

**QUARTERLY MONITORING REPORT
Springfield Street School Complex
Providence, Rhode Island**

**Project No. 081-12152-01
December 2004 Monitoring Round**

Prepared for
Providence School Department
797 Westminister Street
Providence, RI 02903

Prepared by
LFR Levine·Fricke
250 Centerville Road
Building E., Suite 12
Warwick, RI 02886



December 21, 2004

081-12152-01

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

Subject: Quarterly Monitoring for Springfield Street School Complex, 50 Springfield Street, Providence, RI – December 2004 Monitoring Round

Dear Mr. Crawford:

Quarterly monitoring was conducted between November 30 and December 13, 2004 at the above referenced site. 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.

Results of monitoring are provided in the following sections and in the attachments.

SOIL COVER MONITORING

LFR conducted a visual survey of the site for evidence of significant soil cover erosion, or for any areas where the orange snow fencing indicator barrier was visible. LFR did not observe any areas of significant erosion or any areas where the orange indicator barrier was visible during this monitoring event. We observed some areas where standing water was present as a result of rain events during and preceding the monitoring.

SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by LFR during the quarterly monitoring on December 10 and 13, 2004. Influent and effluent air from the two blowers at the elementary school and the two blowers at the middle school were sampled. Samples of influent and effluent gas were collected at each location for screening for methane, carbon dioxide, carbon monoxide, hydrogen sulfide, and volatile organic compounds (VOC). Results are provided in Table 1.

Methane, carbon monoxide, and hydrogen sulfide concentrations below the Action Levels in the sub-slab ventilation system monitoring during this monitoring event. Carbon dioxide concentrations ranged from zero to 0.2%. Elevated VOC concentrations were detected by

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the MiniRae photoionization detector (PID) used to conduct the VOC monitoring. A notification has already been made regarding the detection of concentrations above the Action Limit.

In response to the elevated PID concentrations detected during monitoring, air samples were collected in Tedlar bags on December 13 for laboratory analysis by method TO-14. Samples were collected of the inlet air from the subslab systems at the elementary school and the middle school, and the outlet (after carbon adsorption) at the elementary school and one of the middle school systems (6 samples total). Results of the air analysis have not been received at the time of writing of this report.

The sub-slab ventilation system operated without interruptions or problems during the period covered by this monitoring report.

INDOOR AIR MONITORING

Indoor air monitoring was conducted on December 10 and 13, 2004 using a Landtec GA-90 landfill gas monitor, and a Mini Rae photoionization detector (PID). Results of monitoring are provided in the Table 2. No parameters were detected at concentrations above the action levels specified in the Remedial Action Work Plan during this round of monitoring.

The methane monitors at the elementary school were being calibrated by Diamond Calibration personnel on December 10 when the monitoring was being performed. The methane monitors at the Middle school were marked with stickers indicating that Diamond Calibration last calibrated the methane monitors at the middle school on December 8, 2004. All of the sensors were functioning at the time of our inspection.

GROUNDWATER MONITORING

Five groundwater monitoring wells were sampled by LFR on December 2, 2004. Prior to sampling, the depth to water was gauged, and a volume of water equivalent to approximately three well volumes was removed from each well. Temperature, specific conductance, dissolved oxygen, and pH were measured in the field prior to sampling. Depth to groundwater ranged between 12.00 and 18.14 feet below the ground surface. Groundwater samples were collected in laboratory prepared sample jars and delivered under chain-of-custody protocol to Contest Laboratory in East Longmeadow, Massachusetts for analysis for volatile organic compounds by EPA method 8260. Groundwater sampling logs are provided as Attachment 1, and the laboratory report is provided as Attachment 2. Results of analysis of groundwater samples are summarized in Table 3.

No target analytes were detected in samples from wells ATC-1, ATC-2, ATC-3 or ATC-5. Chlorobenzene and 1,4-dichlorobenzene were detected in the groundwater sample from

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monitoring well ATC-4. The concentration of chlorobenzene detected, 0.60 $\mu\text{g/L}$, was well below the RIDEM GB objective of 70 $\mu\text{g/L}$. RIDEM has not established a GB groundwater objective for 1,4-dichlorobenzene. LFR calculated a GB groundwater objective of 3,406 $\mu\text{g/L}$ using the procedure specified in Appendix F of the *Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases (2/2004)*. The concentration of 1,4-dichlorobenzene detected in the sample from ATC-4 (2.1 $\mu\text{g/L}$) was well below the calculated groundwater objective.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 29 locations on November 30, 2004. 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 an SKC Airchek Sampling pump. Soil gas was then screened using a Landtec GA-90 Gas Analyzer, and a MiniRae Photoionization Detector.

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

Soil Gas Field Monitoring Results

Soil gas samples were screened for methane, carbon monoxide, hydrogen sulfide, carbon dioxide, oxygen, and total VOCs. Soil gas survey results are provided in Table 4.

Methane was not detected in any of the 29 sample locations on November 30, 2004. All PID readings for total VOCs were zero.

Concentrations of carbon monoxide were detected in 25 of 29 locations monitored on November 30, 2004. None of the detected concentrations exceeded the Remedial Action Work Plan Level of 9 parts per million (ppm). The highest reading was 2 ppm.

Hydrogen sulfide was detected in 12 of 29 locations monitored on November 30, 2004. None of the detected concentrations exceeded the Remedial Action Work Plan Level of 10 ppm. The highest concentration detected was 2 ppm. No odors typically associated with hydrogen sulfide were detected during any of the on-site monitoring activities.

Carbon dioxide was detected at 21 locations with detectable concentrations ranging from 0.1% to 8.2% during the November 30, 2004 monitoring event. The carbon dioxide action level is 0.1%, and 20 readings exceeded the action level. The presence of carbon dioxide in soil gas is an indicator of subsurface bacterial activity and does not represent a threat to users of the property. Graphs presenting carbon dioxide, oxygen, and methane concentrations over time for seven representative wells are presented in Attachment 4.

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As has been encountered during previous monitoring events, the highest concentrations of carbon dioxide were encountered in soil gas collected from soil gas wells in or near the paved parking lots and roads on the northern and southern ends of the property. In the paved areas, soil gas does not exchange as readily with the atmosphere causing carbon dioxide generated by naturally occurring bacteria to accumulate.

Soil Gas Laboratory Results

In accordance with the O&M Plan, two soil gas samples were collected in Tedlar bags and submitted to Con-Test Analytical Laboratories for analysis by method TO-14. Results of the analysis are summarized in Table 5, and the laboratory report is provided in Attachment 5. Several compounds were detected at low concentrations. The results were typical of the concentrations and compounds which have been detected in previous monitoring events, as shown on tables 6 and 7 which summarize the results of 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.

REPAIRS

Monitoring wells were found to be intact during this round of monitoring. No repairs were necessary during this monitoring period.

CONCLUSIONS

Methane, carbon monoxide, and hydrogen sulfide concentrations did not exceed action levels in any soil gas samples, indoor air or subslab ventilation system samples. Carbon dioxide concentrations in soil gas and the subslab ventilation system exceeded the action level at some locations.

Monitoring at the inlet and outlet of the sub-slab ventilation system detected elevated PID readings which may indicate the presence of volatile organic compounds. No odors or other indicators of the presence of unusual conditions was detected. Elevated PID readings were not detected in the Site buildings or in the soil gas monitoring wells. In response to the elevated PID readings, LFR collected Tedlar bag samples at inlets and outlets of the subslab ventilation system and submitted them to Contest Laboratory for analysis by method TO-14. This analysis will detect common VOCs to try to identify the source of the elevated PID readings.

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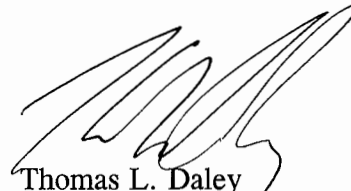
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The elevated PID readings were detected at both the inlets and outlets of the carbon adsorbtion vessels. Therefore, the Providence School Department is arranging for a contractor to replace the carbon in all six 2,000 pound carbon vessels with new carbon.

We will forward the results of analysis of the system inlet and outlet gases when they are received. If you have any questions or require any additional information, please contact the undersigned at 401-738-3887.

Sincerely,


Donna Holden Pallister, P.E.
Senior Engineer


Thomas L. Daley
Senior Engineer

Cc: A. Sepe, City of Providence
R. Troiano, PPBA
J. Boffa, Providence School Department

TABLES

Table 1
System Monitoring Notes
Springfield Street School Complex
Providence, Rhode Island
December 10 & 13, 2004

Monitoring Location	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
Elementary School inlet 1	0.0	0.2	20.1	3	0	43.4
Elementary School inlet 2	0.0	0.1	20.2	3	0	17.6
Elementary School Outlet	0.0	0.2	20.0	1	1	4475
Middle school front shed inlet	0.0	0.0	20.3	4	1	699
Middle school front shed after 2 nd carbon	0.0	0.0	20.5	4	2	1750
Middle school back shed inlet	0.0	0.2	20.0	5	0	1453
Middle school back shed after 2 nd carbon	0.0	0.2	20.0	4	1	1342
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1 %)	NA	9 ppm	10 ppm	5 ppm

Measurements made with: Landtec GA90, Mini Rae PID

Sampling date: Elementary School – 12/10/04, Middle School – 12/13/04

Measured by: D. Pallister

Table 2
Indoor Air Monitoring Results
Springfield Street School Complex
Providence, Rhode Island
December 10 & 13, 2004

Monitoring Location	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
E.S. Front office	0.0	0.0	20.7	3	0	0
E.S. Elevator Room	0.0	0.0	20.7	3	1	0
E.S. Boiler Rm. Electrical closet	0.0	0.0	20.7	3	0	0
E.S. Gym storage closet	0.0	0.0	20.5	2	1	0
E.S. Elec. Closet	0.0	0.0	20.6	3	2	0
E.S. Library	0.0	0.0	20.5	2	1	0
E.S. Stairway Stair C	0.0	0.0	20.4	3	0	0
E.S. Room 106	0.0	0.0	20.4	2	0	0
E.S. Second Floor, Electrical Room	0.0	0.0	20.5	2	0	0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
December 10 & 13, 2004

Monitoring Location	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
E.S. Custodian / Electrical Closet w/Sensor	0.0	0.0	20.3	3	1	0
E.S. Room 216	0.0	0.0	20.5	2	0	0
E.S. Cafeteria	0.0	0.0	20.3	2	0	0
Elevator Shaft	0.0	0.0	20.8	3	0	0
E.S. Room 201	0.0	0.0	20.5	3	1	0
M.S. Cafeteria	0.0	0.0	20.5	4	1	0
M.S. Crack near door to outside near gym	0.0	0.0	20.6	3	1	0
M.S. Former Music Room	0.0	0.0	20.7	3	1	0
M.S. Faculty Work Room Next to Elevator 1 st floor	0.0	0.0	20.4	4	0	0
M.S. Room 105	0.0	0.0	20.5	3	0	0

Table 2
Indoor Air Monitoring Notes
Springfield Street School Complex
December 10 & 13, 2004

Monitoring Location	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
M.S. Room 108	0.0	0.0	20.5	3	0	0
M.S. Janitor office	0.0	0.0	20.5	3	0	0
M.S. Second Floor, Faculty Work Room	0.0	0.0	20.5	4	1	0
M.S. Front Office	0.0	0.0	20.7	3	0	0
M.S. (Elementary Side) Stairway	0.0	0.0	20.5	3	1	0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm (0.1%)	NA	9 ppm	10 ppm	5 ppm

Notes:

