081-12152-06



September 18, 2009

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

#### Subject: Quarterly Monitoring for Springfield Street School Complex, Springfield Street, Providence, RI – August 2009 Monitoring Round

Dear Mr. Crawford:

Quarterly monitoring for soil gas, indoor air and system monitoring was conducted between August 24 and 28, 2009, with an additional round of indoor air monitoring conducted on September 15, 2009. 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**

LFR conducted a visual survey of the site on August 27, 2009 for evidence of significant soil cover erosion, or for any areas where the orange snow fencing indicator barrier was visible. LFR did not observe any areas where the orange indicator barrier was visible during this monitoring event. No significant holes or erosion were observed during this inspection.

#### SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by LFR during the quarterly monitoring on August 27, 2009. One of the elementary school blowers and the rear middle school blowers were not operating at the time of the inspection because the blower motors had been removed for repair, as noted in previous correspondence with RIDEM. The front blower at the middle school was found to be off also due to a high water level in the water tank. The tank was drained and the blower was restarted on August 27. LFR notified DEM that the blower was not operating.

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Influent and effluent air from the blowers was not measured due to the fact that three blowers were not operating at the time of the inspection. After the two blower motors which are being repaired are reinstalled and restarted, LFR will monitor air from all four blowers and provide a supplemental report of the results.

#### INDOOR AIR MONITORING

Indoor air monitoring was conducted on August 27, 2009 using a QRAE plus multi-gas meter (methane, hydrogen sulfide, oxygen), a Mini Rae photoionization detector (organic vapors), and a Fluke 975 Airmeter (carbon dioxide, carbon monoxide). The schools were not occupied by students, and maintenance staff were cleaning the buildings at the time of the inspection. Results of monitoring are provided in the Table 1. Readings for all parameters were below the Remedial Action Work Plan Action Levels.

Indoor air monitoring was repeated on September 15, 2009, when both schools were fully occupied. Monitoring was conducted with the same instruments as on August 27. Results of the September 15, 2009 monitoring are presented on Table 2. Readings for all parameters were below the Remedial Action Work Plan Action Levels.

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.

Carbon dioxide is a colorless, odorless gas which is a trace constituent of our atmosphere. It is emitted by people and other mammals during respiration, by combustion of fossil fuels, and through many other natural and manmade sources. The US Department of Energy's Carbon Dioxide Information Analysis Center (CDIAC) reports that the average concentration of carbon dioxide in the atmosphere is 377 ppm. The actual concentrations are expected to vary locally based on the proximity of carbon dioxide sources to the measuring site, meteorological conditions, and other factors. An ambient carbon dioxide concentration of 418 ppm was measured in the parking lot of the middle school on August 27, 2009, and a an ambient carbon dioxide concentration of 382 ppm was measured in the parking lot of the elementary school on September 15, 2009.

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 affects. A discussion regarding carbon dioxide concentrations in indoor air contained in Informative Appendix C of the Standard states: "... maintaining a steady-state CO<sub>2</sub> 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 August 27, 2009. The methane monitor control panels had stickers that indicated the monitors were last calibrated by Diamond Technical Services personnel on August 27, 2009 (Diamond had performed the calibration in the morning before monitoring began).

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**

Three of five groundwater monitoring wells were sampled by LFR on August 25, 2009. Two monitoring wells, ATC-2 and ATC-3, were not able to be sampled because they were obstructed on the day of sampling. Prior to sampling, the depth to water was gauged, and a volume of water equivalent to approximately three well volumes was removed from each well. Depth to groundwater ranged from 11.95 to 18.01 feet below ground surface. 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 B. Results of analysis of groundwater samples are summarized in Table 3.

Chlorobenzene (1.0 ug/L) and 1,4-Dichlorobenzene (1.5 ug/l) were detected in the groundwater sample collected from ATC-4. Thiese compounds have been detected previously in this well at similar concentrations. No other target analytes were detected in the three groundwater samples.

#### SOIL GAS MONITORING

Soil gas monitoring was conducted at 28 locations on August 28, 2009. 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, a QRAE 4-gas meter and a MiniRae Photoionization Detector (PID).

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

#### Soil Gas Field Monitoring Results

Soil gas samples were screened for methane, carbon monoxide, hydrogen sulfide, carbon dioxide, oxygen, and total VOCs. Soil gas survey results are provided in Table 4. Carbon monoxide was detected at levels ranging from 0 to 5 ppm. All carbon monoxide results were below the RAWP Action Level of 9 ppm. Methane, hydrogen sulfide, and organic vapors were not detected in soil gas.

Carbon dioxide was detected in soil gas from 26 of 28 locations with detectable concentrations ranging from 0.1% to 13.9%. The carbon dioxide Remedial Action Work Plan Action Level is 0.1% and 26 readings exceeded the action level. 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. Graphs presenting carbon dioxide, oxygen, and methane concentrations over time for seven representative wells are presented in Attachment C. The maximum concentration of carbon dioxide detected during this round of monitoring was 13.9%, compared with a maximum detected concentration of 7.9% in May 2009. The highest concentration of carbon dioxide was found in well MPL-8, located on the northern end of the property adjacent to the parking lot. Concentrations detected during this round of monitoring appear to be consistent with the patterns of higher carbon dioxide concentrations in the summer and fall, and lower carbon dioxide concentrations in the winter and spring.

#### Soil Gas Laboratory Results

Soil gas samples were collected from soil gas wells MPL-6 and WB-2 in Tedlar bags and submitted to Con-Test Analytical Laboratories for analysis by method TO-14. Results of the analysis are summarized in Table 5, and the laboratory report is provided in Attachment B. The results of analysis were generally consistent with the concentrations and compounds which have been detected in previous monitoring events. A few compounds were detected for the first time during this monitoring round, however, this may be due to the fact that laboratory reporting limits were lower than during previous monitoring rounds, and the compounds were detected at very low concentrations.

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

#### **CONCLUSIONS**

Methane, hydrogen sulfide, carbon monoxide and organic vapor concentrations did not exceed RAWP action levels in any soil gas samples, or indoor air samples. Carbon dioxide concentrations exceeded the action level at most soil gas locations. 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.

Inspection of the cap did not reveal any areas warranting repair.

Two blower motor are being repaired and will be reinstalled after the repairs are complete. Subslab soil gas will be monitored after the blowers are restarted.

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

Sincerely,

ac

Donna Holden Pallister, P.E., L.S.P. Senior Engineer

cc: A. Sepe, City of ProvidenceS. Tremblay, Providence School DepartmentProvidence Public Building Authority

Tables

# Table 1Indoor Air Monitoring ResultsSpringfield Street School ComplexProvidence, Rhode IslandAugust 27, 2009

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	379	21.2	1	0	0.0
E.S. Elevator	0	376	21.2	1	0	0.0
E.S. Faculty Work Room	0	366	21.2	0	0	0.0
E.S. Hallway Outside Gym	0	380	21.3	1	0	0.0
E.S. Stairway B	0	361	21.3	0	0	0.0
E.S. Stairway C	0	455	21.3	1	0	0.0
E.S. Library	0	364	21.3	1	0	0.0
<b>E.S.</b> Room 107	0	410	21.3	1	0	0.0
E.S. Cafeteria	0	431	21.3	1	0	0.0
E.S. Mechanical Room	0	335	21.3	0	0	0.0

## Table 1Indoor Air Monitoring NotesSpringfield Street School ComplexAugust 27, 2009

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	650	21.2	0	0	0.0
M.S. Elevator	0	487	21.3	0	0	0.0
M.S. Music Room (now an art room) (Hallway)	0	439	21.3	0	0	0.0
M.S. Stairway near Elem. School GS-01	0	489	21.3	0	0	0.0
M.S. Near sensor #16 in hall outside cafeteria	0	445	21.3	0	0	0.0
M.S. Faculty Work Room	0	433	21.3	0	0	0.0
M.S. Janitor's Office	0	428	21.3	0	0	0.0
M.S. GS-03 Across from Boys Bathroom	0	403	21.3	0	0	0.0

## Table 1Indoor Air Monitoring NotesSpringfield Street School ComplexAugust 27, 2009

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Cafeteria	0	429	21.3	0	0	0.0
M.S. Front Hall near sensor #4	0	584	21.3	0	0	0.0
M.S. Hallway across from elevator near sensor #9	0	473	21.3	0	0	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Notes:

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

Measurements made with: Fluke 975 Airmeter, Q-RAE plus multigas meter, Mini RAE 2000

PPM = Parts per million

#### Table 2 Indoor Air Monitoring Results Springfield Street School Complex Providence, Rhode Island September 15, 2009

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	475	20.9	0	0	0.0
E.S. Elevator	0	530	20.9	0	0	0.0
E.S. Faculty Work Room	0	522	20.9	0	0	0.0
E.S. Hallway Outside Gym	0	587	20.9	0	0	0.0
E.S. Stairway B	0	558	20.9	0	0	0.0
Room 104	0	588	20.9	0	0	0.0
<b>E.S.</b> Stairway C	0	445	20.9	0	0	0.0
E.S. Library	0	517	20.9	0	0	0.0
E.S. Music Hallway	0	527	20.9	0	0	0.0
E.S. Cafeteria	0	482	20.9	0	0	0.0
E.S. Mechanical Room	0	526	20.9	0	0	0.0

## Table 2Indoor Air Monitoring NotesSpringfield Street School ComplexSeptember 15, 2009

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	585	20.9	1/0	0	0.0
M.S. Elevator	0	658	20.9	0	0	0.0
M.S. Faculty Work Room	0	670	20.9	0	0	0.0
M.S. Stairway near Elem. School GS-01	0	767	20.9	0	0	0.0
M.S. Near sensor #16 in hall outside cafeteria	0	660	20.9	0	0	0.0
M.S. Outside Comm. Room near Sensor 05	0	676	20.9	0	0	0.0
M.S. Janitor's Office	0	540	20.9	0	0	0.0
M.S. GS-03 Across from Boys Bathroom	0	689	20.9	0	0	0.0

## Table 2Indoor Air Monitoring NotesSpringfield Street School ComplexSeptember 15, 2009

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. 2 <sup>nd</sup> Floor Faculty Work Room	0	709	20.9	0	0	0.0
M.S. Cafeteria	0	704	20.9	0	0	0.0
M.S. Front Hall near sensor #4	0	622	20.9	0	0	0.0
M.S. Hallway across from elevator near sensor #9	0	585	20.9	0	0	0.0
M.S. Library	0	676	20.9	0	0	0.0
M.S. Stairway Hartford Ave. (GS-07)	0	659	20.9	0	0	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Notes:

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

Measurements made with: Fluke 975 Airmeter, Q-RAE plus multigas meter, Mini RAE 2000

PPM = Parts per million

## Table 3 Summary of Ground Water Sampling Results Springfield Street School Complex Springfield Street Providence, Rhode Island

Network         Subsciss													Sampli	ing Dates a	nd Result	s in µg/L																		RIDEM GB
All         No		Detected Compounds	2/28/2001	7/20/2001	*9- 12/200	1 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			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	Groundwater Objective
Second         61         ND         63         93         ND         ND <th< td=""><td>ATC-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	ATC-1																		1			1		1		1								
mbs/stance         17         N0         22         N0         N0       <		Benzene	6.1	ND	18.9	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
insc-fuglescare         11         N0         V10         N0         N0        N0		n-butvlbenzene	1.7	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Endpandame         4.5         ND		sec-Butylbenzene	1.1	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Ispring/hereare         ND	-	tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
nphophescare         ND		Ethylbenzene	4.5	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
NTEE         124         7.0         28.6         ND         ND        ND <th< td=""><td></td><td>Isopropylbenzene</td><td>ND</td><td>ND</td><td>1.8</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>NA</td></th<>		Isopropylbenzene	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Induced         ND         ND        ND         ND <th< td=""><td></td><td></td><td>ND</td><td>ND</td><td>5.0</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>NA</td></th<>			ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Toluene         2.5         ND         8.2         ND         ND        <		MTBE	12.4	7.0	28.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	5000
12.4-Timetyberaze         12.4-Timetyberaze         ND		Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	1.27	ND	ND	ND	ND	ND	1.10	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	540
13.5 Timeshybenzen         3.4         ND         5.2         ND         ND <td></td> <td>10100110</td> <td></td> <td>115</td> <td></td> <td>110</td> <td></td> <td></td> <td></td> <td></td> <td>110</td> <td></td> <td></td> <td></td> <td>115</td> <td></td> <td>1700</td>		10100110																			115		110					110				115		1700
X/enes         14.6         ND         <					-																													NA
112-Tichlorophane         ND         ND<			÷											=									115											NA
Interview         Int         I			-		÷.																													NA
Chlordorm         0.9         ND         ND       N		1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chlordorm         0.9         ND         ND       N	ATC-2																																	
Toluene         ND         ND </td <td></td> <td>Chloroform</td> <td>0.9</td> <td>ND</td> <td>ND</td> <td>1.0</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>NS</td> <td>1.1</td> <td>1.0</td> <td>ND</td> <td>NS</td> <td>NS</td> <td>NS</td> <td>NS</td> <td>NS</td> <td>NS</td> <td>NS</td> <td></td> <td>NA</td>		Chloroform	0.9	ND	ND	1.0	ND	ND	ND	ND	ND	NS	1.1	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS		NA
Toluene         ND         ND </td <td>ATC-3</td> <td></td>	ATC-3																																	
n         n	AIO-3	Toluene	ND	ND	ND	ND	NS	ND	ND	ND	ND	3.03	ND	ND	ND	ND	ND	ND	3.0	ND	4.5	13.1	ND	23	13	ND	ND	NS	NS	NS	NS	NS		1700
Benzene         ND         ND </td <td></td> <td>loldono</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td>1011</td> <td></td> <td>2.0</td> <td></td>		loldono										0.00							0.0			1011		2.0										
Chlorobenzene       2.6       ND       57.3       2.7       5.18       ND	ATC-4																																	
1.4-dicklorobenzene       4.2       ND       9.2       3.4       3.36       ND			ND		2.5		ND	ND	ND	ND	ND				ND					ND	ND			ND	ND		ND	ND	ND		ND	ND	ND	140
MTBE       ND       <			2.6											ND	0.60						ND	ND		ND	1.80	1.90	ND		1.2	ND		ND	1	70
All         All <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>NA</td>					-	-								-																			-	NA
All of			110								0.00												115									ND		5000
MTBE         ND         ND         2.2         NS         ND		1,2,4-Trimethylbenzene	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroform         ND	ATC-5																								+									
		MTBE	ND	ND	2.2	NS	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
ATC         ATC         ATC         LFR         LFR <td></td> <td>Chloroform</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>NS</td> <td>ND</td> <td>ND</td> <td>0.6</td> <td>ND</td> <td>NA</td>		Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Sampled By:		ATC	ATC	ATC	ATC	LER	LER	I FR	I FR	LER	I FR	I FR	I FR	LER	LER	I FR	I FR	LER	LER	I FR	LER	LER	I FR	I FR	LER	LER	I FR	LER	LER	I FR	I FR	I FR	
	Sampled By.	1	AIC	AIC	AIC	AIC	LFR		LITK	LI'R		LITK	LI'R	LER		LFK	LFK	LFR		LFR		LFK	LFK				LFK		LFR				LI'K	

\*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 Soil Gas Survey Field Notes Springfield Street School Complex Providence, Rhode Island August 28, 2009

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	6.5	9.7	3	0	0.0
WB-2	0.0	4.0	16.3	4	0	0.0
WB-3	0.0	4.1	15.9	3	0	0.0
WB-4	0.0	1.2	19.9	0	0	0.0
WB-5	0.0	0.0	21.3	0	0	0.0
WB-6	0.0	0.6	20.6	0	0	0.0
WB-7	NM	NM	NM	NM	NM	NM
WB-8	0.0	0.0	21.1	0	0	0.0
WB-12	0.0	3.7	17.9	4	0	0.0
WB-13	0.0	3.5	15.4	5	0	0.0
WB-14	0.0	6.2	8.6	4	0	0.0
WB-15	0.0	7.4	9.2	5	0	0.0
EPL-1	0.0	1.7	19.7	0	0	0.0
EPL-2	0.0	4.5	16.2	3	0	0.0
EPL-3	0.0	6.9	14.1	4	0	0.0
EPL-4	0.0	5.0	15.9	4	0	0.0
EPL-5	0.0	6.7	12.6	3	0	0.0
ENE-1	0.0	1.3	19.4	0	0	0.0

#### Table 4 Soil Gas Survey Field Notes Springfield Street School Complex Providence, Rhode Island August 28, 2008

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MG1	0.0	5.0	10.8	4	0	0.0
MG2	0.0	2.2	17.8	4	0	0.0
MG3	0.0	2.0	18.5	4	0	0.0
MG4	0.0	3.6	14.1	4	0	0.0
MG5	0.0	2.2	16.5	4	0	0.0
MPL2	0.0	8.1	7.8	5	0	0.0
MPL3	0.0	10.6	6.3	5	0	0.0
MPL5	0.0	12.1	3.6	4	0	0.0
MPL6	0.0	8.7	8.2	4	0	0.0
MPL7	0.0	12.3	5.8	5	0	0.0
MPL8	0.0	13.9	7.3	4	0	0.0
Remedial Action Work Plan Action Levels	0.5%	1,000 PPM	NA	9 PPM	10 PPM	5 PPM

Sampled by: Chris Jamison

Weather Conditions: Sunny, Temperature 75-80 F

Sampling Equipment: Landtec GEM 2000 Plus, MiniRae 2000 PID, QRae 4 gas meter

NM = Not measured. Well WB-7 contained water to top of casing on day of sampling.

