Sample ID: 13A0112-03
Sample Matrix: Sub Slab
Sampled: 1/4/2013 09:58

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
o-Xylene	0.20	0.050		0.88	0.22	1	1/6/13 5:27	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	103	70-130	1/6/13 5:27

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ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Middle School Front
Sample ID: 13A0112-04
Sample Matrix: Sub Slab
Sampled: 1/4/2013 12:25

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Benzene	0.082	0.050		0.26	0.16	1	1/6/13 6:10	WSD
Bromomethane	0.061	0.050		0.24	0.19	1	1/6/13 6:10	WSD
Carbon Tetrachloride	ND	0.050		ND	0.31	1	1/6/13 6:10	WSD
Chlorobenzene	ND	0.050		ND	0.23	1	1/6/13 6:10	WSD
Chloroethane	ND	0.050		ND	0.13	1	1/6/13 6:10	WSD
Chloroform	ND	0.050		ND	0.24	1	1/6/13 6:10	WSD
Chloromethane	0.11	0.050		0.23	0.10	1	1/6/13 6:10	WSD
1,2-Dibromoethane (EDB)	ND	0.050		ND	0.38	1	1/6/13 6:10	WSD
1,2-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 6:10	WSD
1,3-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 6:10	WSD
1,4-Dichlorobenzene	ND	0.050		ND	0.30	1	1/6/13 6:10	WSD
Dichlorodifluoromethane (Freon 12)	0.34	0.050		1.7	0.25	1	1/6/13 6:10	WSD
1,1-Dichloroethane	ND	0.050		ND	0.20	1	1/6/13 6:10	WSD
1,2-Dichloroethane	0.063	0.050		0.25	0.20	1	1/6/13 6:10	WSD
1,1-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 6:10	WSD
cis-1,2-Dichloroethylene	ND	0.050		ND	0.20	1	1/6/13 6:10	WSD
1,2-Dichloropropane	ND	0.050		ND	0.23	1	1/6/13 6:10	WSD
cis-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 6:10	WSD
trans-1,3-Dichloropropene	ND	0.050		ND	0.23	1	1/6/13 6:10	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.19	0.050		1.3	0.35	1	1/6/13 6:10	WSD
Ethylbenzene	0.30	0.050		1.3	0.22	1	1/6/13 6:10	WSD
Hexachlorobutadiene	ND	0.050		ND	0.53	1	1/6/13 6:10	WSD
Methylene Chloride	2.0	0.50		6.8	1.7	1	1/6/13 6:10	WSD
Styrene	1.7	0.050		7.4	0.21	1	1/6/13 6:10	WSD
1,1,2,2-Tetrachloroethane	ND	0.050		ND	0.34	1	1/6/13 6:10	WSD
Tetrachloroethylene	0.46	0.050		3.1	0.34	1	1/6/13 6:10	WSD
Toluene	11	0.050		41	0.19	1	1/6/13 6:10	WSD
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	1	1/6/13 6:10	WSD
1,1,1-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 6:10	WSD
1,1,2-Trichloroethane	ND	0.050		ND	0.27	1	1/6/13 6:10	WSD
Trichloroethylene	0.25	0.050		1.3	0.27	1	1/6/13 6:10	WSD
Trichlorofluoromethane (Freon 11)	0.20	0.050		1.1	0.28	1	1/6/13 6:10	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050		ND	0.38	1	1/6/13 6:10	WSD
1,2,4-Trimethylbenzene	0.052	0.050		0.26	0.25	1	1/6/13 6:10	WSD
1,3,5-Trimethylbenzene	ND	0.050		ND	0.25	1	1/6/13 6:10	WSD
Vinyl Chloride	ND	0.050		ND	0.13	1	1/6/13 6:10	WSD
m&p-Xylene	1.4	0.10		6.3	0.43	1	1/6/13 6:10	WSD

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ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 1/4/2013
Field Sample #: Middle School Front
Sample ID: 13A0112-04
Sample Matrix: Sub Slab
Sampled: 1/4/2013 12:25

Sample Description/Location:
Sub Description/Location:
Canister ID:
Canister Size:
Flow Controller ID:
Sample Type:

Work Order: 13A0112
Initial Vacuum(in Hg):
Final Vacuum(in Hg):
Receipt Vacuum(in Hg):
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Sample Flags: A-09

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
o-Xylene	0.31	0.050		1.4	0.22	1	1/6/13 6:10	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	1/6/13 6:10