E.S. indicates Elementary School - monitoring conducted 12/10/04

M.S. indicates Middle School - monitoring conducted 12/13/04

Measurements made with: Landtec GA90, Mini Rae PID

Measurements By: D. Pallister

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

Monitoring Wells	Compounds	Sampling Dates and Results in µg/L												RIDEM GB Groundwater Objective			
		2/28/2001	7/20/2001	*9-12/2001	8/1/2002	8/28/2002	12/19/2002	3/18/2003	7/17/2003	11/5/2003	1/22/2004	5/21/2004	8/17/2004		12/2/2004		
ATC-1	Benzene	6.1	ND	18.9	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
	n-butylbenzene	1.7	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	sec-Butylbenzene	1.1	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Ethylbenzene	4.5	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600
	Isopropylbenzene	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	n-Propylbenzene	ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	MTBE	12.4	7.0	28.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	1.27	ND	ND	ND	ND	ND	ND	540
	Toluene	2.5	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1700
	1,2,4-Trimethylbenzene	2.2	ND	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,3,5-Trimethylbenzene	3.4	ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	Xylenes	14.6	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
ATC-2	Chloroform	0.9	ND	ND	1.0	ND	ND	ND	ND	ND	NS	1.1	1.0	ND	ND	NA	
ATC-3	Toluene	ND	ND	ND	ND	NS	ND	NS	ND	ND	3.03	ND	ND	ND	ND	1700	
ATC-4	Benzene	ND	ND	2.5	0.6	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	140	
	Chlorobenzene	2.6	ND	57.3	2.7	5.18	ND	ND	ND	ND	ND	ND	ND	ND	0.60	70	
	1,4-dichlorobenzene	4.2	ND	9.2	3.4	3.36	ND	ND	ND	ND	ND	0.80	1.6	2.1	NA	NA	
	MTBE	ND	ND	ND	ND	ND	ND	ND	1.19	9.55	1.06	2.90	0.6	ND	ND	5000	
	1,2,4-Trimethylbenzene	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	
ATC-5	MTBE	ND	ND	2.2	NS	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	5000	
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	NA	
Sampled By:		ATC	ATC	ATC	ATC	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	

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

ND is not detected above method detection limit

NS is not sampled

NA= No applicable standard exists

MTBE is Methyl tert-Butyl Ether

µg/L = micrograms per liter

Table 4
Soil Gas Survey Results
Springfield Street School Complex
Providence, Rhode Island
November 30, 2004

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
WB-1	0.0	2.3	17.8	1	0	0
WB-2	0.0	0.2	20.9	1	0	0
WB-3	0.0	0.0	21.0	1	2	0
WB-4	0.0	0.0	21.2	0	0	0
WB-5	0.0	0.0	22.0	1	0	0
WB-6	0.0	0.0	21.2	0	1	0
WB-7	0.0	0.0	21.3	1	1	0
WB-8	0.0	0.0	21.3	1	0	0
WB-12	0.0	0.8	20.8	1	0	0
WB-13	0.0	0.0	21.4	1	0	0
WB-14	0.0	0.3	21.0	1	1	0
WB-15	0.0	1.0	20.3	1	0	0
EPL-1	0.0	0.4	21.0	1	1	0
EPL-2	0.0	3.4	17.9	2	0	0
EPL-3	0.0	2.1	18.3	0	2	0
EPL-4	0.0	5.1	13.6	0	1	0
EPL-5	0.0	5.0	14.9	1	1	0
ENE-1	0.0	0.2	21.1	2	0	0
MG1	0.0	0.5	20.2	1	0	0
MG2	0.0	2.2	19.7	1	1	0
MG3	0.0	0.1	21.3	2	0	0
MG4	0.0	1.5	19.8	1	1	0
MG5	0.0	0.5	20.3	2	0	0
MPL2	0.0	0.0	21.3	1	0	0
MPL3	0.0	8.2	12.4	1	0	0

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MPL5	0.0	7.3	12.9	1	0	0
MPL6	0.0	5.3	11.3	1	1	0
MPL7	0.0	6.3	14.4	1	0	0
MPL8	0.0	3.9	17.1	1	1	0
Remedial Action Work Plan Action Levels	0.5%	1,000 PPM (0.1%)	NA	9 PPM	10 PPM	5 PPM

Notes:

Sampled by: A. Cote

Weather Conditions: partly cloudy / 45-50° F

Sampling Equipment: LandTec GA90, and MiniRae PID Meter

PPM = parts per million

Table 5
Soil Gas Laboratory Analysis Results
Springfield Street School Complex
November 30, 2004

Parameter	Results of Analysis in parts per billion by volume (PPBv)		OSHA Permissible Exposure Limits (PEL) TWA (ppb)
	MPL-6	WB-2	
Trichlorofluoromethane (Freon 11)	ND	0.6	1,000,000
1,2,4-Trimethylbenzene	3.4	5.0	25,000
1,3,5-Trimethylbenzene	1.4	ND	25,000
Methylene Chloride	ND	0.6	25,000
Toluene	ND	3.4	200,000
Trichloroethylene	ND	15.7	100,000
O -Xylene	2.9	4.8	100,000
M/p-Xylene	3.9	5.9	100,000

Table lists only detected compounds. See laboratory report for full list of analytes.

Table 6
Summary of Soil Gas Laboratory Results for WB-3/WB-2
Springfield Street School Complex
Providence, Rhode Island

Compounds Detected	Results of Analysis in PPBv by Sample Date										
	9/25/2002	1/2/2003	3/19/2003	7/15/2003	11/11/2003	1/22/2004	5/4/2004	8/18/2004	11/30/2004		
1,2,4-Trimethylbenzene	1.8	ND	ND	ND	ND	ND	1.4	ND	5		
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	2.2	ND	ND		
1,3-dichlorobenzene	1.2	ND	ND	ND	ND	ND	ND	ND	ND		
Benzene	ND	ND	ND	ND	0.9	ND	ND	ND	ND		
Dichlorofluoromethane	ND	0.7	ND	ND	0.9	ND	ND	ND	ND		
Ethyl benzene	ND	ND	ND	0.5	1.6	ND	0.8	ND	ND		
Methylene Chloride	ND	2.7	ND	2.0	4.0	1.2	0.8	ND	0.6		
M/p-Xylene	0.6	ND	0.6	1.1	1.7	ND	2.5	ND	5.9		
O -Xylene	ND	ND	ND	ND	0.6	ND	ND	ND	4.8		
Tetrachloroethylene	0.6	ND	1.7	ND	0.7	ND	1.5	ND	ND		
Toluene	3.0	5.9	2.0	3.4	3.3	1.2	2.4	5.9	3.4		
Trichloroethylene	ND	ND	ND	ND	0.9	ND	ND	ND	15.7		
Trichlorofluoromethane (Freon 11)	1.0	ND	ND	2.1	ND	ND	ND	ND	0.6		
Total VOCs Detected	8.2	9.3	4.3	9.1	14.6	2.4	11.6	5.9	36.0		

5/4/2004, 8/18/2004 & 11/30/2004 - sampled WB-2, previous results are for samples from WB-3

ND - Not Detected

Samples were collected in Tedlar bags and analyzed by method TO-14

Table 7
Summary of Soil Gas Laboratory Results for MPL-6
Springfield Street School Complex
Providence, Rhode Island

Compounds Detected	Results of Analysis in PPBv by Sample Date									
	3/19/2003	7/15/2003	11/11/2003	1/22/2004	5/4/2004	8/18/2004	11/30/2004			
1,2,4-Trimethylbenzene	ND	ND	2.2	ND	ND	ND	3.4			
1,3,5-Trimethylbenzene	ND	ND	1.3	ND	ND	ND	1.4			
Ethylbenzene	ND	ND	1.6	ND	ND	ND	ND			
M/p-Xylene	0.7	ND	15.8	ND	ND	ND	3.9			
O-Xylene	ND	ND	3.3	ND	ND	ND	2.9			
Tetrachloroethylene	2.7	ND	ND	ND	ND	ND	ND			
Toluene	2.8	ND	ND	1.2	ND	ND	ND			
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND			
Trichlorofluoromethane (Freon 11)	ND	ND	ND	ND	ND	ND	ND			
Total VOCs Detected	6.2	0	24.2	1.2	0	0	11.6			

ND - Not Detected
 Samples were collected in Tedlar bags and analyzed by method TO-14

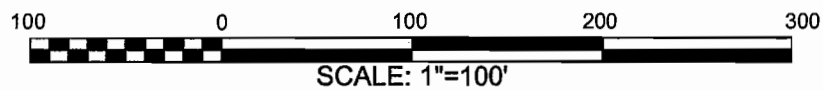
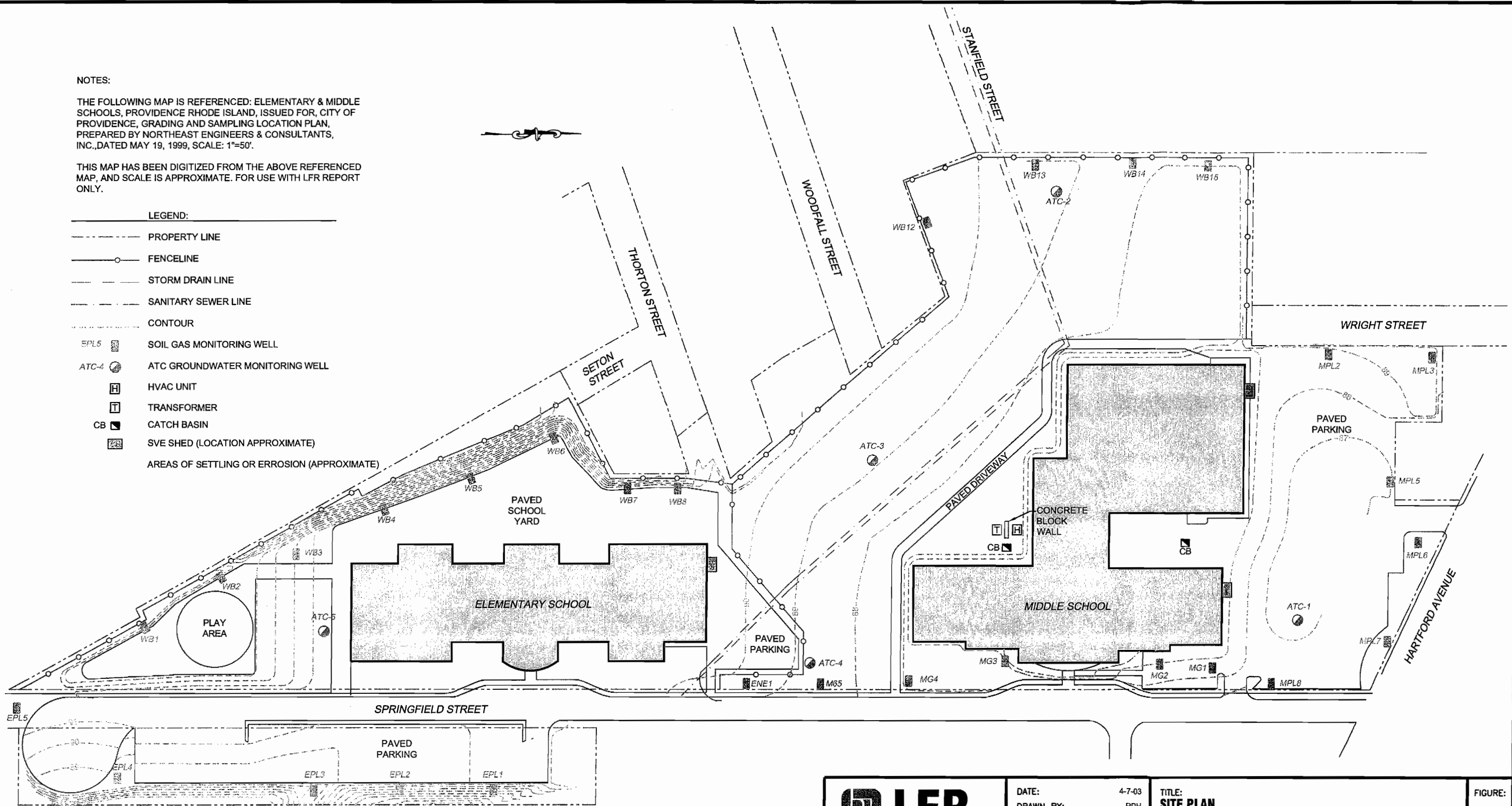
FIGURE

NOTES:

THE FOLLOWING MAP IS REFERENCED: ELEMENTARY & MIDDLE SCHOOLS, PROVIDENCE RHODE ISLAND, ISSUED FOR, CITY OF PROVIDENCE, GRADING AND SAMPLING LOCATION PLAN, PREPARED BY NORTHEAST ENGINEERS & CONSULTANTS, INC., DATED MAY 19, 1999, SCALE: 1"=50'.

THIS MAP HAS BEEN DIGITIZED FROM THE ABOVE REFERENCED MAP, AND SCALE IS APPROXIMATE. FOR USE WITH LFR REPORT ONLY.