Table 5Results of Laboratory Analysis of Soil GasSpringfield Street School ComplexProvidence, Rhode Island

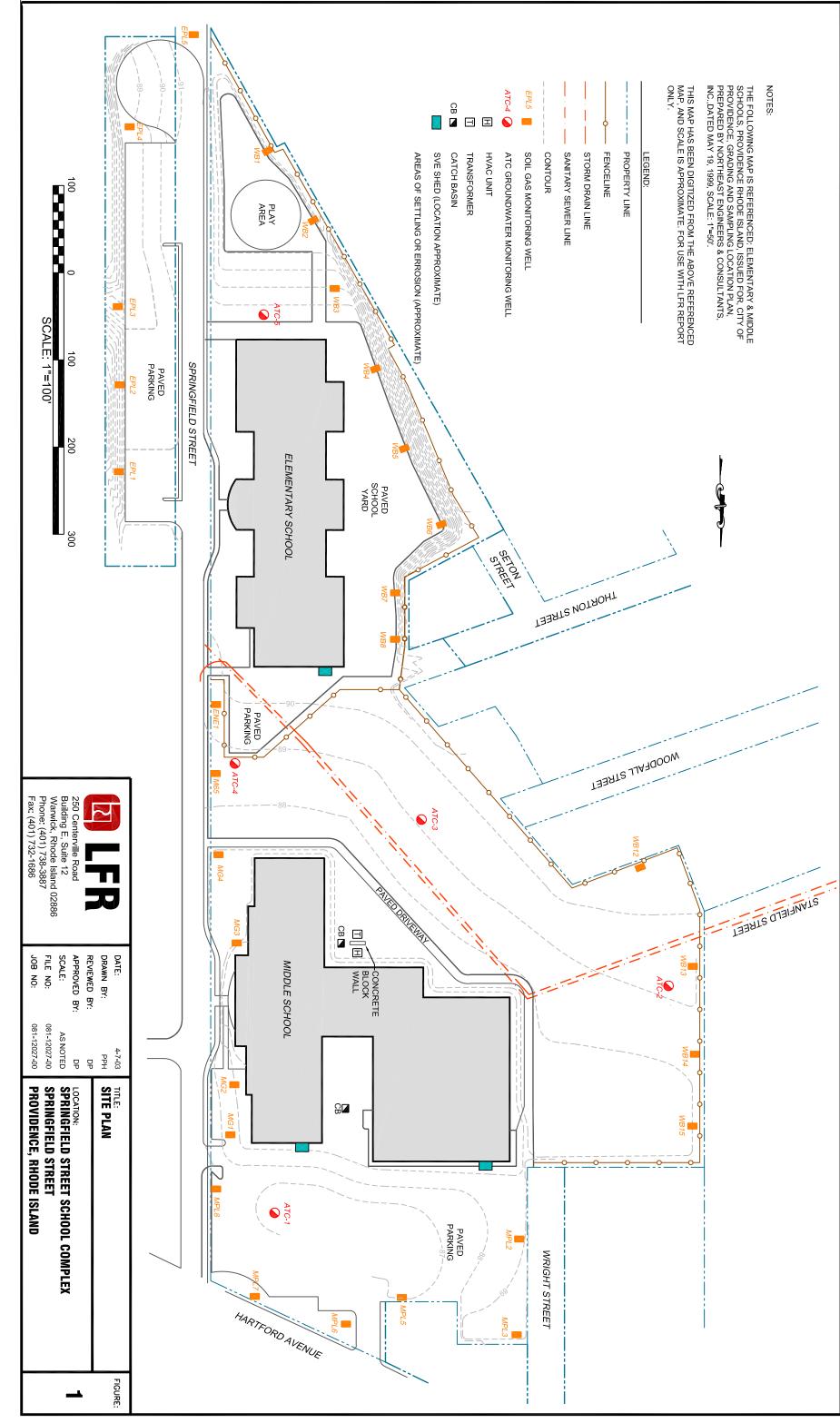
Parameter	OSHA PELs (PPBv)									Ro	esults of Anal	ysis in parts	per billion l	by volume (	PPBv)								
							MPL-6											WB-2					
Date Collected:		2/20/2007	5/17/2007	8/22/2007	11/14/2007	2/12/2008	5/21/2008	8/26/2008	11/26/2008	2/10/2009	5/7/2009	8/25/2009	2/20/2007	5/17/2007	8/22/2007	11/14/2007	2/12/2008	5/21/2008	8/26/2008	11/26/2008	2/26/2009	5/12/2009	8/25/2009
Benzene	1,000	ND	0.36	0.74	ND	ND	0.51	1.0	0.3	0.31	0.31	2.40	ND	0.29	ND	ND	ND	0.21	0.46	0.23	0.24	ND	2.1
Carbon Tetrachloride	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06
Chlorobenzene	75,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.053
Chloroethane	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	50,000	ND	3.2	0.48	ND	ND	0.25	ND	0.10	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND	0.22
Chloromethane	100,000	ND	0.24	0.36	ND	ND	0.28	0.88	0.36	0.39	0.16	0.77	ND	0.11	ND	ND	ND	0.2	0.56	0.23	0.54	ND	0.28
Dichlorodifluoromethane (Freon 12)	1,000,000	ND	ND	0.28	ND	ND	0.53	0.78	0.31	0.44	0.44	0.43	ND	0.5	0.57	0.66	0.57	0.49	0.66	0.4	0.51	0.55	0.57
1,3-Dichlorobenzene	None	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31
1,4-Dichlorobenzene	75,000	ND	ND	0.54	ND	ND	ND	0.65	ND	0.13	ND	0.27	ND	0.16	0.37	ND	ND	ND	ND	ND	0.15	ND	0.3
1,1-Dichoroethane	100,000	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	None	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	200,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36
(Freon 114)																							
Ethylbenzene	100,000	ND	0.75	0.7	2.3	0.65	1.3	3.9	0.4	0.36	3.8	5.6	ND	0.55	0.46	3.2	0.78	0.41	1.3	0.33	0.42	2.0	4.6
Methylene Chloride	100,000	ND	ND	0.84	3.5	2	2.6	3.8	2.9	1.7	2.2	1.9	ND	0.53	0.5	4.9	2.5	3.4	3.0	2.3	1.1	2.0	1.8
Styrene	100,000	ND	1.6	1.5	1.4	ND	1.1	3.0	0.3	0.36	2.8	3.2	ND	1	1.1	0.69	ND	0.5	1.5	0.1	0.47	1.3	3.1
Tetrachloroethylene	100,000	ND	0.19	0.27	4.6	1.9	0.99	4.1	0.6	0.33	0.65	4.0	ND	0.16	0.81	3.2	2.7	0.64	1.6	0.8	0.32	16	3.2
Toluene	200,000	4.9	17	7.2	15	6.9	7.7	64	4	4.1	30	21	4.6	12	5.3	10	9.3	3	30	1.8	2.3	12	21
1,1,1-Trichloroethane	350,000	ND	ND	0.36	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	38	ND	1.3	ND	ND	ND	ND	ND	ND
Trichloroethylene	100,000	ND	ND	0.25	0.53	1	4.1	3.6	1.7	ND	0.26	0.098	ND	ND	4.6	ND	ND	3	2.8	0.97	0.32	ND	0.095
Trichlorofluoromethane (Freon 11)	1,000,000	ND	ND	0.7	0.65	ND	0.27	1.3	0.5	0.28	0.72	0.96	ND	0.41	0.43	ND	ND	0.26	0.54	0.3	0.41	2.8	2
1,1,2-Trichloro-1,2,2,-Trifluoroethane	1,000,000	ND	ND	0.27	ND	ND	ND	ND	0.06	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	0.07	ND	ND	0.06
(Freon 113)																							
1,3,5-Trimethylbenzene	None	ND	0.12	ND	ND	ND	0.28	3.7	0.1	ND	8.1	0.5	ND	ND	ND	0.57	ND	ND	0.67	0.2	0.13	1.4	0.41
1,2,4-Trimethylbenzene	None	ND	ND	0.44	1.6	1.3	1.3	9.1	0.3	0.24	15	2	ND	1	0.26	1.7	1.1	0.66	1.6	0.66	0.52	3.2	1.2
Vinyl chloride	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M/p-Xylene	100,000	1.4	3.1	2.4	5.3	2.2	3.7	11	1	0.95	11	15	1.2	2.5	1.8	10	2.6	1.3	3.7	0.94	1.4	6.1	13
o-Xylene	100,000	ND	0.61	0.68	1.8	0.69	1.6	5.0	0.4	0.32	8.0	4.3	ND	0.56	0.48	3.5	0.8	0.64	1.5	0.43	0.45	2.3	3.3

Notes:

ND = Not detected Only detected compounds are listed, see laboratory report for complete list on

laboratory report for complete list on analytes.

Figure



Appendix A

Limitations and 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 LFR 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 LFR relied upon any information prepared by other parties not under contract to LFR, LFR 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 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 LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. LFR'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.

LFR, 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.

Appendix B

Laboratory Report



September 2, 2009

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

Project Location: Springfield St Client Job Number: Project Number: 081-12152-06 Laboratory Work Order Number: 09H0621

Enclosed are results of analyses for samples received by the laboratory on August 26, 2009. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom Project Manager



	39 Spruce Stree	t * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
LFR, Inc RI 300 Metro Center Blvd., Suite 250 Warwick, RI 02886 ATTN: Donna Pallister	۰.	REPORT DATE: 9/2/2009 PURCHASE ORDER NUMBER: 5131
		PROJECT NUMBER: 081-12152-06
		ANALYTICAL SUMMARY
		WORK ORDER NUMBER: 09H0621

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
ATC-1	09H0621-01	Ground Water		SW-846 8260B	
ATC-4	09H0621-02	Ground Water		SW-846 8260B	
ATC-5	09H0621-03	Ground Water		SW-846 8260B	
Trip Blank	09H0621-04	Trip Blank Water		SW-846 8260B	
WB-2	09H0621-05	Air		EPA TO-14A	
MPL-6	09H0621-06	Air		EPA TO-14A	



#### CASE NARRATIVE SUMMARY

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

	SW-846 8260B
Qualification	s:
L	aboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not

affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

#### Analyte & Samples(s) Qualified:

#### **Carbon Disulfide**

B004124-BS1, B004124-BSD1

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

Analyte & Samples(s) Qualified:

#### Methylene Chloride

09H0621-01[ATC-1], 09H0621-02[ATC-4], 09H0621-03[ATC-5], 09H0621-04[Trip Blank], B004124-BLK1, B004124-BS1, B004124-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. Analysis is in control.

#### Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Bromomethane, Isopropylbenzene (Cumene), trans-1,3-Dichloropropene

B004124-BS1

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

#### Analyte & Samples(s) Qualified:

Bromomethane

09H0621-01[ATC-1], 09H0621-02[ATC-4], 09H0621-03[ATC-5], 09H0621-04[Trip Blank], B004124-BLK1, B004124-BS1, B004124-BSD1

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

#### Analyte & Samples(s) Qualified:

#### Chloromethane, Methylene Chloride

09H0621-01[ATC-1], 09H0621-02[ATC-4], 09H0621-03[ATC-5], 09H0621-04[Trip Blank], B004124-BLK1, B004124-BS1, B004124-BSD1

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

#### Analyte & Samples(s) Qualified:

#### 1,2,4-Trichlorobenzene, Hexachlorobutadiene

B004124-BS1, B004124-BSD1

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

#### Analyte & Samples(s) Qualified:

#### 1,4-Dioxane

09H0621-01[ATC-1], 09H0621-02[ATC-4], 09H0621-03[ATC-5], 09H0621-04[Trip Blank], B004124-BLK1, B004124-BS1, B004124-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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

1 approved

Tod E. Kopyscinski Air Lab Director



#### ANALYTICAL RESULTS

Project Location: Springfield St Date Received: 8/26/2009 Field Sample #: WB-2 Sample ID: 09H0621-05 Sample Matrix: Air Sampled: 8/25/2009 12:30 Sample Description/Location: Sub Description/Location: Canister ID: Canister Size: Flow Controller ID: Sample Type:

Work Order: 09H0621 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					
	pp	bv		ug/r	n3 .			
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Benzene	2.1	0.050		6.7	0.16	1	8/27/09 12:24	WSD
Bromomethane	ND	0.050		ND	0.19	1	8/27/09 12:24	WSD
Carbon Tetrachloride	0.060	0.050		0.38	0.31	1	8/27/09 12:24	WSD
Chlorobenzene	0.053	0.050		0.24	0.23	ì	8/27/09 12:24	WSD
Chloroethane	ND	0.050		ND	0.13	1	8/27/09 12:24	WSD
Chloroform	0.22	0.050		1.1	0.24	1	8/27/09 12:24	WSD
Chloromethane	0.28	0.050		0.58	0.10	1	8/27/09 12:24	WSD
,2-Dibromoethane (EDB)	ND	0.050		ND	0.38	1	8/27/09 12:24	WSD
,2-Dichlorobenzene	ND	0.050		ND	0.30	1	8/27/09 12:24	WSD
,3-Dichlorobenzene	0.31	0.050		1.9	0.30	1	8/27/09 12:24	WSD
,4-Dichlorobenzene	0.30	0.050		1.8	0.30	1	8/27/09 12:24	WSD
vichlorodifluoromethane (Freon 12)	0.57	0.050		2.8	0.25	1	8/27/09 12:24	WSD
,1-Dichloroethane	ND	0.050		ND	0.20	1	8/27/09 12:24	WSD
.2-Dichloroethane	ND	0.050		ND	0.20	1	8/27/09 12:24	WSD
,1-Dichloroethylene	ND	0.050		ND	0.20	1	8/27/09 12:24	WSD
is-1,2-Dichloroethylene	ND	0.050		ND	0.20	1	8/27/09 12:24	WSD
,2-Dichloropropane	ND	0.050		ND	0.23	1	8/27/09 12:24	WSD
is-1,3-Dichloropropene	ND	0.050		ND	0.23	1	8/27/09 12:24	WSD
ans-1,3-Dichloropropene	ND	0.050		ND	0.23	1	8/27/09 12:24	WSD
,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.36	0.050		2.5	0.35	1	8/27/09 12:24	WSD
thylbenzene	4.6	0.050		20	0.22	1	8/27/09 12:24	WSD
Iexachlorobutadiene	ND	0.050		ND	0.53	1	8/27/09 12:24	WSD
Aethylene Chloride	1.8	0.20		6.3	0.69	1	8/27/09 12:24	WSD
Styrene	3.1	0.050		13	0.21	1	8/27/09 12:24	WSD
,1,2,2-Tetrachloroethane	ND	0.050		ND	0.34	1	8/27/09 12:24	WSD
fetrachloroethylene	3.2	0.050		21	0.34	1	8/27/09 12:24	WSD
Toluene	21	0.050		81	0.19	1	8/27/09 12:24	WSD
,2,4-Trichlorobenzene	ND	0.050		ND	0.37	1	8/27/09 12:24	WSD
,1,1-Trichloroethane	ND	0.050		ND	0.27	1	8/27/09 12:24	WSD
,1,2-Trichloroethane	ND	0.050		ND	0.27	1	8/27/09 12:24	WSD
richloroethylene	0.095	0.050		0.51	0.27	1	8/27/09 12:24	WSD
richlorofluoromethane (Freon 11)	2.0	0.050		11	0.28	1	8/27/09 12:24	WSD
,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.050		0.46	0.38	1	8/27/09 12:24	WSD
.2.4-Trimethylbenzene	1.2	0.050		6.1	0.25	1	8/27/09 12:24	WSD
,3,5-Trimethylbenzene	0.41	0.050		2.0	0.25	1	8/27/09 12:24	WSD
,3,5-1 methylocizene	ND	0.050		ND	0.13	1	8/27/09 12:24	WSD
•	13	0.10		56	0.43	1	8/27/09 12:24	WSD
n&p-Xylene p-Xylene	3.3	0.050		14	0.22	1	8/27/09 12:24	WSD
Surrogates	% Reco			0/ DE4	C Limits			



. . ....

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

Project Location: Springfield St	Sample Description/Location:	Work Order: 09H0621
Date Received: 8/26/2009	Sub Description/Location:	Initial Vacuum(in Hg):
Field Sample #: WB-2	Canister ID:	Final Vacuum(in Hg):
Sample ID: 09H0621-05	Canister Size:	Receipt Vacuum(in Hg):
Sample Matrix: Air	Flow Controller ID:	Flow Controller Type:
Sampled: 8/25/2009 12:30	Sample Type:	Flow Controller Calibration
		RPD Pre and Post-Sampling:

	ppt	ppbv			n3	Date/Time
Analyte	Results	RĽ	Flag	Results	RL	Dilution Analyzed Analyst
4-Bromofluorobenzene (1)		96.6		70-	130	8/27/09 12:24



- . - .

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

#### ANALYTICAL RESULTS

Project Location: Springfield St Date Received: 8/26/2009 Field Sample #: MPL-6 Sample ID: 09H0621-06 Sample Matrix: Air Sampled: 8/25/2009 14:00 Sample Description/Location: Sub Description/Location: Canister ID: Canister Size: Flow Controller ID: Sample Type: Work Order: 09H0621 Initial Vacuum(in Hg): Final Vacuum(in Hg): Receipt Vacuum(in Hg): Flow Controller Type: Flow Controller Calibration RPD Pre and Post-Sampling:

	pi	obv		ug/i	m3		Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analys
Benzene	2.4	0.050		7.7	0.16	1	8/27/09 13:04	WSD
Bromomethane	ND	0.050		ND	0.19	1	8/27/09 13:04	WSD
Carbon Tetrachloride	0.093	0.050		0.59	0.31	1	8/27/09 13:04	WSD
Chlorobenzene	ND	0.050		ND	0.23	1	8/27/09 13:04	WSD
Chloroethane	ND	0.050		ND	0.13	1	8/27/09 13:04	WSD
Chloroform	0.15	0.050		0.74	0.24	1	8/27/09 13:04	WSD
Chloromethane	0.77	0.050		1.6	0.10	1	8/27/09 13:04	WSD
,2-Dibromoethane (EDB)	ND	0.050		ND	0.38	1	8/27/09 13:04	WSD
,2-Dichlorobenzene	ND	0.050		ND	0.30	1	8/27/09 13:04	WSD
,3-Dichlorobenzene	0.30	0.050		1.8	0.30	1	8/27/09 13:04	WSD
,4-Dichlorobenzene	0.27	0.050		1.6	0.30	1	8/27/09 13:04	WSD
vichlorodifluoromethane (Freon 12)	0.43	0.050		2.1	0.25	1	8/27/09 13:04	WSD
l-Dichloroethane	ND	0.050		ND	0.20	1	8/27/09 13:04	WSD
2-Dichloroethane	ND	0.050		ND	0.20	1	8/27/09 13:04	WSD
1-Dichloroethylene	ND	0.050		ND	0.20	1	8/27/09 13:04	WSD
s-1,2-Dichloroethylene	ND	0.050		ND	0.20	1	8/27/09 13:04	WSD
2-Dichloropropane	ND	0.050		ND	0.23	1	8/27/09 13:04	WSD
s-1,3-Dichloropropene	ND	0.050		ND	0.23	1	8/27/09 13:04	WSD
ans-1,3-Dichloropropene	ND	0.050		ND	0.23	1	8/27/09 13:04	WSD
2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.050		ND	0.35	1	8/27/09 13:04	WSD
hylbenzene	5.6	0.050		24	0.22	1	8/27/09 13:04	WSD
exachlorobutadiene	ND	0.050		ND	0.53	1	8/27/09 13:04	WSD
ethylene Chloride	1.9	0.20		6.7	0.69	1	8/27/09 13:04	WSD
yrene	3.2	0.050		14	0.21	1	8/27/09 13:04	WSD
1,2,2-Tetrachloroethane	ND	0.050		ND	0.34	1	8/27/09 13:04	WSD
etrachloroethylene	4.0	0.050		27	0.34	 I	8/27/09 13:04	WSD
oluene	21	0.050		80	0.19	1	8/27/09 13:04	WSD
2,4-Trichlorobenzene	ND	0.050		ND	0.37	1	8/27/09 13:04	WSD
I, I-Trichloroethane	ND	0.050		ND	0.27	1	8/27/09 13:04	WSD
1,2-Trichloroethane	ND	0.050		ND	0.27	I	8/27/09 13:04	WSD
ichloroethylene	0.098	0.050		0.53	0.27	1	8/27/09 13:04	WSD
ichlorofluoromethane (Freon 11)	0.96	0.050		5.4	0.28	1	8/27/09 13:04	WSD
1,2-Trichloro-1,2,2-trifluorocthanc (Freon 113)	0.058	0.050		0.44	0.38	1	8/27/09 13:04	WSD
2,4-Trimethylbenzene	1.6	0.050		7.7	0.25	1	8/27/09 13:04	WSD
3,5-Trimethylbenzene	0.54	0.050		2.7	0.25	I	8/27/09 13:04	WSD
nyl Chloride	0.087	0.050		0.22	0.13	1	8/27/09 13:04	WSD
&p-Xylene	15	0.10		67	0.43	1	8/27/09 13:04	WSD
Xylene	4.3	0.050		18	0.22	1	8/27/09 13:04	WSD



