

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

www.arcadis-us.com

SER-1

Subject:

February 2011 Quarterly Monitoring Report for Springfield Street School Complex

Dear Mr. Crawford:

ARCADIS Inc. (ARCADIS, formerly LFR, Inc.) conducted quarterly monitoring of soil gas, indoor air, the cap, and the sub-slab ventilation system between February 14, 2011 and March 14, 2011. The monitoring was performed in accordance with the Long-Term Operation and Maintenance Plan and Site Contingency Plan (O&M Plan) contained in the Remedial Action Work Plan prepared by ATC dated April 2, 1999, revised May 3, 1999 and May 9, 1999. The Remedial Action Work Plan (RAWP) was approved by the Rhode Island Department of Environmental Management (RIDEM) in a letter dated June 4, 1999.

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

COVER MONITORING

ARCADIS conducted a visual survey of the site on February 17, 2011 for evidence of significant soil cover erosion, or for any areas where the orange snow fencing indicator barrier was visible. ARCADIS did not observe any areas where the orange indicator barrier was visible during this monitoring event. Some holes, apparently due to erosion from stormwater runoff and settling, were observed along the middle school building foundation in the courtyard adjacent to the cafeteria and along the back wall near the electrical transformer. These holes will be repaired and the repairs will be documented.

Date:

March 22, 2011

Contact:

Donna H. Pallister, PE

Phone:

401-738-3887

Email

Donna.pallister@arcadisus.com

Our ref:

WK012152.0007

SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by ARCADIS during the quarterly monitoring on February 17, 2011. The two elementary school blowers and the blower in the back shed at the middle school were operating normally upon arrival. The blower in the front shed was not operating because the knockout tank had filled with water, then the water froze in the tank. This condition was observed during a routine inspection prior to the quarterly inspection and reported to RIDEM. The tank was thawed and drained during the week of February 21, 2011, and the system was restarted. The tank was drained again on March 4 and March 7, 2011.

Samples of influent and effluent (before and after the carbon canisters) air were collected at each operating blower and screened for methane, carbon dioxide, oxygen, carbon monoxide, hydrogen sulfide, and organic vapors using a Landtec GEM2000, a MiniRae 2000, and a Q-Rae multigas meter. Results of screening are provided on Table 1. Methane, carbon monoxide, hydrogen sulfide and organic vapors were not detected in any of the samples. Carbon dioxide was detected at a concentration of 0.2% at each location; all of the sample concentrations were greater than the RAWP Action Level of 1000 ppm.

INDOOR AIR MONITORING

Indoor air monitoring was conducted on February 17, 2011 using a QRAE plus multigas meter (methane, hydrogen sulfide, oxygen), a Mini Rae photoionization detector (organic vapors), and a Fluke 975 Airmeter (carbon dioxide, carbon monoxide). School was in session during the monitoring event. Results of monitoring are provided in the Table 2. Carbon dioxide measurements were made with a Fluke 975 Airmeter indoor air quality meter. The Fluke 975 has a range of 0 to 5,000 ppm, with a resolution of 1 ppm.

The outside temperature on February 17, 2011 was 56 °F. Carbon dioxide was measured outside in the school parking lot at 540 ppm.

All readings were below the RAWP Action Levels, except for two carbon dioxide readings. A concentration of 1223 ppm carbon dioxide was recorded in the fully occupied middle school cafeteria, and of 1175 ppm was recorded in the fully occupied elementary school gymnasium where an assembly had been conducted just before the measurement was made.

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

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

The control panels for the methane monitors at both schools were inspected on February 17, 2011. The methane monitor control panels had stickers that indicated that the monitors were calibrated by Diamond Technical Services within the month prior to the inspection. Diamond Technical Services calibrates the sensors on a monthly basis.

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

GROUNDWATER MONITORING

One groundwater monitoring well was sampled by ARCADIS on February 24, 2011. Three monitoring wells, ATC-2, ATC-3, and ATC-5 were not able to be sampled because they were damaged. Monitoring well ATC-4 was not able to be sampled

because it was buried under a snow bank. Plans are being made to replace the damaged wells before the next quarterly sampling round.

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

Analysis of groundwater from monitoring well ATC-1 did not detect any target analytes.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 20 locations on February 23 and 24, March 14, 2011. Nine other soil gas monitoring wells were not sampled because they were buried under snowbanks and ice. The sampling was conducted by placing an air sampling gripper cap on each well and attaching a piece of tubing. A volume of air equivalent to approximately 3 well volumes was removed from each well using a Sensidyne BDXII air sampling pump. Soil gas was then screened using a Landtec GEM 2000 Plus Landfill Gas Analyzer and a MiniRae Photoionization Detector (PID).

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

Soil Gas Field Monitoring Results

Soil gas samples were screened for methane, carbon monoxide, hydrogen sulfide, carbon dioxide, oxygen, and total VOCs. Soil gas survey results are provided in Table 4. Carbon monoxide, hydrogen sulfide and organic vapors were not detected in any samples. Methane was detected in one well, MPL7, at 1.0%, which is above the RAWP action level of 0.5%. This finding was reported to RIDEM on February 23 when it was discovered.

MPL7 is located near the northeastern corner of the property, near the intersection of Hartford Avenue and Springfield Street. ARCADIS personnel noted that a contractor

appeared to cleaning or repairing the sewer line in the Hartford Avenue adjacent to the area where the soil gas monitoring wells were located. Therefore, it is possible that the elevated reading was due to sewer gas migrating into the well from the sewer line.

Soil gas well MPL7 was rescreened on March 14, 2011, along with several near by wells. The concentration of methane detected at this time was 0.4% which was below the RAWP action level of 0.5%. Methane was not detected in any of the other nearby wells. These results are also included in Table 4.

Carbon dioxide was detected in soil gas at concentrations ranging from 0.0% to 6.5% during the February monitoring event. The carbon dioxide Remedial Action Work Plan Action Level is 0.1% and 14 readings exceeded the action level. The maximum concentration detected during the February round was 6.5%. This is consistent with the pattern shown during previous rounds of declining carbon dioxide concentrations in the winter, and increasing concentrations in the summer. Graphs presenting carbon dioxide, oxygen, and methane concentrations over time for selected representative wells are presented in Attachment C.

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

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.

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

Hydrogen sulfide, carbon monoxide and organic vapor concentrations did not exceed RAWP action levels in any soil gas or indoor air samples. Carbon dioxide concentrations exceeded the action level at many soil gas locations and two interior 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. The elevated concentrations of carbon dioxide inside Site buildings corresponded to high occupancy, is not considered to be related to the soil gas concentrations.

The elevated concentration of methane detected in soil gas well MPL7 located on the northern end of the property near Hartford Avenue appeared to be related to sewer repair work being conducted at the time of monitoring in February. Retesting in March 2011 found a lower concentration of methane of 0.4%, which was less than the RAWP action level.

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

Sincerely, ARCADIS U.S., Inc.

Donna H. Pallister, PE, LSP Senior Environmental Engineer

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Copies:

S. Tremblay, Providence Schools A. Sepe, City of Providence Providence Public Building Authority

ARCADIS

Tables

Table 1 System Monitoring Notes Springfield Street School Complex Providence, Rhode Island February 17, 2011

Monitoring Location	Methane % by volume Landtec	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
Elementary School inlet 1	0.0	0.2	20.8	0	0	0.0
Elementary School inlet 2	0.0	0.2	20.9	0	0	0.0
Elementary School Outlet	0.0	0.2	20.9	0	0	0.0
Middle School front shed inlet	OFF	- Ice in knockout	tank			
Middle School front shed after 2 nd carbon	OFF	- Ice in knockout	tank			
Middle School back shed inlet	0.0	0.2	20.6	0	0	0.0
Middle School back shed after 2 nd carbon	0.0	0.2	20.5	0	0	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Measurements made with: Land tee GEM2000, MiniRAE 2000, Q-RAE multigas meter

Sampling date: February 17, 2011

Measured by: D. Pallister

Table 2 Indoor Air Monitoring Results Springfield Street School Complex Providence, Rhode Island February 17, 2011

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	620	19.7	0	0	0.0
E.S. Elevator	0	512	19.7	0	0	0.0
E.S. Faculty Work Room	0	596	19.8	0	0	0.0
E.S. Gym	0	1,175	20.7	0	0	0.0
E.S. Stairway B	0	467	20.1	0	0	0.0
E.S. Room 102	0	862	20.3	0	0	0.0
E.S. Library	0	518	20.5	0	0	0.0
E.S. Room 111 Music/Art Room	0	748	20.9	0	0	0.0
E.S. Cafeteria	0	497	21.2	0	0	0.0
E.S. Mechanical Room	0	862	20.0	0	0	0.0
Stairway C	0	521	20.9	0	0	0.0

Table 2 Indoor Air Monitoring Notes Springfield Street School Complex February 17, 2011

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	646	21.8	0	0	0.0
M.S. Elevator	0	621	22.1	0	0	0.0
M.S. Stairway near Hartford Ave. GS-07	0	669	23.4	0	0	0.0
M.S. Near sensor #16 in hall outside cafeteria	0	948	23.1	0	0	0.0
M.S. Faculty Work Room	0	944	23.1	0	0	0.0
M.S. Music/Art Room	0	924	22.5	1	0	0.0
M.S. GS-03 Across from Boys Bathroom	0	728	22.1	0	0	0.0
M.S. Second Floor - Library	0	783	23.4	0	0	0.0
M.S. Cafeteria	0	1,223	23.0	0	0	0.0

Table 2 Indoor Air Monitoring Notes Springfield Street School Complex February 17, 2011

Monitoring Location	Methane as % LEL	Carbon Dioxide PPM	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Front Hall near sensor #4	0	869	23.3	0	0	0.0
M.S. Hallway across from elevator near sensor #9	0	781	22.4	0	0	0.0
M.S. Near sensor GS 06 hallway right end	0	936	23.3	0	0	0.0
M.S. stairway near Elem. sensor GS-1	0	956	22.3	0	0	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ррт	10 ppm	5 ppm

Notes:

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

Measurements made with: MiniRAE 2000, Q-RAE Multigas Meter, Fluke 975 Airmeter

PPM = Parts per million

Outdoor conditions: carbon monoxide = 1 ppm, carbon dioxide = 540 ppm, temperature = 56.3 °F.

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

											Samplin	g Dates a	nd Results	in μg/L																							RIDEM G
																10/27&28/																					Groundwa
Well Detected Compounds	s 2/28/200	1 7/20/2001	<u> *9- 12/200</u>	1 8/1/2002	8/28/2002	12/19/2002	2 3/18/2003	3 7/17/2003	11/5/2003	1/22/2004	5/21/2004 8	8/17/2004	12/2/2004	4/6/2005	7/27/2005	2005	2/2/2006	4/27/2006	8/31/2006	11/15/2006	3/27/2007	5/21/2007	8/20/2007	11/13/2007	7 2/12/2008	8 5/21/2008	8 8/26/2008	11/18/2008	3 2/17/2009	5/7/2009	8/25/2009	11/18/2009	3/1/2010	5/20/2010	8/25/2010	11/19/2010 2/24/20	Objective
TC-1																																					
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	ND	ND	ND	ND	ND ND	
n-butylbenzene	1.7	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
sec-Butylbenzene	1.1	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
Ethylbenzene	4.5	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
Isopropylbenzene	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
n-Propylbenzene	ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
MTBE	12.4	7.0	28.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	1.27	ND	ND	ND	ND	ND	1.10	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
Toluene	2.5	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND 	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
1,2,4-Trimethylbenzene		ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
1,3,5-Trimethylbenzene		ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
Xylenes	14.6	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	
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	ND	ND	ND	ND	ND ND	NA NA
TC-2																																					
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	NS	NS	NS	NS	NS	NS NS	NA
TC-3																							1					1									
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	2.3	1.3	ND	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS NS	1700
TC-4																																					
Benzene	ND	ND	2.5	0.6	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND NS	140
Chlorobenzene	2.6	ND	57.3	2.7	5.18	ND	ND	ND	ND	ND	ND	ND	0.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.80	1.90	ND	ND	1.2	ND	ND	ND	1	ND	ND	ND	ND	ND NS	70
1,4-dichlorobenzene	4.2	ND	9.2	3.4	3.36	ND	ND	ND	ND	ND	0.80	1.6	2.1	ND	ND	ND	ND	ND	1.2	1.1	ND	1.2	2.1	2.1	ND	ND	2.1	1.4	ND	1.7	1.5	ND	ND	ND	ND	1.5 NS	
MTBE	ND	ND	ND	ND	ND	ND	ND	1.19	9.55	1.06	2.90	0.6	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 NS	5000
1,2,4-Trimethylbenzene		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	ND	ND	ND	ND	ND NS	NA
tert-Amyl Methyl Ether											,,,,	NE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				NE			NE									,,,,,	NE						
(TAME)	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND NS	NA NA
TC-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	ND	ND	ND	NS	NS NS	5000
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	ND	ND	ND	NS	NS NS	NA
mnled Rv:	ATC	ATC	ATC	ATC	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	ARCADIS	ARCADIS	ARCADIS	ARCADIS ARCAI)IS
mpled By:			1		LFN	LFN	LEN	LFK	LEN	LI-IN	LIN	LI IX	L C N	<u></u>	LI N	LIN	LIN	LIT	LI-T	LI IX	LI-IX	<u> </u>	LFIX	L F IX	LFN	LFN		LFIN	LFR	L	LI T	LFIX	TAILOUDIO	AITOADIS	AINOADIO	ALCADIO ALCAL	10