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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
13A0112-01 [Middle School Back]	B066051	1	1	N/A	1000	400	400	01/05/13
13A0112-02 [Elementary School # 1]	B066051	1	1	N/A	1000	400	400	01/05/13
13A0112-03 [Elementary School # 2]	B066051	1	1	N/A	1000	400	400	01/05/13
13A0112-04 [Middle School Front]	B066051	1	1	N/A	1000	400	400	01/05/13

con-test® ANALYTICAL LABORATORY

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B066051 - TO-15 Prep											
Blank (B066051-BLK1)					Prepared & Analyzed: 01/05/13						
Benzene	ND	0.025									
Bromomethane	ND	0.025									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
Ethylbenzene	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Methylene Chloride	ND	0.25									
Styrene	ND	0.025									
1,1,2,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.050									
1,1,1-Trichloroethane	ND	0.025									
1,1,2-Trichloroethane	ND	0.025									
Trichloroethylene	ND	0.025									
Trichlorofluoromethane (Freon 11)	ND	0.025									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*8.22*				*8.00*		*103*	*70-130*			

con-test® ANALYTICAL LABORATORY

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B066051 - TO-15 Prep												
LCS (B066051-BS1)					Prepared & Analyzed: 01/05/13							
Benzene	4.54				5.00		90.8		70-130			
Bromomethane	4.54				5.00		90.8		70-130			
Carbon Tetrachloride	6.24				5.00		125		70-130			
Chlorobenzene	5.34				5.00		107		70-130			
Chloroethane	4.77				5.00		95.5		70-130			
Chloroform	4.76				5.00		95.2		70-130			
Chloromethane	4.78				5.00		95.6		70-130			
1,2-Dibromoethane (EDB)	5.70				5.00		114		70-130			
1,2-Dichlorobenzene	5.15				5.00		103		70-130			
1,3-Dichlorobenzene	5.48				5.00		110		70-130			
1,4-Dichlorobenzene	5.42				5.00		108		70-130			
Dichlorodifluoromethane (Freon 12)	5.03				5.00		101		70-130			
1,1-Dichloroethane	4.50				5.00		90.0		70-130			
1,2-Dichloroethane	5.43				5.00		109		70-130			
1,1-Dichloroethylene	4.60				5.00		92.0		70-130			
cis-1,2-Dichloroethylene	4.83				5.00		96.7		70-130			
1,2-Dichloropropane	4.89				5.00		97.7		70-130			
cis-1,3-Dichloropropene	5.99				5.00		120		70-130			
trans-1,3-Dichloropropene	7.16				5.00		**143**	*	70-130			L-01, V-06
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.30				5.00		106		70-130			
Ethylbenzene	5.64				5.00		113		70-130			
Hexachlorobutadiene	5.23				5.00		105		70-130			V-06
Methylene Chloride	4.68				5.00		93.6		70-130			
Styrene	5.24				5.00		105		70-130			
1,1,2,2-Tetrachloroethane	4.82				5.00		96.5		70-130			
Tetrachloroethylene	5.79				5.00		116		70-130			
Toluene	5.50				5.00		110		70-130			
1,2,4-Trichlorobenzene	5.10				5.00		102		70-130			
1,1,1-Trichloroethane	5.24				5.00		105		70-130			
1,1,2-Trichloroethane	5.50				5.00		110		70-130			
Trichloroethylene	4.92				5.00		98.4		70-130			
Trichlorofluoromethane (Freon 11)	5.43				5.00		109		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.77				5.00		95.4		70-130			
1,2,4-Trimethylbenzene	5.43				5.00		109		70-130			
1,3,5-Trimethylbenzene	5.42				5.00		108		70-130			
Vinyl Chloride	4.55				5.00		91.0		70-130			
m&p-Xylene	12.1				10.0		121		70-130			
o-Xylene	5.99				5.00		120		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.67*				*8.00*		*108*		*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-14A in Air	
Benzene	AIHA,FL,NY
Bromomethane	AIHA,FL,NY
Carbon Tetrachloride	AIHA,FL,NY
Chlorobenzene	AIHA,FL,NY
Chloroethane	AIHA,FL,NY
Chloroform	AIHA,FL,NY
Chloromethane	AIHA,FL,NY
1,2-Dibromoethane (EDB)	NY
1,2-Dichlorobenzene	AIHA,FL,NY
1,3-Dichlorobenzene	AIHA,FL,NY
1,4-Dichlorobenzene	AIHA,FL,NY
Dichlorodifluoromethane (Freon 12)	AIHA,FL,NY
1,1-Dichloroethane	AIHA,FL,NY
1,2-Dichloroethane	AIHA,FL,NY
1,1-Dichloroethylene	AIHA,FL,NY
cis-1,2-Dichloroethylene	AIHA,FL,NY
1,2-Dichloropropane	AIHA,FL,NY
cis-1,3-Dichloropropene	AIHA,FL,NY
trans-1,3-Dichloropropene	NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,FL,NY
Ethylbenzene	AIHA,FL,NY
Hexachlorobutadiene	AIHA,FL,NY
Methylene Chloride	AIHA,FL,NY
Styrene	AIHA,FL,NY
1,1,2,2-Tetrachloroethane	AIHA,FL,NY
Tetrachloroethylene	AIHA,FL,NY
Toluene	AIHA,FL,NY
1,2,4-Trichlorobenzene	AIHA,FL,NY
1,1,1-Trichloroethane	AIHA,FL,NY
1,1,2-Trichloroethane	AIHA,FL,NY
Trichloroethylene	AIHA,FL,NY
Trichlorofluoromethane (Freon 11)	AIHA,FL,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	AIHA,FL,NY
1,3,5-Trimethylbenzene	AIHA,FL,NY
Vinyl Chloride	AIHA,FL,NY
m&p-Xylene	AIHA,FL,NY
o-Xylene	AIHA,FL,NY