- LEGEND:
- PROPERTY LINE
 - FENCELINE
 - STORM DRAIN LINE
 - SANITARY SEWER LINE
 - CONTOUR
 - EPL5 SOIL GAS MONITORING WELL
 - ATC-4 ATC GROUNDWATER MONITORING WELL
 - HVAC UNIT
 - TRANSFORMER
 - CB CATCH BASIN
 - SVE SHED (LOCATION APPROXIMATE)
 - AREAS OF SETTLING OR ERROSION (APPROXIMATE)



250 Centerville Road
 Building E, Suite 12
 Warwick, Rhode Island 02886
 Phone: (401) 738-3887
 Fax: (401) 732-1686

DATE: 4-7-03
 DRAWN BY: PPH
 REVIEWED BY: DP
 APPROVED BY: DP
 SCALE: AS NOTED
 FILE NO: 081-12027-00
 JOB NO: 081-12027-00

TITLE:
SITE PLAN

LOCATION:
**SPRINGFIELD STREET SCHOOL COMPLEX
 SPRINGFIELD STREET
 PROVIDENCE, RHODE ISLAND**

FIGURE:
1

Attachment 1

Groundwater Monitoring Logs



Well Number: ATC-1

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-01

Site Address: Springfield Street
Providence, RI

Sampled By: A. Cote	Date: 12/2/04
Weather: partly cloudy ~ 45°F	Purging Equipment: dedicated polyethylene bailer
Sampling Equipment: dedicated polyethylene bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: 13.58 (feet)
Casing diameter: 2 inch (inches)	Flush mount or riser:
Depth to Product: NA (feet)	Product thickness: NA (feet)
Depth to bottom: 20.78 (feet)	Length of Water Column (depth to bottom - depth to water): 7.2 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: 4.4 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 13.3 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)
9	16.0	352.7	1.54	7.1
11	16.6	333.3	0.71	6.9
13	15.9	6.9	0.94	6.7

Total volume Removed: 14

OBSERVATIONS:

Color of groundwater: Brown Odors: Yes Did well go dry: No



Well Number: ATC-2

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-01

Site Address: Springfield Street
Providence, RI

Sampled By: A. Cote	Date: 12/2/04
Weather: partly cloudy ~ 45°F	Purging Equipment: dedicated polyethylene bailer
Sampling Equipment: dedicated polyethylene bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: 13.64 (feet)
Casing diameter: 2 inch (inches)	Flush mount or riser: flush
Depth to Product: NA (feet)	Product thickness: NA (feet)
Depth to bottom: 18.62 (feet)	Length of Water Column (depth to bottom - depth to water): 4.98 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: 3.1 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 9.21 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)
6	13.3	408.7	3.76	8.7
7	14.0	440.8	3.63	8.0
8	14.3	416.1	3.55	7.6
9	14.1	394.0	3.38	7.4

Total volume Removed: 10

OBSERVATIONS:

Color of groundwater: Yellow Odors: No Did well go dry: No



Well Number: ATC-3

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-01

Site Address: Springfield Street
Providence, RI

Sampled By: A. Cote	Date: 12/2/04
Weather: partly cloudy ~ 45°F	Purging Equipment: dedicated polyethylene bailer
Sampling Equipment: dedicated polyethylene bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: 12.00 (feet)
Casing diameter: 2 inch (inches)	Flush mount or riser: flush
Depth to Product: NA (feet)	Product thickness: NA (feet)
Depth to bottom: 15.98 (feet)	Length of Water Column (depth to bottom - depth to water): 3.98 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: 2.5 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 7.4 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)
5	6.9	32.1	7.21	9.1
6	6.8	29.9	8.32	8.5
7	6.9	30.1	7.98	8.2

Total volume Removed: 8

OBSERVATIONS:

Color of groundwater: Yellow Odors: No Did well go dry: No



Well Number: ATC-4

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-01

Site Address: Springfield Street
Providence, RI

Sampled By: A. Cote	Date: 12/2/04
Weather: partly cloudy ~ 45°F	Purging Equipment: dedicated polyethylene bailer
Sampling Equipment: dedicated polyethylene bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: 14.52 (feet)
Casing diameter: 2 inch (inches)	Flush mount or riser: flush
Depth to Product: NA (feet)	Product thickness: NA (feet)
Depth to bottom: 23.74 (feet)	Length of Water Column (depth to bottom - depth to water): 9.22 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: 5.7 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 17.1 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)
12	12.2	282.4	0.80	5.2
15	14.2	336.6	0.74	5.8
18	15.2	300.0	0.47	5.9

Total volume Removed: 19

OBSERVATIONS:

Color of groundwater: cloudy Odors: No Did well go dry: No



Well Number: ATC-5

Site Name: Springfield Street School

Project Number: 081-12152-01

Site Address: Springfield Street
Providence, RI

GROUNDWATER SAMPLING LOG

Sampled By: A. Cote	Date: 12/2/04
Weather: partly cloudy ~ 45°F	Purging Equipment: dedicated polyethylene bailer
Sampling Equipment: dedicated polyethylene bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: 18.14 (feet)
Casing diameter: 2 inch (inches)	Flush mount or riser: flush
Depth to Product: NA (feet)	Product thickness: NA (feet)
Depth to bottom: 20.54 (feet)	Length of Water Column (depth to bottom - depth to water): 2.40 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: 1.5 (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): 4.4 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)
2	Well going dry - collected sample			

Total volume Removed: 2

OBSERVATIONS:

Color of groundwater: Yello Odors: No Did well go dry: Yes

Attachment 2

Laboratory Report for Groundwater



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 12/13/2004

LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886
ATTN: DONNA PALLISTER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-84416
JOB NUMBER: 081-12152-01

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

PROJECT LOCATION: SPRINGFIELD ST SCHOOL, PROV

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
ATC-1	04B42008	GRND WATER	NOT SPECIFIED	8260 water
ATC-2	04B42009	GRND WATER	NOT SPECIFIED	8260 water
ATC-3	04B42010	GRND WATER	NOT SPECIFIED	8260 water
ATC-4	04B42011	GRND WATER	NOT SPECIFIED	8260 water
ATC-5	04B42012	GRND WATER	NOT SPECIFIED	8260 water
TRIP BLANK	04B42013	WATER OTHE	NOT SPECIFIED	8260 water

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

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

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

Edward Denson 12/13/04

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

SIGNATURE

DATE

Edward Denson
Technical Director



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12/13/2004
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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-1

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42008 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,3-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.4			
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.1			
Dichlorodifluoromethane	ug/l	ND	12/09/04	LBD	1.0			
1,1-Dichloroethane	ug/l	ND	12/09/04	LBD	0.7			
1,2-Dichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.8			
1,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.6			
1,3-Dichloropropane	ug/l	ND	12/09/04	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.4			
Diethyl Ether	ug/l	ND	12/09/04	LBD	2.0			
Diisopropyl Ether	ug/l	ND	12/09/04	LBD	0.5			
1,4-Dioxane	ug/l	ND	12/09/04	LBD	50.0			
Ethyl Benzene	ug/l	ND	12/09/04	LBD	0.6			
Ethyl Methacrylate	ug/l	ND	12/09/04	LBD	0.8			
Hexachlorobutadiene	ug/l	ND	12/09/04	LBD	1.3			
2-Hexanone	ug/l	ND	12/09/04	LBD	9.7			
Iodomethane	ug/l	ND	12/09/04	LBD	0.8			
Isopropylbenzene	ug/l	ND	12/09/04	LBD	0.4			
p-Isopropyltoluene	ug/l	ND	12/09/04	LBD	0.7			
MTBE	ug/l	ND	12/09/04	LBD	0.8			
Methylene Chloride	ug/l	ND	12/09/04	LBD	3.0			
MIBK	ug/l	ND	12/09/04	LBD	8.8			
Naphthalene	ug/l	ND	12/09/04	LBD	1.0			

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 WARWICK, RI 02886

12/13/2004
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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-1

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42008 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
n-Propylbenzene	ug/l	ND	12/09/04	LBD	0.8			
Styrene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
Tetrachloroethylene	ug/l	ND	12/09/04	LBD	0.4			
Tetrahydrofuran	ug/l	ND	12/09/04	LBD	5.0			
Toluene	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/09/04	LBD	0.7			
Trichloroethylene	ug/l	ND	12/09/04	LBD	1.0			
Trichlorofluoromethane	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/09/04	LBD	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/09/04	LBD	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/09/04	LBD	1.0			
Vinyl Acetate	ug/l	ND	12/09/04	LBD	16.4			
Vinyl Chloride	ug/l	ND	12/09/04	LBD	0.3			
m + p Xylene	ug/l	ND	12/09/04	LBD	1.3			
o-Xylene	ug/l	ND	12/09/04	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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 WARWICK, RI 02886

12/13/2004
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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-2

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID: 04B42009 Sampled: 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/09/04	LBD	10.0			
Acrolein	ug/l	ND	12/09/04	LBD	20.0			
Acrylonitrile	ug/l	ND	12/09/04	LBD	0.5			
tert-Amylmethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Benzene	ug/l	ND	12/09/04	LBD	0.6			
Bromobenzene	ug/l	ND	12/09/04	LBD	0.5			
Bromochloromethane	ug/l	ND	12/09/04	LBD	0.7			
Bromodichloromethane	ug/l	ND	12/09/04	LBD	0.4			
Bromoform	ug/l	ND	12/09/04	LBD	1.2			
Bromomethane	ug/l	ND	12/09/04	LBD	1.2			
2-Butanone (MEK)	ug/l	ND	12/09/04	LBD	10.0			
tert-Butyl Alcohol	ug/l	ND	12/09/04	LBD	20.0			
n-Butylbenzene	ug/l	ND	12/09/04	LBD	0.7			
sec-Butylbenzene	ug/l	ND	12/09/04	LBD	0.6			
tert-Butylbenzene	ug/l	ND	12/09/04	LBD	0.8			
tert-Butylethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Carbon Disulfide	ug/l	ND	12/09/04	LBD	3.0			
Carbon Tetrachloride	ug/l	ND	12/09/04	LBD	0.5			
Chlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
Chlorodibromomethane	ug/l	ND	12/09/04	LBD	0.5			
Chloroethane	ug/l	ND	12/09/04	LBD	0.8			
2-Chloroethylvinylether	ug/l	ND	12/09/04	LBD	9.6			
Chloroform	ug/l	ND	12/09/04	LBD	0.8			
Chloromethane	ug/l	ND	12/09/04	LBD	1.2			
2-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
4-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/09/04	LBD	1.6			
1,2-Dibromoethane	ug/l	ND	12/09/04	LBD	0.70			
Dibromomethane	ug/l	ND	12/09/04	LBD	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			

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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-2

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42009 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/F
						Lo	Hi	
1,3-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.4			
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.1			
Dichlorodifluoromethane	ug/l	ND	12/09/04	LBD	1.0			
1,1-Dichloroethane	ug/l	ND	12/09/04	LBD	0.7			
1,2-Dichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.8			
1,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.6			
1,3-Dichloropropane	ug/l	ND	12/09/04	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.4			
Diethyl Ether	ug/l	ND	12/09/04	LBD	2.0			
Diisopropyl Ether	ug/l	ND	12/09/04	LBD	0.5			
1,4-Dioxane	ug/l	ND	12/09/04	LBD	50.0			
Ethyl Benzene	ug/l	ND	12/09/04	LBD	0.6			
Ethyl Methacrylate	ug/l	ND	12/09/04	LBD	0.8			
Hexachlorobutadiene	ug/l	ND	12/09/04	LBD	1.3			
2-Hexanone	ug/l	ND	12/09/04	LBD	9.7			
Iodomethane	ug/l	ND	12/09/04	LBD	0.8			
Isopropylbenzene	ug/l	ND	12/09/04	LBD	0.4			
p-Isopropyltoluene	ug/l	ND	12/09/04	LBD	0.7			
MTBE	ug/l	ND	12/09/04	LBD	0.8			
Methylene Chloride	ug/l	ND	12/09/04	LBD	3.0			
MIBK	ug/l	ND	12/09/04	LBD	8.8			
Naphthalene	ug/l	ND	12/09/04	LBD	1.0			

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12/13/2004
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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-2

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42009 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
n-Propylbenzene	ug/l	ND	12/09/04	LBD	0.8			
Styrene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
Tetrachloroethylene	ug/l	ND	12/09/04	LBD	0.4			
Tetrahydrofuran	ug/l	ND	12/09/04	LBD	5.0			
Toluene	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/09/04	LBD	0.7			
Trichloroethylene	ug/l	ND	12/09/04	LBD	1.0			
Trichlorofluoromethane	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/09/04	LBD	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/09/04	LBD	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/09/04	LBD	1.0			
Vinyl Acetate	ug/l	ND	12/09/04	LBD	16.4			
Vinyl Chloride	ug/l	ND	12/09/04	LBD	0.3			
m + p Xylene	ug/l	ND	12/09/04	LBD	1.3			
o-Xylene	ug/l	ND	12/09/04	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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DONNA PALLISTER
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 250 CENTERVILLE RD., BLDG. E, SUITE 12
 WARWICK, RI 02886