*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
February 23 & 24, 2011

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
WB-1			Unable to loc	ate due to sno	W	
WB-2	0	0.2	20.9	0	0	0.0
WB-3			Unable to loc	ate due to sno	W	
WB-4	0	0.1	21.3	0	0	0.0
WB-5			Unable to loc	ate due to sno	W	
WB-6	0	0.1	21.2	0	0	0.0
WB-7			Unable to loc	ate due to sno	W	
WB-8	0	0.1	21.3	0	0	0.0
WB-12	0	0.8	20.6	0	0	0.0
WB-13	0	0.3	20.9	0	0	0.0
WB-14	0	0.1	20.8	0	0	0.0
WB-15			Unable to loc	ate due to sno	W	
EPL-1	0	0.1	21.0	0	0	0.0
EPL-2	0	0.1	20.9	0	0	0.0
EPL-3	0	2.0	18.7	0	0	0.0
EPL-4	0	1.3	18.7	0	0	0.0
EPL-5			Unable to loc	ate due to sno	W	
ENE-1	0	2.0	19.3	0	0	0.0
L	<u> </u>	1	1	ı		

Table 4
Soil Gas Survey Field Notes
Springfield Street School Complex
Providence, Rhode Island
February 23 & 24, 2011

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MG1		1	Unable to loca	ate due to sno	W	
MG2	0	0.2	20.9	0	0	0.0
MG3	0	0.9	20.7	0	0	0.0
MG4	0	0.6	21.7	0	0	0.0
MG5	0	1.1	20.7	0	0	0.0
MPL2		1	Unable to loca	ate due to sno	W	L
MPL3		٦	Unable to loca	ate due to sno	W	
MPL5	0	4.7	16.9	0	0	0.0
MPL6	0	6.5	2.9	0	0	0.0
MPL7	1.0	4.9	9.8	0	0	0.0
MPL8	0	1.2	20.3	0	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

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

Table 4 Soil Gas Survey Field Notes Springfield Street School Complex Providence, Rhode Island March 14, 2011

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MPL3	0	2.0	18.5	0	0	0.0
MPL5	0	2.3	18.9	0	0	0.0
MPL6	0	5.2	4.3	0	0	0.0
MPL7	0.4	6.7	3.5	0	0	0.0
Remedial Action Work Plan Action Levels	0.5%	1,000 PPM	NA	9 PPM	10 PPM	5 PPM

ARCADIS

Appendix A
Limitations & Service Constraints

LIMITATIONS AND SERVICE CONSTRAINTS

GENERAL REPORTS/DOCUMENT

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

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ARCADIS

Appendix B Laboratory Results



March 4, 2011

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

Project Location: Springfield St

Client Job Number:

Project Number: WK012152.07

Laboratory Work Order Number: 11B0576

Holy L. Tolson

Enclosed are results of analyses for samples received by the laboratory on February 25, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom Project Manager



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

Warwick, RI 02886
ATTN: Donna Pallister

5131

REPORT DATE: 3/4/2011

PROJECT NUMBER: WK012152.07

PURCHASE ORDER NUMBER:

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11B0576

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	11B0576-01	Ground Water		SW-846 8260B	
Trip Blank	11B0576-02	Trip Blank Water		SW-846 8260B	



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

Qualifications:

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

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

11B0576-01[ATC-1], 11B0576-02[Trip Blank], B026604-BLK1, B026604-BS1, B026604-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, tert-Butyl Alcohol (TBA)

11B0576-01[ATC-1], 11B0576-02[Trip Blank], B026604-BLK1, B026604-BS1, B026604-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.

Daren J. Damboragian Laboratory Manager



Project Location: Springfield St Sample Description: Work Order: 11B0576

Date Received: 2/25/2011
Field Sample #: ATC-1

Sampled: 2/24/2011 17:30

Sample ID: 11B0576-01
Sample Matrix: Ground Water

Actions	Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
International Process No. 0.50 1.00	Acetone	ND	50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Bennener	Acrylonitrile	ND	5.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Brownechtementementementer No 1	tert-Amyl Methyl Ether (TAME)	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Bromeschlaromethane	Benzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Brownoidelhoromethane	Bromobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Remonfarina	Bromochloromethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Promomethane	Bromodichloromethane	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
2-Butanone (MEK) ND 20 μg/L 1 NSW-446 82608 22811 22811 1045 MFF lett-Butyl Alcebrod (TIA) ND 20 μg/L 1 NSW-46 82608 22811 22811 1045 MFF lett-Butyl Alcebrod (TIA) ND 10 μg/L 1 SW-468 82608 22811 22811 1045 MFF sec-Butylhenzene ND 10 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 10 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468 82608 22811 22811 1045 MFF lett-Butyl Ethyr (TIBE) ND 0.50 μg/L 1 SW-468	Bromoform	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
tert-Butyl Alcohol (TBA) ND 20	Bromomethane	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
n-Buylbenzene ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF see-Buylbenzene ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF tert-Buylbenzene ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF tert-Buylbenzene ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF tert-Buylbenzene ND 0.50 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Carbon Disulfide ND 2.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Carbon Disulfide ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Carbon Disulfide ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 2.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 2.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 2.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 2.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 2.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Chlorocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF Dibromocharcae (ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromo-charcae (ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromo-charcae (ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibromocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L2-Dibrhorocharcae ND 1.0 µg/L 1 SW-846 8260B 22811 22811 10.45 MFF L3-Dibrhorocharcae N	2-Butanone (MEK)	ND	20	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
See-Butylbenzene ND 1.0 μg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Lett-ButylEbptyl Ether (TBEE) ND 0.50 μg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Lett-Butyl Ethyl Ethy	tert-Butyl Alcohol (TBA)	ND	20	$\mu g/L$	1	V-16	SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Tert-Buty Denzence	n-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Carbon Disulfide ND 0.50 Bg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF	sec-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Carbon Disalfide	tert-Butylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Carbon Tetrachloride ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorobenzene ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorobenzene ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane (DBCP) ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane (EDB) ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane (EDB) ND 0.50 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorochane ND 1.0 µg/L 1 SW-846 8260B 228/11 228/	tert-Butyl Ethyl Ether (TBEE)	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Chlorodenzene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibromomethane ND 0.50 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibromomethane ND 0.50 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chloroform ND 2.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chloroform ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene (EDB) ND 5.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene (EDB) ND 0.50 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodibrene ND 1.0 pg/L 1 SW-846 8260B 228/11 228/11 10.45 MFF Chlorodi	Carbon Disulfide	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Chlorodibromomethane	Carbon Tetrachloride	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Chloroethane ND 2.0	Chlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Chloroform ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF Chloromethane ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 2-Chlorotoluene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 4-Chlorotoluene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.2-Dibromo-3-chloropropane (DBCP) ND 5.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.2-Dibromo-chloropropane (DBCP) ND 5.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.2-Dibromo-chlane (EDB) ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.2-Dibromoethane (EDB) ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.2-Dibromoethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.3-Dibrhorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.4-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.4-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.4-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.4-Dichloroethane (Froon 12) ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethane (Froon 12) ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloropropane ND 1.0 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1.1-Dichloropropane ND 1.0 SW-846 8260B 2/28/	Chlorodibromomethane	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Chloromethane ND 2.0	Chloroethane	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
2-Chlorotoluene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 4-Chlorotoluene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,2-Dibromo-3-chloropropane (DBCP) ND 5.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,2-Dibromoethane (EDB) ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,2-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,3-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,3-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,4-Dichloro-2-butene ND 2.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,4-Dichloro-2-butene ND 2.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorochlane (Freon 12) ND 2.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorochlane (Freon 12) ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorochlane (Freon 12) ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorochlane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochlylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1-1-Dichlorochl	Chloroform	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
4-Chlorotoluene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,2-Dibromo-3-chloropropane (DBCP) ND 5.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,2-Dibromo-thane (EDB) ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,2-Dibromoethane (EDB) ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,2-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,3-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,3-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,4-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 2.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichloropenae ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichloropenae ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichloropenae ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichloropenae ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichloropenae ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichloropenae ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45 MFF 1,1-Dichloropenae ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10.45	Chloromethane	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1.2-Dibromo-3-chloropropane (DBCP) ND 5.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dibromoethane (EDB) ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichlorochane (Freon 12) ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichlorochylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11	2-Chlorotoluene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2-Dibromoethane (EDB) ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF Dibromomethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,4-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,4-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF Dichlorodifluoromethane (Freon 12) ND 2.0 µg/L 1 V-05 SW-846 8260B 2/28/11 2/28/11 10:45 MFF Dichlorodifluoromethane (Freon 12) ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,4-Dichloropopane ND 1.0 1.0 1.0 1.0 1.	4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Dibromomethane	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,4-Dichlorobenzene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF trans-1,4-Dichloro-2-butene ND 2.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF Dichlorodifluoromethane (Freon 12) ND 2.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF cis-1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 826	1,2-Dibromoethane (EDB)	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,3-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,4-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF trans-1,4-Dichloro-2-butene ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF Dichlorodifluoromethane (Freon 12) ND 2.0 µg/L 1 V-05 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 µg/L 1 SW-846 826	Dibromomethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,4-Dichlorobenzene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF trans-1,4-Dichloro-2-butene ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF Dichlorodifluoromethane (Freon 12) ND 2.0 µg/L 1 V-05 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroptopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 0.50	1,2-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
trans-1,4-Dichloro-2-butene ND 2.0 μg/L 1 V-05 SW-846 8260B 2/28/11 2/28/11 10:45 MFF Dichlorodifluoromethane (Freon 12) ND 2.0 μg/L 1 V-05 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF cis-1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroptopane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1	1,3-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Dichlorodifluoromethane (Freon 12) ND 2.0 μg/L 1 V-05 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethylene ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane	1,4-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF cis-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF trans-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroptopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloroptopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloroptopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptopane ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	trans-1,4-Dichloro-2-butene	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2-Dichloroethane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF cis-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF trans-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloropthylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	Dichlorodifluoromethane (Freon 12)	ND	2.0	$\mu g/L$	1	V-05	SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF cis-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF trans-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane	1,1-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
cis-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF trans-1,2-Dichloroptylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloroptylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloroptylene ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloroptylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptylene ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloroptylene ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	1,2-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
trans-1,2-Dichloroethylene ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropene ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	1,1-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,3-Dichloropropane ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropane ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	cis-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,3-Dichloropropane ND 0.50 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 2,2-Dichloropropane ND 1.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropene ND 2.0 μg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	trans-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
2,2-Dichloropropane ND 1.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF 1,1-Dichloropropene ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	1,2-Dichloropropane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1-Dichloropropene ND 2.0 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	1,3-Dichloropropane	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
	2,2-Dichloropropane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
cis-1,3-Dichloropropene ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	1,1-Dichloropropene	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
	cis-1,3-Dichloropropene	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
trans-1,3-Dichloropropene ND 0.50 µg/L 1 SW-846 8260B 2/28/11 2/28/11 10:45 MFF	trans-1,3-Dichloropropene	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF



Project Location: Springfield St Sample Description: Work Order: 11B0576

Date Received: 2/25/2011 Field Sample #: ATC-1

Sampled: 2/24/2011 17:30

Sample ID: 11B0576-01 Sample Matrix: Ground Water

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	2.0	μg/L	1	-	SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Diisopropyl Ether (DIPE)	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Ethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Hexachlorobutadiene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Methylene Chloride	ND	5.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Naphthalene	ND	5.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
n-Propylbenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Styrene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Tetrachloroethylene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Tetrahydrofuran	ND	10	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Toluene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2,3-Trichlorobenzene	ND	5.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2,4-Trichlorobenzene	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,3,5-Trichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1,1-Trichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Trichloroethylene	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2,3-Trichloropropane	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,2,4-Trimethylbenzene	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
1,3,5-Trimethylbenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Vinyl Chloride	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
m+p Xylene	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
o-Xylene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:45	MFF
Surrogates		% Recovery	Recovery Limits		Flag				
1,2-Dichloroethane-d4		92.6	70-130					2/28/11 10:45	
Toluene-d8		96.7	70-130					2/28/11 10:45	