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

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

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

13A0112

Company Name: ARCADIS
Address: 300 Metro Center Blvd.
Warwick, RI 02886
Attention: Donna Pallister
Project Location: Springfield St.
Sampled By: A. DaSilva

Telephone: (401) 738 3887
Project # WK012152.0008
Client PO #

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☒ WEBSITE CLIENT
Fax # :
Email: donna.pallister@arcadis-us.com
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED TO-14	" Hg Initial pressure	" Hg Final Pressure	Lab Receipt Pressure	Summa Canister ID	Flow Control ID
01	Middle School Back	TB		1/4/13	9:35				SS						
02	Elementary School #1	TB		1/4/13	9:55				SS						
03	Elementary School #2	TB		1/4/13	9:58				SS						
04	Middle School Front	TB		1/4/13	12:25				SS						

Please fill out completely, sign, dat and retain the yellow copy for your record

Summa canisters an flow controllers mus returned within 14 da of receipt or rental fe will apply.

Summa canisters wi retained for a minim of 14 days after sampling date prior cleaning.

Page 18 of 19 13A0112_1 Contest_Final 01 11 13 1655 01/11/13 16:55:55

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
	1/4/13 13:17
Received by: (signature)	Date/Time:
	1/4/13 1400
Relinquished by: (signature)	Date/Time:
	1-4-13 1815
Received by: (signature)	Date/Time:
	1-4-13 1815

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other STP
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

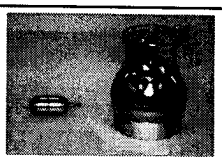
Special Requirements
Regulations: Rhode Island
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits:
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

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

AIHA, NELAC & WBE/DBE Certified



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AIR Only Receipt Checklist

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

CLIENT NAME: ARCADIS **RECEIVED BY:** WK **DATE:** 1-4-13

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

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) Are there any samples "On Hold"? Yes (No) Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

6) Location where samples are stored: AIR LAB

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

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans		
Tedlar Bags	4	
Tubes		
Regulators		
Restrictors		
Tubing		
Other		

Unused Summas:

Unused Regulators:

1) Was all media (used & unused checked into the WASP?