	ANALYTICAL RESULTS	
Project Location: Springfield St	Sample Description/Location:	Work Order: 09H0621
Date Received: 8/26/2009	Sub Description/Location:	Initial Vacuum(in Hg):
Field Sample #: MPL-6	Canister ID:	Final Vacuum(in Hg):
Sample ID: 09H0621-06	Canister Size:	Receipt Vacuum(in Hg):
Sample Matrix: Air	Flow Controller ID:	Flow Controller Type:
Sampled: 8/25/2009 14:00	Sample Type:	Flow Controller Calibration
		RPD Pre and Post-Sampling:
	EPA TO-14A	

	ppb	v		ug/1	n3		Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
4-Bromofluorobenzene (1)		96.4		70-	130		8/27/09 13:04	

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Project Location: Springfield St \_Date Received: 8/26/2009

Field Sample #: ATC-1

Sample Description:

Sampled: 8/25/2009 10:20

Sample ID: 09H0621-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Ascence         ND         50         µg1         I         SW-346 22404         B 2709         B 2709 <thb 2709<="" th="">         B 2709         <thb 2709<="" th=""></thb></thb>	Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
irt-Anyl Medny Esher (TAME)         ND         0.50         rg-L         1         SW-848 2500         K2709         52709         150           Berners         ND         1.0         pgL         1         SW-848 2200         K2709         5270								• • • • • • • • • • • • • • • • • • • •		LBD
Internet         ND         1         ggL         1         NM 448208         8270         82700<	Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Incode/name         No         And         AppL         I         SW-46 6200         R2700         ISA         I           Brenochlonenchane         ND         10         uptL         I         SW-46 6200         SZ-700         ISA         ISA           Brenochlonenchane         ND         5.0         uptL         I         SW-46 6200         SZ-700         ISA         ISA           Brenochlonenchane         ND         5.0         uptL         I         R.05         SW-46 6200         SZ-700         ISA         ISA         SZ-700         ISA         ISA         SZ-700         ISA         ISA         SZ-700         ISA         ISA         ISA         SZ-700         ISA         ISA         ISA         SZ-700         ISA	tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	J		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Breanschloromerhane         ND         LD         agl         I         SW 446 4200         R2700         R2700 <thr2700< th=""></thr2700<>	Benzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Broundeinhammethame         ND         0.30         0.40 <td>Bromobenzene</td> <td>ND</td> <td>1.0</td> <td>μg/L</td> <td>1</td> <td></td> <td>SW-846 8260B</td> <td>8/27/09</td> <td>8/27/09 15:04</td> <td>LBD</td>	Bromobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
beneform         ND         6.0         µµL         1         SW48 (6200)         62700         82709 (530)         10           2-Bonnenchane         ND         5.0         µµL         1         R-05         SW-46 62008         82709         82709 (530)         10           2-Bonnenchane         ND         5.0         µµL         1         SW-46 62008         82709         82709 (540)         10           n=Burylkenzene         ND         1.0         µµL         1         SW-46 82008         82709         82709 (540)         10           see-Burylkenzene         ND         1.0         µµL         1         SW-46 82008         82709         82709 (540)         10           tent-Burylkenzene         ND         0.0         µµL         1         SW-46 82008         82709         82709 (540)         10           tent-Burylkenzene         ND         0.0         µµL         1         SW-46 82008         82709         82709 (540)         10           tent-Burylkenzene         ND         0.0         µµL         1         SW-46 82008         82709         82709 (540)         10           Cahorobiance         ND         1.0         µµL         1         SW-46 82008	Bromochloromethane	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Broomershame         ND         Add         Impl.         R. 05         SW-446 2260         SW 2709 1560         L           2-Buannee (MEK)         ND         20         µgT.         1         SW-346 42600         82709         582709 1560         L           aert-Buryf Alcohol (TBA)         ND         20         µgT.         1         SW-346 42600         82709         582709 1560         L           aert-Buryf Maczane         ND         1.0         µgT.         1         SW-346 82600         82709         582709 1560         L           aert-Buryf Maczane         ND         1.0         µgT.         1         SW-346 82600         82709         582709	Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
2-Pathanose (MEK)         ND         20         pgL         1         NM         20         pgL         1           n=Burybenzace         ND         20         pgL         1         SW-486 82668         827.09         827.09 15.04         1           n=Burybenzace         ND         1.0         pgL         1         SW-486 82668         827.09         827.09 15.04         1           terr Burybenzace         ND         1.0         pgL         1         SW-486 82608         827.09         827.00 15.04         1           terr Burybenzace         ND         0.0         pgL         1         SW-486 82008         827.09         827.00 15.04         1           terr Burybenzace         ND         0.0         pgL         1         SW-486 82008         827.09         827.00 15.04         1           Cahon Diaridi         ND         0.0         pgL         1         SW-486 82008         827.09         827.00 15.04         1           Chonorchane         ND         1.0         pgL         1         SW-46 82008         827.09         827.09 15.04         1           Chonorchane         ND         1.0         pgL         1         SW-46 82008         827.09         827	Bromoform	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
ter-Baryl Akobal (TBA)         ND         20         gr         gr         gr         Baryl beazene         ND         1.0         gr         1.0         gr         1.0         gr         NS         852008         82700 <td>Bromomethane</td> <td>ND</td> <td>5.0</td> <td>μg/L</td> <td>1</td> <td>R-05</td> <td>SW-846 8260B</td> <td>8/27/09</td> <td>8/27/09 15:04</td> <td>LBD</td>	Bromomethane	ND	5.0	μg/L	1	R-05	SW-846 8260B	8/27/09	8/27/09 15:04	LBD
n-Burylkenzene         ND         1.0         µgL         1         SW-846 5200B         82.700         82.700         15.00         12.700           sec-Burylkenzene         ND         1.0         µgL         1         SW-846 5200B         82.700         82.700         15.00         10.0           tert-Burylkylberzene         ND         0.50         µgL         1         SW-846 5200B         82.700         82.700         15.00         10.0           Carkon Disulfide         ND         0.50         µgL         1         SW-846 5200B         82.700         82.700         82.700         82.700         15.00         10.0           Carkon Tisukhönde         ND         1.0         µgL         1         SW-846 5200B         82.700         82.	2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
ace-Butylenzene         ND         L0         µgL         I         WT-46 82000         627700         82700 15.44         L           tert-Butylenzene         ND         L0         µgL         I         SW-346 82000         82700         82700 15.44         L           tert-ButylEhyl Ehyr Ehbre (TBEE)         ND         6.0         µgL         I         SW-346 82000         82700         82700 15.44         L           Carben Disidfiéd         ND         6.0         µgL         I         SW-346 82000         82700         82700 15.44         L           Charben Disidfiéd         ND         1.0         µgL         I         SW-346 82000         82700         82700 15.44         L           Chloredhare         ND         1.0         µgL         I         SW-346 82000         82700         82700 15.44         L           Chloredhare         ND         2.0         µgL         I         SW-346 82000         82700         82700 15.44         L           Chloredhare         ND         1.0         µgL         I         SW-346 82000         82700         82700 15.44         L           Chloredhare         ND         1.0         µgL         I         SW-346 82000         8270	tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
ter-Butylenzene         ND         1.0         pgL         1         SW-46 82608         82700         82709 15.4         L           ter-Butylethyl Ehder (TBEE)         ND         6.50         µgL         1         SW-46 82608         82700         82709 15.4         L           Carbon Disalfide         ND         6.60         µgL         1         SW-46 82608         82700         82709 15.44         L           Carbon Tisalfide         ND         1.0         µgL         1         SW-46 82608         82700         82709 15.44         L           Chlorodhrononethane         ND         1.0         µgL         1         SW-46 82608         82700         82709 15.44         L           Chlorodhrononethane         ND         2.0         µgL         1         SW-46 82608         82700         82709 15.44         L           Chlorodhrononethane         ND         2.0         µgL         1         V-05         SW-46 82608         82700         82709 15.44         L           Chlorodhrononethane         ND         1.0         µgL         1         SW-46 82608         82709         82709 15.44         L           1.2-Dichlorobrity         ND         0.0         µgL         1	n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
ter-Buyl Edry (TBEE)       ND       0.50       µgL       1       SW-446 82008       82709       82709 1504       L         Carbon Disulifié       ND       6.0       µgL       1       SW-446 82008       82709       82709 1504       L         Carbon Disulifié       ND       1.0       µgL       1       SW-446 82008       82709       82709 1504       L         Chlorodistromornethane       ND       1.0       µgL       1       SW-846 82008       82709       82709 1504       L         Chlorodistromornethane       ND       2.0       µgL       1       SW-846 82008       82709       82709 1504       L         Chlorodistromornethane       ND       2.0       µgL       1       V-05       SW-846 82008       82709       82709 1504       L         Chlorodistromornethane       ND       1.0       µgL       1       V-05       SW-846 82008       82709       82709 1504       L         2-Chlorodistromornethane       ND       1.0       µgL       1       V-05       SW-846 82008       82709       82709 1504       L         1-2-Dibromornethane (EDBP)       ND       1.0       µgL       1       SW-846 82008       82709       82709 1504	sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Carbon Disulfide         ND         6.0         µg/L         1         SNW 446 82068         82700         82700 1504         L           Carbon Tetrachloride         ND         1.0         µg/L         1         SNW 446 82068         82700         82700 1504         L           Chlorobharzne         ND         1.0         µg/L         1         SNW 446 82068         82700         82700 1504         L           Chlorotharzne         ND         1.0         µg/L         1         SNW 446 82068         82700         82700 1504         L           Chlorotharen         ND         2.0         µg/L         1         V.05         SNW 446 82068         82700         82700 1504         L           Chlorotharen         ND         2.0         µg/L         1         V.05         SNW 446 82068         82700         82700 1504         L           Chlorotharen         ND         1.0         µg/L         1         SNW 446 82068         82700         82700 1504         L           12-Dibromothare (DBCP)         ND         5.0         µg/L         1         SW 464 82068         82709         82709 1504         L           12-Dibromothare (DBCP)         ND         5.0         µg/L         <	tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Carbon Tetrachloride       ND       1.0       µgL       1       SNR 46 82:00       82.70       82.700       15.0       4.1         Chlorodintononethane       ND       1.0       µgL       1       SNR 46 82:00       82.700       82.700       15.0       4.1         Chlorodintononethane       ND       2.0       µgL       1       SNR 46 82:00       82.700       82.700       15.0       4.1         Chlorodintonethane       ND       2.0       µgL       1       SNR 46 82:00       82.700       82.700       15.0       4.1         Chlorodintane       ND       2.0       µgL       1       V-05       SNR 46 82:00       82.700       82.700       15.0       4.1         Chlorodintane       ND       1.0       µgL       1       SNR 46 82:00       82.700       82.700       15.0       4.1         1.2-Ditonona-chloropropane(DBCP)       ND       5.0       µgL       1       SNR 46 82:00       82.700       82.700       15.0       1.1         1.2-Ditonona-chloropropane(DBCP)       ND       5.0       µgL       1       SNR 46 82:00       82.700       82.700       15.0       1.1         1.2-Dichloronbane       ND       1.0       µgL <td>tert-Butyl Ethyl Ether (TBEE)</td> <td>ND</td> <td>0.50</td> <td>μg/L</td> <td>1</td> <td></td> <td>SW-846 8260B</td> <td>8/27/09</td> <td>8/27/09 15:04</td> <td>LBD</td>	tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Chloroberzene         ND         L.0         µg/L         I         SW-86 8260B         82709         82709 15.04         LL           Chloroberzene         ND         1.0         µg/L         1         SW-86 8260B         82709         82709 15.04         LL           Chloroberane         ND         2.0         µg/L         1         SW-86 8260B         82709         82709 15.04         LL           Chloroberane         ND         2.0         µg/L         1         SW-86 8260B         82709         82709 15.04         LL           Chloroofma         ND         2.0         µg/L         1         V-05         SW-86 8260B         82709         82709 15.04         LL           Chloroofma         ND         2.0         µg/L         1         SW-846 8260B         82709         82709 15.04         LL           Chloroofschane         ND         1.0         µg/L         1         SW-846 8260B         82709         82709 15.04         LL           1.2-Dichoroors-schloropropane (DECP)         ND         5.0         µg/L         1         SW-846 8260B         82709         82709 15.04         LL           1.2-Dichorochane         ND         1.0         µg/L         1         SW	Carbon Disulfide	ND	6.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Chlorodibromonethane       ND       L0       µg/L       1       SW-46.8260B       827/09       827/09       15.04       L1         Chlorodibromonethane       ND       2.0       µg/L       1       SW-46.8260B       827/09       827/09       15.04       L1         Chlorodibromonethane       ND       2.0       µg/L       1       SW-46.8260B       827/09       827/09       15.04       L1         Chlorodibromothane       ND       2.0       µg/L       1       V-05       SW-46.8260B       827/09       827/09       15.04       L1         2-Chlorodibane       ND       1.0       µg/L       1       SW-46.8260B       827/09       827/09       15.04       L1         1.2-Dibromothane (DBCP)       ND       5.0       µg/L       1       SW-84.8260B       827/09       827/09       15.04       L1         1.2-Dibromothane (DBD)       ND       0.50       µg/L       1       SW-84.8260B       827/09       827/09       15.04       L1         1.2-Dibromothane       ND       1.0       µg/L       1       SW-84.8260B       827/09       827/09       15.04       L1         1.2-Dibrlorodbarzene       ND       1.0       µg/L       <	Carbon Tetrachloride	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Chloroethane       ND       2.0       µg/L       1       SN-846 82608       827/09       827/09       15/4       L         Chloroethane       ND       2.0       µg/L       1       SN-846 82608       827/09       827/09       15/4       L         Chloroothane       ND       2.0       µg/L       1       V-05       SN-846 82608       827/09       827/09       15/4       L         2-Chloroothene       ND       1.0       µg/L       1       SN-846 82608       827/09       827/09       15/4       L         1-2-Dibrono-3-chloropropane (DBCP)       ND       5.0       µg/L       1       SN-846 82608       827/09       827/09       15/4       L         1-2-Dibrono-scharopropane (DBCP)       ND       5.0       µg/L       1       SN-846 82608       827/09       827/09       15/4       L         1-2-Dibrono-schare (EDB)       ND       0.50       µg/L       1       SN-846 82608       827/09       827/09       15/4       L         1-2-Dichlorobenzene       ND       1.0       µg/L       1       SN-846 82608       827/09       827/09       15/4       L         1-4-Dichlorobenzene       ND       1.0       µg/L <td< td=""><td>Chlorobenzene</td><td>ND</td><td>1.0</td><td>μg/L</td><td>1</td><td></td><td>SW-846 8260B</td><td>8/27/09</td><td>8/27/09 15:04</td><td>LBD</td></td<>	Chlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Chloroform       ND       2.0       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         Chloroform       ND       2.0       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         Chloroform       ND       1.0       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         2-Chlorofoluene       ND       1.0       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         1.2-Diforomo-3-chloroponae (DBCP)       ND       5.0       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         1.2-Diforomo-shchoroponae (DBCP)       ND       0.50       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         1.2-Difolorobenzene       ND       1.0       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         1.3-Dichlorobenzene       ND       1.0       µg/L       1       SN-846 82008       827/09       827/09       15/4       L         1.4-Dichlorobenzene       ND       1.0       µg/L       1       SN-846 82008<	Chlorodibromomethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
ChloromethaneND2.0 $\mu g/L$ 1V-05SW-846 8260B827.0982.7109 15.04L12-ChlorotolueneND1.0 $\mu g/L$ 1SW-846 8260B827.0982.7109 15.04L14-ChlorotolueneND1.0 $\mu g/L$ 1SW-846 8260B827.0982.7109 15.04L11.2-Dibromo-3-chloropropane (DBCP)ND5.0 $\mu g/L$ 1SW-846 8260B827.0982.7109 15.04L11.2-Dibromoethane (EDB)ND0.50 $\mu g/L$ 1SW-846 8260B827.0982.7109 15.04L11.2-Dibromoethane (EDB)ND1.0 $\mu g/L$ 1SW-846 8260B82.70982.7109 15.04L11.4-DibriborbenzeneND1.0 $\mu g/L$ 1SW-846 8260B82.70982.7109 15.04L11.4-DibriborbenzeneND1.0 $\mu g/L$ 1SW-846 8260B82.70982.7109 15.04L11.4-DibriborbenzeneND1.0 $\mu g/L$ 1SW-846 8260B82.70982.709 15.04L11.4-DibriborbenzeneND1.0 $\mu g/L$ 1SW-846 8260B82.70982.709 15.04L	Chloroethane	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
2-ChlorotolueneND1.0 $\mu g/L$ 1SNR 46 260B $8/27/09$ <	Chloroform	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
4-Chlorotoluene       ND       1.0       µg/L       1       SW-846 8260B       8.27109       8.27109       15.04       L1         1,2-Dibromo-3-chloropropane (DBCP)       ND       5.0       µg/L       1       SW-846 8260B       8.27109       8.27109       15.04       L1         1,2-Dibromo-3-chloropropane (DBCP)       ND       0.50       µg/L       1       SW-846 8260B       8.27109       8/27109       15.04       L1         1,2-Dibromo-thane (EDB)       ND       1.0       µg/L       1       SW-846 8260B       8/2709       8/27109       5/20       1/2         1,3-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/2709       8/27109       1/2       L1         1,4-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/2709       8/2709       1/2       L1         1,4-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/2709       8/2709       1/2       L1         1,1-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/2709       8/2709       1/2       L1         1,1-Dichloroethylene       ND       1.0	Chloromethane	ND	2.0	μg/L	1	V-05	SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1.2-Dibromo-3-ehloropropane (DBCP)       ND       5.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2         1.2-Dibromoethane (EDB)       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       1/2         Dibromoethane (EDB)       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       1/2         1.2-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       1/2         1.4-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       1/2         1.4-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       1/2         Dichlorodifluoromethane (Fren 12)       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       1/2         1.1-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       1/2         1.2-Dichloroethylene       ND       1.0       µg/L <td>2-Chlorotoluene</td> <td>ND</td> <td>1.0</td> <td>μg/L</td> <td>I</td> <td></td> <td>SW-846 8260B</td> <td>8/27/09</td> <td>8/27/09 15:04</td> <td>LBD</td>	2-Chlorotoluene	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1.2-Dibromoethane (EDB)       ND       0.50       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         Dibromomethane       ND       1.0       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         1.2-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         1.3-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         1.4-Dichloro-2-butene       ND       2.0       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         1.1-Dichloro-2-butene       ND       2.0       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         1.1-Dichloro-2-butene       ND       1.0       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         1.1-Dichloro-2-butene       ND       1.0       µg/L       1       SW-846 8200B       8/27/09       8/27/09       15.04       LL         1.1-Dichloro-2-butene       ND       1.0       µg/L<	4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Dibromomethane         ND         1.0         µg/L         1         SW-846 8260B         8/27/09         8/27/09         1/2/10/11/11	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1.2-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L         1.3-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L       L         1.4-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L       L         1.4-Dichlorobenzene       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L         Dichlorodifluoromethane (Freen 12)       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L         1.1-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L         1.2-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L         1.1-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1/2       L         1.2-Dichloroethylene       ND       1.0	1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1.3-DichlorobenzeneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,4-Dichloro-2-buteneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L FDichlorodifluoromethane (Freon 12)ND2.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,1-Dichloro-2-buteneND2.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,1-Dichloromethane (Freon 12)ND2.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,2-DichloroethaneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,1-DichloroethyleneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,1-DichloroethyleneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,2-DichloroethyleneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,2-DichloroethyleneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,2-DichloroethyleneND1.0µg/L1SW-846 8260B8/27/098/27/0915:04L F1,2-DichloroethyleneND0.50µg/L1SW-846 8260B8/27/098/27/0915:04L F1,1-DichloropropeneND0.50 <t< td=""><td>Dibromomethane</td><td>ND</td><td>1.0</td><td>μg/L</td><td>1</td><td></td><td>SW-846 8260B</td><td>8/27/09</td><td>8/27/09 15:04</td><td>LBD</td></t<>	Dibromomethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,4-Dichlorobenzene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       Left         trans-1,4-Dichloro-2-butene       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       8/27/09       15.04       Left         Dichlorodifluoromethane (Freon 12)       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       8/27/09       15.04       Left         1,1-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       Left         1,2-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       Left         1,1-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       Left         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       Left         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       Left         1	1,2-Dichlorobenzenc	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
trans-1,4-Dichloro-2-butene       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         Dichlorodifluoromethane (Freon 12)       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         1,1-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         1,2-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         1,1-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         1,2-Dichloroethylene       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15.04       LF         1,2-Dichloropropane       ND       0.50 <td>1,3-Dichlorobenzene</td> <td>ND</td> <td>1.0</td> <td>μg/L</td> <td>1</td> <td></td> <td>SW-846 8260B</td> <td>8/27/09</td> <td>8/27/09 15:04</td> <td>LBD</td>	1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Dichlorodifluoromethane (Freon 12)       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,1-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,1-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         cis-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         trans-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         2,2-Dichloropropane       ND       0.0 <td>1,4-Dichlorobenzene</td> <td>ND</td> <td>1.0</td> <td>μg/L</td> <td>1</td> <td></td> <td>SW-846 8260B</td> <td>8/27/09</td> <td>8/27/09 15:04</td> <td>LBD</td>	1,4-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,1-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       5:20       Le         1,2-Dichloroethane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       5:20       Le         1,1-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       5:20       Le         cis-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       5:04       Le         trans-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       5:04       Le         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       5:04       Le         1,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1:0       1         1,3-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       1:0       1         1,1-Dichloropropane       ND       1.0       µg/L	trans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,2-Dichloroethanc       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,1-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         cis-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         trans-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,3-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         2,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,1-Dichloropropene       ND       0.50 <td< td=""><td>Dichlorodifluoromethane (Freon 12)</td><td>ND</td><td>2.0</td><td>μg/L</td><td>1</td><td></td><td>SW-846 8260B</td><td>8/27/09</td><td>8/27/09 15:04</td><td>LBD</td></td<>	Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,1-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         cis-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         trans-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,3-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         2,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,1-Dichloropropene       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         cis-1,3-Dichloropropene       ND       0.50	I,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
cis-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         trans-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,2-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         2,2-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,1-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         1,1-Dichloropropane       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         cis-1,3-Dichloropropene       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       Le         trans-1,3-Dichloropropene       ND       0.50 <td>1,2-Dichloroethane</td> <td>ND</td> <td>1.0</td> <td>μg/L</td> <td>1</td> <td></td> <td>SW-846 8260B</td> <td>8/27/09</td> <td>8/27/09 15:04</td> <td>LBD</td>	1,2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
trans-1,2-Dichloroethylene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE         1,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE         1,3-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE         2,2-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE         1,1-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE         1,1-Dichloropropane       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE         cis-1,3-Dichloropropene       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE         trans-1,3-Dichloropropene       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LE	1,1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LB         1,3-Dichloropropane       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LB         2,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LB         2,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LB         1,1-Dichloropropene       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LB         cis-1,3-Dichloropropene       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LB         trans-1,3-Dichloropropene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09       15:04       LB	cis-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09 15:04       LB         2,2-Dichloropropane       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09 15:04       LB         1,1-Dichloropropane       ND       2.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09 15:04       LB         cis-1,3-Dichloropropene       ND       0.50       µg/L       1       SW-846 8260B       8/27/09       8/27/09 15:04       LB         trans-1,3-Dichloropropene       ND       1.0       µg/L       1       SW-846 8260B       8/27/09       8/27/09 15:04       LB	trans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
2,2-Dichloropropane       ND       1.0       µg/L       I       SW-846 8260B       8/27/09       8/27/09 15:04       LB         1,1-Dichloropropene       ND       2.0       µg/L       I       SW-846 8260B       8/27/09       8/27/09 15:04       LB         cis-1,3-Dichloropropene       ND       0.50       µg/L       I       SW-846 8260B       8/27/09       8/27/09 15:04       LB         trans-1,3-Dichloropropene       ND       1.0       µg/L       I       SW-846 8260B       8/27/09       8/27/09 15:04       LB	1,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
ND         2.0         μg/L         I         SW-846 8260B         8/27/09         8/27/09         15:04         LB           cis-1,3-Dichloropropene         ND         0.50         μg/L         I         SW-846 8260B         8/27/09         8/27/09         15:04         LB           trans-1,3-Dichloropropene         ND         1.0         μg/L         I         SW-846 8260B         8/27/09         8/27/09         15:04         LB	1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
cis-1,3-Dichloropropene         ND         0.50         μg/L         1         SW-846 8260B         8/27/09         8/27/09         15:04         LB           trans-1,3-Dichloropropene         ND         1.0         μg/L         1         SW-846 8260B         8/27/09         8/27/09         15:04         LB	2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
trans-1,3-Dichloropropene ND 1.0 μg/L 1 SW-846 8260B 8/27/09 8/27/09 15:04 LB	1,1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
	cis-1,3-Dichloropropene	ND	0.50	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
	trans-1,3-Dichloropropene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Diethyl Ether ND 2.0 µg/L I SW-846 8260B 8/27/09 8/27/09 15:04 LB	Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD

Work Order: 09H0621



Volatile Organic Compounds by GC/MS

Project Location: Springfield St Date Received: 8/26/2009 Field Sample #: ATC-1

Sample ID: 09H0621-01

Sample Matrix: Ground Water

Sampled: 8/25/2009 10:20

Sample Description:

					· -		Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Hexachlorobutadiene	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Methylene Chloride	ND	5.0	μg/L	1	L-04, V-05	SW-846 8260B	8/27/09	8/27/09 15:04	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Naphthalene	ND	3.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Styrene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Toluene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Vinyl Chloride	ND	2.0	μg/L	ł		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
m+p Xylene	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
o-Xylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:04	LBD
Surrogates		% Recovery	Recovery Limits		Flag				
1,2-Dichloroethane-d4		82.6	70-130					8/27/09 15:04	
Toluene-d8		99.0	70-130					8/27/09 15:04	
4-Bromofluorobenzene		102	70-130					8/27/09 15:04	

Work Order: 09H0621



Project Location: Springfield St Date Received: 8/26/2009 Field Sample #: ATC-4 Sample Description:

Sampled: 8/25/2009 11:20

Sample ID: 09H0621-02 Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Acetone Acrylonitrile tert-Amyl Methyl Ether (TAME) Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE) Carbon Disulfide	ND ND ND ND ND ND ND ND ND ND ND ND ND	50 5.0 0.50 1.0 1.0 1.0 0.50 2.0 5.0 20 20 1.0 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1 1 1 1 1 1 1 1 1 1 1 1 1	R-05	SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34	LBD LBD LBD LBD LBD LBD LBD LBD LBD
tert-Amyl Methyl Ether (TAME) Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene	ND ND ND ND ND ND ND ND ND ND	0.50 1.0 1.0 0.50 2.0 5.0 20 20 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1 1 1 1 1 1 1 1 1	R-05	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34	LBD LBD LBD LBD LBD LBD LBD
Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene	ND ND ND ND ND ND ND ND ND	1.0 1.0 0.50 2.0 5.0 20 20 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1 1 1 1 1 1 1	R-05	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34	LBD LBD LBD LBD LBD LBD
Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND ND ND ND ND ND	1.0 1.0 0.50 2.0 5.0 20 20 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1 1 1 1 1 1 1	R-05	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34	LBD LBD LBD LBD LBD LBD
Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene	ND ND ND ND ND ND ND ND	1.0 0.50 2.0 5.0 20 20 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L	1 1 1 1 1	R-05	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34	LBD LBD LBD LBD LBD
Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND ND ND ND ND	0.50 2.0 5.0 20 20 1.0 1.0	μg/L μg/L μg/L μg/L μg/L	1 1 1 1	R-05	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34 8/27/09 15:34 8/27/09 15:34	LBD LBD LBD LBD
Bromoform Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND ND ND ND	2.0 5.0 20 1.0 1.0	μg/L μg/L μg/L μg/L μg/L	1 1 1	R-05	SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34 8/27/09 15:34	LBD LBD LBD
Bromomethane 2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND ND ND ND	5.0 20 20 1.0	μg/L μg/L μg/L μg/L	1 1 1	R-05	SW-846 8260B SW-846 8260B	8/27/09 8/27/09	8/27/09 15:34 8/27/09 15:34	LBD LBD
2-Butanone (MEK) tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND ND ND	20 20 1.0 1.0	μg/L μg/L μg/L	1	R-05	SW-846 8260B	8/27/09	8/27/09 15:34	LBD
tert-Butyl Alcohol (TBA) n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND ND	20 1.0 1.0	μg/L μg/L	1					
n-Butylbenzene sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND ND	1.0 1.0	μg/L			SW-846 8260B	8/27/09	9/37/00 15:24	
sec-Butylbenzene tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND ND	1.0		1				8/27/09 15:34	LBD
tert-Butylbenzene tert-Butyl Ethyl Ether (TBEE)	ND ND		μg/L			SW-846 8260B	8/27/09	8/27/09 15:34	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0		1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
			μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Carbon Disulfida	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Caroon Disumue		6.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Carbon Tetrachloride	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Chlorobenzene	1.0	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Chlorodibromomethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Chloroethane	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Chłoroform	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Chloromethane	ND	2.0	μg/L	1	V-05	SW-846 8260B	8/27/09	8/27/09 15:34	LBD
-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
,4-Dichlorobenzene	1.5	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
ans-1,4-Dichloro-2-butene	ND	. 2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
ichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
I-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
2-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
s-1,2-Dichloroethylene	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
ans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260B		8/27/09 15:34	LBD
2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260B			
1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260B		8/27/09 15:34	LBD
s-1,3-Dichloropropene	ND	0.50	μg/L μg/L	1				8/27/09 15:34	LBD
ans-1,3-Dichloropropene	ND	1.0				SW-846 8260B		8/27/09 15:34	LBD
iethyl Ether	ND	2.0	μg/L μg/L	1		SW-846 8260B SW-846 8260B		8/27/09 15:34 8/27/09 15:34	LBD LBD

Work Order: 09H0621



Work Order: 09H0621

Date Received: 8/26/2009

Project Location: Springfield St

Sampled: 8/25/2009 11:20

Field Sample #: ATC-4 Sample ID: 09H0621-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

		10	name Organic Com	pounds by c	icinis				
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag	Method	Prepared	Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Hexachlorobutadiene	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
2-Hexanone (MBK)	ND	10	μg/L	1	ż	SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Methylene Chloride	ND	5.0	μg/L	1	L-04, V-05	SW-846 8260B	8/27/09	8/27/09 15:34	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Naphthalene	ND	3.0	μg/L	J		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Styrene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Toluene	ND	1.0	μg/L	. 1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Trichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
(Freon 113) 1,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Vinyl Chloride	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
m+p Xylene	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
o-Xylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 15:34	LBD
Surrogates		% Recovery	Recovery Limits		Flag				
1,2-Dichloroethane-d4		77.2	70-130					8/27/09 15:34	
Toluene-d8		105	70-130					8/27/09 15:34	
4-Bromofluorobenzene		96.0	70-130					8/27/09 15:34	