Project Location: Springfield St Sample Description: Work Order: 11B0576

Date Received: 2/25/2011

Field Sample #: Trip Blank

Sampled: 2/24/2011 00:00

Sample ID: 11B0576-02

Sample Matrix: Trip Blank Water

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Acrylonitrile	ND	5.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Benzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Bromobenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Bromochloromethane	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Bromodichloromethane	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Bromoform	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Bromomethane	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
2-Butanone (MEK)	ND	20	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
tert-Butyl Alcohol (TBA)	ND	20	μg/L	1	V-16	SW-846 8260B	2/28/11	2/28/11 10:15	MFF
n-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
sec-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
tert-Butylbenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Carbon Disulfide	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Carbon Tetrachloride	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Chlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Chlorodibromomethane	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Chloroethane	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Chloroform	2.6	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Chloromethane	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
2-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
4-Chlorotoluene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2-Dibromoethane (EDB)	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Dibromomethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,3-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,4-Dichlorobenzene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	μg/L	1	V-05	SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2-Dichloroethane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
cis-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
trans-1,2-Dichloroethylene	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2-Dichloropropane	ND	1.0	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,3-Dichloropropane	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
2,2-Dichloropropane	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1-Dichloropropene	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
cis-1,3-Dichloropropene	ND	0.50	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
trans-1,3-Dichloropropene	ND	0.50	$\mu g/L$	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF



Project Location: Springfield St Sample Description: Work Order: 11B0576

Date Received: 2/25/2011 Field Sample #: Trip Blank

Sampled: 2/24/2011 00:00

Sample ID: 11B0576-02 Sample Matrix: Trip Blank Water

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	2.0	μg/L	1	Tiag	SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Diisopropyl Ether (DIPE)	ND	0.50	μg/L μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,4-Dioxane	ND	50	μg/L	1	V-16	SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Ethylbenzene	ND	1.0	μg/L	1	, 10	SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Hexachlorobutadiene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
2-Hexanone (MBK)	ND	10	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Isopropylbenzene (Cumene)	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	μg/L μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Methylene Chloride	ND	5.0	μg/L μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	μg/L μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Naphthalene	ND	5.0	μg/L μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
n-Propylbenzene	ND	1.0	μg/L μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Styrene	ND	1.0		1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	1		SW-846 8260B			MFF
Tetrachloroethylene			μg/L	1			2/28/11	2/28/11 10:15	
Tetrahydrofuran	ND ND	1.0 10	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Toluene			μg/L			SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2,4-Trichlorobenzene	ND	5.0	μg/L			SW-846 8260B	2/28/11	2/28/11 10:15	MFF
* *	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,3,5-Trichlorobenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1,1-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1,2-Trichloroethane	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Trichloroethylene	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2,3-Trichloropropane	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Vinyl Chloride	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
m+p Xylene	ND	2.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
o-Xylene	ND	1.0	μg/L	1		SW-846 8260B	2/28/11	2/28/11 10:15	MFF
Surrogates		% Recovery	Recovery Limits	s	Flag				
1,2-Dichloroethane-d4		92.1	70-130					2/28/11 10:15	
Toluene-d8		94.8	70-130					2/28/11 10:15	



Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11B0576-01 [ATC-1]	B026604	5	5.00	02/28/11
11B0576-02 [Trip Blank]	B026604	5	5.00	02/28/11



QUALITY CONTROL

	D	Reporting		Spike	Source	0/855	%REC	D.55	RPD	27.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B026604 - SW-846 5030B										
Blank (B026604-BLK1)				Prepared &	Analyzed: 02	/28/11				
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	$\mu g/L$							
Bromochloromethane	ND	1.0	μg/L							
Bromodichloromethane	ND	0.50	μg/L							
Bromoform	ND	1.0	μg/L							
Bromomethane	ND	2.0	μg/L							
2-Butanone (MEK)	ND	20	μg/L							
tert-Butyl Alcohol (TBA)	ND	20	μg/L							V-16
n-Butylbenzene	ND	1.0	μg/L							
sec-Butylbenzene	ND	1.0	μg/L							
tert-Butylbenzene	ND	1.0	μg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	μg/L							
Carbon Disulfide	ND	2.0	μg/L							
Carbon Tetrachloride	ND	1.0	μg/L							
Chlorodikasasasathasa	ND	1.0	μg/L							
Chlorodibromomethane	ND	0.50	μg/L							
Chloroform	ND	2.0	μg/L							
Chloroform Chloromethane	ND	2.0 2.0	μg/L							
2-Chlorotoluene	ND	1.0	μg/L							
4-Chlorotoluene	ND	1.0	μg/L μg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	μg/L μg/L							
1,2-Dibromoethane (EDB)	ND	0.50	μg/L μg/L							
Dibromomethane (EDB)	ND	1.0	μg/L μg/L							
1,2-Dichlorobenzene	ND	1.0	μg/L μg/L							
1,3-Dichlorobenzene	ND ND	1.0	μg/L μg/L							
1,4-Dichlorobenzene	ND ND	1.0	μg/L μg/L							
trans-1,4-Dichloro-2-butene	ND ND	2.0	μg/L							
Dichlorodifluoromethane (Freon 12)	ND ND	2.0	μg/L							V-05
1,1-Dichloroethane	ND ND	1.0	μg/L μg/L							. 00
1,2-Dichloroethane	ND ND	1.0	μg/L							
1,1-Dichloroethylene	ND ND	1.0	μg/L							
cis-1,2-Dichloroethylene	ND	1.0	μg/L							
trans-1,2-Dichloroethylene	ND	1.0	μg/L							
1,2-Dichloropropane	ND	1.0	μg/L							
1,3-Dichloropropane	ND	0.50	μg/L							
2,2-Dichloropropane	ND	1.0	μg/L							
1,1-Dichloropropene	ND	2.0	μg/L							
cis-1,3-Dichloropropene	ND	0.50	μg/L							
trans-1,3-Dichloropropene	ND	0.50	μg/L							
Diethyl Ether	ND	2.0	μg/L							
Diisopropyl Ether (DIPE)	ND	0.50	$\mu g\!/\!L$							
1,4-Dioxane	ND	50	$\mu g\!/\!L$							V-16
Ethylbenzene	ND	1.0	$\mu g/L$							
Hexachlorobutadiene	ND	1.0	$\mu g/L$							
2-Hexanone (MBK)	ND	10	$\mu \text{g}/L$							
Isopropylbenzene (Cumene)	ND	1.0	$\mu \text{g}/L$							
p-Isopropyltoluene (p-Cymene)	ND	1.0	$\mu \text{g/L}$							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	$\mu g/L$							



QUALITY CONTROL

Spike

Source

RPD

%REC

Volatile Organic Compounds by GC/MS - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
atch B026604 - SW-846 5030B										
lank (B026604-BLK1)				Prepared &	Analyzed: 02	/28/11				
fethylene Chloride	ND	5.0	μg/L							
-Methyl-2-pentanone (MIBK)	ND	10	$\mu g/L$							
aphthalene	ND	5.0	$\mu g/L$							
-Propylbenzene	ND	1.0	$\mu g/L$							
tyrene	ND	1.0	$\mu g/L$							
1,1,2-Tetrachloroethane	ND	1.0	μg/L							
1,2,2-Tetrachloroethane	ND	0.50	$\mu g/L$							
etrachloroethylene	ND	1.0	μg/L							
etrahydrofuran	ND	10	μg/L							
oluene	ND	1.0	μg/L							
2,3-Trichlorobenzene	ND	5.0	μg/L							
2,4-Trichlorobenzene	ND	2.0	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							
richloroethylene	ND	2.0	μg/L							
richlorofluoromethane (Freon 11)	ND ND	2.0	μg/L							
2,3-Trichloropropane	ND ND	2.0	μg/L μg/L							
1,2-Trichloro-1,2,2-trifluoroethane (Freon 3)	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							
+p Xylene	ND	2.0	μg/L							
Xylene	ND	1.0	μg/L							
<u> </u>				25.0		90.0	70.120			
urrogate: 1,2-Dichloroethane-d4	22.5		μg/L	25.0		89.9	70-130			
arrogate: Toluene-d8	24.3		μg/L μg/L	25.0 25.0		97.2 100	70-130 70-130			
urrogate: 4-Bromofluorobenzene	25.1			23.0		100	70-150			
	25.1		μg/L	Dramarad fr	Amaluzadi 02	/20/11				
CS (B026604-BS1)		50		Prepared & A	Analyzed: 02		70.160			
CS (B026604-BS1) cetone	129	50	μg/L	100	Analyzed: 02	129	70-160			
CS (B026604-BS1) cetone crylonitrile	129 8.96	5.0	μg/L μg/L	100 10.0	Analyzed: 02	129 89.6	70-130			
cetone crylonitrile rt-Amyl Methyl Ether (TAME)	129 8.96 10.7	5.0 0.50	μg/L μg/L μg/L	100 10.0 10.0	Analyzed: 02	129 89.6 107	70-130 70-130			
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene	129 8.96 10.7 9.98	5.0 0.50 1.0	μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8	70-130 70-130 70-130			
CS (B026604-BS1) cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene	129 8.96 10.7 9.98 9.97	5.0 0.50 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7	70-130 70-130 70-130 70-130			
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane	129 8.96 10.7 9.98 9.97 9.68	5.0 0.50 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8	70-130 70-130 70-130 70-130 70-130			
CS (B026604-BS1) cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane	129 8.96 10.7 9.98 9.97 9.68 10.1	5.0 0.50 1.0 1.0 1.0 0.50	μg/L μg/L μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101	70-130 70-130 70-130 70-130 70-130 70-130			
cetone crylonitrile rt-Amyl Methyl Ether (TAME) ceromobenzene romobloromethane romodichloromethane romoform	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8	5.0 0.50 1.0 1.0 1.0 0.50	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108	70-130 70-130 70-130 70-130 70-130 70-130			
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romoform romomethane	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160			
CS (B026604-BS1) cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romoform romomethane Butanone (MEK)	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160			
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romoform romomethane Butanone (MEK) rt-Butyl Alcohol (TBA)	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 40-160			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romochloromethane romodichloromethane romoform romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 20 1.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 70-130			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) cenzene romochloromethane romodichloromethane romomethane romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene c-Butylbenzene	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 40-160			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romochloromethane romodichloromethane romoform romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene c-Butylbenzene rt-Butylbenzene rt-Butylbenzene	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 70-130 70-130 70-130			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) cetone cromobenzene cromochloromethane cromodichloromethane cromoform cromomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene c-Butylbenzene ct-Butylbenzene ct-Butylbenzene	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 70-130 70-130			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene c-Butylbenzene rt-Butyl Ethyl Ether (TBEE)	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106 106	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 70-130 70-130 70-130			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene c-Butylbenzene rt-Butyl Ethyl Ether (TBEE) arbon Disulfide	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6 10.5 9.52	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0 1.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106 106 105 95.2	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 70-130 70-130 70-130			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene cc-Butylbenzene rt-Butyl Ethyl Ether (TBEE) arbon Disulfide arbon Tetrachloride	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6 10.5 9.52 10.8	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0 1.0 2.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106 106 105 95.2	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 40-160 70-130 70-130 70-130 70-130			V-16
cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene cc-Butylbenzene rt-Butyl Ethyl Ether (TBEE) arbon Disulfide arbon Tetrachloride hlorobenzene	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6 10.5 9.52 10.8 9.88	5.0 0.50 1.0 1.0 0.50 1.0 2.0 20 20 1.0 1.0 0.50 2.0 2.0 2.0 2.0 1.0 1.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106 106 105 95.2 108 98.8	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 40-160 70-130 70-130 70-130 70-130 70-130			V-16
CS (B026604-BS1) cetone crylonitrile rt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romodichloromethane romoform romomethane Butanone (MEK) rt-Butyl Alcohol (TBA) Butylbenzene rc-Butylbenzene rt-Butylbenzene rt-Butyl Ethyl Ether (TBEE) arbon Disulfide arbon Tetrachloride hlorodibromomethane	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6 10.5 9.52 10.8 9.88 11.1	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0 0.50 1.0 1.0 1.0	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106 106 105 95.2 108 98.8	70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 40-160 70-130 70-130 70-130 70-130 70-130 70-130			V-16
cetone crylonitrile crt-Amyl Methyl Ether (TAME) enzene romochloromethane romodichloromethane romodichloromethane romomethane -Butanone (MEK) ert-Butyl Alcohol (TBA) -Butylbenzene cre-Butylbenzene ert-Butyl Ethyl Ether (TBEE) arbon Disulfide arbon Tetrachloride hlorodibromomethane hloroform	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6 10.5 9.52 10.8 9.88 11.1 10.6	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0 0.50 2.0 1.0 1.0 0.50	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106 105 95.2 108 98.8 111	70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 40-160 70-130 70-130 70-130 70-130 70-130 70-130 70-130			V-16
cetone crylonitrile crt-Amyl Methyl Ether (TAME) enzene romobenzene romochloromethane romoform romomethane -Butanone (MEK) ert-Butyl Alcohol (TBA) -Butylbenzene cc-Butylbenzene ert-Butyl Ethyl Ether (TBEE) arbon Disulfide arbon Tetrachloride hlorodenee	129 8.96 10.7 9.98 9.97 9.68 10.1 10.8 7.13 107 83.3 10.6 10.6 10.5 9.52 10.8 9.88 11.1 10.6 8.65	5.0 0.50 1.0 1.0 1.0 0.50 1.0 2.0 20 1.0 1.0 0.50 2.0 1.0 0.50 2.0 2.0 2.0 2.0 1.0 1.0 0.50 2.0 2.0 2.0 2.0 1.0 0.50 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	100 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Analyzed: 02	129 89.6 107 99.8 99.7 96.8 101 108 71.3 107 41.7 106 105 95.2 108 98.8 111 106 86.5	70-130 70-130 70-130 70-130 70-130 70-130 70-130 40-160 40-160 40-160 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130			V-16