2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

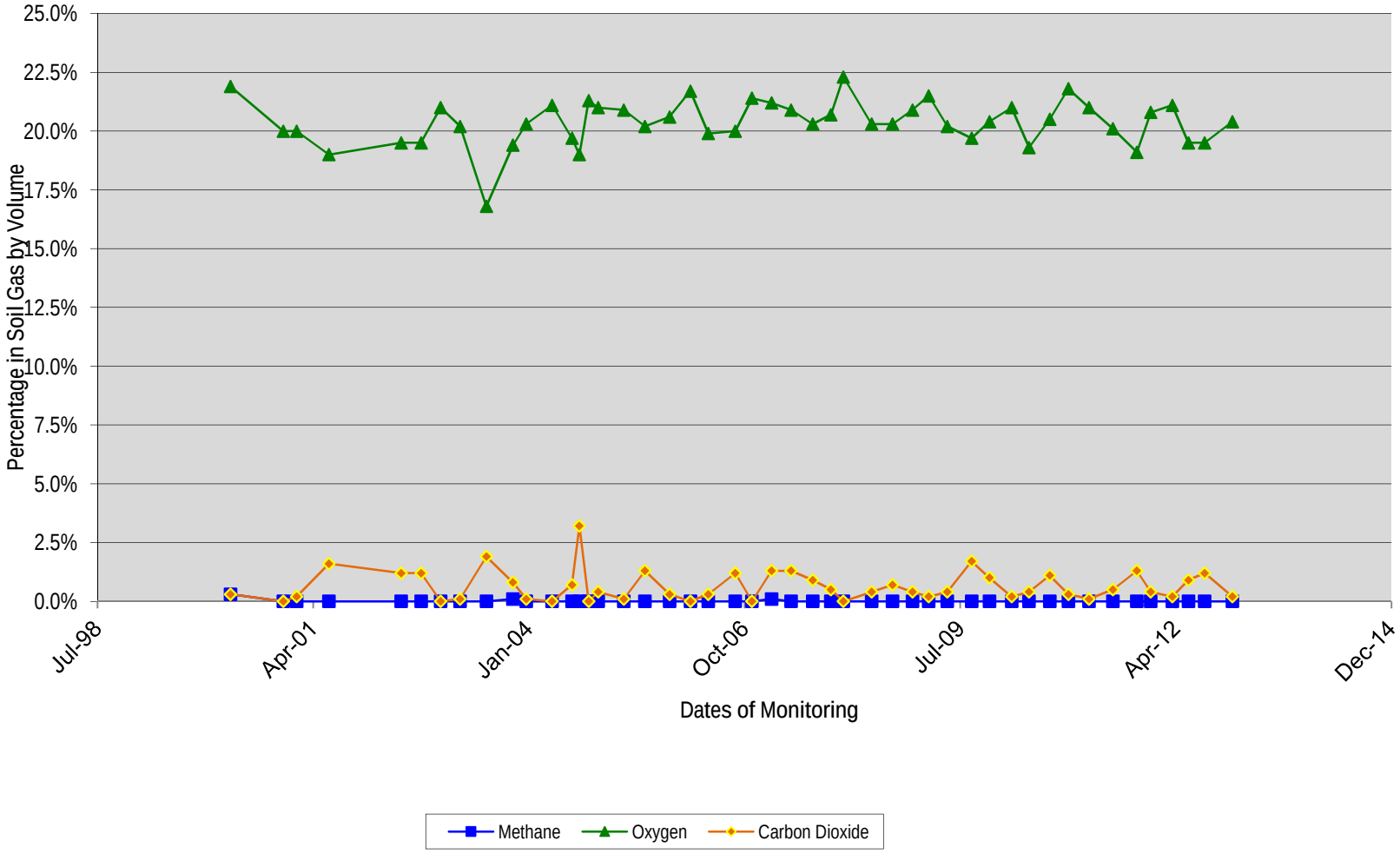
Laboratory Comments:

ARCADIS

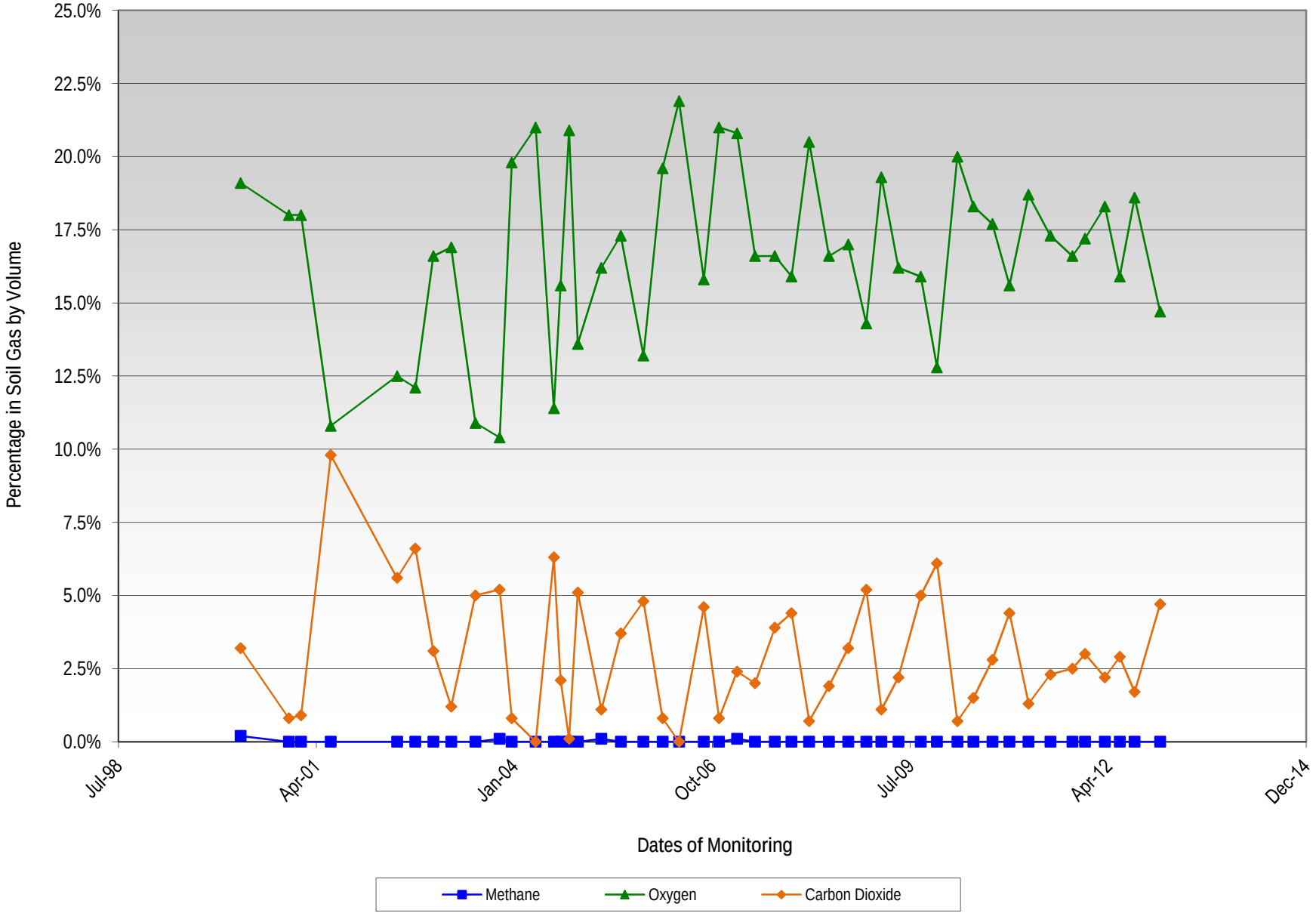
Appendix C

Soil Gas Parameter Graphs

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

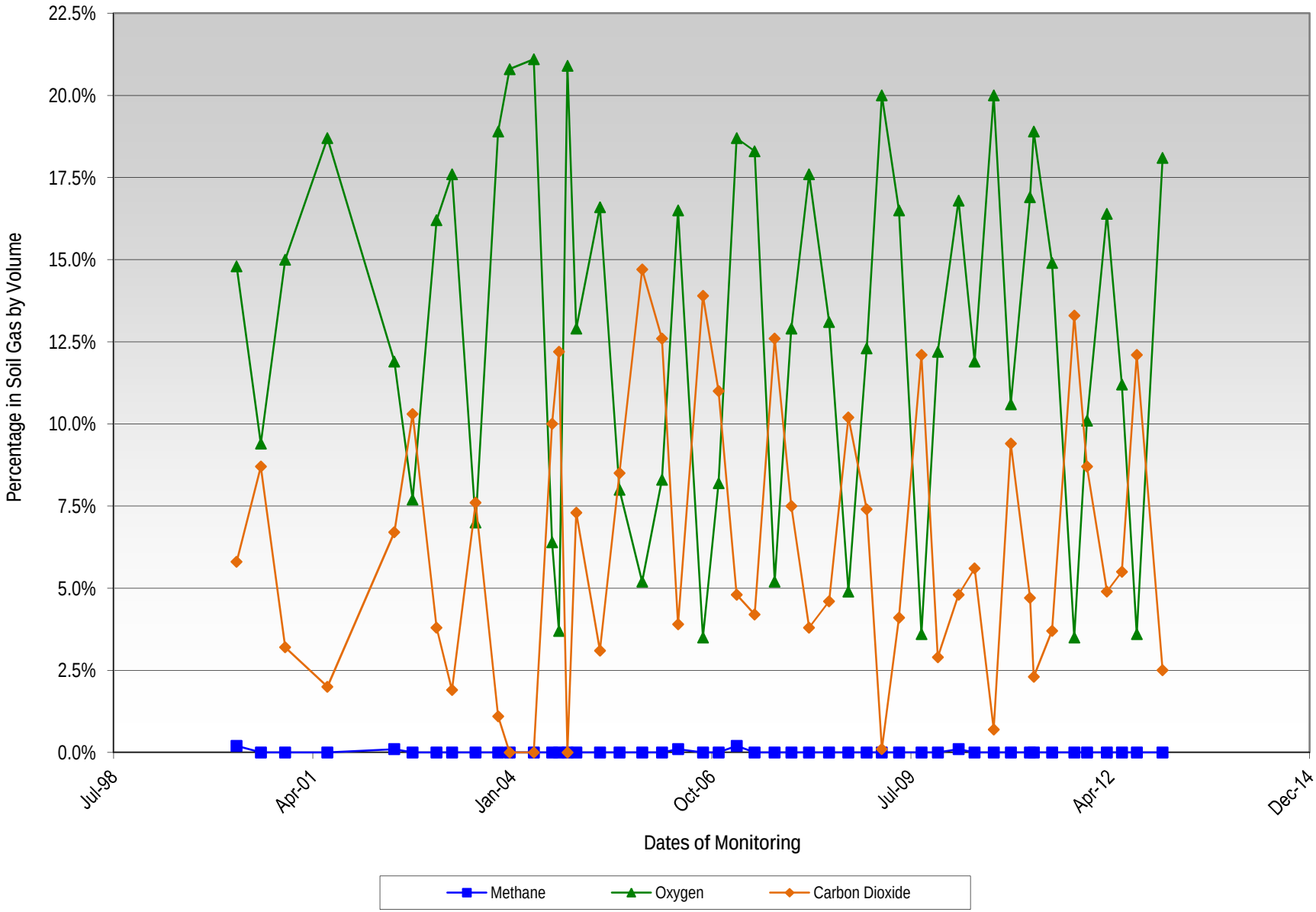


Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



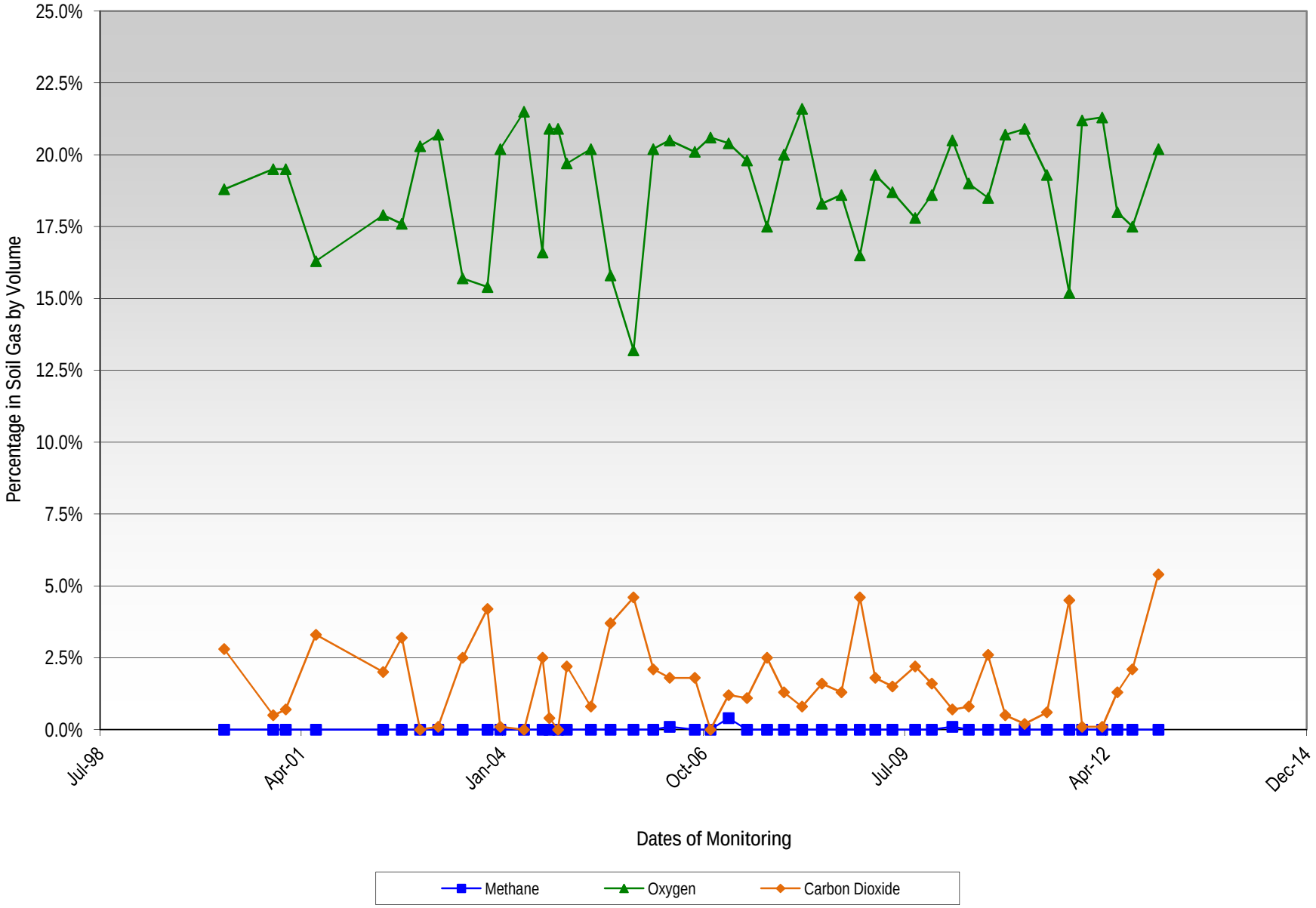
H:\Active Jobs\081-12152\Monitoring Trends\Copy of Soil Gas Trends-12-2012.xlsm\EPL4