Work Order: 09H0621

Project Location: Springfield St Date Received: 8/26/2009 Field Sample #: ATC-5

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Sampled: 8/25/2009 12:00

Sample ID: 09H0621-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte         Results         RL         Units         Dilution         Flag           Acctoon         ND         50 $\mu g/L$ 1           Actrolominic         ND         5.0 $\mu g/L$ 1           tert-Amyl Methyl Ether (TAME)         ND         0.50 $\mu g/L$ 1           Bromocharce         ND         1.0 $\mu g/L$ 1           Bromocharce         ND         0.0 $\mu g/L$ 1           Bromocharce         ND         0.50 $\mu g/L$ 1           Bromocharce         ND         2.0 $\mu g/L$ 1           Bromocharce         ND         1.0 $\mu g/L$ 1           tert-Buryl Alcohol (TBA)         ND         2.0 $\mu g/L$ 1           tert-Buryl Alcohol (TBA)         ND         0.50 $\mu g/L$ 1           tert-Buryl Bacarce         ND         1.0 $\mu g/L$	Method SW-846 8260B SW-846 8260B	Prepared 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	Analyzed 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05	Analyst LBD LBD LBD LBD LBD LBD LBD
Acrylonitrile       ND       5.0       µg/L       1         tert-Amyl Methyl Ether (TAME)       ND       0.50       µg/L       1         Benzene       ND       1.0       µg/L       1         Bromochloromethane       ND       1.0       µg/L       1         Bromochloromethane       ND       0.50       µg/L       1         Bromochloromethane       ND       5.0       µg/L       1         Bromochloromethane       ND       2.0       µg/L       1         exBuylbenzene       ND       1.0       µg/L       1         exBuylbenzene       ND       1.0       µg/L       1         Chlorodiffde       ND       1.0       µg/L       1         Chlorodiffde       ND       1.0       µg/L       1         Chlorodi	SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05	LBD LBD LBD LBD LBD LBD
Benzene       ND       1.0 $\mu gL$ 1         Bromobenzene       ND       1.0 $\mu gL$ 1         Bromochloromethane       ND       0.50 $\mu gL$ 1         Bromodichloromethane       ND       2.0 $\mu gL$ 1         Bromodichloromethane       ND       5.0 $\mu gL$ 1         Bromodichloromethane       ND       2.0 $\mu gL$ 1         Bromodichloromethane       ND       1.0 $\mu gL$ 1         Bromodichloromethane       ND       1.0 $\mu gL$ 1         set-Butylbenzene       ND       1.0 $\mu gL$ 1         tert-Butyl Ehyl Eher (TBEE)       ND       0.50 $\mu gL$ 1         Calborobrazene       ND       1.0 $\mu gL$ 1         Chlorodiromonethane       ND       2.0 $\mu gL$ 1         Chlorodinone       ND       2.0 $\mu gL$ <td>SW-846 8260B SW-846 8260B</td> <td>8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09</td> <td>8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05</td> <td>LBD LBD LBD LBD LBD</td>	SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05	LBD LBD LBD LBD LBD
Bromobenzene         ND         1.0         µg'L         1           Bromochloromethane         ND         1.0         µg'L         1           Bromochloromethane         ND         0.50         µg'L         1           Bromochloromethane         ND         2.0         µg'L         1           Bromochoromethane         ND         1.0         µg'L         1           Ietr-Burylbenzene         ND         1.0         µg'L         1           Carbon Disulfide         ND         0.50         µg'L         1           Chorobenzene         ND         1.0         µg'L         1           Chlorobenzene         ND         1.0         µg'L         1           Chlorobenzene         ND         1.0         µg'L         1           <	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 16:05 8/27/09 16:05 8/27/09 16:05 8/27/09 16:05	LBD LBD LBD LBD
Bromochloromethane         ND         1.0         µg/L         1           Bromodichloromethane         ND         0.50         µg/L         1           Bromodichloromethane         ND         5.0         µg/L         1           Bromodichloromethane         ND         5.0         µg/L         1           Bromodichloromethane         ND         5.0         µg/L         1           Bromodichloromethane         ND         2.0         µg/L         1           Itert-Butylebnzene         ND         1.0         µg/L         1           Itert-Butylebnzene         ND         0.50         µg/L         1           Carbon Disulfide         ND         0.0         µg/L         1           Chlorobetnzene         ND         1.0         µg/L         1           Chlorobethane         ND         2.0         µg/L         1           Chlorobethane         ND         1.0         µg/L         1 <td>SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B</td> <td>8/27/09 8/27/09 8/27/09 8/27/09</td> <td>8/27/09 16:05 8/27/09 16:05 8/27/09 16:05</td> <td>LBD LBD LBD</td>	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 16:05 8/27/09 16:05 8/27/09 16:05	LBD LBD LBD
BromochloromethaneND1.0µµ/L1BromodichloromethaneND0.50µµ/L1BromodichloromethaneND2.0µµ/L1BromodichloromethaneND5.0µµ/L1BromodichloromethaneND2.0µµ/L1Cablanone (MEK)ND2.0µµ/L1tert-Butyl Alcohol (TBA)ND2.0µµ/L1re-ButylbenzeneND1.0µµ/L1tert-Butyl Ether (TBEE)ND0.50µµ/L1Carbon DisulfideND1.0µµ/L1Carbon DisulfideND1.0µµ/L1ChlorobhaneND1.0µµ/L1ChlorobhaneND1.0µµ/L1ChlorobhaneND1.0µµ/L1ChlorobhaneND1.0µµ/L1ChlorobhaneND2.0µµ/L1ChlorobhaneND2.0µµ/L1ChlorobhaneND2.0µµ/L12.0µµ/L1.0µµ/L11.2-DibromonethaneND1.0µµ/L11.2-DibromonethaneND1.0µµ/L11.2-DibromonethaneND1.0µµ/L11.2-DibromonethaneND1.0µµ/L11.2-DibromonethaneND1.0µµ/L11.2-DibromonethaneND1.0µµ/L11.2-DibromonethaneND </td <td>SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B</td> <td>8/27/09 8/27/09 8/27/09 8/27/09</td> <td>8/27/09 16:05 8/27/09 16:05</td> <td>LBD LBD</td>	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09 8/27/09	8/27/09 16:05 8/27/09 16:05	LBD LBD
Bromoform         ND         2.0         µg/L         1           Bromoomethane         ND         5.0         µg/L         1         R-05           2-Butanone (MEK)         ND         20         µg/L         1           tert-Butyl Alcohol (TBA)         ND         20         µg/L         1           n-Butylbenzene         ND         1.0         µg/L         1           sec-Butylbenzene         ND         1.0         µg/L         1           tert-Butyl Ethyl Ether (TBEE)         ND         0.50         µg/L         1           Carbon Disulfide         ND         1.0         µg/L         1           Carbon Disulfide         ND         1.0         µg/L         1           Chlorodhromomethane         ND         1.0         µg/L         1           Chlorodhromomethane         ND         2.0         µg/L         1           Chlorodhromomethane         ND         2.0         µg/L         1           Chlorodhromomethane         ND         1.0         µg/L         1           Chlorodhromomethane         ND         1.0         µg/L         1           L2-Dibromomethane         ND         1.0         µg/L	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09 8/27/09	8/27/09 16:05	LBD
ND         S.0         µg/L         I         R-05           2-Butanone (MEK)         ND         20         µg/L         I         R-05           1 tert-Butyl Alcohol (TBA)         ND         20         µg/L         I         I           n-Butylbenzene         ND         1.0         µg/L         I         I           sec-Butylbenzene         ND         1.0         µg/L         I         I           tert-Butyl Ether (TBEE)         ND         0.50         µg/L         I         I           Carbon Disulfide         ND         1.0         µg/L         I         I         I           Chlorobenzene         ND         2.0         µg/L         I         I         I           Chlorobenzene         ND         1.0         µg/L         I         I         I           Chlorobenzene         ND         1.0         µg/L	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09 8/27/09		
2-Butanone (MEK)         ND         20         µg/L         1           tert-Butyl Alcohol (TBA)         ND         20         µg/L         1           n-Butylbenzene         ND         1.0         µg/L         1           sec-Butylbenzene         ND         1.0         µg/L         1           tert-Butylbenzene         ND         1.0         µg/L         1           tert-Butyl Ethyl Ether (TBEE)         ND         0.50         µg/L         1           Carbon Disulfide         ND         1.0         µg/L         1           Chlorobenzene         ND         1.0         µg/L         1           Chlorobformomethane         ND         1.0         µg/L         1           Chloroofform         ND         2.0         µg/L         1           Chloroofform         ND         1.0         µg/L         1           Chloroofform         ND         0.0         µg/L         1           1.2	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09		LBD
tert-Butyl Alcohol (TBA)       ND       20       µg/L       1         n-Butylbenzene       ND       1.0       µg/L       1         sec-Butylbenzene       ND       1.0       µg/L       1         tert-Butyl Ether (TBEE)       ND       0.50       µg/L       1         Carbon Disulfide       ND       1.0       µg/L       1         Carbon Disulfide       ND       1.0       µg/L       1         Chlorobenzene       ND       1.0       µg/L       1         Chlorodibromomethane       ND       1.0       µg/L       1         Chlorodibromomethane       ND       2.0       µg/L       1         Chlorodibrene       ND       1.0       µg/L       1         Chlorodibrene       ND       1.0       µg/L       1         Chlorodibrene       ND       2.0       µg/L       1         Chlorodibrene       ND       1.0       µg/L       1         V-05       2-Chlorodibrene       ND       1.0       µg/L       1         1.2-Dibromo-3-chloropropane (DBCP)       ND       5.0       µg/L       1         1.2-Dibromoethane       ND       1.0       µg/L       1	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B		8/27/09 16:05	LBD
n-Butylbenzene       ND       1.0       µg/L       1         sec-Butylbenzene       ND       1.0       µg/L       1         tert-Butylbenzene       ND       0.50       µg/L       1         Carbon Disulfide       ND       6.0       µg/L       1         Carbon Disulfide       ND       1.0       µg/L       1         Carbon Disulfide       ND       1.0       µg/L       1         Chlorobenzene       ND       1.0       µg/L       1         Chlorodibromomethane       ND       2.0       µg/L       1         Chlorodibrenzene       ND       1.0       µg/L       1         Chlorodine       ND       2.0       µg/L       1       V-05         2-Chlorotoluene       ND       1.0       µg/L       1       V-05         1_1-2-Dibromo-3-chloropropane (DBCP)       ND       5.0       µg/L       1       I         1_2-Dichloro	SW-846 8260B SW-846 8260B SW-846 8260B SW-846 8260B		8/27/09 16:05	LBD
sec-Butylbenzene         ND         1.0         µg/L         1           tert-Butylbenzene         ND         1.0         µg/L         1           tert-Butyl Ethyl Ether (TBEE)         ND         6.0         µg/L         1           Carbon Disulfide         ND         6.0         µg/L         1           Carbon Disulfide         ND         6.0         µg/L         1           Chlorodbromomethane         ND         1.0         µg/L         1           Chlorodbromomethane         ND         1.0         µg/L         1           Chlorodbromomethane         ND         2.0         µg/L         1           Chlorodbromomethane         ND         2.0         µg/L         1           Chlorodbromomethane         ND         2.0         µg/L         1           Chlorodbrane         ND         1.0         µg/L         1           Chlorodbrane         ND         1.0         µg/L         1           Chlorodbrane         ND         1.0         µg/L         1           1.2-Dibrono-3-chloropropane (DBCP)         ND         5.0         µg/L         1           1.2-Dichlorobenzene         ND         1.0         µg/L         <	SW-846 8260B SW-846 8260B SW-846 8260B	8/27/09	8/27/09 16:05	LBD
tert-Butylbenzene         ND         1.0         µg/L         1           tert-Butyl Ethyl Eth	SW-846 8260B SW-846 8260B	8/27/09	8/27/09 16:05	LBD
trt-Butyl Ethyl Ethyr (TBEE)       ND       0.50       μg/L       1         Carbon Disulfide       ND       6.0       μg/L       1         Carbon Disulfide       ND       1.0       μg/L       1         Chlorobenzene       ND       1.0       μg/L       1         Chlorodibromornethane       ND       1.0       μg/L       1         Chlorodibromornethane       ND       2.0       μg/L       1         Chlorodibromornethane       ND       2.0       μg/L       1         Chlorodibromornethane       ND       2.0       μg/L       1         Chlorodibromornethane       ND       1.0       μg/L       1         Chlorodoluene       ND       1.0       μg/L       1         2-Chlorotoluene       ND       1.0       μg/L       1         1,2-Dibromo-3-chloropropane (DBCP)       ND       5.0       μg/L       1         1,2-Dibromoethane (EDB)       ND       1.0       μg/L       1         1,2-Dibromoethane (EDB)       ND       1.0       μg/L       1         1,3-Dichlorobenzene       ND       1.0       μg/L       1         1,4-Dichloro-2-butene       ND       2.0 <td< td=""><td>SW-846 8260B</td><td>8/27/09</td><td>8/27/09 16:05</td><td>LBD</td></td<>	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Carbon Disulfide         ND         6.0         µg/L         1           Carbon Tetrachloride         ND         1.0         µg/L         1           Chlorobenzene         ND         1.0         µg/L         1           Chlorobenzene         ND         1.0         µg/L         1           Chlorodibromomethane         ND         1.0         µg/L         1           Chlorodibromomethane         ND         2.0         µg/L         1           Chloromethane         ND         1.0         µg/L         1           Chlorotoluene         ND         1.0         µg/L         1           1,2-Dibromo-3-chloropropane (DBCP)         ND         5.0         µg/L         1           1,2-Dibromoethane (EDB)         ND         0.50         µg/L         1           1,2-Dichlorobenzene         ND         1.0         µg/L         1           1,3-Dichlorobenzene         ND         1.0         µg/L		8/27/09	8/27/09 16:05	LBD
Carbon Tetrachloride         ND         1.0         µg/L         1           Carbon Tetrachloride         ND         1.0         µg/L         1           Chlorodibromornethane         ND         1.0         µg/L         1           Chlorodibromornethane         ND         2.0         µg/L         1           Chlorodibromornethane         ND         2.0         µg/L         1           Chloroform         ND         2.0         µg/L         1           Chlorodibromornethane         ND         2.0         µg/L         1           Chlorodibromornethane         ND         2.0         µg/L         1           Chlorodoluene         ND         1.0         µg/L         1           Chlorotoluene         ND         1.0         µg/L         1           1,2-Dibromo-3-chloropropane (DBCP)         ND         5.0         µg/L         1           1,2-Dibromoethane (EDB)         ND         1.0         µg/L         1           1,2-Dichlorobenzene         ND         1.0         µg/L         1           1,3-Dichlorobenzene         ND         2.0         µg/L         1           1,4-Dichloro-2-butene         ND         2.0         µ		8/27/09	8/27/09 16:05	LBD
Chlorobenzene         ND         1.0         µg/L         1           Chlorodibromomethane         ND         1.0         µg/L         1           Chlorodibromomethane         ND         2.0         µg/L         1           Chlorodibromomethane         ND         2.0         µg/L         1           Chloroform         ND         2.0         µg/L         1           Chloromethane         ND         2.0         µg/L         1           Chlorotoluene         ND         2.0         µg/L         1         V-05           2-Chlorotoluene         ND         1.0         µg/L         1         V-05           2-Chlorotoluene         ND         1.0         µg/L         1         V-05           1,2-Dibromo-3-chloropropane (DBCP)         ND         5.0         µg/L         1           1,2-Dibromoethane (EDB)         ND         0.50         µg/L         1           1,2-Dichlorobenzene         ND         1.0         µg/L         1           1,3-Dichlorobenzene         ND         1.0         µg/L         1           1,4-Dichloro-2-butene         ND         2.0         µg/L         1           1,1-Dichloroethane <td< td=""><td>SW-846 8260B</td><td>8/27/09</td><td>8/27/09 16:05</td><td>LBD</td></td<>	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Chlorodibromomethane         ND         1.0         µg/L         1           Chlorodibromomethane         ND         2.0         µg/L         1           Chloroform         ND         2.0         µg/L         1           Chloroothane         ND         2.0         µg/L         1           Chloroothane         ND         2.0         µg/L         1         V-05           2-Chlorotoluene         ND         1.0         µg/L         1         I           1,2-Dibromo-3-chloropropane (DBCP)         ND         5.0         µg/L         1           1,2-Diblorobenzene (EDB)         ND         0.50         µg/L         1           1,2-Dichlorobenzene         ND         1.0         µg/L         1           1,4-Dichlorobenzene         ND         2.0         µg/L         1           1,1-Dichloroethane (Freon 12)         ND         2.0         µg/L         1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Index       Index <th< td=""><td>SW-846 8260B</td><td>8/27/09</td><td>8/27/09 16:05</td><td>LBD</td></th<>	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Chloroform         ND         2.0         µg/L         1           Chloromethane         ND         2.0         µg/L         1         V-05           2-Chlorotoluene         ND         1.0         µg/L         1         V-05           2-Chlorotoluene         ND         1.0         µg/L         1           4-Chlorotoluene         ND         1.0         µg/L         1           1,2-Dibromo-3-chloropropane (DBCP)         ND         5.0         µg/L         1           1,2-Dibromo-4-chloropropane (DBCP)         ND         0.50         µg/L         1           1,2-Dibromo-thane (EDB)         ND         0.50         µg/L         1           1,2-Dichlorobenzene         ND         1.0         µg/L         1           1,3-Dichlorobenzene         ND         1.0         µg/L         1           1,4-Dichloro-2-butene         ND         2.0         µg/L         1           Dichlorodifluoromethane (Freon 12)         ND         2.0         µg/L         1           1,1-Dichloroethane         ND         1.0         µg/L         1           1,2-Dichloroethane         ND         1.0         µg/L         1           1,2-Dichloroethane	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Chloromethane         ND         2.0         µg/L         1         V-05           2-Chlorotoluene         ND         1.0         µg/L         1           4-Chlorotoluene         ND         1.0         µg/L         1           1,2-Dibromo-3-chloropropane (DBCP)         ND         5.0         µg/L         1           1,2-Dibromoethane (EDB)         ND         0.50         µg/L         1           1,2-Dibromoethane (EDB)         ND         1.0         µg/L         1           1,2-Dichlorobenzene         ND         1.0         µg/L         1           1,3-Dichlorobenzene         ND         1.0         µg/L         1           1,4-Dichlorobenzene         ND         1.0         µg/L         1           1,4-Dichlorobenzene         ND         2.0         µg/L         1           1,1-Dichlorobenzene         ND         1.0         µg/L         1           1,1-Dichloroethane         ND         1.0         µg/L         1           1,1-Dichloroethane         ND         1.0         µg/L         1           1,2-Dichloroethane         ND         1.0         µg/L         1           1,2-Dichloroethylene         ND         1.0<	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
2-Chlorotoluene       ND       1.0       μg/L       1         4-Chlorotoluene       ND       1.0       μg/L       1         1,2-Dibromo-3-chloropropane (DBCP)       ND       5.0       μg/L       1         1,2-Dibromo-3-chloropropane (DBCP)       ND       0.50       μg/L       1         1,2-Dibromoethane (EDB)       ND       0.50       μg/L       1         1,2-Dichlorobenzene       ND       1.0       μg/L       1         1,3-Dichlorobenzene       ND       1.0       μg/L       1         1,4-Dichlorobenzene       ND       2.0       μg/L       1         1,1-Dichloroethane (Freon 12)       ND       2.0       μg/L       1         1,1-Dichloroethane       ND       1.0       μg/L       1         1,2-Dichloroethane       ND       1.0       μg/L       1         1,1-Dichloroethylene       ND       1.0       μg/L       1         1,1-Dichloroethylene       ND       1.0	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
4-Chlorotoluene       ND       1.0       µg/L       1         1,2-Dibromo-3-chloropropane (DBCP)       ND       5.0       µg/L       1         1,2-Dibromo-3-chloropropane (DBCP)       ND       0.50       µg/L       1         1,2-Dibromoethane (EDB)       ND       0.50       µg/L       1         Dibromomethane       ND       1.0       µg/L       1         1,2-Dichlorobenzene       ND       1.0       µg/L       1         1,3-Dichlorobenzene       ND       1.0       µg/L       1         1,4-Dichloro-2-butene       ND       1.0       µg/L       1         1,4-Dichloro-2-butene       ND       2.0       µg/L       1         1,1-Dichloroethane       ND       1.0       µg/L       1         1,1-Dichloroethane       ND       1.0       µg/L       1         1,1-Dichloroethane       ND       1.0       µg/L       1         1,2-Dichloroethane       ND       1.0       µg/L       1         1,2-Dichloroethylene       ND       1.0       µg/L       1         1,1-Dichloroethylene       ND       1.0       µg/L       1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,2-Dibromo-3-chloropropane (DBCP)ND5.0µg/L11,2-Dibromo-4-chloropropane (DBCP)ND5.0µg/L11,2-Dibromoethane (EDB)ND0.50µg/L1DibromonethaneND1.0µg/L11,2-DichlorobenzeneND1.0µg/L11,3-DichlorobenzeneND1.0µg/L11,4-Dichloro-2-buteneND2.0µg/L1Dichlorodifluoromethane (Freon 12)ND2.0µg/L11,1-DichloroethaneND1.0µg/L11,2-DichloroethaneND1.0µg/L11,1-DichloroethaneND1.0µg/L11,1-DichloroethaneND1.0µg/L11,1-DichloroethaneND1.0µg/L11,1-DichloroethaneND1.0µg/L11,1-DichloroethyleneND1.0µg/L1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,2-Dibromoethane (EDB)       ND       0.50       μg/L       1         Dibromomethane       ND       1.0       μg/L       1         1,2-Dichlorobenzene       ND       1.0       μg/L       1         1,3-Dichlorobenzene       ND       1.0       μg/L       1         1,4-Dichlorobenzene       ND       1.0       μg/L       1         1,4-Dichlorobenzene       ND       1.0       μg/L       1         trans-1,4-Dichloro-2-butene       ND       2.0       μg/L       1         Dichlorodifluoromethane (Freon 12)       ND       2.0       μg/L       1         1,1-Dichloroethane       ND       1.0       μg/L       1         1,2-Dichloroethane       ND       1.0       μg/L       1         1,1-Dichloroethane       ND       1.0       μg/L       1         1,2-Dichloroethane       ND       1.0       μg/L       1         1,1-Dichloroethylene       ND       1.0       μg/L       1         1,1-Dichloroethylene       ND       1.0       μg/L       1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
DibromomethaneND1.0µg/L11,2-DichlorobenzeneND1.0µg/L11,3-DichlorobenzeneND1.0µg/L11,4-DichlorobenzeneND1.0µg/L11,4-Dichloro-2-buteneND2.0µg/L1Dichlorodifluoromethane (Freon 12)ND2.0µg/L11,1-DichloroethaneND1.0µg/L11,2-DichloroethaneND1.0µg/L11,1-DichloroethaneND1.0µg/L11,1-DichloroethyleneND1.0µg/L1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,2-DichlorobenzeneND1.0µg/L11,3-DichlorobenzeneND1.0µg/L11,4-DichlorobenzeneND1.0µg/L11,4-Dichloro-2-buteneND2.0µg/L1Dichlorodifluoromethane (Freon 12)ND2.0µg/L11,1-DichloroethaneND1.0µg/L11,2-DichloroethaneND1.0µg/L11,2-DichloroethaneND1.0µg/L11,2-DichloroethyleneND1.0µg/L1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,3-DichlorobenzeneND1.0μg/L11,4-DichlorobenzeneND1.0μg/L1trans-1,4-Dichloro-2-buteneND2.0μg/L1Dichlorodifluoromethane (Freon 12)ND2.0μg/L11,1-DichloroethaneND1.0μg/L11,2-DichloroethaneND1.0μg/L11,2-DichloroethaneND1.0μg/L11,2-DichloroethyleneND1.0μg/L1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,4-DichlorobenzeneND1.0μg/LItrans-1,4-Dichloro-2-buteneND2.0μg/LIDichlorodifluoromethane (Freon 12)ND2.0μg/LI1,1-DichloroethaneND1.0μg/LI1,2-DichloroethaneND1.0μg/LI1,1-DichloroethaneND1.0μg/LI1,2-DichloroethaneND1.0μg/LI1,1-DichloroethyleneND1.0μg/LI	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
trans-1,4-Dichloro-2-buteneND2.0µg/L1Dichlorodifluoromethane (Freon 12)ND2.0µg/L11,1-DichloroethaneND1.0µg/L11,2-DichloroethaneND1.0µg/L11,1-DichloroethyleneND1.0µg/L11,1-DichloroethyleneND1.0µg/L1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Dichlorodifluoromethane (Freon 12)ND2.0μg/L11,1-DichloroethaneND1.0μg/L11,2-DichloroethaneND1.0μg/L11,1-DichloroethyleneND1.0μg/L1cis-1,2-DichloroethyleneND1.0μg/L1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,1-Dichloroethane     ND     1.0     μg/L     1       1,2-Dichloroethane     ND     1.0     μg/L     1       1,1-Dichloroethylene     ND     1.0     μg/L     1       cis-1,2-Dichloroethylene     ND     1.0     μg/L     1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,2-Dichloroethane     ND     1.0     μg/L     1       1,1-Dichloroethylene     ND     1.0     μg/L     1       cis-1,2-Dichloroethylene     ND     1.0     μg/L     1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,1-DichloroethyleneND1.0μg/L1cis-1,2-DichloroethyleneND1.0μg/L1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
cis-1,2-Dichloroethylene ND 1.0 µg/L 1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
rans-1 2-Dichloroethylene ND 1.0 ug/L 1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,2-Dichloropropane ND 1.0 µg/L 1	SW 846 8360D	8/27/09	8/27/09 16:05	LBD
,3-Dichloropropane ND 0.50 µg/L 1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,2-Dichloropropane ND 1.0 µg/L 1	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,1-Dichloropropene ND 2.0 µg/L 1			8/27/09 16:05	LBD
is-1,3-Dichloropropene ND 0.50 μg/L 1	SW-846 8260B		8/27/09 16:05	LBD
rans-1,3-Dichloropropene ND 1.0 µg/L 1	SW-846 8260B SW-846 8260B		8/27/09 16:05	LBD
Diethyl Ether ND 2.0 µg/L I	SW-846 8260B SW-846 8260B SW-846 8260B ···	0121107		LBD