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B026604 - SW-846 5030B											
LCS (B026604-BS1)				Prepared &	Analyzed: 02/2	28/11					
4-Chlorotoluene	10.8	1.0	μg/L	10.0		108	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.72	5.0	$\mu g/L$	10.0		97.2	70-130				
1,2-Dibromoethane (EDB)	10.8	0.50	$\mu g/L$	10.0		108	70-130				
Dibromomethane	9.62	1.0	$\mu g/L$	10.0		96.2	70-130				
1,2-Dichlorobenzene	10.8	1.0	$\mu g/L$	10.0		108	70-130				
1,3-Dichlorobenzene	10.6	1.0	$\mu g/L$	10.0		106	70-130				
1,4-Dichlorobenzene	10.3	1.0	$\mu g/L$	10.0		103	70-130				
trans-1,4-Dichloro-2-butene	8.49	2.0	$\mu g/L$	10.0		84.9	70-130				
Dichlorodifluoromethane (Freon 12)	5.99	2.0	$\mu g/L$	10.0		59.9	40-160			V-05	Ť
1,1-Dichloroethane	9.89	1.0	$\mu g/L$	10.0		98.9	70-130				
1,2-Dichloroethane	9.66	1.0	$\mu g/L$	10.0		96.6	70-130				
1,1-Dichloroethylene	9.66	1.0	$\mu g/L$	10.0		96.6	70-130				
cis-1,2-Dichloroethylene	9.77	1.0	$\mu g\!/\!L$	10.0		97.7	70-130				
trans-1,2-Dichloroethylene	10.7	1.0	$\mu \text{g/L}$	10.0		107	70-130				
1,2-Dichloropropane	9.33	1.0	$\mu \text{g/L}$	10.0		93.3	70-130				
1,3-Dichloropropane	10.0	0.50	$\mu g/L$	10.0		100	70-130				
2,2-Dichloropropane	10.5	1.0	$\mu g/L$	10.0		105	40-130				†
1,1-Dichloropropene	9.82	2.0	$\mu g/L$	10.0		98.2	70-130				
cis-1,3-Dichloropropene	9.90	0.50	$\mu g/L$	10.0		99.0	70-130				
trans-1,3-Dichloropropene	10.6	0.50	$\mu g/L$	10.0		106	70-130				
Diethyl Ether	10.4	2.0	$\mu g/L$	10.0		104	70-130				
Diisopropyl Ether (DIPE)	10.2	0.50	$\mu g/L$	10.0		102	70-130				
1,4-Dioxane	92.1	50	$\mu g/L$	100		92.1	40-130			V-16	†
Ethylbenzene	10.5	1.0	$\mu g/L$	10.0		105	70-130				
Hexachlorobutadiene	10.2	1.0	$\mu g/L$	10.0		102	70-130				
2-Hexanone (MBK)	101	10	$\mu g/L$	100		101	70-160				†
Isopropylbenzene (Cumene)	12.7	1.0	$\mu g/L$	10.0		127	70-130				
p-Isopropyltoluene (p-Cymene)	10.9	1.0	$\mu g/L$	10.0		109	70-130				
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	$\mu g/L$	10.0		105	70-130				
Methylene Chloride	9.14	5.0	$\mu g/L$	10.0		91.4	70-130				
4-Methyl-2-pentanone (MIBK)	94.3	10	$\mu g/L$	100		94.3	70-160				†
Naphthalene	8.61	5.0	$\mu g/L$	10.0		86.1	40-130				†
n-Propylbenzene	10.7	1.0	$\mu g/L$	10.0		107	70-130				
Styrene	10.3	1.0	$\mu g/L$	10.0		103	70-130				
1,1,1,2-Tetrachloroethane	10.2	1.0	$\mu g/L$	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	10.3	0.50	$\mu g/L$	10.0		103	70-130				
Tetrachloroethylene	10.3	1.0	$\mu g/L$	10.0		103	70-130				
Tetrahydrofuran	9.83	10	$\mu g/L$	10.0		98.3	70-130				
Toluene	10.3	1.0	$\mu g/L$	10.0		103	70-130				
1,2,3-Trichlorobenzene	8.37	5.0	$\mu g/L$	10.0		83.7	70-130				
1,2,4-Trichlorobenzene	8.25	2.0	$\mu g/L$	10.0		82.5	70-130				
1,3,5-Trichlorobenzene	10.6	1.0	μg/L	10.0		106	70-130				
1,1,1-Trichloroethane	9.97	1.0	μg/L	10.0		99.7	70-130				
1,1,2-Trichloroethane	9.74	1.0	μg/L	10.0		97.4	70-130				
Trichloroethylene	9.70	2.0	μg/L	10.0		97.0	70-130				
Trichlorofluoromethane (Freon 11)	9.61	2.0	μg/L	10.0		96.1	70-130				
1,2,3-Trichloropropane	8.99	2.0	μg/L	10.0		89.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	μg/L	10.0		106	70-130				
1,2,4-Trimethylbenzene	10.2	1.0	μg/L	10.0		102	70-130				
1,3,5-Trimethylbenzene	10.5	1.0	μg/L	10.0		105	70-130				
Vinyl Chloride	8.76	2.0	μg/L	10.0		87.6	40-160				†



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B026604 - SW-846 5030B						· ·					
LCS (B026604-BS1)				Prepared &	Analyzed: 02	/28/11					
m+p Xylene	21.4	2.0	μg/L	20.0		107	70-130				
o-Xylene	10.6	1.0	$\mu g/L$	10.0		106	70-130				
Surrogate: 1,2-Dichloroethane-d4	22.6		μg/L	25.0		90.2	70-130				
Surrogate: Toluene-d8	24.3		μg/L	25.0		97.2	70-130				
Surrogate: 4-Bromofluorobenzene	25.6		μg/L	25.0		102	70-130				
LCS Dup (B026604-BSD1)				Prepared &	Analyzed: 02	/28/11					
Acetone	134	50	μg/L	100	. mary 200. 02	134	70-160	4.48	25		
Acrylonitrile	9.65	5.0	μg/L	10.0		96.5	70-130	7.42	25		
tert-Amyl Methyl Ether (TAME)	10.7	0.50	μg/L	10.0		107	70-130	0.187	25		
Benzene	9.70	1.0	μg/L	10.0		97.0	70-130	2.85	25		
Bromobenzene	9.87	1.0	μg/L	10.0		98.7	70-130	1.01	25		
Bromochloromethane	9.77	1.0	μg/L	10.0		97.7	70-130	0.925	25		
Bromodichloromethane	9.36	0.50	μg/L	10.0		93.6	70-130	7.41	25		
Bromoform	11.2	1.0	μg/L μg/L	10.0		112	70-130	2.82	25		
Bromomethane		2.0	μg/L μg/L	10.0		76.9	40-160	7.56	25 25		
2-Butanone (MEK)	7.69	2.0	μg/L μg/L	10.0		76.9 111	40-160	3.82	25 25		
	111	20								V 16	
tert-Butyl Alcohol (TBA) n-Butylbenzene	87.1	1.0	μg/L	200		43.6	40-160	4.46	25	V-16	
sec-Butylbenzene	9.76	1.0	μg/L	10.0		97.6	70-130	7.97	25		
-	10.1		μg/L	10.0		101	70-130	4.63	25 25		
tert-Butylbenzene	10.1	1.0	μg/L	10.0		101	70-130	3.78	25		
tert-Butyl Ethyl Ether (TBEE)	9.34	0.50	μg/L	10.0		93.4	70-130	1.91	25		
Carbon Disulfide	9.79	2.0	μg/L	10.0		97.9	70-130	9.81	25		
Carbon Tetrachloride	9.30	1.0	μg/L	10.0		93.0	70-130	6.05	25		
Chlorobenzene	10.8	1.0	μg/L	10.0		108	70-130	2.92	25		
Chlorodibromomethane	10.4	0.50	μg/L	10.0		104	70-130	1.62	25		
Chloroethane	8.63	2.0	μg/L	10.0		86.3	70-130	0.231	25		
Chloroform	9.93	2.0	μg/L	10.0		99.3	70-130	2.19	25		
Chloromethane	8.14	2.0	μg/L	10.0		81.4	40-160	1.46	25		
2-Chlorotoluene	10.2	1.0	μg/L	10.0		102	70-130	2.14	25		
4-Chlorotoluene	10.5	1.0	μg/L	10.0		105	70-130	2.73	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.48	5.0	μg/L	10.0		94.8	70-130	2.50	25		
1,2-Dibromoethane (EDB)	10.3	0.50	μg/L	10.0		103	70-130	4.57	25		
Dibromomethane	10.1	1.0	$\mu g/L$	10.0		101	70-130	5.26	25		
1,2-Dichlorobenzene	10.3	1.0	μg/L	10.0		103	70-130	4.18	25		
1,3-Dichlorobenzene	10.6	1.0	μg/L	10.0		106	70-130	0.00	25		
1,4-Dichlorobenzene	9.94	1.0	μg/L	10.0		99.4	70-130	3.56	25		
trans-1,4-Dichloro-2-butene	9.21	2.0	μg/L	10.0		92.1	70-130	8.14	25		
Dichlorodifluoromethane (Freon 12)	5.82	2.0	μg/L	10.0		58.2	40-160	2.88	25	V-05	
1,1-Dichloroethane	9.60	1.0	μg/L	10.0		96.0	70-130	2.98	25		
1,2-Dichloroethane	9.45	1.0	μg/L	10.0		94.5	70-130	2.20	25		
1,1-Dichloroethylene	9.13	1.0	$\mu g/L$	10.0		91.3	70-130	5.64	25		
cis-1,2-Dichloroethylene	9.34	1.0	μg/L	10.0		93.4	70-130	4.50	25		
trans-1,2-Dichloroethylene	10.3	1.0	μg/L	10.0		103	70-130	4.38	25		
1,2-Dichloropropane	8.74	1.0	μg/L	10.0		87.4	70-130	6.53	25		
1,3-Dichloropropane	9.99	0.50	$\mu g/L$	10.0		99.9	70-130	0.100	25		
2,2-Dichloropropane	9.82	1.0	$\mu \text{g/L}$	10.0		98.2	40-130	6.69	25		
1,1-Dichloropropene	9.30	2.0	$\mu g/L$	10.0		93.0	70-130	5.44	25		
cis-1,3-Dichloropropene	9.35	0.50	$\mu g/L$	10.0		93.5	70-130	5.71	25		
trans-1,3-Dichloropropene	10.4	0.50	$\mu g/L$	10.0		104	70-130	2.38	25		
Diethyl Ether	10.2	2.0	$\mu g/L$	10.0		102	70-130	2.03	25		
Diisopropyl Ether (DIPE)	9.91	0.50	μg/L	10.0		99.1	70-130	2.59	25		



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B026604 - SW-846 5030B											
LCS Dup (B026604-BSD1)				Prepared &	Analyzed: 02	2/28/11					
1,4-Dioxane	104	50	μg/L	100		104	40-130	12.4	50	V-16	 † ‡
Ethylbenzene	10.2	1.0	μg/L	10.0		102	70-130	2.81	25		
Hexachlorobutadiene	10.1	1.0	μg/L	10.0		101	70-130	0.691	25		
2-Hexanone (MBK)	103	10	μg/L	100		103	70-160	2.41	25		†
Isopropylbenzene (Cumene)	12.3	1.0	$\mu g/L$	10.0		123	70-130	2.64	25		
p-Isopropyltoluene (p-Cymene)	10.1	1.0	$\mu g/L$	10.0		101	70-130	7.05	25		
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	μg/L	10.0		103	70-130	1.73	25		
Methylene Chloride	9.12	5.0	$\mu g/L$	10.0		91.2	70-130	0.219	25		
4-Methyl-2-pentanone (MIBK)	96.0	10	$\mu g/L$	100		96.0	70-160	1.79	25		†
Naphthalene	8.52	5.0	$\mu g/L$	10.0		85.2	40-130	1.05	25		†
n-Propylbenzene	10.5	1.0	$\mu g/L$	10.0		105	70-130	2.17	25		
Styrene	10.6	1.0	$\mu g/L$	10.0		106	70-130	2.59	25		
1,1,1,2-Tetrachloroethane	10.4	1.0	$\mu g/L$	10.0		104	70-130	1.55	25		
1,1,2,2-Tetrachloroethane	10.8	0.50	$\mu g/L$	10.0		108	70-130	5.12	25		
Tetrachloroethylene	9.78	1.0	$\mu g/L$	10.0		97.8	70-130	5.37	25		
Tetrahydrofuran	9.63	10	$\mu g/L$	10.0		96.3	70-130	2.06	25		
Toluene	9.51	1.0	$\mu g/L$	10.0		95.1	70-130	8.36	25		
1,2,3-Trichlorobenzene	8.37	5.0	$\mu g/L$	10.0		83.7	70-130	0.00	25		
1,2,4-Trichlorobenzene	8.37	2.0	μg/L	10.0		83.7	70-130	1.44	25		
1,3,5-Trichlorobenzene	10.1	1.0	μg/L	10.0		101	70-130	5.02	25		
1,1,1-Trichloroethane	9.66	1.0	μg/L	10.0		96.6	70-130	3.16	25		
1,1,2-Trichloroethane	9.54	1.0	μg/L	10.0		95.4	70-130	2.07	25		
Trichloroethylene	8.89	2.0	μg/L	10.0		88.9	70-130	8.71	25		
Trichlorofluoromethane (Freon 11)	9.12	2.0	μg/L	10.0		91.2	70-130	5.23	25		
1,2,3-Trichloropropane	9.87	2.0	μg/L	10.0		98.7	70-130	9.33	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	μg/L	10.0		101	70-130	4.26	25		
1,2,4-Trimethylbenzene	9.63	1.0	μg/L	10.0		96.3	70-130	5.75	25		
1,3,5-Trimethylbenzene	10.3	1.0	$\mu g/L$	10.0		103	70-130	2.41	25		
Vinyl Chloride	8.30	2.0	$\mu g/L$	10.0		83.0	40-160	5.39	25		†
m+p Xylene	21.0	2.0	$\mu g/L$	20.0		105	70-130	1.94	25		
o-Xylene	10.4	1.0	$\mu g/L$	10.0		104	70-130	2.19	25		
Surrogate: 1,2-Dichloroethane-d4	23.4		μg/L	25.0		93.5	70-130				_
Surrogate: Toluene-d8	23.8		$\mu g/L$	25.0		95.0	70-130				
Surrogate: 4-Bromofluorobenzene	25.5		$\mu g/L$	25.0		102	70-130				