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

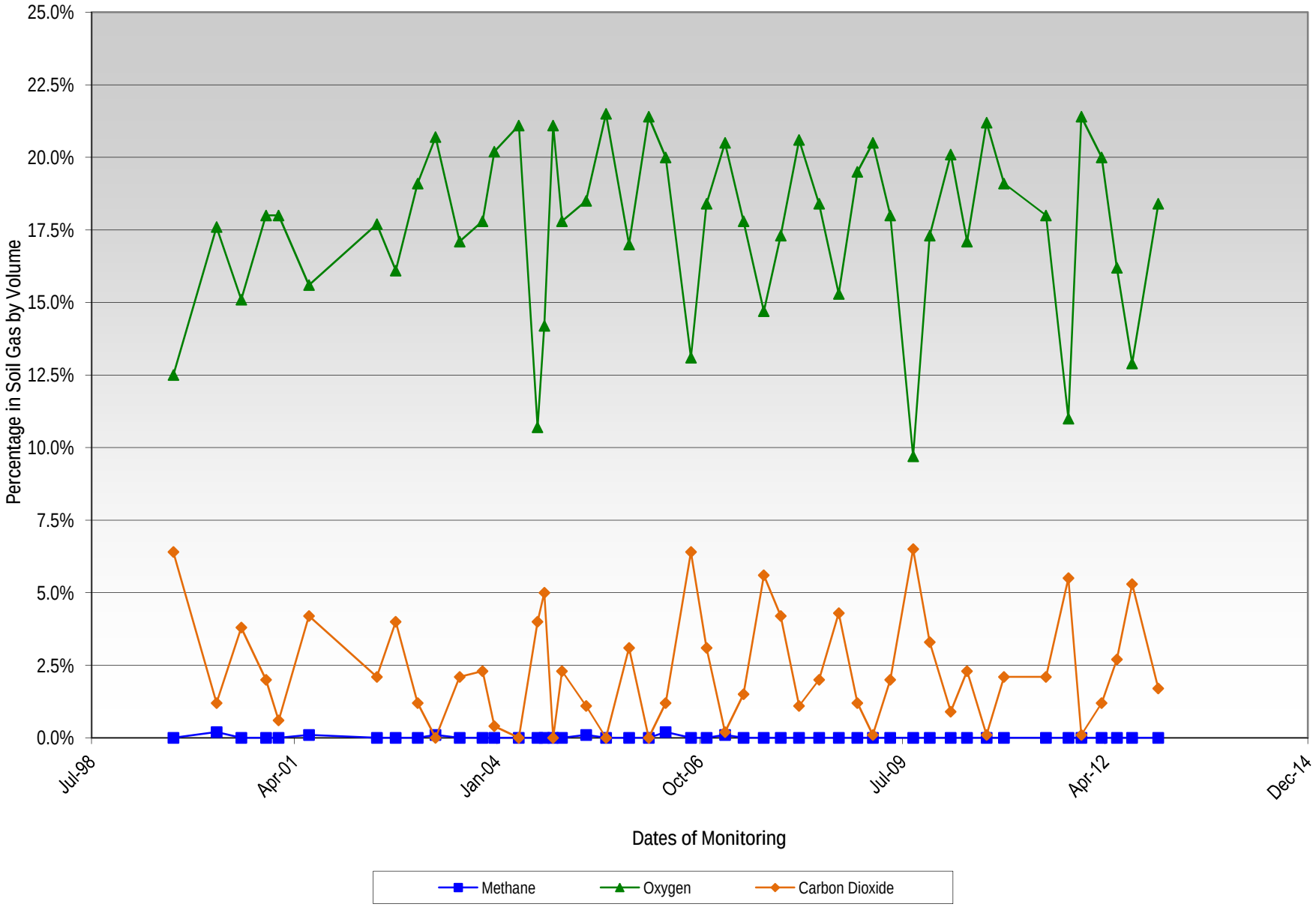


H:\Active Jobs\081-12152\Monitoring Trends\Copy of Soil Gas Trends-12-2012.xlsm\MPL5