12/13/2004
 Page 7 of 19

Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-3

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42010 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/09/04	LBD	10.0			
Acrolein	ug/l	ND	12/09/04	LBD	20.0			
Acrylonitrile	ug/l	ND	12/09/04	LBD	0.5			
tert-Amylmethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Benzene	ug/l	ND	12/09/04	LBD	0.6			
Bromobenzene	ug/l	ND	12/09/04	LBD	0.5			
Bromochloromethane	ug/l	ND	12/09/04	LBD	0.7			
Bromodichloromethane	ug/l	ND	12/09/04	LBD	0.4			
Bromoform	ug/l	ND	12/09/04	LBD	1.2			
Bromomethane	ug/l	ND	12/09/04	LBD	1.2			
2-Butanone (MEK)	ug/l	ND	12/09/04	LBD	10.0			
tert-Butyl Alcohol	ug/l	ND	12/09/04	LBD	20.0			
n-Butylbenzene	ug/l	ND	12/09/04	LBD	0.7			
sec-Butylbenzene	ug/l	ND	12/09/04	LBD	0.6			
tert-Butylbenzene	ug/l	ND	12/09/04	LBD	0.8			
tert-Butylethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Carbon Disulfide	ug/l	ND	12/09/04	LBD	3.0			
Carbon Tetrachloride	ug/l	ND	12/09/04	LBD	0.5			
Chlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
Chlorodibromomethane	ug/l	ND	12/09/04	LBD	0.5			
Chloroethane	ug/l	ND	12/09/04	LBD	0.8			
2-Chloroethylvinylether	ug/l	ND	12/09/04	LBD	9.6			
Chloroform	ug/l	ND	12/09/04	LBD	0.8			
Chloromethane	ug/l	ND	12/09/04	LBD	1.2			
2-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
4-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/09/04	LBD	1.6			
1,2-Dibromoethane	ug/l	ND	12/09/04	LBD	0.70			
Dibromomethane	ug/l	ND	12/09/04	LBD	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			

RL = Reporting Limit
 ND = Not Detected
 NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-4

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42011 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/09/04	LBD	10.0			
Acrolein	ug/l	ND	12/09/04	LBD	20.0			
Acrylonitrile	ug/l	ND	12/09/04	LBD	0.5			
tert-Amylmethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Benzene	ug/l	ND	12/09/04	LBD	0.6			
Bromobenzene	ug/l	ND	12/09/04	LBD	0.5			
Bromochloromethane	ug/l	ND	12/09/04	LBD	0.7			
Bromodichloromethane	ug/l	ND	12/09/04	LBD	0.4			
Bromoform	ug/l	ND	12/09/04	LBD	1.2			
Bromomethane	ug/l	ND	12/09/04	LBD	1.2			
2-Butanone (MEK)	ug/l	ND	12/09/04	LBD	10.0			
tert-Butyl Alcohol	ug/l	ND	12/09/04	LBD	20.0			
n-Butylbenzene	ug/l	ND	12/09/04	LBD	0.7			
sec-Butylbenzene	ug/l	ND	12/09/04	LBD	0.6			
tert-Butylbenzene	ug/l	ND	12/09/04	LBD	0.8			
tert-Butylethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Carbon Disulfide	ug/l	ND	12/09/04	LBD	3.0			
Carbon Tetrachloride	ug/l	ND	12/09/04	LBD	0.5			
Chlorobenzene	ug/l	0.6	12/09/04	LBD	0.6			
Chlorodibromomethane	ug/l	ND	12/09/04	LBD	0.5			
Chloroethane	ug/l	ND	12/09/04	LBD	0.8			
2-Chloroethylvinylether	ug/l	ND	12/09/04	LBD	9.6			
Chloroform	ug/l	ND	12/09/04	LBD	0.8			
Chloromethane	ug/l	ND	12/09/04	LBD	1.2			
2-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
4-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/09/04	LBD	1.6			
1,2-Dibromoethane	ug/l	ND	12/09/04	LBD	0.70			
Dibromomethane	ug/l	ND	12/09/04	LBD	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			

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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-4
 Sample ID: 04B42011

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,3-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
1,4-Dichlorobenzene	ug/l	2.1	12/09/04	LBD	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.4			
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.1			
Dichlorodifluoromethane	ug/l	ND	12/09/04	LBD	1.0			
1,1-Dichloroethane	ug/l	ND	12/09/04	LBD	0.7			
1,2-Dichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.8			
1,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.6			
1,3-Dichloropropane	ug/l	ND	12/09/04	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.4			
Diethyl Ether	ug/l	ND	12/09/04	LBD	2.0			
Diisopropyl Ether	ug/l	ND	12/09/04	LBD	0.5			
1,4-Dioxane	ug/l	ND	12/09/04	LBD	50.0			
Ethyl Benzene	ug/l	ND	12/09/04	LBD	0.6			
Ethyl Methacrylate	ug/l	ND	12/09/04	LBD	0.8			
Hexachlorobutadiene	ug/l	ND	12/09/04	LBD	1.3			
2-Hexanone	ug/l	ND	12/09/04	LBD	9.7			
Iodomethane	ug/l	ND	12/09/04	LBD	0.8			
Isopropylbenzene	ug/l	ND	12/09/04	LBD	0.4			
p-Isopropyltoluene	ug/l	ND	12/09/04	LBD	0.7			
MTBE	ug/l	ND	12/09/04	LBD	0.8			
Methylene Chloride	ug/l	ND	12/09/04	LBD	3.0			
MIBK	ug/l	ND	12/09/04	LBD	8.8			
Naphthalene	ug/l	ND	12/09/04	LBD	1.0			

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Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/3/2004
Field Sample #: ATC-4

LIMS-BAT #: LIMS-84416
Job Number: 081-12152-01

Sample ID : 04B42011 Sampled : 12/2/2004
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
n-Propylbenzene	ug/l	ND	12/09/04	LBD	0.8			
Styrene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
Tetrachloroethylene	ug/l	ND	12/09/04	LBD	0.4			
Tetrahydrofuran	ug/l	ND	12/09/04	LBD	5.0			
Toluene	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/09/04	LBD	0.7			
Trichloroethylene	ug/l	ND	12/09/04	LBD	1.0			
Trichlorofluoromethane	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/09/04	LBD	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/09/04	LBD	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/09/04	LBD	1.0			
Vinyl Acetate	ug/l	ND	12/09/04	LBD	16.4			
Vinyl Chloride	ug/l	ND	12/09/04	LBD	0.3			
m + p Xylene	ug/l	ND	12/09/04	LBD	1.3			
o-Xylene	ug/l	ND	12/09/04	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/3/2004

LIMS-BAT #: LIMS-84416
Job Number: 081-12152-01

Field Sample #: ATC-5

Sample ID : 04B42012 Sampled : 12/2/2004
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	12/09/04	LBD	10.0		
Acrolein	ug/l	ND	12/09/04	LBD	20.0		
Acrylonitrile	ug/l	ND	12/09/04	LBD	0.5		
tert-Amylmethyl Ether	ug/l	ND	12/09/04	LBD	0.5		
Benzene	ug/l	ND	12/09/04	LBD	0.6		
Bromobenzene	ug/l	ND	12/09/04	LBD	0.5		
Bromochloromethane	ug/l	ND	12/09/04	LBD	0.7		
Bromodichloromethane	ug/l	ND	12/09/04	LBD	0.4		
Bromoform	ug/l	ND	12/09/04	LBD	1.2		
Bromomethane	ug/l	ND	12/09/04	LBD	1.2		
2-Butanone (MEK)	ug/l	ND	12/09/04	LBD	10.0		
tert-Butyl Alcohol	ug/l	ND	12/09/04	LBD	20.0		
n-Butylbenzene	ug/l	ND	12/09/04	LBD	0.7		
sec-Butylbenzene	ug/l	ND	12/09/04	LBD	0.6		
tert-Butylbenzene	ug/l	ND	12/09/04	LBD	0.8		
tert-Butylethyl Ether	ug/l	ND	12/09/04	LBD	0.5		
Carbon Disulfide	ug/l	ND	12/09/04	LBD	3.0		
Carbon Tetrachloride	ug/l	ND	12/09/04	LBD	0.5		
Chlorobenzene	ug/l	ND	12/09/04	LBD	0.6		
Chlorodibromomethane	ug/l	ND	12/09/04	LBD	0.5		
Chloroethane	ug/l	ND	12/09/04	LBD	0.8		
2-Chloroethylvinylether	ug/l	ND	12/09/04	LBD	9.6		
Chloroform	ug/l	ND	12/09/04	LBD	0.8		
Chloromethane	ug/l	ND	12/09/04	LBD	1.2		
2-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6		
4-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6		
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/09/04	LBD	1.6		
1,2-Dibromoethane	ug/l	ND	12/09/04	LBD	0.70		
Dibromomethane	ug/l	ND	12/09/04	LBD	1.1		
1,2-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8		

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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: ATC-5

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42012 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,3-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.4			
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.1			
Dichlorodifluoromethane	ug/l	ND	12/09/04	LBD	1.0			
1,1-Dichloroethane	ug/l	ND	12/09/04	LBD	0.7			
1,2-Dichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.8			
1,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.6			
1,3-Dichloropropane	ug/l	ND	12/09/04	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.4			
Diethyl Ether	ug/l	ND	12/09/04	LBD	2.0			
Diisopropyl Ether	ug/l	ND	12/09/04	LBD	0.5			
1,4-Dioxane	ug/l	ND	12/09/04	LBD	50.0			
Ethyl Benzene	ug/l	ND	12/09/04	LBD	0.6			
Ethyl Methacrylate	ug/l	ND	12/09/04	LBD	0.8			
Hexachlorobutadiene	ug/l	ND	12/09/04	LBD	1.3			
2-Hexanone	ug/l	ND	12/09/04	LBD	9.7			
Iodomethane	ug/l	ND	12/09/04	LBD	0.8			
Isopropylbenzene	ug/l	ND	12/09/04	LBD	0.4			
p-Isopropyltoluene	ug/l	ND	12/09/04	LBD	0.7			
MTBE	ug/l	ND	12/09/04	LBD	0.8			
Methylene Chloride	ug/l	ND	12/09/04	LBD	3.0			
MIBK	ug/l	ND	12/09/04	LBD	8.8			
Naphthalene	ug/l	ND	12/09/04	LBD	1.0			

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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: TRIP BLANK

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42013 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	12/09/04	LBD	10.0			
Acrolein	ug/l	ND	12/09/04	LBD	20.0			
Acrylonitrile	ug/l	ND	12/09/04	LBD	0.5			
tert-Amylmethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Benzene	ug/l	ND	12/09/04	LBD	0.6			
Bromobenzene	ug/l	ND	12/09/04	LBD	0.5			
Bromochloromethane	ug/l	ND	12/09/04	LBD	0.7			
Bromodichloromethane	ug/l	ND	12/09/04	LBD	0.4			
Bromoform	ug/l	ND	12/09/04	LBD	1.2			
Bromomethane	ug/l	ND	12/09/04	LBD	1.2			
2-Butanone (MEK)	ug/l	ND	12/09/04	LBD	10.0			
tert-Butyl Alcohol	ug/l	ND	12/09/04	LBD	20.0			
n-Butylbenzene	ug/l	ND	12/09/04	LBD	0.7			
sec-Butylbenzene	ug/l	ND	12/09/04	LBD	0.6			
tert-Butylbenzene	ug/l	ND	12/09/04	LBD	0.8			
tert-Butylethyl Ether	ug/l	ND	12/09/04	LBD	0.5			
Carbon Disulfide	ug/l	ND	12/09/04	LBD	3.0			
Carbon Tetrachloride	ug/l	ND	12/09/04	LBD	0.5			
Chlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
Chlorodibromomethane	ug/l	ND	12/09/04	LBD	0.5			
Chloroethane	ug/l	ND	12/09/04	LBD	0.8			
2-Chloroethylvinylether	ug/l	ND	12/09/04	LBD	9.6			
Chloroform	ug/l	ND	12/09/04	LBD	0.8			
Chloromethane	ug/l	ND	12/09/04	LBD	1.2			
2-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
4-Chlorotoluene	ug/l	ND	12/09/04	LBD	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/09/04	LBD	1.6			
1,2-Dibromoethane	ug/l	ND	12/09/04	LBD	0.70			
Dibromomethane	ug/l	ND	12/09/04	LBD	1.1			
1,2-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			