Work Order: 09H0621

Project Location: Springfield St Date Received: 8/26/2009

Field Sample #: ATC-5

Sample ID: 09H0621-03

Sample Matrix: Ground Water

Sampled: 8/25/2009 12:00

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analysi
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1	······	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Hexachlorobutadiene	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
lsopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Methyl tert-Butyf Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Methylene Chloride	ND	5.0	μg/L	1	L-04, V-05	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1	,	SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Naphthalene	ND	3.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Styrene	ND	1.0	μg/L	-		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09		LBD
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260B		8/27/09 16:05	LBD
Toluene	ND	1.0	μg/L	i		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,2,3-Trichlorobenzene	ND	5.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,1,2-Trichloroethane	ND	1.0		1			8/27/09	8/27/09 16:05	LBD
Frichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
richlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0		1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Freon 113)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
'inyl Chloride	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
n+p Xylene	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
-Xylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 16:05	LBD
Surrogates		% Recovery	Recovery Limits		Flag				
2-Dichloroethanc-d4		83.0	70-130					8/27/09 16:05	
oluene-d8		102	70-130					8/27/09 16:05	
-Bromofluorobenzene		101	70-130				:	8/27/09 16:05	•



Work Order: 09H0621

Project Location: Springfield St Date Received: 8/26/2009 Field Sample #: Trip Blank

Sampled: 8/25/2009 00:00

Sample ID: 09H0621-04 Sample Matrix: Trip Blank Water

	Volatile Organic Compounds by GC/MS								
Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	930	50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Acrylonitrile	ND	5,0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Benzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Bromobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Bromochloromethane	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Bromoform	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Bromomethane	ND	5.0	μg/L	1	R-05	SW-846 8260B	8/27/09	8/27/09 14:34	LBD
2-Butanone (MEK)	ND	20	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
n-Butylbenzene	-ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Carbon Disulfide	ND	6.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Carbon Tetrachloride	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Chlorobenzene	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Chlorodibromomethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Chloroethane	ND	2.0	μ̈́g/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Chloroform	ND	2.0	μg/L	1	•	SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Chloromethane	ND	2.0	μg/L	1	V-05	SW-846 8260B	8/27/09	8/27/09 14:34	LBD
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Dibromomethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,2-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,3-Dichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,4-Dichlorobenzene	1.4	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
rans-1,4-Dichloro-2-butene	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
,1-Dichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
,I-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
is-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
ans-1,2-Dichloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
,2-Dichloropropane	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
I-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
is-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260B		8/27/09 14:34	LBD
ans-1,3-Dichloropropene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Diethyl Ether	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD



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

Work Order: 09H0621

Project Location: Springfield St Date Received: 8/26/2009 Field Sample #: Trip Blank

Sample ID: 09H0621-04

Sample Matrix: Trip Blank Water

Sampled: 8/25/2009 00:00

		v	olatile Organic Con	npounds by C	GC/MS				
Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analys
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Hexachlorobutadiene	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Methylene Chloride	ND	5.0	μg/L	1	L-04, V-05	SW-846 8260B	8/27/09	8/27/09 14:34	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Naphthalene	ND	3.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Styrene	1.2	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Tetrahydrofuran	ND	10	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Toluene	2.4	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,2,3-Trichlorobenzene	ND	5.0	μg/L	]		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Trichloroethylene	ND	1.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Vinyl Chloride	ND	2.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
m+p Xylene	ND	2.0	μg/L	I		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
o-Xylene	ND	1.0	μg/L	1		SW-846 8260B	8/27/09	8/27/09 14:34	LBD
Surrogates		% Recovery	<b>Recovery Limits</b>		Flag				
1,2-Dichloroethane-d4		81.7	70-130					8/27/09 14:34	
Toluene-d8 4-Bromofluorobenzene		102 103	70-130					8/27/09 14:34	



### 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
09H0621-05 [WB-2]	B004262	I	I	N/A	1000	400	400	08/26/09
09H0621-06 [MPL-6]	B004262	1	1	N/A	1000	400	400	08/26/09

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

Lab Number [Field ID]		Batch	Initial [mL]	Final [mL]	Date	
09H0621-01 [ATC-1]		B004124	5	5 .	08/27/09	
09H0621-02 [ATC-4]		B004124	5	5	08/27/09	
09H0621-03 [ATC-5]	we have	B004124	5	5	08/27/09	
09H0621-04 [Trip Blank]		B004124	5	5	08/27/09	



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

### QUALITY CONTROL

### Air Toxics by EPA Compendium Methods - Quality Control

Analyte		pbv	ug/n		Spike Level	Source	0/880	%REC	D.F	RPD	
Апагус	Results	RL	Results	RL	ррви	Result	%REC	Limits	RPD	Limit	Flag
Batch B004262 - TO-15 Prep											
Blank (B004262-BLK1)					Prepared & A	nalyzed: 08	/26/09				
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									
,2-Dibromoethane (EDB)	ND	0.025									
,2-Dichlorobenzene	ND	0.025									
,3-Dichlorobenzene	ND	0.025									
,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
,1-Dichloroethane	ND	0.025									
,2-Dichloroethane	ND	0.025									
, 1-Dichloroethylene	ND	0.025									
is-1,2-Dichloroethylene	ND	0.025									
,2-Dichloropropane	ND	0.025									
is-1,3-Dichloropropene	ND	0.025									
ans-1,3-Dichloropropene	ND	0.025									
2-Dichloro-1,1,2,2-tetrafluoroethane Freon 114)	ND	0.025									
thylbenzene	ND	0.025									
exachlorobutadiene	ND	0.025									
lethylene Chloride	ND	0.10									
yrene	ND	0.025									
1,2,2-Tetrachloroethane	ND	0.025									
etrachloroethylene	ND	0.025									
bluene	ND	0.025									
2,4-Trichlorobenzene	ND	0.025									
1,1-Trichloroethane	ND	0.025									
1,2-Trichloroethane	ND	0.025									
ichloroethylene	ND	0.025									
ichlorofluoromethane (Freon 11)	ND	0.025									
1,2-Trichloro-1,2,2-trifluoroethane (Freon 3)	ND	0.025									
2,4-Trimethylbenzene	ND	0.025									
8,5-Trimethylbenzene	ND	0.025									
nyl Chloride	ND	0.025									
¢p-Xylene	ND	0.050									
Xylene	ND	0.025									

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### QUALITY CONTROL

### Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppt		ug/n		Spike Level	Source		%REC		RPD	
Апаус	Results	RL	Results	RL	ррви	Result	%REC	Limits	RPD	Limit	Flag
Batch B004262 - TO-15 Prep											
LCS (B004262-BS1)					Prepared & A	.nalyzed: 08/	/26/09				
Benzene	4.72				5.00		94.5	70-130			
Bromomethane	4.24				5.00		84.9	70-130			
Carbon Tetrachloride	4.47				5.00		89.4	70-130			
Chlorobenzene	4.77				5.00		95.4	70-130			
Chloroethane	. 4.47				5.00		89.4	70-130			
Chloroform	4.26				5.00		85.1	70-130			
Chloromethane	4.63				5.00		92.6	70-130			
,2-Dibromoethane (EDB)	4.71				5.00		94.3	70-130			
,2-Dichlorobenzene	4.81				5.00		96.1	70-130			
,3-Dichlorobenzene	4.81				5.00		96.1	70-130			
,4-Dichlorobenzene	4.80				5.00		96.0	70-130			
Dichlorodifluoromethane (Freon 12)	3.94				5.00		78.9	70-130			
,1-Dichloroethane	4.45				5.00		89.0	70-130			
,2-Dichloroethane	4.17				5.00		83.4	70-130			
,1-Dichloroethylene	4.00				5.00		80.0	70-130			
is-1,2-Dichloroethylene	4.51				5.00		90.1	70-130			
2-Dichloropropane	4.77				5.00		95.5	70-130			
is-1,3-Dichloropropene	4.82				5.00		96.4	70-130			
ans-1,3-Dichloropropene	4.88				5.00		97.6	70-130			
2-Dichloro-1,1,2,2-tetrafluoroethane Freon 114)	4.08				5.00		81.6	70-130			
thylbenzene	4.83				5.00		96.7	70-130			
exachlorobutadiene	4.71				5.00		94.2	70-130			
ethylene Chloride	4.90				5.00		97.9	70-130			
yrene	5.18				5.00		104	70-130			
1,2,2-Tetrachloroethane	4.78				5.00		95.6	70-130			
etrachloroethylene	4.70				5.00		94.0	70-130			
bluene	4.91				5.00		98.2	70-130			
2,4-Trichlorobenzene	4.96				5.00		99.2	70-130			
1,1-Trichloroethane	4.40				5.00		87.9	70-130			
1,2-Trichloroethane	4.72				5.00		94.4	70-130			
ichloroethylene	4.64				5.00		92.8	70-130			
ichlorofluoromethane (Freon 11)	3.96				5.00		79.3	70-130			
,2-Trichloro-1,2,2-trifluoroethane (Freon 3)	3.86				5.00		77.2	70-130			
,4-Trimethylbenzene	4.94				5.00		98.8	70-130			
,5-Trimethylbenzene	4.88				5.00		97.6	70-130			
nyl Chloride	4.31				5.00		86.2	70-130			
kp-Xylene	9.79				10.0		97.9	70-130			
(ylene	4.80				5.00		95.9	70-130			
rogate: 4-Bromofluorobenzene (1)	7.76				8.00						



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B004124 - SW-846 5030B										
Blank (B004124-BLK1)				Prepared & /	Analyzed: 08	/27/09				
Acetone	ND	50	μg/L							
Acrylonitrile	ND	5.0	μg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L							
Benzene	ND	1.0	μg/L							
Bromobenzene	ND	1.0	μg/L							
Bromochloromethane	ND	1.0	μg/L							
Bromodichloromethane	ND	0.50	μg/L							
Bromoform	ND	2.0	μg/L							
Bromomethane	ND	5.0	μg/L							R-05
2-Butanone (MEK)	ND	20	μg/L							
ert-Butyl Alcohol (TBA)	ND	20	μg/L							
a-Butylbenzene	ND	1.0	μg/L							
ec-Butylbenzene	ND	1.0	μg/L							
ert-Butylbenzene	ND	1.0	μg/L							
ert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	6.0	μg/L							
Carbon Tetrachloride	ND	1.0	μg/L							
Chlorobenzene	ND	1.0	μg/L							
hlorodibromomethane	ND	1.0	μg/L							
Chloroethane	ND	2.0	μg/L							
'hloroform 'hloromethane	ND	2.0	μg/L							
-Chlorotoluene	ND	2.0	μg/L							V-05
-Chlorotoluene	ND	1.0	μg/L							
2-Dibromo-3-chloropropane (DBCP)	ND	1.0	μg/L							
2-Dibromoethane (EDB)	ND	. 5.0	μg/L							
ibromomethane	ND	0.50	μg/L							
2-Dichlorobenzene	ND ND	1.0	μg/L							
3-Dichlorobenzene	ND	1.0 1.0	μg/L							
4-Dichlorobenzene	ND	1.0	μg/L							
ans-1,4-Dichloro-2-butene	ND	2.0	μg/L μg/L							
ichlorodifluoromethane (Freon 12)	ND	2.0								
1-Dichloroethane	ND	1.0	μg/L μg/L							
2-Dichloroethane	ND	1.0	μg/L μg/L							
I-Dichloroethylene	ND	1.0	μg/L μg/L							
s-1,2-Dichloroethylene	ND	1.0								
ns-1,2-Dichloroethylene	ND	1.0	μg/L μg/L							
2-Dichloropropane	ND	1.0	μg/L							
B-Dichloropropane	ND	0.50	μg/L							
2-Dichloropropane	ND	1.0	μg/L μg/L							
-Dichloropropene	ND	2.0	μg/L							
-1,3-Dichloropropene	ND	0.50	μg/L							
ns-1,3-Dichloropropene	ND	1.0	μg/L							
ethyl Ether	ND	2.0	μg/L							
sopropyl Ether (DIPE)	ND	0.50	μg/L							
-Dioxane	ND	50	μg/L							VIC
ylbenzene	ND	1.0	μg/L							V-16
xachlorobutadiene	ND	0.50	μg/L							
Iexanone (MBK)	ND	10	μg/L							
propylbenzene (Cumene)	ND	1.0	μg/L							
sopropyltoluene (p-Cymene)	ND	1.0	μg/L							
thyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L							



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B004124 - SW-846 5030B										
Blank (B004124-BLK1)				Prepared & A	Analyzed: 08	/27/09				
Methylene Chloride	ND	5.0	μg/L							L-04, V-0:
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L							
Naphthalene	ND	3.0	μg/L							
n-Propylbenzene	ND	1.0	μg/L							
Styrene	ND	1.0	μg/L							
,1,1,2-Tetrachloroethane	ND	1.0	μg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L							
Fetrachloroethylene	ND	1.0	μg/L							
Fetrahydrofuran	ND	10	μg/L							
foluene	ND	1.0	μg/L							
,2,3-Trichlorobenzene	ND	5.0	μg/L							
,2,4-Trichlorobenzene	ND	1.0	μg/L							
,3,5-Trichlorobenzene	ND	1.0	μg/L							
,1,1-Trichloroethane	ND	1.0	μg/L							
,1,2-Trichloroethane	ND	1.0	μg/L							
Frichloroethylene	ND	1.0	μg/L							
richlorofluoromethane (Freon 11)	ND	2.0	μg/L							
,2,3-Trichloropropane	ND	2.0	μg/L							
,1,2-Trichloro-1,2,2-trifluoroethane (Freon 13)	ND	1.0	μg/L							
,2,4-Trimethylbenzene	ND	1.0	μg/L							
,3,5-Trimethylbenzene	ND	1.0	μg/L							
/inyl Chloride	ND	2.0	μg/L							
n+p Xylene	ND	2.0	μg/L							
-Xylene	ND	1.0	μg/L							
urrogate: 1,2-Dichloroethane-d4	20.5		μg/L	25.0		81.9	70-130			
urrogate: Toluene-d8	26.4		μg/L	25.0		106	70-130			
urrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			
CS (B004124-BS1)				Prepared & A	nalyzed: 08/2	27/09				
cetone	91.1	50	μg/L	100		91.1	70-160			
crylonitrile	9.93	5.0	μg/L	10.0		99.3	70-130			
rt-Amyl Methyl Ether (TAME)	12.8	0.50	μg/L	10.0		128	70-130			
enzene	10.8	1.0	μg/L	10.0		108	70-130			
romobenzene	10.5	1.0	μg/L	10.0		105	70-130			
romochloromethane	11.6	1.0	μg/L	10.0		116	70-130			
romodichloromethane	10.4	0.50	μg/L	10.0		104	70-130			
romoform	12.4	2.0	μg/L	10.0		124	70-130			
romomethane	3.93	5.0	μg/L	10.0		39.3 *	40-160			L-07, R-05
Butanone (MEK)	83.6	20	μg/L	100		83.6	40-160			
rt-Butyl Alcohol (TBA)	95.3	20	μg/L	100		95.3	40-160			
Butylbenzene	9.97	1.0	μg/L	10.0		99.7	70-130			
c-Butylbenzene	10.9	1.0	μg/L	10.0		109	70-130			
t-Butylbenzene	10.4	1.0	μg/L	10.0		104	70-130			
t-Butyl Ethyl Ether (TBEE)	10.9	0.50	μg/L	10.0		109	70-130			
rbon Disulfide	15.8	6.0	μg/L	10.0		158 *	70-130			L-02
rbon Tetrachloride	11.1	1.0	μg/L	10.0		111	70-130			
lorobenzene	11.8	1.0	μg/L	10.0		118	70-130			
lorodibromomethane	10.7	1.0	μg/L	10.0		107	70-130			
loroethane	11.9	2.0	μg/L	10.0		119	70-130			
loroform	9.38	2.0	μg/L	10.0		93.8	70-130			
loromethane	6.13	2.0	μg/L	10.0		61.3	40-160			V-05
Chlorotoluene	10.7	1.0	μg/L	10.0		107				