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
'-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
7-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy as associated with reported result.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications	
SW-846 8260B in Water		
Acetone	CT,NH,NY,NC	
Acrylonitrile	CT,NY,NC,RI	
tert-Amyl Methyl Ether (TAME)	NH,NY,NC	
Benzene	CT,NH,NY,NC,RI	
Bromobenzene	NC	
Bromochloromethane	NH,NY,NC	
Bromodichloromethane	CT,NH,NY,NC,RI	
Bromoform	CT,NH,NY,NC,RI	
Bromomethane	CT,NH,NY,NC,RI	
2-Butanone (MEK)	CT,NH,NY,NC	
tert-Butyl Alcohol (TBA)	NH,NY,NC	
n-Butylbenzene	NY,NC	
sec-Butylbenzene	NY,NC	
tert-Butylbenzene	NY,NC	
tert-Butyl Ethyl Ether (TBEE)	NH,NY,NC	
Carbon Disulfide	CT,NH,NY,NC	
Carbon Tetrachloride	CT,NH,NY,NC,RI	
Chlorobenzene	CT,NH,NY,NC,RI	
Chlorodibromomethane	CT,NH,NY,NC,RI	
Chloroethane	CT,NH,NY,NC,RI	
Chloroform	CT,NH,NY,NC,RI	
Chloromethane	CT,NH,NY,NC,RI	
2-Chlorotoluene	NY,NC	
4-Chlorotoluene	NY,NC	
1,2-Dibromo-3-chloropropane (DBCP)	NC	
1,2-Dibromoethane (EDB)	NC	
Dibromomethane	NH,NY,NC	
1,2-Dichlorobenzene	CT,NY,NC,RI	
1,3-Dichlorobenzene	CT,NH,NY,NC,RI	
1,4-Dichlorobenzene	CT,NH,NY,NC,RI	
trans-1,4-Dichloro-2-butene	NH,NY,NC	
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,RI	
1,1-Dichloroethane	CT,NH,NY,NC,RI	
1,2-Dichloroethane	CT,NH,NY,NC,RI	
1,1-Dichloroethylene	CT,NH,NY,NC,RI	
cis-1,2-Dichloroethylene	NC	
trans-1,2-Dichloroethylene	CT,NH,NY,NC,RI	
1,2-Dichloropropane	CT,NH,NY,NC,RI	
1,3-Dichloropropane	NY,NC	
2,2-Dichloropropane	NH,NY,NC	
1,1-Dichloropropene	NH,NY,NC	
cis-1,3-Dichloropropene	CT,NH,NY,NC,RI	
trans-1,3-Dichloropropene	CT,NH,NY,NC,RI	
Diethyl Ether	NC	
Diisopropyl Ether (DIPE)	NH,NY,NC	
1,4-Dioxane	NC	
Ethylbenzene	CT,NH,NY,NC,RI	



CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012



Date/Time: Date/Date/Time: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/	ture) Date/Tinte: Turnaround ** Detection	boratory Comments:	ATC-1 -d 264/11 15:30 x A ATC-1 -d 264/11 17:30 x GU	Lab # Start Stop Comp- Date/Time Date/Time osite Grab	Compared Compared	38	ompany Name: ARCATES Telephone: (W) 78-3887 Idress: 30 MSTRO (FITTET) R/// Project # AFTER-STR	ANALYTICAL LABORATORY ANALYTICAL LABORATORY Phone: 413-525-2332 Phone: 413-525-2332 CHAIN OF CUSTODY R
OURCP? DY DN DL's:	Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box: H - High; M - Medium; L - Low; C - Clean; U - Unknown Limit Requirements *Matrix Code* **Processit** Code**			*Matrix Conc. Code Code	1 × 8 2 - 4 4 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	ANALYSIS REQUESTED Cont. Code. A=amber glass	Z A # of cont	RECORD 39 SPRUCE ST, 2ND FLOOR Page of of 18

www.contestlabs.com



Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028

> P: 413-525-2332 F: 413-525-6405

CLIENT NAME: Arcadis		RECEIVED BY: 43	DATE: 2/25///
1) Was the chain(s) of custod 2) Does the chain agree with t If not, explain:		ned? Yes No	
3) Are all the samples in good If not, explain:	condition?	(Yes) No	
4) How were the samples rece	ived:		
On Ice Direct from	Sampling	Ambient In Cooler(s)	
Were the samples received in	Temperature Complia		N/A
Temperature °C by Temp blank	4.50c	Temperature °C by Temp gun	
5) Are there Dissolved samples		Yes No	7
Who was notified		Time	
6) Are there any samples "On F	old"?	Yes (No)	Stored where:
7) Are there any RUSH or SHOP	IT HOLDING TIME san	nples? Yes (No)	***************************************
Who was notified	Date	Time	
8) Location where samples are	stored: 19/Air las	1	ntract samples? Yes No if not already approved
	ontoinoro roo.	rivad at Can Task	
	# of containers	eived at Con-Test	
1 Liter Amber	# Of Containers	8 oz amber/clear jar	# of containers
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	The state of the s
40 mL Vial - type listed below	4	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle Encore		Other Tedlar	Bag 2
Perchlorate Kit		PM 2.5 / PM 10	
aboratory Comments:		PUF Cartridge	
Omt vials: #HCI <u>4</u>	# Methanol Time and Date Frozen:		
# Bisulfate	# DI Water	100 STM AND TO MAKE THE PROPERTY OF THE STATE OF THE STAT	
# Thiosulfate	Unpreserved		
o all samples have the proper Ac	id pH: Yes No (N/	A)	Page 1
	,	1.5	Daga 1



March 4, 2011

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

Project Location: Springfield St.

Client Job Number:

Project Number: WK012152.07

Laboratory Work Order Number: 11B0571

Holy L. Tolson

Enclosed are results of analyses for samples received by the laboratory on February 25, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom Project Manager



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

Warwick, RI 02886

ATTN: Donna Pallister

REPORT DATE: 3/4/2011

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.07

ANALYTICAL SUMMARY

11B0571 WORK ORDER NUMBER:

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
MPL-6	11B0571-01	Air		EPA TO-14A	
WB-2	11B0571-02	Air		EPA TO-14A	



CASE NARRATIVE SUMMARY

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

EPA TO-14A

Qualifications:

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

Analyte & Samples(s) Qualified:

11B0571-01[MPL-6], 11B0571-02[WB-2]

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

 $1,\!1,\!2\text{-Trichloro-}1,\!2,\!2\text{-trifluoroethane} \ (Freon\ 113),\ Dichlorodifluoromethane} \ (Freon\ 12)$

Center

B026638-BLK1, B026638-BS1, 11B0571-01[MPL-6], 11B0571-02[WB-2]

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.

Michael A. Erickson Laboratory Director



ANALYTICAL RESULTS

Project Location: Springfield St. Date Received: 2/25/2011 Field Sample #: MPL-6 Sample ID: 11B0571-01

Sample ID: 11B0571-01Sample Matrix: Air
Sampled: 2/24/2011 17:00

Sample Description/Location: Sub Description/Location:

Canister ID: Canister Size: Flow Controller ID: Sample Type: Work Order: 11B0571 Initial Vacuum(in Hg): Final Vacuum(in Hg): Receipt Vacuum(in Hg): Flow Controller Type: Flow Controller Calibration

Flow Controller Calibration RPD Pre and Post-Sampling:

		F	EPA TO-14A					
Sample Flags: A-09	ppl	ov		m3				
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Benzene	ND	0.10		ND	0.32	2	2/26/11 6:51	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/26/11 6:51	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/26/11 6:51	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/26/11 6:51	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/26/11 6:51	WSD
Chloroform	ND	0.10		ND	0.49	2	2/26/11 6:51	WSD
Chloromethane	ND	0.10		ND	0.21	2	2/26/11 6:51	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/26/11 6:51	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/26/11 6:51	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/26/11 6:51	WSD
1,4-Dichlorobenzene	0.23	0.10		1.4	0.60	2	2/26/11 6:51	WSD
Dichlorodifluoromethane (Freon 12)	0.51	0.10	В	2.5	0.49	2	2/26/11 6:51	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/26/11 6:51	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/26/11 6:51	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/26/11 6:51	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/26/11 6:51	WSD
Ethylbenzene	1.8	0.10		7.6	0.43	2	2/26/11 6:51	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/26/11 6:51	WSD
Methylene Chloride	1.7	0.20		6.1	0.69	2	2/26/11 6:51	WSD
Styrene	0.51	0.10		2.2	0.43	2	2/26/11 6:51	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/26/11 6:51	WSD
Tetrachloroethylene	0.34	0.10		2.3	0.68	2	2/26/11 6:51	WSD
Toluene	2.4	0.10		9.2	0.38	2	2/26/11 6:51	WSD
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	2/26/11 6:51	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/26/11 6:51	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/26/11 6:51	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/26/11 6:51	WSD
Trichlorofluoromethane (Freon 11)	0.31	0.10		1.7	0.56	2	2/26/11 6:51	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/26/11 6:51	WSD
1,2,4-Trimethylbenzene	3.1	0.10		15	0.49	2	2/26/11 6:51	WSD
1,3,5-Trimethylbenzene	1.0	0.10		5.1	0.49	2	2/26/11 6:51	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/26/11 6:51	WSD
m&p-Xylene	5.1	0.20		22	0.87	2	2/26/11 6:51	WSD
o-Xylene	2.3	0.10		9.9	0.43	2	2/26/11 6:51	WSD



ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 2/25/2011
Field Sample #: MPL-6
Sample ID: 11B0571-01
Sample Matrix: Air
Sampled: 2/24/2011 17:00

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

Sample Type:

G 1 Fl 4 00	E	PA TO-14A	
Sample Flags: A-09 Analyte	ppbv Results RL	ug/m3 Flag Results RL	Date/Time Dilution Analyzed Analyst
Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	114	70-130	2/26/11 6:51



ANALYTICAL RESULTS

Project Location: Springfield St. Date Received: 2/25/2011 Field Sample #: WB-2 Sample ID: 11B0571-02 Sample Matrix: Air

Sampled: 2/24/2011 15:30

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

Canister Size: Flow Controller ID: Sample Type:

						RPD Pre and Post-S	ampling:	
		I	EPA TO-14A					
Sample Flags: A-09	pp	bv		ug/ı	m3		Date/Time	
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Benzene	0.15	0.10		0.47	0.32	2	2/26/11 8:04	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/26/11 8:04	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/26/11 8:04	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/26/11 8:04	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/26/11 8:04	WSD
Chloroform	ND	0.10		ND	0.49	2	2/26/11 8:04	WSD
Chloromethane	0.17	0.10		0.35	0.21	2	2/26/11 8:04	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/26/11 8:04	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/26/11 8:04	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/26/11 8:04	WSD
1,4-Dichlorobenzene	0.39	0.10		2.3	0.60	2	2/26/11 8:04	WSD
Dichlorodifluoromethane (Freon 12)	0.55	0.10	В	2.7	0.49	2	2/26/11 8:04	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/26/11 8:04	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/26/11 8:04	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/26/11 8:04	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/26/11 8:04	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/26/11 8:04	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/26/11 8:04	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/26/11 8:04	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/26/11 8:04	WSD
Ethylbenzene	2.7	0.10		12	0.43	2	2/26/11 8:04	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/26/11 8:04	WSD
Methylene Chloride	0.21	0.20		0.74	0.69	2	2/26/11 8:04	WSD
Styrene	1.4	0.10		5.9	0.43	2	2/26/11 8:04	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/26/11 8:04	WSD
Tetrachloroethylene	0.63	0.10		4.3	0.68	2	2/26/11 8:04	WSD
Toluene	5.3	0.10		20	0.38	2	2/26/11 8:04	WSD
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	2/26/11 8:04	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/26/11 8:04	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/26/11 8:04	WSD
Trichloroethylene	0.12	0.10		0.64	0.54	2	2/26/11 8:04	WSD
Trichlorofluoromethane (Freon 11)	0.52	0.10		2.9	0.56	2	2/26/11 8:04	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/26/11 8:04	WSD
1,2,4-Trimethylbenzene	4.7	0.10		23	0.49	2	2/26/11 8:04	WSD
1,3,5-Trimethylbenzene	1.6	0.10		7.9	0.49	2	2/26/11 8:04	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/26/11 8:04	WSD
m&p-Xylene	7.5	0.20		33	0.87	2	2/26/11 8:04	WSD
o-Xylene	3.4	0.10		15	0.43	2	2/26/11 8:04	WSD



ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 2/25/2011
Field Sample #: WB-2
Sample ID: 11B0571-02
Sample Matrix: Air

Sampled: 2/24/2011 15:30

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

Sample Type:

EPA TO-14A								
Sample Flags: A-09	ppbv	ug/m3	Date/Time					
Analyte	Results RL	Flag Results RL	Dilution Analyzed Analyst					
Surrogates	% Recovery	% REC Limits						
4-Bromofluorobenzene (1)	111	70-130	2/26/11 8:04					



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
11B0571-01 [MPL-6] 11B0571-02 [WB-2]	B026638 B026638	1	1	N/A N/A	1000 1000	400 400	200 200	02/25/11 02/25/11



o-Xylene

Surrogate: 4-Bromofluorobenzene (1)

ND

8.75

0.025

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

	pp	bv	ug/m3	Spike Level	Source		%REC		RPD	
Analyte	Results	RL	Results RL	ppbv	Result	%REC	Limits	RPD	Limit	Flag
Batch B026638 - TO-15 Prep										
Blank (B026638-BLK1)				Prepared: 02	2/25/11 Anal	lyzed: 02/26/	11			
Benzene	ND	0.025								
Bromomethane	ND	0.025								
Carbon Tetrachloride	ND	0.025								
Chlorobenzene	ND	0.025								
Chloroethane	ND	0.025								
Chloroform	ND	0.025								
Chloromethane	ND	0.025								
1,2-Dibromoethane (EDB)	ND	0.025								
1,2-Dichlorobenzene	ND	0.025								
1,3-Dichlorobenzene	ND	0.025								
1,4-Dichlorobenzene	ND	0.025								
Dichlorodifluoromethane (Freon 12)	0.15	0.025								
1,1-Dichloroethane	ND	0.025								
1,2-Dichloroethane	ND	0.025								
,1-Dichloroethylene	ND	0.025								
sis-1,2-Dichloroethylene	ND	0.025								
1,2-Dichloropropane	ND	0.025								
eis-1,3-Dichloropropene	ND	0.025								
rans-1,3-Dichloropropene	ND	0.025								
1,2-Dichloro-1,1,2,2-tetrafluoroethane Freon 114)	ND	0.025								
Ethylbenzene	ND	0.025								
Hexachlorobutadiene	ND	0.025								
Methylene Chloride	ND	0.050								
Styrene	ND	0.025								
1,1,2,2-Tetrachloroethane	ND	0.025								
Tetrachloroethylene	ND	0.025								
Toluene	ND	0.025								
1,2,4-Trichlorobenzene	ND	0.025								
1,1,1-Trichloroethane	ND	0.025								
1,1,2-Trichloroethane	ND	0.025								
Trichloroethylene	ND	0.025								
Trichlorofluoromethane (Freon 11)	ND	0.025								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.026	0.025								
1,2,4-Trimethylbenzene	ND	0.025								
1,3,5-Trimethylbenzene	ND	0.025								
Vinyl Chloride	ND	0.025								
n&p-Xylene	ND	0.050								

109

8.00

70-130



QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

	ppby	7	ug/m	13	Spike Level	Source		%REC		RPD	
Analyte	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	Flag

Batch B026638 - TO-15 Prep					
LCS (B026638-BS1)		Prepared & Analyzed	d: 02/25/11		
Benzene	4.04	5.00	80.7	70-130	
Bromomethane	4.73	5.00	94.6	70-130	
Carbon Tetrachloride	4.76	5.00	95.2	70-130	
Chlorobenzene	4.18	5.00	83.5	70-130	
Chloroethane	4.43	5.00	88.5	70-130	
Chloroform	5.02	5.00	100	70-130	
Chloromethane	4.31	5.00	86.1	70-130	
1,2-Dibromoethane (EDB)	4.28	5.00	85.5	70-130	
1,2-Dichlorobenzene	4.64	5.00	92.7	70-130	
1,3-Dichlorobenzene	4.70	5.00	94.1	70-130	
1,4-Dichlorobenzene	4.60	5.00	92.1	70-130	
Dichlorodifluoromethane (Freon 12)	5.14	5.00	103	70-130	В
1,1-Dichloroethane	4.62	5.00	92.3	70-130	
1,2-Dichloroethane	5.08	5.00	102	70-130	
1,1-Dichloroethylene	4.81	5.00	96.2	70-130	
cis-1,2-Dichloroethylene	4.78	5.00	95.6	70-130	
1,2-Dichloropropane	3.92	5.00	78.5	70-130	
cis-1,3-Dichloropropene	4.48	5.00	89.5	70-130	
trans-1,3-Dichloropropene	3.97	5.00	79.5	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.40	5.00	87.9	70-130	
Ethylbenzene	4.10	5.00	81.9	70-130	
Hexachlorobutadiene	4.71	5.00	94.3	70-130	
Methylene Chloride	4.24	5.00	84.8	70-130	
Styrene	4.14	5.00	82.8	70-130	
1,1,2,2-Tetrachloroethane	4.27	5.00	85.3	70-130	
Tetrachloroethylene	4.42	5.00	88.4	70-130	
Toluene	4.00	5.00	80.0	70-130	
1,2,4-Trichlorobenzene	4.84	5.00	96.9	70-130	
1,1,1-Trichloroethane	4.61	5.00	92.2	70-130	
1,1,2-Trichloroethane	4.12	5.00	82.5	70-130	
Trichloroethylene	4.41	5.00	88.1	70-130	
Trichlorofluoromethane (Freon 11)	5.19	5.00	104	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.10	5.00	102	70-130	В
1,2,4-Trimethylbenzene	4.27	5.00	85.4	70-130	
1,3,5-Trimethylbenzene	4.27	5.00	85.5	70-130	
Vinyl Chloride	4.54	5.00	90.8	70-130	
m&p-Xylene	8.43	10.0	84.3	70-130	
o-Xylene	4.18	5.00	83.6	70-130	
Surrogate: 4-Bromofluorobenzene (1)	8.95	8.00	112	70-130	



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
A-09	Holding times and stability of samples taken in tedlar bags have not been determined
D	Analyte is found in the associated blank as well as in the sample



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-Dichlorobenzene	AIHA,FL,NY
1,4-Dichlorobenzene	AIHA,FL,NY
Dichlorodifluoromethane (Freon 12)	AIHA,FL,NY
1,1-Dichloroethane	AIHA,FL,NY
1,2-Dichloroethane	AIHA,FL,NY
1,1-Dichloroethylene	AIHA,FL,NY
cis-1,2-Dichloroethylene	AIHA,FL,NY
1,2-Dichloropropane	AIHA,FL,NY
cis-1,3-Dichloropropene	AIHA,FL,NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,FL,NY
Ethylbenzene	AIHA,FL,NY
Hexachlorobutadiene	AIHA,FL,NY
Methylene Chloride	AIHA,FL,NY
Styrene	AIHA,FL,NY
1,1,2,2-Tetrachloroethane	AIHA,FL,NY
Tetrachloroethylene	AIHA,FL,NY
Toluene	AIHA,FL,NY
1,2,4-Trichlorobenzene	AIHA,FL,NY
1,1,1-Trichloroethane	AIHA,FL,NY
1,1,2-Trichloroethane	AIHA,FL,NY
Trichloroethylene	AIHA,FL,NY
Trichlorofluoromethane (Freon 11)	AIHA,FL,NY
1,2,4-Trimethylbenzene	AIHA,FL,NY
1,3,5-Trimethylbenzene	AIHA,FL,NY
Vinyl Chloride	AIHA,FL,NY
m&p-Xylene	AIHA,FL,NY
o-Xylene	AIHA,FL,NY



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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publile Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012



Address:

METRO

Company Name: ARCATES

Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

EAST LO	39 SPRUCE
ONGMEADOV	E ST, 2ND
V, MA 0102	FLOOR

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4 of '	EAST LONGMEADOW, MA 01028	115057	A C
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Sampled By: (2HRTS

Project Location: SPRINGFLEY

Attention:

Proposal Provided? (For Billing purposes)

O yes

proposal date

Field ID Sample Description

MP1 -6

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Laboratory Comments:

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

www.contestiabs.com



Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028

> P: 413-525-2332 F: 413-525-6405

CLIENT NAME: Areadis		RECEIVED BY:	C13 DA	TE: 2/25/11
1) Was the chain(s) of custody	_	ned?	Yes No	
2) Does the chain agree with th If not, explain:	e samples?		Yes No	
3) Are all the samples in good of If not, explain:	condition?		(Yes) No	
4) How were the samples receiv	red:			-
On Ice Direct from S	Sampling	Ambient	In Cooler(s)	
Were the samples received in T	emperature Complia		Yes No N/	Δ
Temperature °C by Temp blank		(
5) Are there Dissolved samples			Yes No	
Who was notified	Date	Time		
6) Are there any samples "On He	old"?		Yes (No Store	ed where:
7) Are there any RUSH or SHOR	T HOLDING TIME sa	mples?	Yes No	
Who was notified	Date	Time	<i>эт</i> ликофения	
8) Location where samples are s	stored: 19/Air la	(Walk-ii		samples? Yes No already approved
		errope (La transportuni de la companyo)		
C	ontainers rec	eived at Cor	1-Test	
	# of containers			# of containers
1 Liter Amber			ber/clear jar	
500 mL Amber (Reg amber)			ber/clear jar	
250 mL Amber (8oz amber) 1 Liter Plastic			ber/clear jar	
500 mL Plastic		AND THE RESERVE OF THE PERSON	glass jar	
250 mL plastic			Bag / Ziploc Cassette	
40 mL Vial - type listed below	4		DC Kit	
Colisure / bacteria bottle			ubes	
Dissolved Oxygen bottle			est Container	
Flashpoint bottle		Section 2000 Contract	ther Tecllar Bag	2
Encore			5/PM 10	
Perchlorate Kit		PUF (Cartridge	
aboratory Comments:				
10 mL vials: # HCI 4	# Methanol		Time a	and Date Frozen:
# Bisulfate	# DI Water	Managon Calaba Saranian Nama		
# Thiosulfate	Unpreserved			

Do all samples have the proper Acid pH: Yes

/N/A



March 4, 2011

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

Project Location: Springfield St.

Client Job Number:

Project Number: WK012152.07

Laboratory Work Order Number: 11B0571

Holy L. Tolson

Enclosed are results of analyses for samples received by the laboratory on February 25, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom Project Manager



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

Warwick, RI 02886

ATTN: Donna Pallister

REPORT DATE: 3/4/2011

PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: WK012152.07

ANALYTICAL SUMMARY

11B0571 WORK ORDER NUMBER:

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
MPL-6	11B0571-01	Air		EPA TO-14A	
WB-2	11B0571-02	Air		EPA TO-14A	



CASE NARRATIVE SUMMARY

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

EPA TO-14A

Qualifications:

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

Analyte & Samples(s) Qualified:

11B0571-01[MPL-6], 11B0571-02[WB-2]

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

 $1,\!1,\!2\text{-Trichloro-}1,\!2,\!2\text{-trifluoroethane} \ (Freon\ 113),\ Dichlorodifluoromethane} \ (Freon\ 12)$

Center

B026638-BLK1, B026638-BS1, 11B0571-01[MPL-6], 11B0571-02[WB-2]

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.