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Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
 Date Received: 12/3/2004
 Field Sample #: TRIP BLANK

LIMS-BAT #: LIMS-84416
 Job Number: 081-12152-01

Sample ID : 04B42013 Sampled : 12/2/2004
 NOT SPECIFIED

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,3-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.6			
1,4-Dichlorobenzene	ug/l	ND	12/09/04	LBD	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.4			
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/09/04	LBD	2.1			
Dichlorodifluoromethane	ug/l	ND	12/09/04	LBD	1.0			
1,1-Dichloroethane	ug/l	ND	12/09/04	LBD	0.7			
1,2-Dichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	12/09/04	LBD	0.8			
1,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.6			
1,3-Dichloropropane	ug/l	ND	12/09/04	LBD	0.5			
2,2-Dichloropropane	ug/l	ND	12/09/04	LBD	0.9			
1,1-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
cis-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.5			
trans-1,3-Dichloropropene	ug/l	ND	12/09/04	LBD	0.4			
Diethyl Ether	ug/l	ND	12/09/04	LBD	2.0			
Diisopropyl Ether	ug/l	ND	12/09/04	LBD	0.5			
1,4-Dioxane	ug/l	ND	12/09/04	LBD	50.0			
Ethyl Benzene	ug/l	ND	12/09/04	LBD	0.6			
Ethyl Methacrylate	ug/l	ND	12/09/04	LBD	0.8			
Hexachlorobutadiene	ug/l	ND	12/09/04	LBD	1.3			
2-Hexanone	ug/l	ND	12/09/04	LBD	9.7			
Iodomethane	ug/l	ND	12/09/04	LBD	0.8			
Isopropylbenzene	ug/l	ND	12/09/04	LBD	0.4			
p-Isopropyltoluene	ug/l	ND	12/09/04	LBD	0.7			
MTBE	ug/l	ND	12/09/04	LBD	0.8			
Methylene Chloride	ug/l	ND	12/09/04	LBD	3.0			
MIBK	ug/l	ND	12/09/04	LBD	8.8			
Naphthalene	ug/l	ND	12/09/04	LBD	1.0			

RL = Reporting Limit
 ND = Not Detected
 NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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DONNA PALLISTER
LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886

12/13/2004
Page 18 of 19

Purchase Order No.:

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/3/2004
Field Sample #: TRIP BLANK

LIMS-BAT #: LIMS-84416
Job Number: 081-12152-01

Sample ID : 04B42013 Sampled : 12/2/2004
NOT SPECIFIED

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
n-Propylbenzene	ug/l	ND	12/09/04	LBD	0.8			
Styrene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	12/09/04	LBD	0.5			
Tetrachloroethylene	ug/l	ND	12/09/04	LBD	0.4			
Tetrahydrofuran	ug/l	ND	12/09/04	LBD	5.0			
Toluene	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	12/09/04	LBD	0.7			
1,1,1-Trichloroethane	ug/l	ND	12/09/04	LBD	0.9			
1,1,2-Trichloroethane	ug/l	ND	12/09/04	LBD	0.7			
Trichloroethylene	ug/l	ND	12/09/04	LBD	1.0			
Trichlorofluoromethane	ug/l	ND	12/09/04	LBD	0.7			
1,2,3-Trichloropropane	ug/l	ND	12/09/04	LBD	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	12/09/04	LBD	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	12/09/04	LBD	1.0			
Vinyl Acetate	ug/l	ND	12/09/04	LBD	16.4			
Vinyl Chloride	ug/l	ND	12/09/04	LBD	0.3			
m + p Xylene	ug/l	ND	12/09/04	LBD	1.3			
o-Xylene	ug/l	ND	12/09/04	LBD	0.5			

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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DONNA PALLISTER
LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886

Purchase Order No.:

12/13/2004
Page 19 of 19

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/3/2004

LIMS-BAT #: LIMS-84416
Job Number: 081-12152-01

** END OF REPORT **

RL = Reporting Limit
ND = Not Detected
NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 12/13/2004 Lims Bat #: LIMS-84416 Page 1 of 4

QC Batch Number: GCMS/VOL-11070

Sample Id	Analysis	QC Analysis	Values	Units	Limits
04B42008	1,2-Dichloroethane-d4	Surrogate Recovery	109.6	%	70-130
	Toluene-d8	Surrogate Recovery	100.1	%	70-130
	Bromofluorobenzene	Surrogate Recovery	95.6	%	70-130
04B42009	1,2-Dichloroethane-d4	Surrogate Recovery	110.2	%	70-130
	Toluene-d8	Surrogate Recovery	98.3	%	70-130
	Bromofluorobenzene	Surrogate Recovery	93.5	%	70-130
04B42010	1,2-Dichloroethane-d4	Surrogate Recovery	111.3	%	70-130
	Toluene-d8	Surrogate Recovery	98.0	%	70-130
	Bromofluorobenzene	Surrogate Recovery	94.8	%	70-130
04B42011	1,2-Dichloroethane-d4	Surrogate Recovery	111.1	%	70-130
	Toluene-d8	Surrogate Recovery	96.9	%	70-130
	Bromofluorobenzene	Surrogate Recovery	93.6	%	70-130
04B42012	1,2-Dichloroethane-d4	Surrogate Recovery	112.8	%	70-130
	Toluene-d8	Surrogate Recovery	98.1	%	70-130
	Bromofluorobenzene	Surrogate Recovery	93.8	%	70-130
04B42013	1,2-Dichloroethane-d4	Surrogate Recovery	109.2	%	70-130
	Toluene-d8	Surrogate Recovery	97.3	%	70-130
	Bromofluorobenzene	Surrogate Recovery	93.8	%	70-130
BLANK-67702	Acetone	Blank	<10.0	ug/l	
	Benzene	Blank	<0.6	ug/l	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	<0.8	ug/l	
	1,2-Dichloroethane	Blank	<0.9	ug/l	
	1,4-Dichlorobenzene	Blank	<0.8	ug/l	
	Ethyl Benzene	Blank	<0.6	ug/l	
	2-Butanone (MEK)	Blank	<10.0	ug/l	
	MIBK	Blank	<8.8	ug/l	
	Naphthalene	Blank	<1.0	ug/l	
	Styrene	Blank	<0.7	ug/l	
	Tetrachloroethylene	Blank	<0.4	ug/l	
	Toluene	Blank	<0.7	ug/l	
	1,1,1-Trichloroethane	Blank	<0.9	ug/l	
	Trichloroethylene	Blank	<1.0	ug/l	
	Trichlorofluoromethane	Blank	<0.7	ug/l	
	o-Xylene	Blank	<0.5	ug/l	
	m + p Xylene	Blank	<1.3	ug/l	
	1,2-Dichlorobenzene	Blank	<0.8	ug/l	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/13/2004

Lims Bat #: LIMS-84416

Page 2 of 4

QC Batch Number: GCMS/VOL-11070

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-67702	1,3-Dichlorobenzene	Blank	<0.6	ug/l	
	1,1-Dichloroethane	Blank	<0.7	ug/l	
	1,1-Dichloroethylene	Blank	<0.6	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<0.8	ug/l	
	trans-1,2-Dichloroethylene	Blank	<0.8	ug/l	
	Vinyl Chloride	Blank	<0.3	ug/l	
	Methylene Chloride	Blank	<3.0	ug/l	
	Chlorobenzene	Blank	<0.6	ug/l	
	Chloromethane	Blank	<1.2	ug/l	
	Bromomethane	Blank	<1.2	ug/l	
	Chloroethane	Blank	<0.8	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.4	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethane	Blank	<0.7	ug/l	
	2-Chloroethylvinylether	Blank	<9.6	ug/l	
	Bromoform	Blank	<1.2	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l	
	2-Chlorotoluene	Blank	<0.6	ug/l	
	Hexachlorobutadiene	Blank	<1.3	ug/l	
	Isopropylbenzene	Blank	<0.4	ug/l	
	p-Isopropyltoluene	Blank	<0.7	ug/l	
	n-Propylbenzene	Blank	<0.8	ug/l	
	sec-Butylbenzene	Blank	<0.6	ug/l	
	tert-Butylbenzene	Blank	<0.8	ug/l	
	1,2,3-Trichlorobenzene	Blank	<0.7	ug/l	
	1,2,4-Trichlorobenzene	Blank	<0.7	ug/l	
	1,2,4-Trimethylbenzene	Blank	<0.7	ug/l	
	1,3,5-Trimethylbenzene	Blank	<1.0	ug/l	
	Dibromomethane	Blank	<1.1	ug/l	
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	4-Chlorotoluene	Blank	<0.6	ug/l	
	1,1-Dichloropropene	Blank	<0.5	ug/l	
	1,2-Dichloropropane	Blank	<0.6	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<0.9	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l	
	1,2,3-Trichloropropane	Blank	<1.3	ug/l	
	n-Butylbenzene	Blank	<0.7	ug/l	
	Dichlorodifluoromethane	Blank	<1.0	ug/l	
	Bromochloromethane	Blank	<0.7	ug/l	
	Bromobenzene	Blank	<0.5	ug/l	



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/13/2004

Lims Bat # : LIMS-84416

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QC Batch Number: GCMS/VOL-11070

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-67702	Iodomethane	Blank	<0.8	ug/l	
	Acrolein	Blank	<20.0	ug/l	
	Acrylonitrile	Blank	<0.5	ug/l	
	Carbon Disulfide	Blank	<3.0	ug/l	
	Vinyl Acetate	Blank	<16.4	ug/l	
	2-Hexanone	Blank	<9.7	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<2.1	ug/l	
	Ethyl Methacrylate	Blank	<0.8	ug/l	
	cis-1,4-Dichloro-2-Butene	Blank	<2.4	ug/l	
	Diethyl Ether	Blank	<2.0	ug/l	
	Bromodichloromethane	Blank	<0.4	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<1.6	ug/l	
	1,2-Dibromoethane	Blank	<0.70	ug/l	
	Tetrahydrofuran	Blank	<5.0	ug/l	
	tert-Butyl Alcohol	Blank	<20.0	ug/l	
	Diisopropyl Ether	Blank	<0.5	ug/l	
	tert-Butylethyl Ether	Blank	<0.5	ug/l	
	tert-Amylmethyl Ether	Blank	<0.5	ug/l	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/13/2004

Lims Bat #: LIMS-84416

Page 4 of 4

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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

CHAIN OF CUSTODY RECORD

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

Company Name: LEF
 Address: 250 Centerville Rd, Bld E, Suite 12
Warwick, RI 02886

Telephone: (401) 738-3887
 Project # 081-12152-01
 Client PO # _____

Attention: Donna Pallister

Project Location: Springfield St. School, Providence, RI

Sampled By: A. Cote

Proposal Provided? (For Billing purposes) yes no
 State Form Required? yes no

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: _____
 Format: EXCEL PDF GIS KEY

Field ID	Sample Description	Lab #	Date Sampled		Comp- osite	Grab	Matrix Code	ANALYSIS REQUESTED	# of containers
			Start Date/Time	Stop Date/Time					
ATC-1		42008	12/2/04	1200	X		GW	X	
ATC-2		42009	12/2/04	1315	X		GW	X	
ATC-3		42010	12/2/04	1525	X		GW	X	
ATC-4		42011	12/2/04	1115	X		GW	X	
ATC-5		42012	12/2/04	1900	X		GW	X	
	Trip Blank	42013							

(0928) 8260

Relinquished by: (signature) Alice Cote Date/Time: 12/2/04 1015

Received by: (signature) [Signature] Date/Time: 12/3/04 1220

Relinquished by: (signature) [Signature] Date/Time: 12/3/04 1700

Received by: (signature) [Signature] Date/Time: 12/13 1700

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

Detection Limit Requirements
 Regulations? Rhode Island
 Data Enhancement Project? Y N
 (MA MCP sites only)
 Special Requirements or DL's: _____

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

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

Comments:
 Amber glass
 Plastic
 Stainless steel
 Other

Con-Test Laboratory is the ONLY independent laboratory in all of New England with both prestigious AIHA and NELAP Certifications and WBE/DBE Certified!