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
3atch B004124 - SW-846 5030B										
LCS (B004124-BS1)				Prepared &	Analyzed: 08	8/27/09				
4-Chlorotoluene	11.3	1.0	μg/L	10.0		113	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.0	5.0	μg/L	10.0		110	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	μg/L	10.0		106	70-130			
Dibromomethane	10.0	1.0	μg/L	10.0		100	70-130			
1,2-Dichlorobenzene	10.6	1.0	μg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.8	1.0	μg/L	10.0		108	70-130			
1.4-Dichlorobenzene	9.89	1.0	μg/L	10.0		98.9	70-130			
rans-1,4-Dichloro-2-butene	10.3	2.0	μg/L	10.0		103	70-130			
Dichlorodifluoromethane (Freon 12)	8.53	2.0	μg/L	10.0		85.3	40-160			
1,1-Dichloroethane	10.2	1.0	μg/L	10.0		102	70-130			
1.2-Dichloroethane	8.77	1.0	μg/L	10.0		87.7	70-130			
1,1-Dichloroethylene	10.2	1.0	μg/L	10.0		102	70-130			
cis-1,2-Dichloroethylene	9.47	1.0	μg/L	10.0		94.7	70-130			
trans-1,2-Dichloroethylene	9.86	1.0	μg/L	10.0		98.6	70-130			
1,2-Dichloropropane	11.0	1.0	μg/L	10.0		110	70-130			
1,3-Dichloropropane	10.1	0.50	μg/L	10.0		101	70-130			
2,2-Dichloropropane	11.8	1.0	μg/L	10.0		118	40-130			
1,1-Dichloropropene	10.2	2.0	μg/L	10.0		102	70-130			
cis-1,3-Dichloropropene	12.4	0.50	μg/L	10.0		124	70-130			
trans-1,3-Dichloropropene	13.8	1.0	μg/L	10.0		138 *	70-130			L-07
Diethyl Ether	10.6	2.0	μg/L	10.0		106	70-130			
Disopropyl Ether (DIPE)	9.70	0.50	μg/L	10.0		97.0	70-130			
	110	50	μg/L	100		110	40-130			V-16
1,4-Dioxane	11.1	1.0	μg/L	10.0		111	70-130			
Ethylbenzene Hexachlorobutadiene	12.0	0.50	μg/L	10.0		120	70-130			V-06
2-Hexanone (MBK)	92.5	10	μg/L	100		92.5	70-160			
	13.1	1.0	μg/L	10.0		131 *				L-07
Isopropylbenzene (Cumene)	10.7	1.0	μg/L	10.0		107	70-130			
p-Isopropyltoluene (p-Cymene)	10.7	1.0	μg/L	10.0		109	70-130			
Methyl tert-Butyl Ether (MTBE)	6.41	5.0	μg/L	10.0		64.1 *				L-04, V-05
Methylene Chloride	95.2	10	μg/L	100		95.2	70-160			,
4-Methyl-2-pentanone (MIBK)	12.5	3.0	μg/L	10.0		125	40-130			
Naphthalene	12.3	1.0	μg/L	10.0		118	70-130			
n-Propylbenzene		1.0	μg/L μg/L	10.0		117	70-130			
Styrene	11.7	1.0	μg/L μg/L	10.0		128	70-130			
1,1,1,2-Tetrachloroethane	12.8					128	70-130			
1,1,2,2-Tetrachloroethane	11.2	0.50	μg/L ug/I	10.0		112	70-150			
Tetrachloroethylene	11.3	1.0	μg/L	10.0		91.6	70-130			
Tetrahydrofuran	9.16	10	μg/L	10.0			70-130			
Toluene	11.0	1.0	μg/L	10.0		110				
1,2,3-Trichlorobenzene	10.3	5.0	μg/L	10.0		103	70-130 70-130			L-07, V-06
1,2,4-Trichlorobenzene	13.1	1.0	μg/L	10.0		131 *				L-07, V-00
1,3,5-Trichlorobenzene	11.6	1.0	μg/L	10.0		116	70-130			
1,1,1-Trichloroethane	10.4	1.0	μg/L	10.0		104	70-130			
1,1,2-Trichloroethane	10.1	1.0	μg/L	10.0		101	70-130			
Trichloroethylene	9.97	1.0	μg/L	10.0		99.7	70-130			
Trichlorofluoromethane (Freon 11)	10.4	2.0	μg/L	10.0		104	70-130			
1,2,3-Trichloropropane	9.79	2.0	μg/L	10.0		97.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	-11.9	1.0	μg/L	10.0		119	70-130			
1,2,4-Trimethylbenzene	10.0	1.0	μg/L	10.0		100	70-130			
1,3,5-Trimethylbenzene	11.1	1.0	μg/L	10.0		[1]	70-130			
Vinyl Chloride	8.29	2.0	μg/L	10.0		82.9	40-160			



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B004124 - SW-846 5030B											
LCS (B004124-BS1)				Prepared &	Analyzed: 08	8/27/09					-
m+p Xylene	21.8	2.0	μg/L	20.0		109	70-130				
p-Xylene	11.2	1.0	μg/L	10.0		112	70-130				
Surrogate: 1,2-Dichloroethane-d4	21.1		μg/L	25.0		84.2	70-130				
Surrogate: Toluene-d8	26.1		μg/L	25.0		104	70-130				
Surrogate: 4-Bromofluorobenzene	26.5		μg/L	25.0		106	70-130				
LCS Dup (B004124-BSD1)				Prepared & A	Analyzed: 08	8/27/09					
Acetone	89.4	50	μg/L	100		89.4	70-160	1.90	25		
Acrylonitrile	8.68	5.0	μg/L	10.0		86.8	70-130	13.4	25		
ert-Amyl Methyl Ether (TAME)	12.1	0.50	μg/L	10.0		121	70-130	5.53	25		
Benzene	10.1	1.0	μg/L	10.0		101	70-130	7.28	25		
Bromobenzene	10.1	1.0	μg/L	10.0		101	70-130	4.37	25		
Bromochloromethane	11.5	1.0	μg/L	10.0		115	70-130	1.13	25		
Bromodichloromethane	9.44	0.50	μg/L	10.0		94.4	70-130	9.58	25 25		
Bromoform	11.3	2.0	μg/L	10.0		113	70-130	9.03			
Bromomethane	5.09	5.0	μg/L	10.0		50.9	40-160	9.03 25.7 *	25 25	R-05	
-Butanone (MEK)	82.6	20	μg/L	10.0		82.6	40-160	1.26	23 25	K-05	
ert-Butyl Alcohol (TBA)	90.6	20	μg/L	100		90.6	40-160	4.97	25		
Butylbenzene	8.82	1.0	μg/L	10.0		88.2	70-130	12.2			
ec-Butylbenzene	9.88	1.0	μg/L	10.0		98.8	70-130		25 25		
ert-Butylbenzene	9.37	1.0	μg/L	10.0				10.0	25		
ert-Butyl Ethyl Ether (TBEE)	10.4	0.50	μg/L			93.7	70-130	9.94	25		
Carbon Disulfide	14.3	6.0	μg/L μg/L	10.0 10.0		104	70-130	4.52	25	1 02	
Carbon Tetrachloride	9.93	1.0				143 *	70-130	9.71	25	L-02	
hlorobenzene	11.1	1.0	μg/L μg/L	10.0		99.3	70-130	10.8	25		
hlorodibromomethane	9.97	1.0	μg/L μg/L	10.0		111	70-130	6.81	25		
hloroethane	10.4	2.0	μg/L μg/L	10.0		99.7	70-130	6.78	25		
hloroform	8.83	2.0		10.0		104	70-130	13.8	25		
hloromethane	5.73	2.0	µg/L	10.0		88.3	70-130	6.04	25		
-Chlorotoluene	10.2	1.0	μg/L	10.0		57.3	40-160	6.75	25	V-05	
-Chlorotoluene	10.2		μg/L	10.0		102	70-130	4.20	25		
2-Dibromo-3-chloropropane (DBCP)	9.20	1.0	μg/L	10.0		107	70-130	5.37	25		
		5.0	μg/L α	10.0		92.0	70-130	17.4	25		
2-Dibromoethane (EDB) ibromomethane	9.65	0.50	μg/L	10.0		96.5	70-130	9.19	25		
	9.55	1.0	μg/L	10.0		95.5	70-130	4.80	25		
2-Dichlorobenzene	9.94	1.0	μg/L	10.0		99.4	70-130	5.95	25		
3-Dichlorobenzene	9.52	1.0	μg/L	10.0		95.2	70-130	12.5	25		
4-Dichlorobenzene	.9.10	1.0	μg/L	10.0		91.0	70-130	8.32	25		
ans-1,4-Dichloro-2-butene	10.2	2.0	µg/L	10.0		102	70-130	1.37	25		
ichlorodifluoromethane (Freon 12)	7.69	2.0	μg/L	10.0		76.9	40-160	10.4	25		
I-Dichloroethane	9.58	1.0	μg/L	10.0		95.8	70-130	5.97	25		
2-Dichloroethane	8.24	1.0	μg/L	10.0		82.4	70-130	6.23	25		
1-Dichloroethylene	9.27	1.0	µg/L	10.0		92.7	70-130	9.75	25		
5-1,2-Dichloroethylene	9.34	1.0	μg/L	10.0		93.4	70-130	1.38	25		
ns-1,2-Dichloroethylene	8.99	1.0	μg/L	10.0		89.9	70-130	9.23	25		
2-Dichloropropane	10.5	1.0	μg/L	10.0		105	70-130	5.40	25		
3-Dichloropropane	9.28	0.50	μg/L	10.0		92.8	70-130	8.66	25		
2-Dichloropropane	10.9	1.0	μg/L	10.0		109	40-130	8.21	25		
l-Dichloropropene	9.37	2.0	μg/L	10.0		93.7	70-130	8.48	25		
-1,3-Dichloropropene	11.5	0.50	μg/L	10.0		115	70-130	8.12	25		
ns-1,3-Dichloropropene	12.5	1.0	μg/L	10.0		125	70-130	9.50	25		
ethyl Ether	10.4	2.0	μg/L	10.0		104	70-130	1.43	25		
isopropyl Ether (DIPE)	9.44	0.50	μg/L	10.0		94.4	70-130	2.72	25		



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B004124 - SW-846 5030B						********					1
LCS Dup (B004124-BSD1)				Prepared & /	Analyzed: 08	/27/09					
1,4-Dioxane	82.5	50	μg/L	100		82.5	40-130	28.2	50	V-16	† :
Ethylbenzene	10.3	1.0	μg/L	10.0		103	70-130	7.56	25		
Hexachlorobutadiene	10.7	0.50	μg/L	10.0		107	70-130	11.4	25	V-06	
2-Hexanone (MBK)	89.0	10	μg/L	100		89.0	70-160	3.83	25		. †
Isopropylbenzene (Cumene)	12.2	1.0	μg/L	10.0		122	70-130	7.67	25		
p-Isopropyltoluene (p-Cymene)	9.71	1.0	μg/L	10.0		97.1	70-130	9.42	25		
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	μg/L	10.0		102	70-130	6.54	25		
Methylene Chloride	6.11	5.0	μg/L	10.0		61.1 *	70-130	4.79	25	L-04, V-05	
4-Methyl-2-pentanone (MIBK)	89.9	10	μg/L	100		89.9	70-160	5.78	25		t
Naphthalene	12.0	3.0	μg/L	10.0		120	40-130	4.00	25		t
n-Propylbenzene	11.0	1.0	μg/L	10.0		110	70-130	7.17	25		
Styrene	11.1	1.0	μg/L	10.0		111	70-130	5.19	25		
1,1,1,2-Tetrachloroethane	12.2	1.0	μg/L	10.0		122	70-130	5.21	25		
1,1,2,2-Tetrachloroethane	11.4	0.50	μg/L	10.0		114	70-130	1.94	25		
Tetrachloroethylene	10.2	1.0	μg/L	10.0		102	70-160	11.1	25		†
Tetrahydrofuran	9.22	10	μg/L	10.0		92.2	70-130	0.653	25		
Toluene	10.2	1.0	μg/L	10.0		102	70-130	6.99	25		
1,2,3-Trichlorobenzene	10.0	5.0	μg/L	10.0		100	70-130	3.04	25		
1,2,4-Trichlorobenzene	12.3	1.0	μg/L	10.0		123	70-130	5.98	25	V-06	
1,3,5-Trichlorobenzene	10.8	1.0	μg/L	10.0		108	70-130	6.62	25		
1,1,1-Trichloroethane	9.73	1.0	μg/L	10.0		97.3	70-130	6.37	25		
1,1,2-Trichloroethane	9.86	1.0	μg/L	10.0		98.6	70-130	2.60	25		
Trichloroethylene	8.83	1.0	μg/L	10.0		88.3	70-130	12.1	25		
Trichlorofluoromethane (Freon 11)	9.18	2.0	μg/L	10.0		91.8	70-130	12.9	25		
1,2,3-Trichloropropane	9.44	2.0	μg/L	10.0		94.4	70-130	3.64	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	1.0	μg/L	10.0		109	70-130	8.60	25		
1,2,4-Trimethylbenzene	8.96	1.0	μg/L	10.0		89.6	70-130	11.4	25		
1,3,5-Trimethylbenzene	10.5	1.0	μg/L	10.0		105	70-130	5.28	25		
Vinyl Chloride	7.57	2.0	μg/L	10.0		75.7	40-160	9.08	25		t
n+p Xylene	20.2	2.0	μg/L	20.0		101	70-130	7.56	25		
-Xylene	10.6	1.0	μg/L	10.0		106	70-130	5.59	25		
Surrogate: 1,2-Dichloroethane-d4	20.7		μg/L	25.0		82.8	70-130				
Surrogate: Toluene-d8	25.5		μg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	26.0		μg/L	25.0		104	70-130				



## 39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332 FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
t	Wide recovery limits estabished for difficult compound.
ţ.	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. Analysis is in control.
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.
V-06	Significant uncertainty is associated with the reported value which is likely to be biased on the low side. Continuing calibration did not meet method specifications and was biased on the high side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the high side.

V-16 Significant uncertainty is associated with the reported value which is likely to be biased on the high side. Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.



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-Dichlorobenzene	AIHA,FL,NY		
1,3-Dichlorobenzenc	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		
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		
Fetrachloroethylene	AIHA,FL,NY		
Foluene	AIHA,FL,NY		
1,2,4-Trichlorobenzene	AIHA,FL,NY		
1,1,1-Trichloroethane	AIHA,FL,NY		
,1,2-Trichloroethane	AIHA,FL,NY		
frichloroethylene	AIHA,FL,NY		
richlorofluoromethane (Freon 11)	AIHA,FL,NY		
1,2,4-Trimethylbenzene	AIHA,FL,NY		
1,3,5-Trimethylbenzene	AIHA,FL,NY		
Vinyl Chloride	AIHA,FL,NY		
n&p-Xylene	AIHA,FL,NY		
-Xylene	AIHA,FL,NY		
V-846 8260B in Water			
A A			
Acetone	CT,NH,NY		
Acrylonitrile	CT,NY,RI		
ert-Amyl Methyl Ether (TAME)	NH,NY		
Benzene	CT,NH,NY,RI		
Bromochloromethane	NH,NY		
Bromodichloromethanc	CT,NH,NY,RI		
Bromoform	CT,NH,NY,RI		
Bromomethane	CT,NH,NY,RI		
P-Butanone (MEK)	CT,NH,NY		
ert-Butyl Alcohol (TBA)	NH,NY		



ertified Analyses included in this Report	-1	
Analyte - ···	Certifications	
V-846 8260B in Water		
n-Butylbenzene	NY	
sec-Butylbenzene	NY	
tert-Butylbenzene	NY	
tert-Butyl Ethyl Ether (TBEE)	NH,NY	
Carbon Disulfide	CT,NH,NY	
Carbon Tetrachloride	CT,NH,NY,RI	
Chlorobenzene	CT,NH,NY,RI	
Chlorodibromomethane	CT,NH,NY,RI	
Chloroethane	CT,NH,NY,RI	
Chloroform	CT,NH,NY,RI	
Chloromethane	CT,NH,NY,RI	
	NH,NY	
Dibromomethane	CT,NY,RI	
1,2-Dichlorobenzene	CT,NH,NY,RI	
1,3-Dichlorobenzene	CT,NH,NY,RI	
1,4-Dichlorobenzene	NH,NY	
trans-1,4-Dichloro-2-butene	NH,NY,RI	
Dichlorodifluoromethane (Freon 12)		
1,1-Dichloroethane	CT,NH,NY,RI	
1,2-Dichloroethane	CT,NH,NY,RI	
1,1-Dichloroethylene	CT,NH,NY,RI	
trans-1,2-Dichloroethylene	CT,NH,NY,RI	
1,2-Dichloropropane	CT,NH,NY,RI	
2,2-Dichloropropane	NH,NY	
1,1-Dichloropropene	NH,NY	
cis-1,3-Dichloropropene	CT,NH,NY,RI	
trans-1,3-Dichloropropene	CT,NH,NY,RI	- m - v
Diisopropyl Ether (DIPE)	NH,NY	
Ethylbenzene	CT,NH,NY,RI	
Hexachlorobutadiene	CT,NH,NY	
2-Hexanone (MBK)	CT,NH,NY	
Isopropylbenzene (Cumene)	NY	
p-lsopropyltoluene (p-Cymene)	CT,NH,NY	
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY	
Methylene Chloride	CT,NH,NY,RI	
4-Methyl-2-pentanone (MIBK)	CT,NH,NY	
Naphthalene	NH,NY	
n-Propylbenzene	CT,NH,NY	
Styrene	CT,NH,NY	
1,1,1,2-Tetrachloroethane	CT,NH,NY	
1,1,2,2-Tetrachloroethane	CT,NH,NY,RI	
Tetrachloroethylene	CT,NH,NY,RI	
Toluene	CT,NH,NY,RI	
1,2,3-Trichlorobenzene	NH,NY	
1,2,4-Trichlorobenzene	CT,NH,NY	
1,1,1-Trichloroethane	CT,NH,NY,R1	
1,1,2-Trichloroethane	CT,NH,NY,RI	
Trichloroethylene	CT,NH,NY,RI	