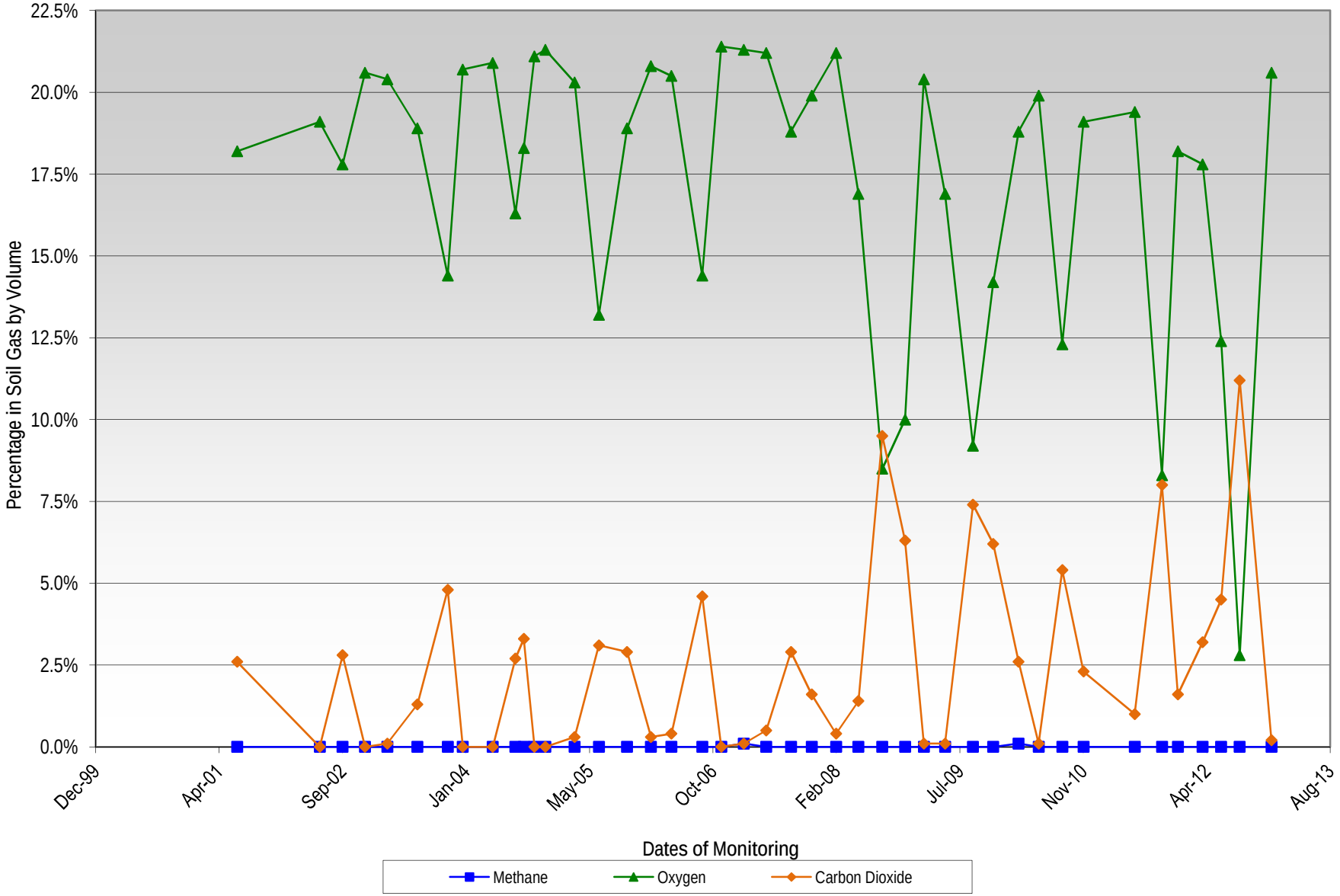
Soil Gas Well MG2
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



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



Soil Gas Well WB15
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