Attachment 3

GB Groundwater Objective Calculation

GB Groundwater Objectives Algorithm

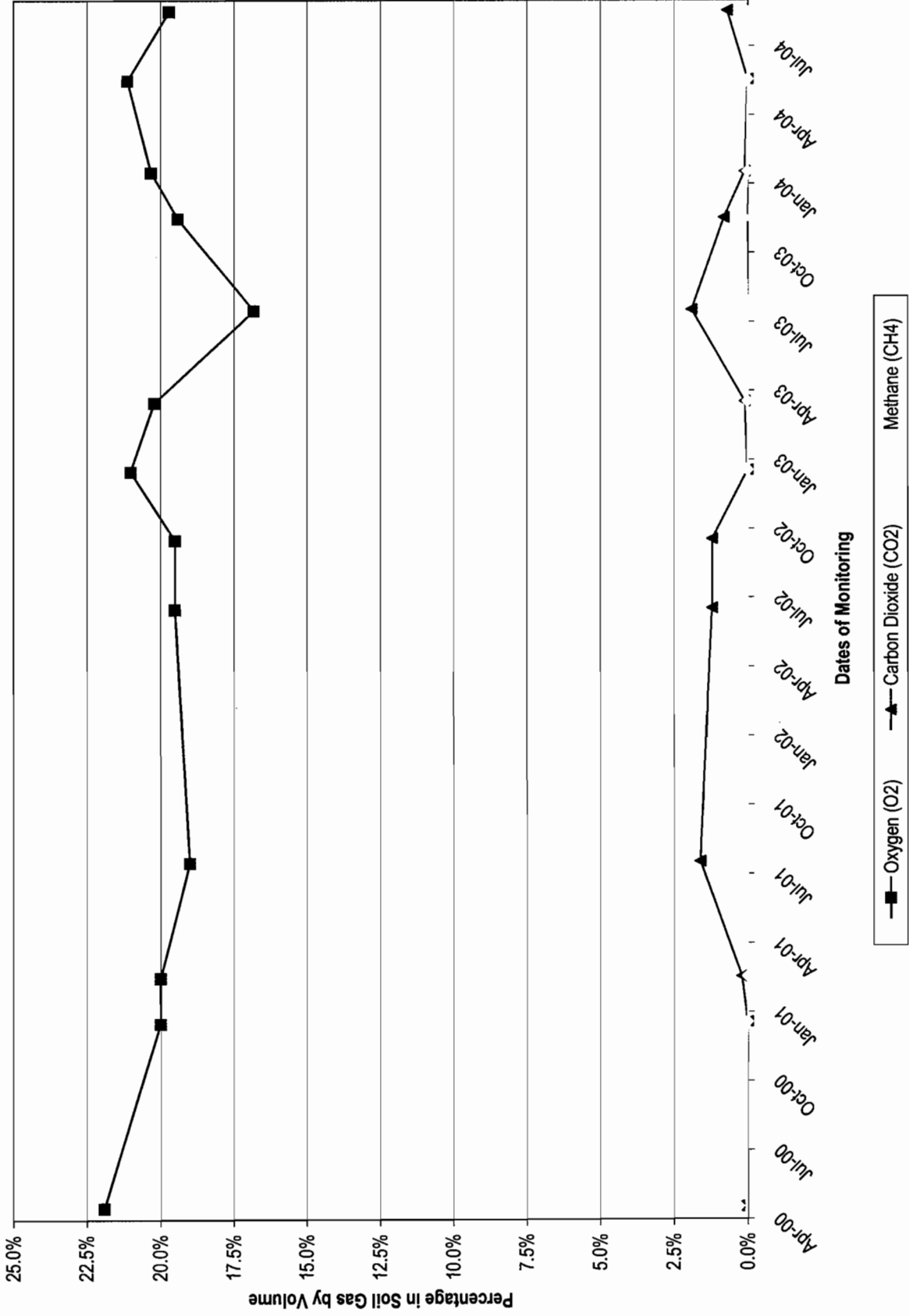
VOCs (ug/L)	Ca	T	WS	VP	MW	C _w (mg/L)	C _w (ug/L)
	1,4-dichlorobenzene	0.451	293	79	1.3	147.0	3.41

- Ca = Air Concentration (mg/L) - OSHA PEL
- T = Temperature of groundwater (degrees K)
- WS = Solubility (mg/L-water) from MADEP
- VP = Vapor Pressure (mm Hg) from NIOSH Pocket Guide to Chemical Hazards
- MW = Molecular Weight (g/mole) from NIOSH Pocket Guide to Chemical Hazards
- C_w = Water Concentration (mg/L) - calculated

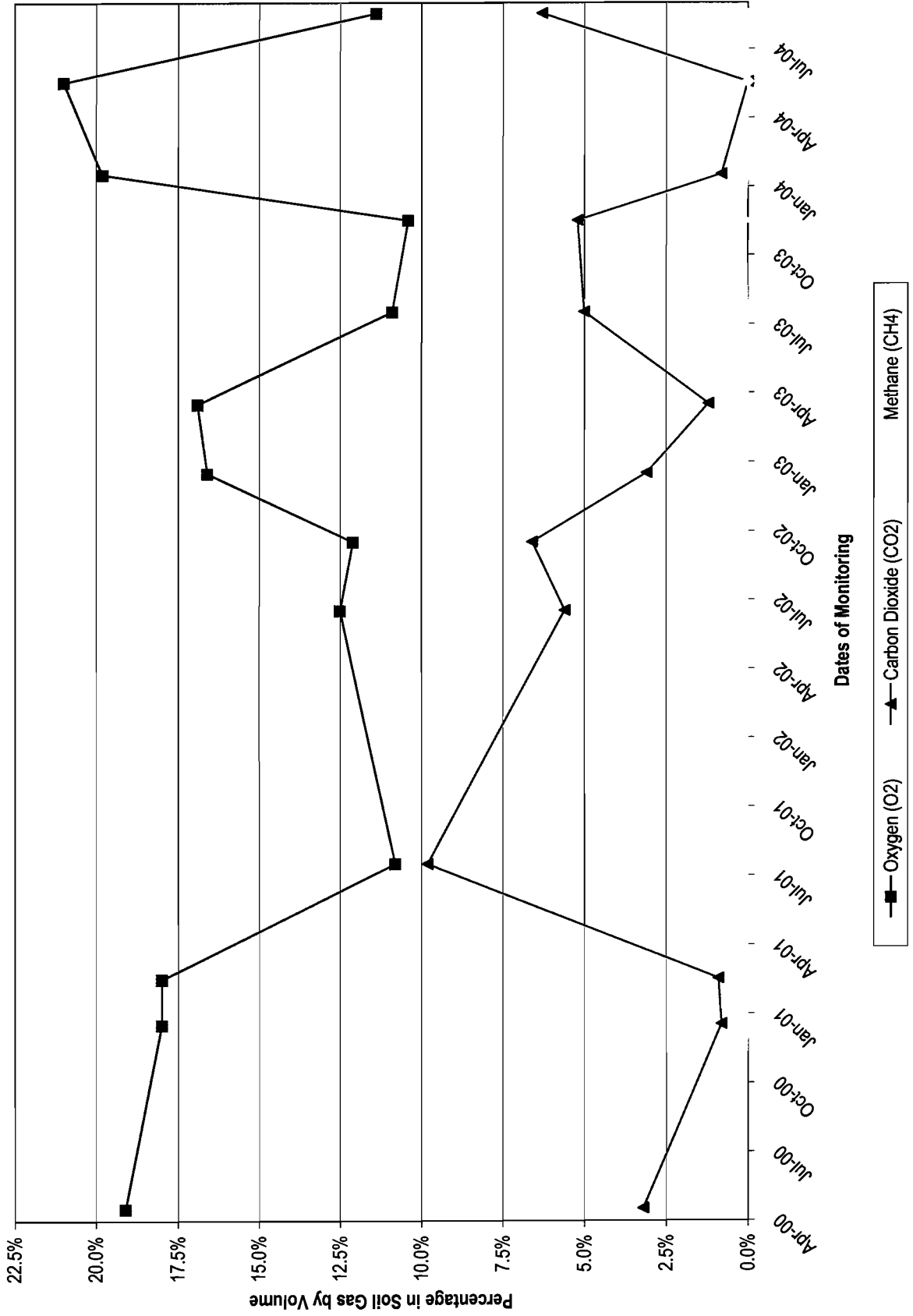
$$C_w = (Ca * T * WS) / (VP * MW * 16.04)$$

Attachment 4
Soil Gas Graphs

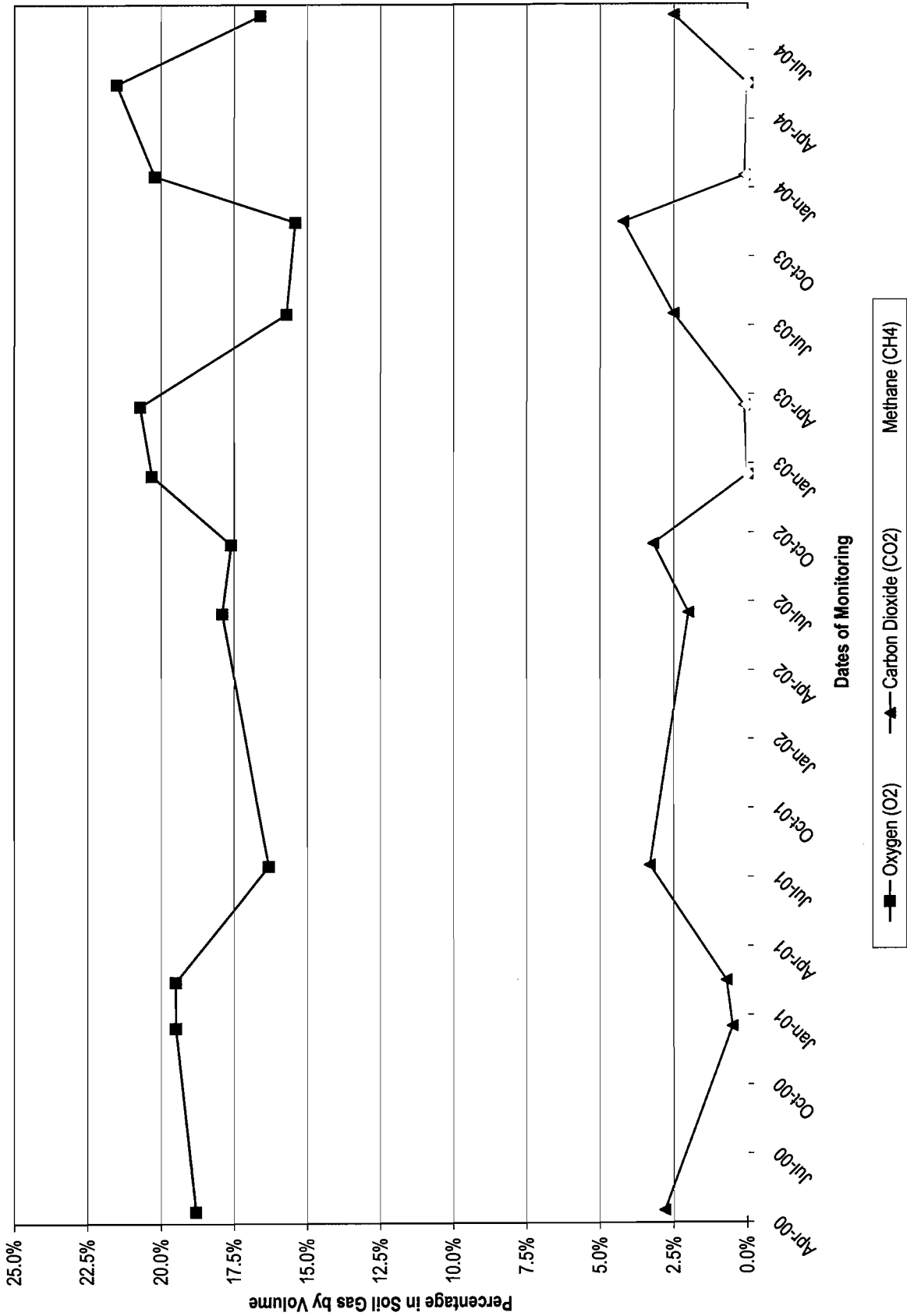
Soil Gas Well EPL1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
 Springfield Street School Complex
 Providence, Rhode Island