Certified Analyses included in this Report

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CERTIFICATIONS

Certified Analyses included in this Report		
Analyte	Certifications	
SW-846 8260B in Water		
Trichlorofluoromethane (Freon 11)	CT,NH,NY,RI	
1,2,3-Trichloropropane	NH,NY	
1,2,4-Trimethylbenzene	NY	
1,3,5-Trimethylbenzene	NY	
Vinyl Chloride	CT,NH,NY,RI	
m+p Xylene	CT,NH,NY,RI	
o-Xylene	CT,NH,NY,RI	

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

AIHA MA	American Industrial Hygiene Association Massachusetts DEP	100033	01/1/2010
MA .	Massachusette DEP		
	Wassachusens DEI	M-MA100	06/30/2010
СТ	Connecticut Department of Publilc Health	PH-0567	09/30/2009
NY	New York State Department of Health	10899 NELAP	04/1/2010
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2010
RI	Rhode Island Department of Health	LAO00112	12/30/2009
NC	North Carolina Div. of Water Quality	652	12/31/2009
IJ	New Jersey DEP	MA007 NELAP	06/30/2010
FL	Florida Department of Health	E871027 NELAP	06/30/2010
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2010
WA	State of Washington Department of Ecology	C2065	03/23/2010

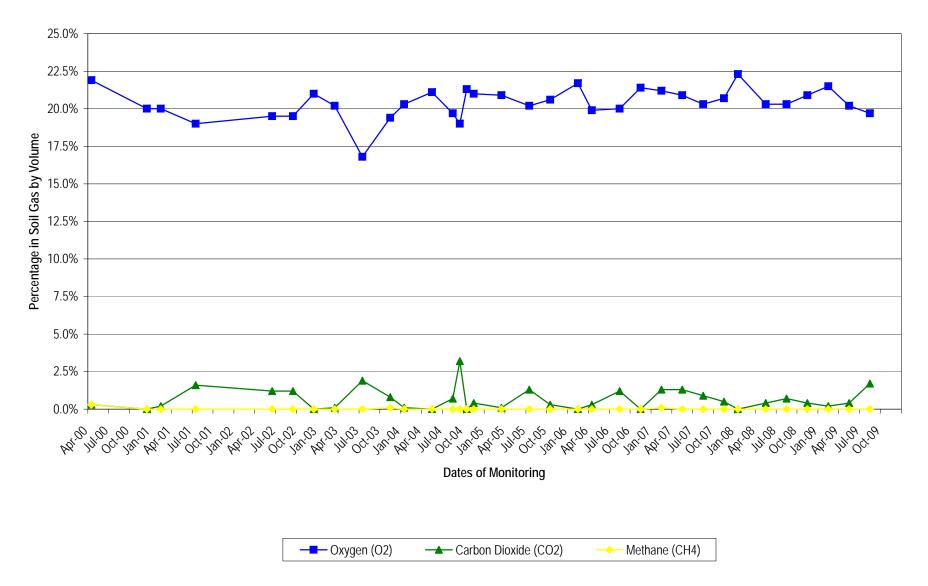
Pag	# of contage: "Preservation -Cont.Code		Ganuation P≓plastic ST≕starile	V ⇒ ()itt) S≕summa car 	1 ≂isodiar bag D≕Cither	Client	Comments			2 233	×		s sample may		**Preservation Codes:		<pre>XL T = Na thiosulfate athanol</pre>	N = Nitric Acid	S = Sulturic Acid	o = Other 0 = Other 0 OUT COMPLETELY OR IS
39 SPRUCE ST, 2ND FLOOR EAST LONGMEADOW, MA 01028		ANALYSIS REQUESTED											Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:	C - Clean; U - Unknown	**Prese		DW= drinking water M = Methanol	<u> </u>	S = soil/solid S = Su	0 = other 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0
CHAIN OF CUSTODY RECORD OGH 063 Totals 10 2	2152-26 U T	heck one):				osite Grab	+	t but t	×	X 4 C X	XTXX		Please use the following codes to let Con-Test know be high in concentration in Matrix/Conc. Code Box:		Detection Limit Requirements		Data Enhancement Project/RCP? ゴ Y ヴル			RE ARE QUESTIONS ON YOUR CHAIN. IF TH
	ter)	0 # DELIVERY (6	DFAX DEMAIL Fax # : Email:	Format: D EXCEL	Date Sampled Start Stop	8/25/69 10:20	I	81/25/00 12:00	B125, 255	B/25/05 12:30	EVESSOS 14.00						d a Other	HUSH * 12 * 10 * 10	0 *72-Hr 0 *4-Day	* Require lab approva RECEIPT UNLESS THEF
Phone: 413-525-2332 Fax: 413-525-6405 Email: info@contestlabs.com www.contestlabs.com	ETZ RUD	02886 STER	) ST arc		Dyes Dno	-0)	-07	-03	10+	- 02	30-				Date, ime;	Date/Time:	83663 101	CICI POSTUCIO	Date/Tirne:	E DAY AFTER SAMPLE
AND ANALYTICAL LABORATORY	Address: 200 MEAD CENTER	Attention: Draw Attention: Draw Attention	Project Location: SPRT MatTLEL Sampled By: CHPTS ANTES	Proposal Provided? (For Billing purposes)	Field ID Sample Description	ATC-1	476-4	476-5	TRIP BLANK	12-8m	0 7dW	Laboratory Comments:		Reindricharchin Lectures with	the for	(Redelyedd yr (sitbaeture)	Belinnished hv (simblers) (stress ling)	( all the first of the second of the	Received by: (signature)	** 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

www.contestlabs.com	Samp	ANALYTI	n-test CAL LABORATORY Dt Checklist	39 Spruce St. East Longmeadow, M 01028 P: 413-525-2332 F: 413-525-6405
CLIENT NAME: LFR.		REC	EIVED BY:	DATE: 8-26-09
<ol> <li>Was the chain(s) of custo</li> <li>Does the chain agree with If not, explain:</li> <li>Are all the samples in goo If not, explain:</li> <li>How were the samples recoived in On Ice Direct fro</li> <li>Were the samples received in Temperature °C by Temp blank</li> </ol>	h the samples? od condition? ceived: om Sampling	Ambie mpliance of f	(2-6°C)? (Yes) No	
<ul> <li>i) Are there Dissolved sample Who was notified</li> <li>) Are there any samples "On</li> <li>) Are there any RUSH or SHC Who was notified</li> <li>) Location where samples are</li> </ul>	Date Hold"? DRT HOLDING TIM	E samples?	Yes No Yes No me Permission to subcon	Stored where:
	L			f not already approved
			Client Signature:	
	Containers	sent in	Client Signature:	
	Containers # of container		Client Signature:	
1 Liter Amber	·····		Client Signature:	
1 Liter Amber 500 mL Amber	·····		Client Signature: to Con-Test 8 oz clear jar	
······································	·····		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar	
500 mL Amber 250 mL Amber (8oz amber)	·····		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar	
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic	·····		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar	
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic	·····		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc	
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic	# of container		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette	
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 40 mL Vial - type listed below	·····		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves	
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 0 mL Vial - type listed below Colisure / bacteria bottle	# of container		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves Tubes	
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 0 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle	# of container		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves Tubes Summa Cans	
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 40 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle Flashpoint bottle	# of container		Client Signature: <b>to Con-Test</b> 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves Tubes Summa Cans Regulators	# of containers
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 40 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle	# of container		Client Signature: to Con-Test 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves Tubes Summa Cans	# of containers
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 0 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle Flashpoint bottle Encore	# of container		Client Signature: <b>to Con-Test</b> 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves Tubes Summa Cans Regulators	# of containers
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 40 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle Flashpoint bottle Encore bratory Comments:	# of container		Client Signature: <b>to Con-Test</b> 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves Tubes Summa Cans Regulators	# of containers
500 mL Amber 250 mL Amber (8oz amber) 1 Liter Plastic 500 mL Plastic 250 mL plastic 250 mL plastic 40 mL Vial - type listed below Colisure / bacteria bottle Dissolved Oxygen bottle Flashpoint bottle Encore bratory Comments: L vials: # HCI	# of container		Client Signature: <b>to Con-Test</b> 8 oz clear jar 4 oz clear jar 2 oz clear jar Other glass jar Plastic Bag / Ziploc Air Cassette Brass Sleeves Tubes Summa Cans Regulators	# of containers

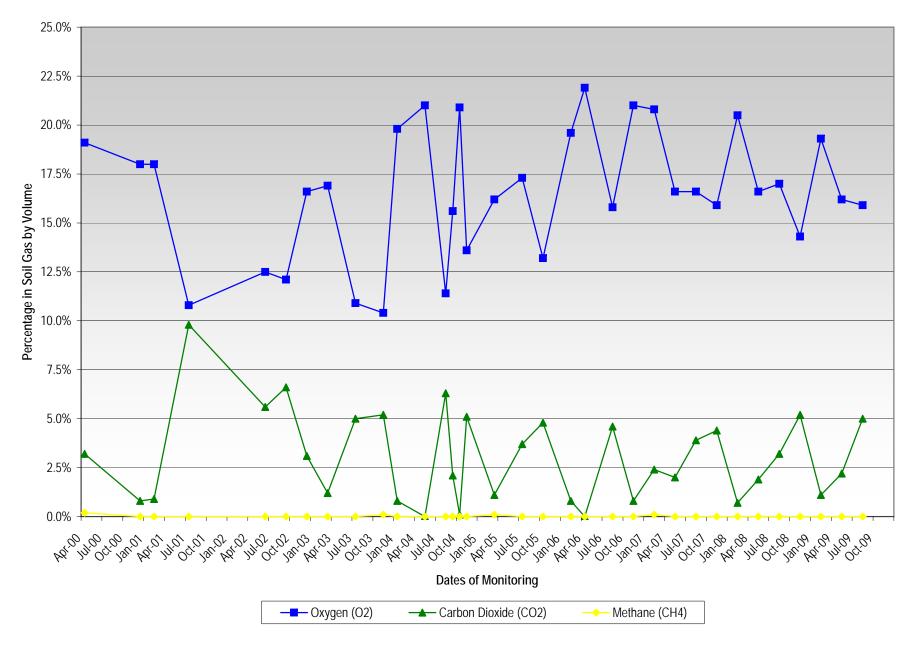
Appendix C

Soil Gas Graphs

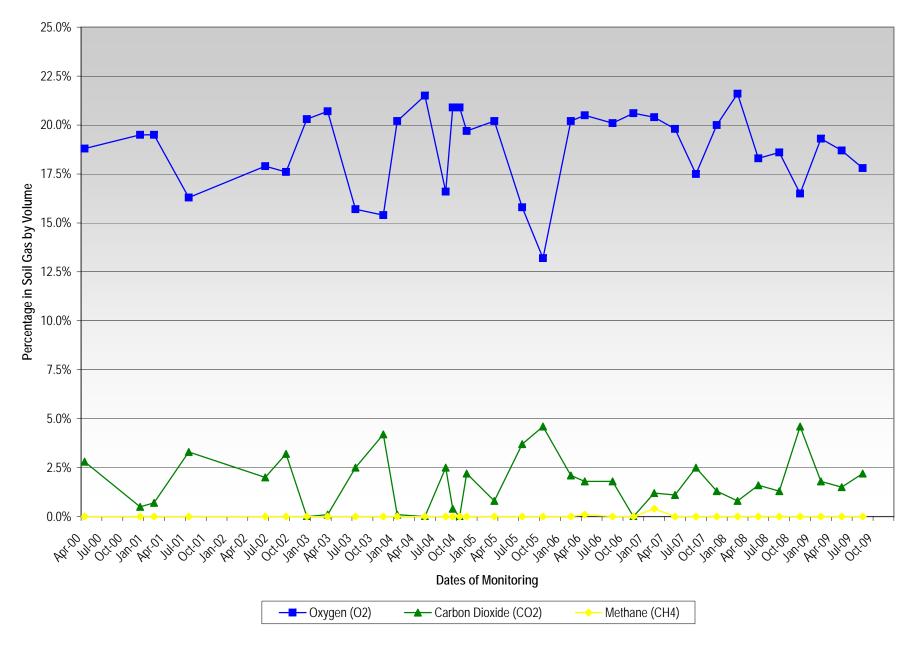
Soil Gas Well EPL1 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



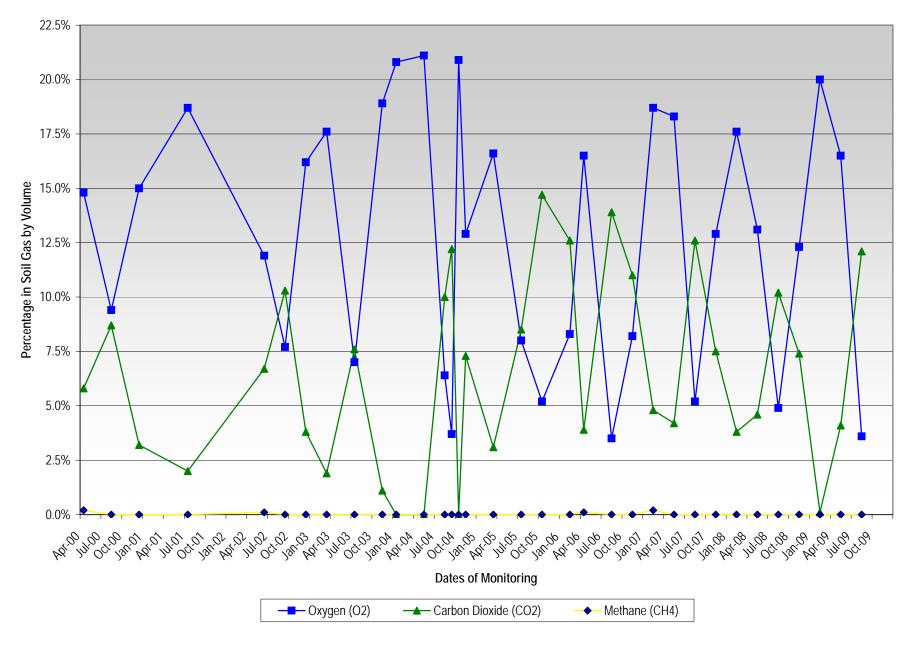
Soil Gas Well EPL4 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



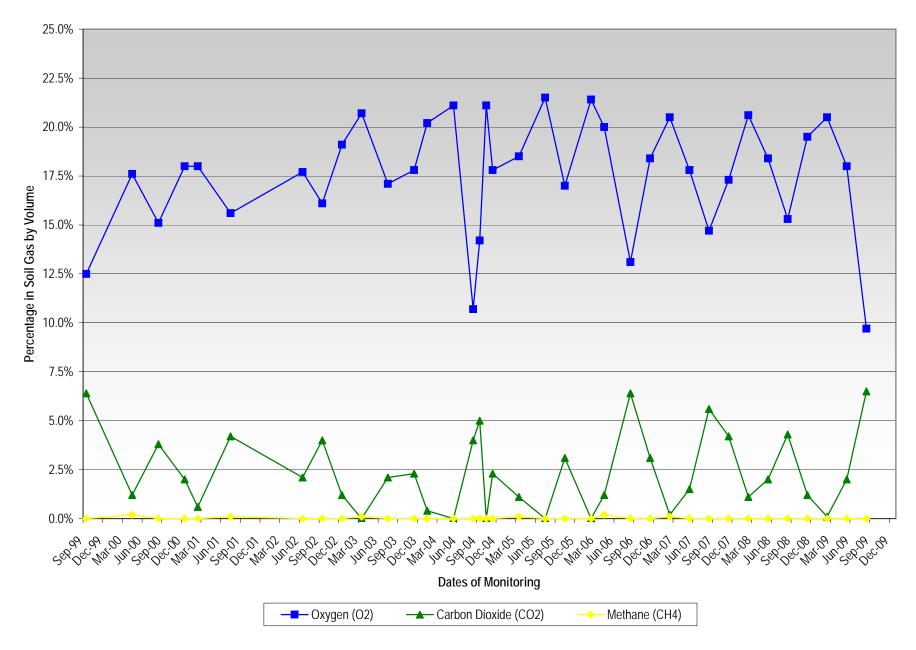
Soil Gas Well MG2 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



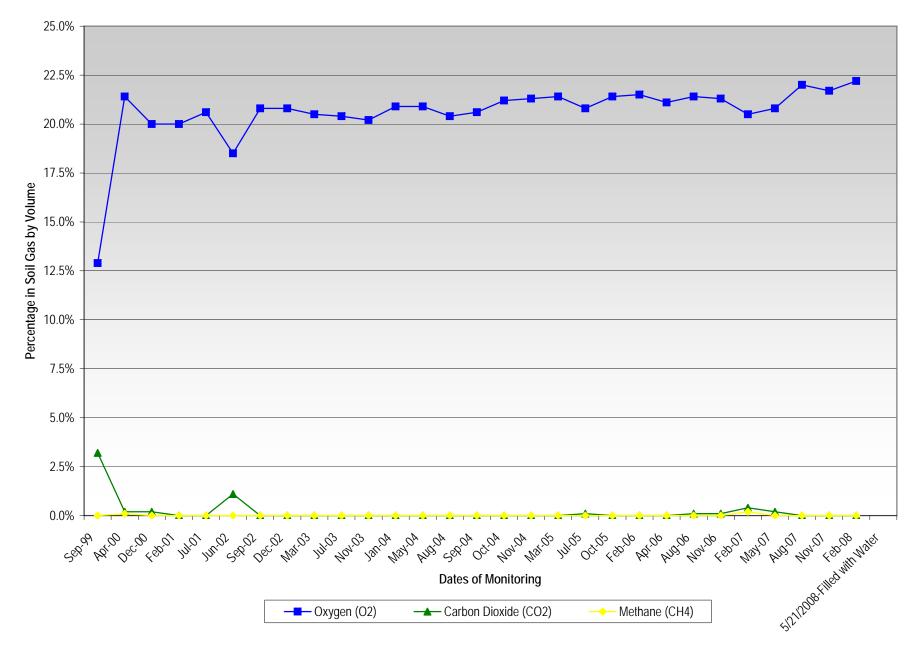
Soil Gas Well MPL5 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



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



Soil Gas Well WB7 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