Michael A. Erickson Laboratory Director



ANALYTICAL RESULTS

Project Location: Springfield St. Date Received: 2/25/2011 Field Sample #: MPL-6 Sample ID: 11B0571-01

Sample ID: 11B0571-01Sample Matrix: Air
Sampled: 2/24/2011 17:00

Sample Description/Location: Sub Description/Location:

Canister ID: Canister Size: Flow Controller ID: Sample Type: Work Order: 11B0571 Initial Vacuum(in Hg): Final Vacuum(in Hg): Receipt Vacuum(in Hg): Flow Controller Type: Flow Controller Calibration

Flow Controller Calibration RPD Pre and Post-Sampling:

		F	EPA TO-14A					
Sample Flags: A-09	ppl	ov		m3		Date/Time		
Analyte	Results	RL	Flag	Results	RL	Dilution	Analyzed	Analyst
Benzene	ND	0.10		ND	0.32	2	2/26/11 6:51	WSD
Bromomethane	ND	0.10		ND	0.39	2	2/26/11 6:51	WSD
Carbon Tetrachloride	ND	0.10		ND	0.63	2	2/26/11 6:51	WSD
Chlorobenzene	ND	0.10		ND	0.46	2	2/26/11 6:51	WSD
Chloroethane	ND	0.10		ND	0.26	2	2/26/11 6:51	WSD
Chloroform	ND	0.10		ND	0.49	2	2/26/11 6:51	WSD
Chloromethane	ND	0.10		ND	0.21	2	2/26/11 6:51	WSD
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	2/26/11 6:51	WSD
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	2/26/11 6:51	WSD
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	2/26/11 6:51	WSD
1,4-Dichlorobenzene	0.23	0.10		1.4	0.60	2	2/26/11 6:51	WSD
Dichlorodifluoromethane (Freon 12)	0.51	0.10	В	2.5	0.49	2	2/26/11 6:51	WSD
1,1-Dichloroethane	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
1,2-Dichloroethane	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	2/26/11 6:51	WSD
1,2-Dichloropropane	ND	0.10		ND	0.46	2	2/26/11 6:51	WSD
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/26/11 6:51	WSD
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	2/26/11 6:51	WSD
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	2/26/11 6:51	WSD
Ethylbenzene	1.8	0.10		7.6	0.43	2	2/26/11 6:51	WSD
Hexachlorobutadiene	ND	0.10		ND	1.1	2	2/26/11 6:51	WSD
Methylene Chloride	1.7	0.20		6.1	0.69	2	2/26/11 6:51	WSD
Styrene	0.51	0.10		2.2	0.43	2	2/26/11 6:51	WSD
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	2/26/11 6:51	WSD
Tetrachloroethylene	0.34	0.10		2.3	0.68	2	2/26/11 6:51	WSD
Toluene	2.4	0.10		9.2	0.38	2	2/26/11 6:51	WSD
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	2/26/11 6:51	WSD
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	2/26/11 6:51	WSD
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	2/26/11 6:51	WSD
Trichloroethylene	ND	0.10		ND	0.54	2	2/26/11 6:51	WSD
Trichlorofluoromethane (Freon 11)	0.31	0.10		1.7	0.56	2	2/26/11 6:51	WSD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	2/26/11 6:51	WSD
1,2,4-Trimethylbenzene	3.1	0.10		15	0.49	2	2/26/11 6:51	WSD
1,3,5-Trimethylbenzene	1.0	0.10		5.1	0.49	2	2/26/11 6:51	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	2/26/11 6:51	WSD
m&p-Xylene	5.1	0.20		22	0.87	2	2/26/11 6:51	WSD
o-Xylene	2.3	0.10		9.9	0.43	2	2/26/11 6:51	WSD



ANALYTICAL RESULTS

Project Location: Springfield St.
Date Received: 2/25/2011
Field Sample #: MPL-6
Sample ID: 11B0571-01
Sample Matrix: Air
Sampled: 2/24/2011 17:00

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

Sample Type:

Sample Flags: A-09 Analyte Surrogates	E	PA TO-14A			
•	ppbv Results RL	ug/m3 Flag Results RL	Date/Time Dilution Analyzed Analyst		
Surrogates	% Recovery	% REC Limits			
4-Bromofluorobenzene (1)	114	70-130	2/26/11 6:51		



ANALYTICAL RESULTS

Project Location: Springfield St. Date Received: 2/25/2011 Field Sample #: WB-2 Sample ID: 11B0571-02 Sample Matrix: Air

Sampled: 2/24/2011 15:30

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

Flow Controller ID: Sample Type: Work Order: 11B0571 Initial Vacuum(in Hg): Final Vacuum(in Hg): Receipt Vacuum(in Hg): Flow Controller Type: Flow Controller Calibration

RPD Pre and Post-Sampling: EPA TO-14A Sample Flags: A-09 ug/m3 Date/Time ppbv Results RLFlag Results RLDilution Analyte Analyzed Analyst 0.15 0.10 0.47 0.32 2 2/26/11 8:04 WSD Benzene 0.39 Bromomethane ND 0.10 ND 2 2/26/11 8:04 WSD Carbon Tetrachloride ND 0.10 ND 0.63 2 2/26/11 8:04 WSD ND 0.10 ND 0.46 2 2/26/11 8:04



ANALYTICAL RESULTS

Project Location: Springfield St. Date Received: 2/25/2011 Field Sample #: WB-2 Sample ID: 11B0571-02 Sample Matrix: Air

Sampled: 2/24/2011 15:30

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

Sample Type:

			• •
	EPA	TO-14A	
Sample Flags: A-09	ppbv	ug/m3	Date/Time
Analyte	Results RL	Flag Results RL	Dilution Analyzed Analyst
Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	111	70-130	2/26/11 8:04



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
11B0571-01 [MPL-6] 11B0571-02 [WB-2]	B026638 B026638	1	1	N/A N/A	1000 1000	400 400	200 200	02/25/11 02/25/11



o-Xylene

Surrogate: 4-Bromofluorobenzene (1)

ND

8.75

0.025

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

	pp	bv	ug/m3	Spike Level	Source		%REC		RPD	
Analyte	Results	RL	Results RL	ppbv	Result	%REC	Limits	RPD	Limit	Flag
Batch B026638 - TO-15 Prep										
Blank (B026638-BLK1)				Prepared: 02	2/25/11 Anal	lyzed: 02/26/	11			
Benzene	ND	0.025								
Bromomethane	ND	0.025								
Carbon Tetrachloride	ND	0.025								
Chlorobenzene	ND	0.025								
Chloroethane	ND	0.025								
Chloroform	ND	0.025								
Chloromethane	ND	0.025								
1,2-Dibromoethane (EDB)	ND	0.025								
1,2-Dichlorobenzene	ND	0.025								
1,3-Dichlorobenzene	ND	0.025								
1,4-Dichlorobenzene	ND	0.025								
Dichlorodifluoromethane (Freon 12)	0.15	0.025								
1,1-Dichloroethane	ND	0.025								
1,2-Dichloroethane	ND	0.025								
,1-Dichloroethylene	ND	0.025								
sis-1,2-Dichloroethylene	ND	0.025								
1,2-Dichloropropane	ND	0.025								
eis-1,3-Dichloropropene	ND	0.025								
rans-1,3-Dichloropropene	ND	0.025								
1,2-Dichloro-1,1,2,2-tetrafluoroethane Freon 114)	ND	0.025								
Ethylbenzene	ND	0.025								
Hexachlorobutadiene	ND	0.025								
Methylene Chloride	ND	0.050								
Styrene	ND	0.025								
1,1,2,2-Tetrachloroethane	ND	0.025								
Tetrachloroethylene	ND	0.025								
Toluene	ND	0.025								
1,2,4-Trichlorobenzene	ND	0.025								
1,1,1-Trichloroethane	ND	0.025								
1,1,2-Trichloroethane	ND	0.025								
Trichloroethylene	ND	0.025								
Trichlorofluoromethane (Freon 11)	ND	0.025								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.026	0.025								
1,2,4-Trimethylbenzene	ND	0.025								
1,3,5-Trimethylbenzene	ND	0.025								
Vinyl Chloride	ND	0.025								
n&p-Xylene	ND	0.050								

109

8.00

70-130



QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

	ppbv		ug/m3		Spike Level	Source		%REC		RPD	
Analyte	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	Flag

Batch B026638 - TO-15 Prep					
LCS (B026638-BS1)		Prepared & Analyzed	1: 02/25/11		
Benzene	4.04	5.00	80.7	70-130	
Bromomethane	4.73	5.00	94.6	70-130	
Carbon Tetrachloride	4.76	5.00	95.2	70-130	
Chlorobenzene	4.18	5.00	83.5	70-130	
Chloroethane	4.43	5.00	88.5	70-130	
Chloroform	5.02	5.00	100	70-130	
Chloromethane	4.31	5.00	86.1	70-130	
1,2-Dibromoethane (EDB)	4.28	5.00	85.5	70-130	
1,2-Dichlorobenzene	4.64	5.00	92.7	70-130	
1,3-Dichlorobenzene	4.70	5.00	94.1	70-130	
1,4-Dichlorobenzene	4.60	5.00	92.1	70-130	
Dichlorodifluoromethane (Freon 12)	5.14	5.00	103	70-130	1
1,1-Dichloroethane	4.62	5.00	92.3	70-130	
1,2-Dichloroethane	5.08	5.00	102	70-130	
1,1-Dichloroethylene	4.81	5.00	96.2	70-130	
cis-1,2-Dichloroethylene	4.78	5.00	95.6	70-130	
1,2-Dichloropropane	3.92	5.00	78.5	70-130	
cis-1,3-Dichloropropene	4.48	5.00	89.5	70-130	
trans-1,3-Dichloropropene	3.97	5.00	79.5	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.40	5.00	87.9	70-130	
Ethylbenzene	4.10	5.00	81.9	70-130	
Hexachlorobutadiene	4.71	5.00	94.3	70-130	
Methylene Chloride	4.24	5.00	84.8	70-130	
Styrene	4.14	5.00	82.8	70-130	
1,1,2,2-Tetrachloroethane	4.27	5.00	85.3	70-130	
Tetrachloroethylene	4.42	5.00	88.4	70-130	
Toluene	4.00	5.00	80.0	70-130	
1,2,4-Trichlorobenzene	4.84	5.00	96.9	70-130	
1,1,1-Trichloroethane	4.61	5.00	92.2	70-130	
1,1,2-Trichloroethane	4.12	5.00	82.5	70-130	
Trichloroethylene	4.41	5.00	88.1	70-130	
Trichlorofluoromethane (Freon 11)	5.19	5.00	104	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.10	5.00	102	70-130	1
1,2,4-Trimethylbenzene	4.27	5.00	85.4	70-130	
1,3,5-Trimethylbenzene	4.27	5.00	85.5	70-130	
Vinyl Chloride	4.54	5.00	90.8	70-130	
m&p-Xylene	8.43	10.0	84.3	70-130	
o-Xylene	4.18	5.00	83.6	70-130	
Surrogate: 4-Bromofluorobenzene (1)	8.95	8.00	112	70-130	



В

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.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
A-09	Holding times and stability of samples taken in tedlar bags have not been determined

Analyte is found in the associated blank as well as in the sample.



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-Dichlorobenzene	AIHA,FL,NY
1,4-Dichlorobenzene	AIHA,FL,NY
Dichlorodifluoromethane (Freon 12)	AIHA,FL,NY
1,1-Dichloroethane	AIHA,FL,NY
1,2-Dichloroethane	AIHA,FL,NY
1,1-Dichloroethylene	AIHA,FL,NY
cis-1,2-Dichloroethylene	AIHA,FL,NY
1,2-Dichloropropane	AIHA,FL,NY
cis-1,3-Dichloropropene	AIHA,FL,NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,FL,NY
Ethylbenzene	AIHA,FL,NY
Hexachlorobutadiene	AIHA,FL,NY
Methylene Chloride	AIHA,FL,NY
Styrene	AIHA,FL,NY
1,1,2,2-Tetrachloroethane	AIHA,FL,NY
Tetrachloroethylene	AIHA,FL,NY
Toluene	AIHA,FL,NY
1,2,4-Trichlorobenzene	AIHA,FL,NY
1,1,1-Trichloroethane	AIHA,FL,NY
1,1,2-Trichloroethane	AIHA,FL,NY
Trichloroethylene	AIHA,FL,NY
Trichlorofluoromethane (Freon 11)	AIHA,FL,NY
1,2,4-Trimethylbenzene	AIHA,FL,NY
1,3,5-Trimethylbenzene	AIHA,FL,NY
Vinyl Chloride	AIHA,FL,NY
m&p-Xylene	AIHA,FL,NY
o-Xylene	AIHA,FL,NY



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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publile Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012



Address:

METRO

Company Name: ARCATES

Phone: 413-525-2332

CHAIN OF CUSTODY RECORD

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ONGMEADOW	CE ST, 2ND F
, MA 0102	HOOH

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4 of '	EAST LONGMEADOW, MA 01028	18057	ORATORY Email: info@contestlabs.com
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Sampled By: (2HRTS

Project Location: SPRINGFLEY

Attention:

Proposal Provided? (For Billing purposes)

O yes

proposal date

Field ID Sample Description

MP1 -6

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Laboratory Comments:

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

www.contestiabs.com



Sample Receipt Checklist

39 Spruce St. East Longmeadow, MA. 01028

> P: 413-525-2332 F: 413-525-6405

CLIENT NAME: Hreadis		RECEIVED BY:	C13 DA	TE: 2/25/11
1) Was the chain(s) of custody	-	ned?	Yes No	
2) Does the chain agree with th If not, explain:	e samples?		Yes No	
3) Are all the samples in good of lf not, explain:	condition?		(Yes) No	
4) How were the samples receiv	red:			-
On Ice Direct from S	Sampling \square	Ambient	In Cooler(s)	
Were the samples received in T	emperature Complia	nce of (2-6°C)?	Yes No N/	7
Temperature °C by Temp blank	4.500	Temperature °C by	Temp gun	
5) Are there Dissolved samples	for the lab to filter?		Yes No	
Who was notified	Date	Time	Company of Park	
6) Are there any samples "On He			Yes No Store	ed where:
7) Are there any RUSH or SHOR	T HOLDING TIME sa	mples?	Yes No	
Who was notified		-		
8) Location where samples are s	stored: [19/Air b	(Walk-ii		samples? Yes No already approved
C	ontainers rec	eived at Cor	1-Test	
	# of containers			# of containers
1 Liter Amber		8 oz am	ber/clear jar	
500 mL Amber			ber/clear jar	
250 mL Amber (8oz amber)			ber/clear jar	
1 Liter Plastic		Other Other	ʻglass jar	
500 mL Plastic	, , , , , , , , , , , , , , , , , , ,		Bag / Ziploc	
250 mL plastic	//		Cassette	
40 mL Vial - type listed below	7		OC Kit	
Colisure / bacteria bottle			ubes	
Dissolved Oxygen bottle			est Container	-7
Flashpoint bottle Encore	A-10-11-11-11-11-11-11-11-11-11-11-11-11-		Other Tecllar Bag	2
Perchlorate Kit		5 / PM 10		
_aboratory Comments:		PUF (Cartridge	
				41.70
40 mL vials: # HCI	# Methanol		Time a	nd Date Frozen:
# Bisulfate	# DI Water		****	
# Thiosulfate	Unpreserved			-

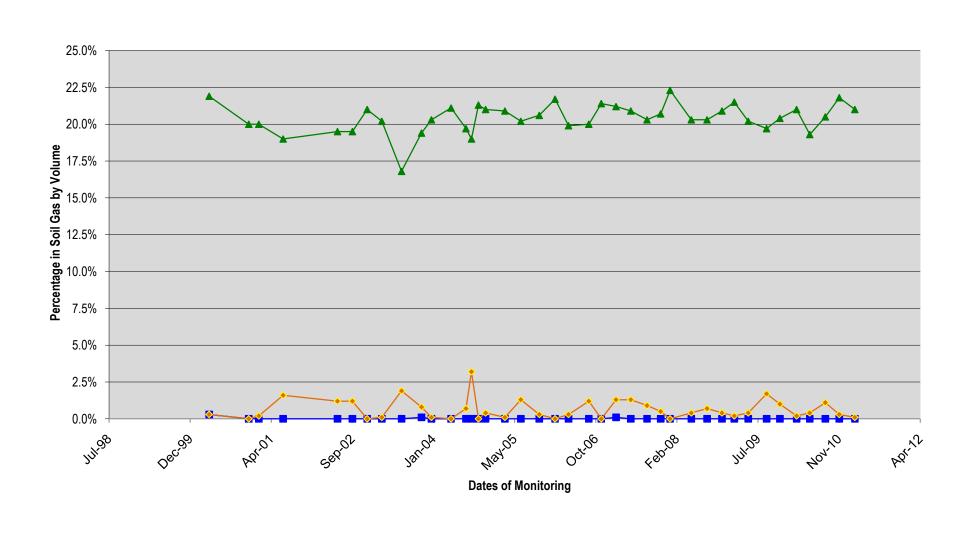
Do all samples have the proper Acid pH: Yes

/N/A

ARCADIS

Appendix C
Soil Gas Parameter Graphs

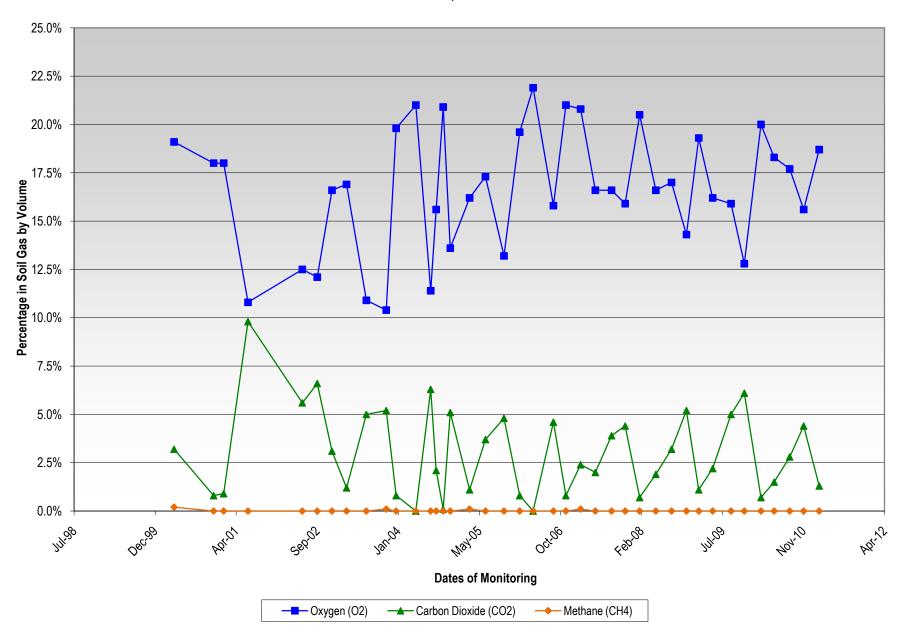
Soil Gas Well EPL1 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



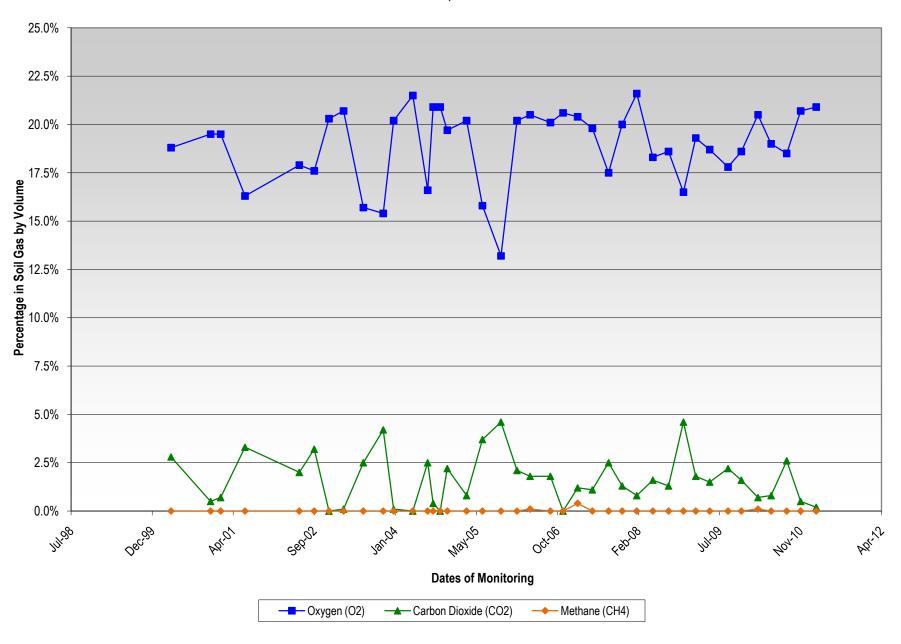
─ Carbon Dioxide

—— Methane —— Oxygen

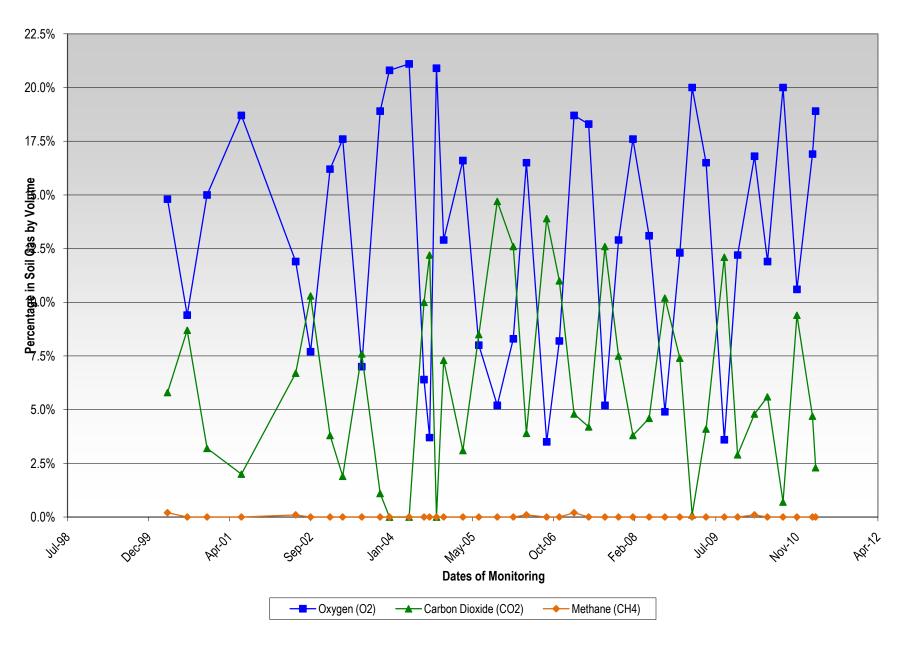
Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



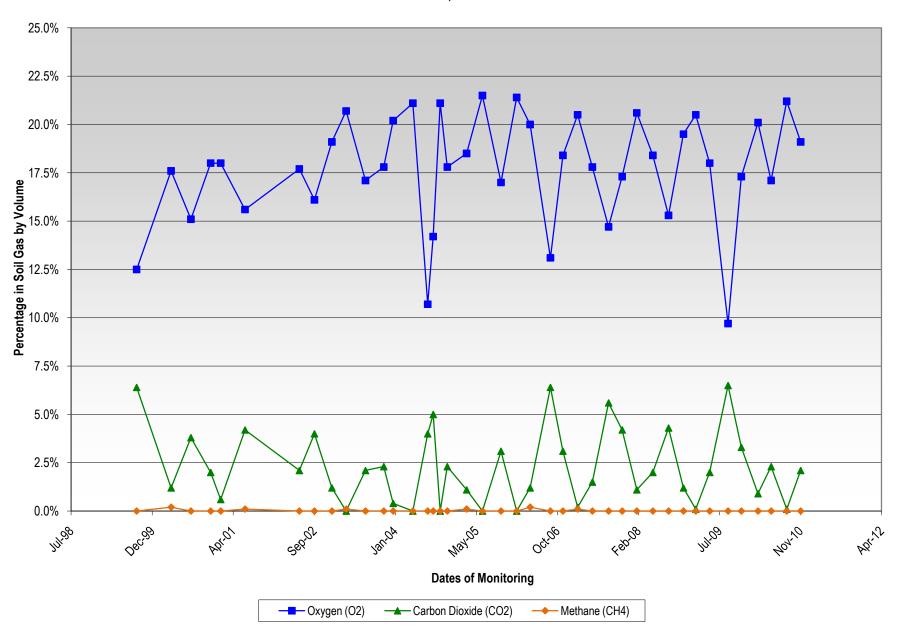
Soil Gas Well MG2 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



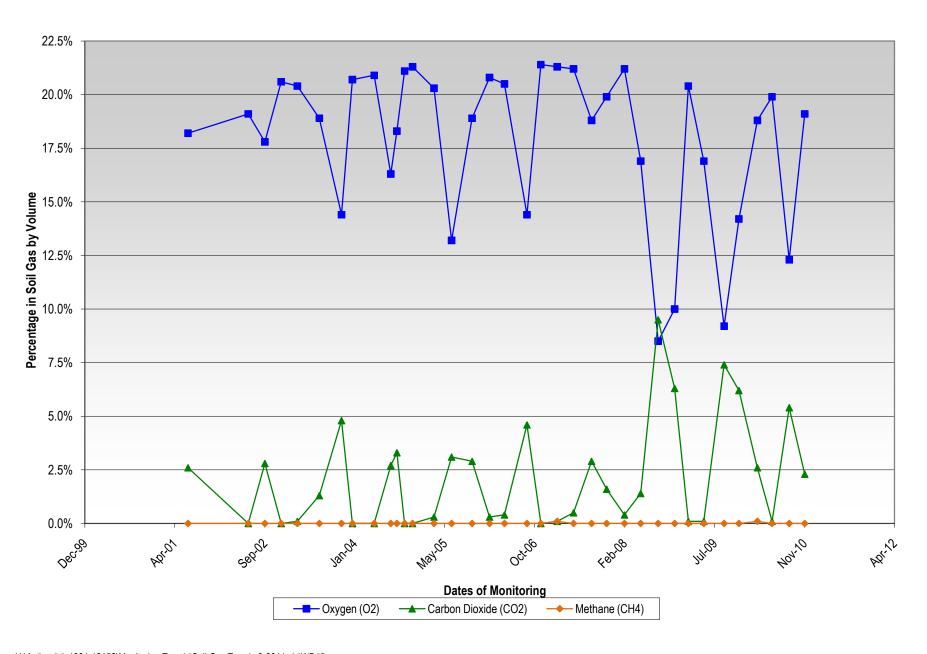
Soil Gas Well MPL5 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time Springfield Street School Complex Providence, Rhode Island



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



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



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