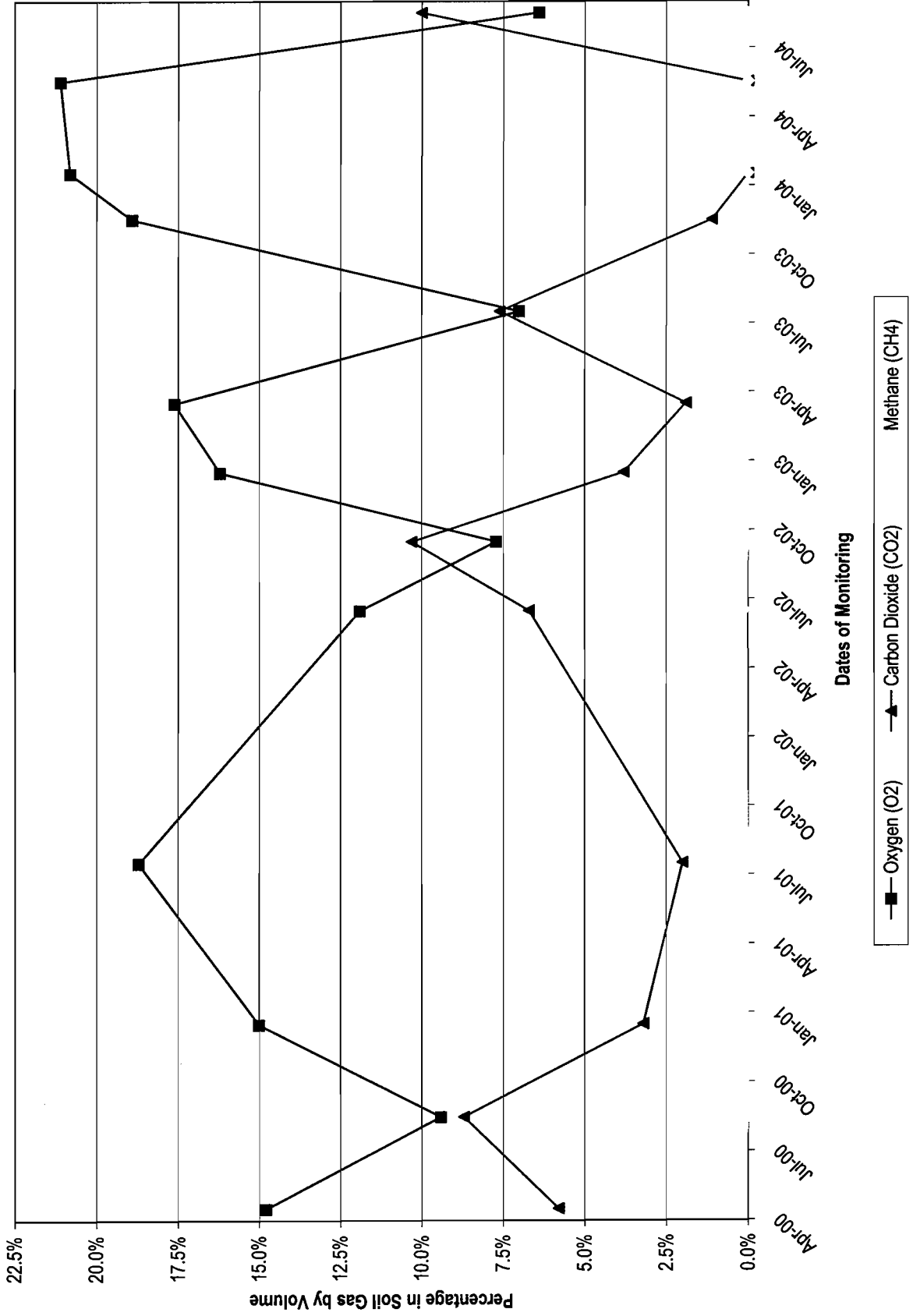
Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



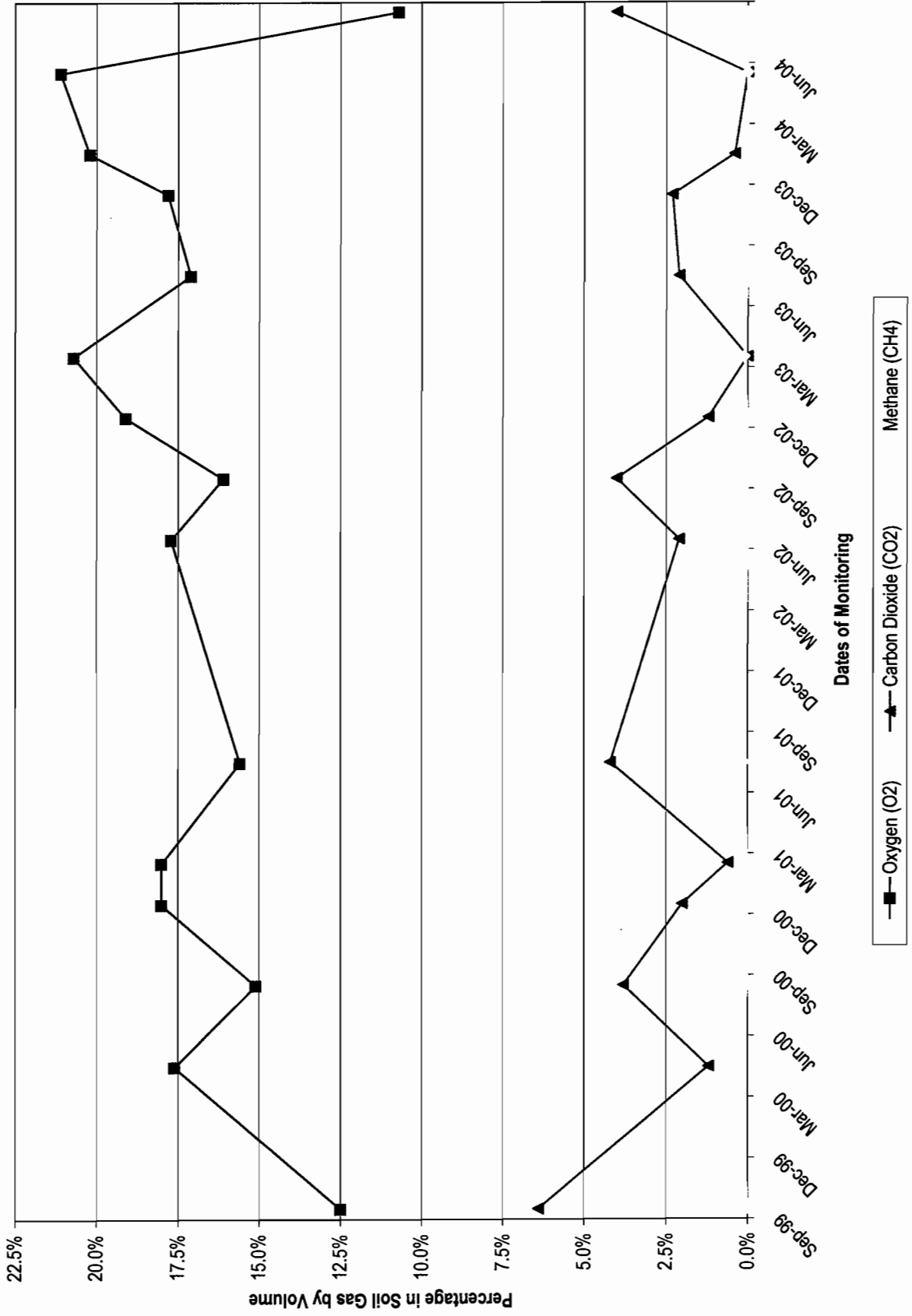
Soil Gas Well MG2
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



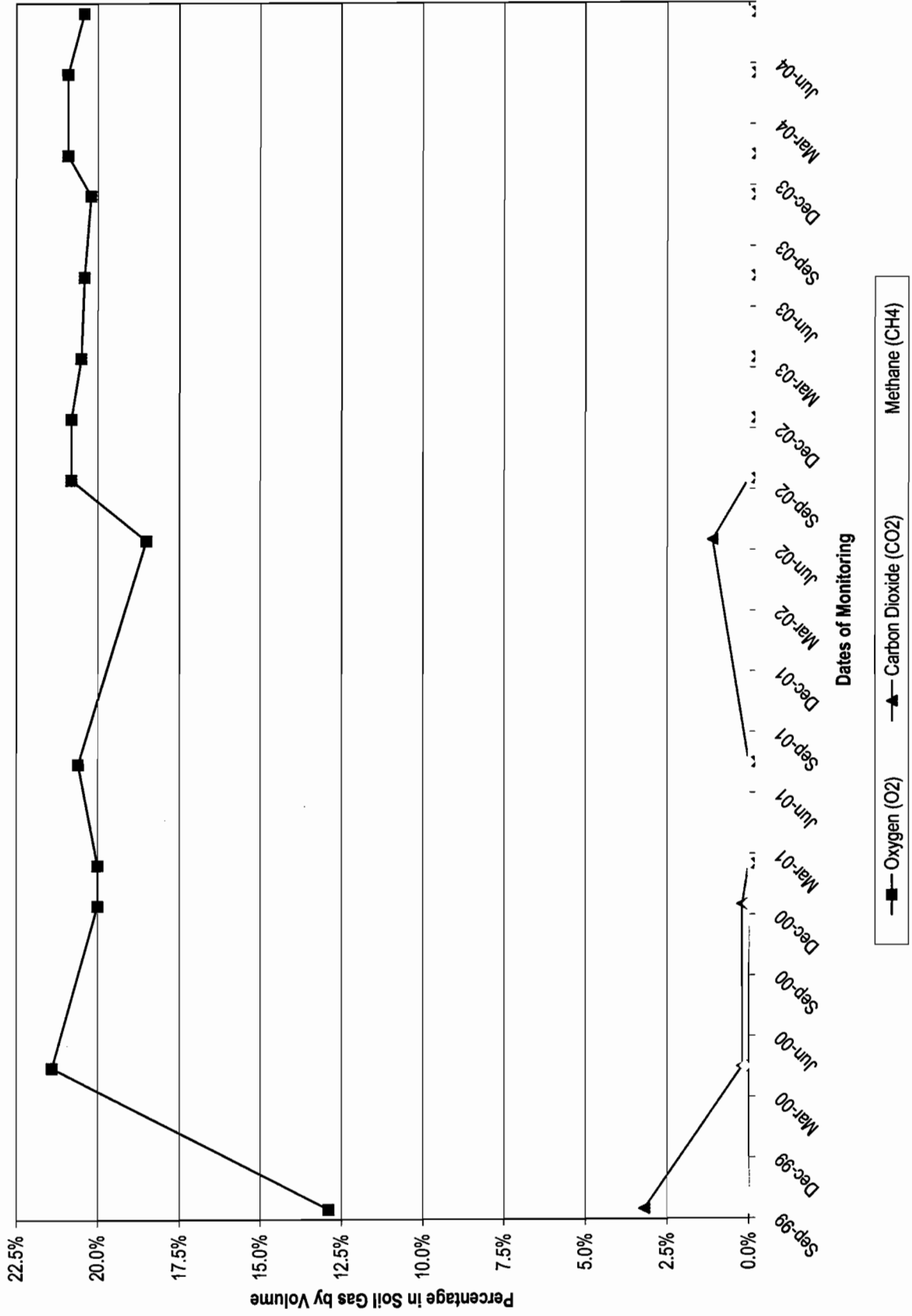
Soil Gas Well MPL5
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



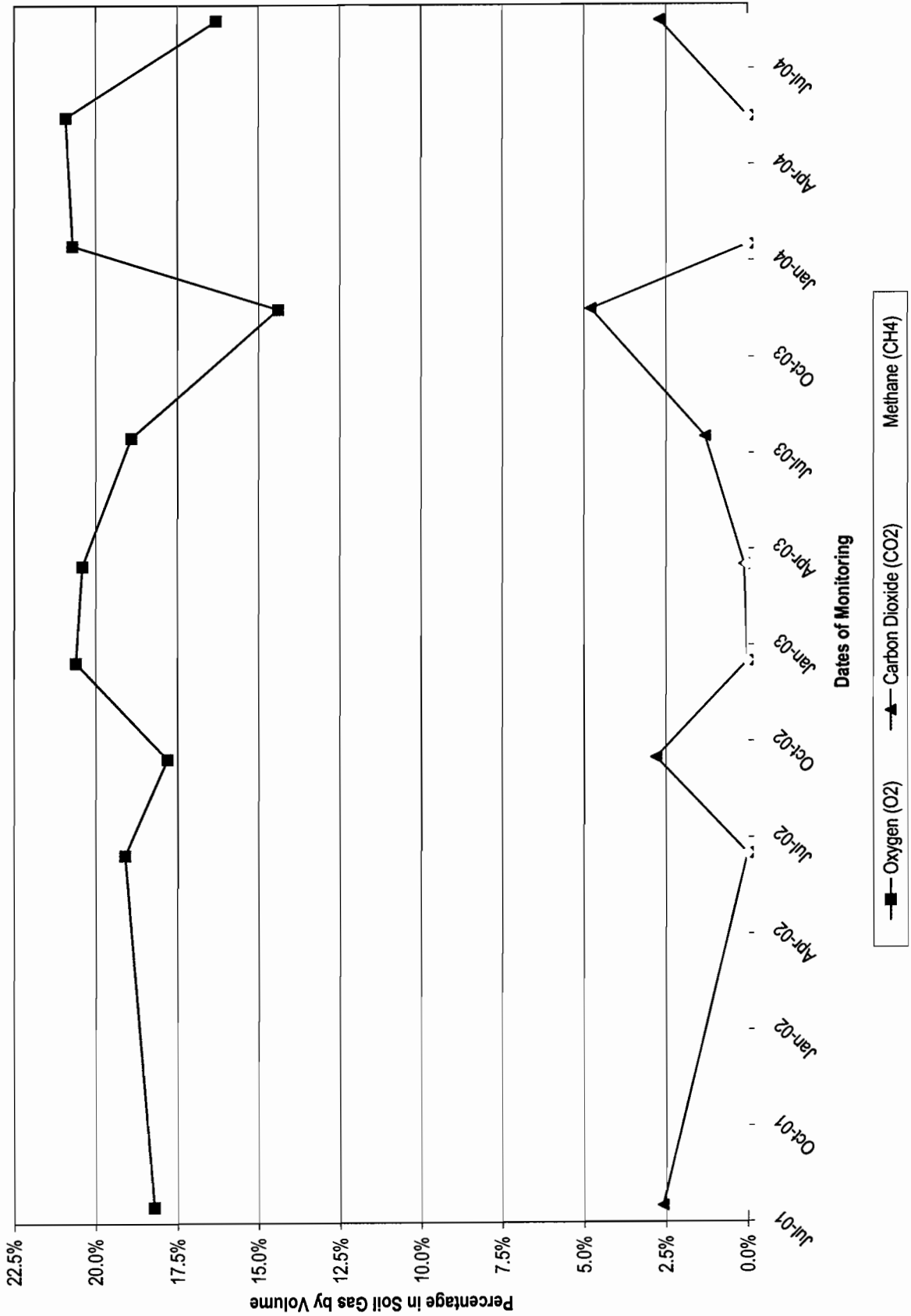
Soil Gas Well WB1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



Soil Gas Well WB7
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



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



Attachment 5

Laboratory Report for Soil Gas



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 12/8/2004

LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886
ATTN: DONNA PALLISTER

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-84354
JOB NUMBER: 081-12152-01

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

PROJECT LOCATION: SPRINGFIELD ST SCHOOL, PROV

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MPL-6	04B41499	AIR	NOT SPECIFIED	to-14 ppbv
MPL-6	04B41499	AIR	NOT SPECIFIED	to-14 ug/m3
WB-2	04B41498	AIR	NOT SPECIFIED	to-14 ppbv
WB-2	04B41498	AIR	NOT SPECIFIED	to-14 ug/m3

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

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

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

Edward Denson 12/8/04

Tod Kopycinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

SIGNATURE

DATE

Edward Denson
Technical Director



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

DONNA PALLISTER
LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886

Purchase Order No.: 5131

12/8/2004
Page 1 of 9

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/1/2004
Field Sample #: MPL-6

LIMS-BAT #: LIMS-84354
Job Number: 081-12152-01

Sample ID : 04B41499 Sampled : 11/30/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	12/02/04	WSD	0.5			
Bromomethane	PPBv	ND	12/02/04	WSD	0.5			
Carbon Tetrachloride	PPBv	ND	12/02/04	WSD	0.5			
Chlorobenzene	PPBv	ND	12/02/04	WSD	0.5			
Chloroethane	PPBv	ND	12/02/04	WSD	0.5			
Chloroform	PPBv	ND	12/02/04	WSD	0.5			
Chloromethane	PPBv	ND	12/02/04	WSD	0.5			
1,2-Dibromoethane	PPBv	ND	12/02/04	WSD	0.5			
1,2-Dichlorobenzene	PPBv	ND	12/02/04	WSD	0.5			
1,3-Dichlorobenzene	PPBv	ND	12/02/04	WSD	0.5			
1,4-Dichlorobenzene	PPBv	ND	12/02/04	WSD	0.5			
Dichlorodifluoromethane	PPBv	ND	12/02/04	WSD	0.5			
1,1-Dichloroethane	PPBv	ND	12/02/04	WSD	0.5			
1,2-Dichloroethane	PPBv	ND	12/02/04	WSD	0.5			
1,1-Dichloroethylene	PPBv	ND	12/02/04	WSD	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	12/02/04	WSD	0.5			
1,2-Dichloropropane	PPBv	ND	12/02/04	WSD	0.5			
cis-1,3-Dichloropropene	PPBv	ND	12/02/04	WSD	0.5			
trans-1,3-Dichloropropene	PPBv	ND	12/02/04	WSD	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	12/02/04	WSD	0.5			
Ethylbenzene	PPBv	ND	12/02/04	WSD	0.5			
Hexachlorobutadiene	PPBv	ND	12/02/04	WSD	0.5			
Methylene Chloride	PPBv	ND	12/02/04	WSD	0.5			
Styrene	PPBv	ND	12/02/04	WSD	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	12/02/04	WSD	0.5			
Tetrachloroethylene	PPBv	ND	12/02/04	WSD	0.5			
Toluene	PPBv	ND	12/02/04	WSD	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	12/02/04	WSD	0.5			
1,1,1-Trichloroethane	PPBv	ND	12/02/04	WSD	0.5			
1,1,2-Trichloroethane	PPBv	ND	12/02/04	WSD	0.5			

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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DONNA PALLISTER
LEVINE FRICKE
250 CENTERVILLE RD., BLDG. E, SUITE 12
WARWICK, RI 02886

Purchase Order No.: 5131

12/8/2004
Page 2 of 9

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/1/2004
Field Sample #: MPL-6

LIMS-BAT #: LIMS-84354
Job Number: 081-12152-01

Sample ID : 04B41499 Sampled : 11/30/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	ND	12/02/04	WSD	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	12/02/04	WSD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	12/02/04	WSD	0.5			
1,2,4-Trimethylbenzene	PPBv	3.4	12/02/04	WSD	0.5			
1,3,5-Trimethylbenzene	PPBv	1.4	12/02/04	WSD	0.5			
Vinyl Chloride	PPBv	ND	12/02/04	WSD	0.5			
m/p-Xylene	PPBv	3.9	12/02/04	WSD	0.5			
o-Xylene	PPBv	2.9	12/02/04	WSD	0.5			

Analytical Method:
EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.: 5131

12/8/2004
Page 4 of 9

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/1/2004
Field Sample #: **WB-2**

LIMS-BAT #: LIMS-84354
Job Number: 081-12152-01

Sample ID : **04B41498**

Sampled : 11/30/2004
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	15.7	12/01/04	WSD	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	0.6	12/01/04	WSD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	12/01/04	WSD	0.5			
1,2,4-Trimethylbenzene	PPBv	5.0	12/01/04	WSD	0.5			
1,3,5-Trimethylbenzene	PPBv	ND	12/01/04	WSD	0.5			
Vinyl Chloride	PPBv	ND	12/01/04	WSD	0.5			
m/p-Xylene	PPBv	5.9	12/01/04	WSD	0.5			
o-Xylene	PPBv	4.8	12/01/04	WSD	0.5			

Analytical Method:

EPA TO-14A

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Purchase Order No.: 5131

12/8/2004
Page 6 of 9

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/1/2004
Field Sample #: MPL-6

LIMS-BAT #: LIMS-84354
Job Number: 081-12152-01

Sample ID : 04B41499 Sampled : 11/30/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	ug/m3	ND	12/02/04	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	12/02/04	WSD	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	12/02/04	WSD	3.8		
1,2,4-Trimethylbenzene	ug/m3	17.0	12/02/04	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	6.6	12/02/04	WSD	2.5		
Vinyl Chloride	ug/m3	ND	12/02/04	WSD	1.3		
m/p-Xylene	ug/m3	17.0	12/02/04	WSD	2.2		
o-Xylene	ug/m3	12.7	12/02/04	WSD	2.2		

Analytical Method:
EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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WARWICK, RI 02886

Purchase Order No.: 5131

12/8/2004
Page 8 of 9

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/1/2004
Field Sample #: WB-2

LIMS-BAT #: LIMS-84354
Job Number: 081-12152-01

Sample ID : 04B41498 Sampled : 11/30/2004
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	ug/m3	84.6	12/01/04	WSD	2.7		
Trichlorofluoromethane	ug/m3	3.4	12/01/04	WSD	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	12/01/04	WSD	3.8		
1,2,4-Trimethylbenzene	ug/m3	24.3	12/01/04	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	12/01/04	WSD	2.5		
Vinyl Chloride	ug/m3	ND	12/01/04	WSD	1.3		
m/p-Xylene	ug/m3	25.7	12/01/04	WSD	2.2		
o-Xylene	ug/m3	20.9	12/01/04	WSD	2.2		

Analytical Method:
EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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WARWICK, RI 02886

Purchase Order No.: 5131

12/8/2004
Page 9 of 9

Project Location: SPRINGFIELD ST SCHOOL, PROV
Date Received: 12/1/2004

LIMS-BAT #: LIMS-84354
Job Number: 081-12152-01

** END OF REPORT **

RL = Reporting Limit
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determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/8/2004

Lims Bat # : LIMS-84354

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QC Batch Number: BATCH-7691

Sample Id	Analysis	QC Analysis	Values	Units	Limits
04B41498	4-Bromofluorobenzene	Surrogate Recovery	86.0	%	70-130
04B41499	4-Bromofluorobenzene	Surrogate Recovery	70.0	%	70-130
BLANK-67480	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/8/2004

Lims Bat #: LIMS-84354

Page 2 of 2

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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 www.contestlabs.com

CHAIN OF CUSTODY RECORD

John # 84354

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

Page 1 of 1

Company Name: LFK

Address: 250 Centerville Rd, Alder, Suite 12

Warwick, RI 02886

Attention: Donna Fallister

Project Location: Springfield St. School, Providence, RI

Sampled By: A. Cote

Proposal Provided? (For Billing purposes)

yes no proposal date

Telephone: (401) 738-3887

Project # 061-12152-01

Client PO #

DATA DELIVERY (check one):

FAX EMAIL WEBSITE CLIENT

Fax #:

Email:

Format: EXCEL PDF GIS KEY

Date Sampled

Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Code
11/30/04	1010		X	A
11/30/04	1510		X	A

406 (TO14)

ANALYSIS REQUESTED

of containers
 **Preservation
 ~Cont Code

Cont. Code:
 A = amber glass
 G = glass
 P = plastic
 ST = sterile
 V = vial
 S = sunbina can
 T = tea bag
 O = other

Comments:

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix Code	ANALYSIS REQUESTED	# of containers	**Preservation
	WB-2	4/1499	11/30/04	1010		X	A			
	MPL-6	4/1499	11/30/04	1510		X	A			
<p>Relinquished by: (signature) <u>[Signature]</u> Date/Time: <u>11/30/04 1700</u></p> <p>Received by: (signature) <u>[Signature]</u> Date/Time: <u>12/04/04 1415</u></p> <p>Relinquished by: (signature) <u>[Signature]</u> Date/Time: <u>12-1-05 1530</u></p> <p>Received by: (signature) <u>[Signature]</u> Date/Time: <u>12/1/04</u></p>										
<p>Turnaround</p> <p><input type="checkbox"/> 24 Hour*</p> <p><input type="checkbox"/> 48 Hour*</p> <p><input type="checkbox"/> 72 Hour*</p> <p><input checked="" type="checkbox"/> Std.</p> <p><input type="checkbox"/> Other**</p> <p>Date needed**</p> <p>*Require lab approval.</p>										
<p>Detection Limit Requirements</p> <p>Regulations? <u>Rhode Island</u></p> <p>Data Enhancement Project? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N (MA MCP sites only)</p> <p>Special Requirements or DL's:</p>										
<p>*Matrix Code:</p> <p>GW = groundwater</p> <p>WW = wastewater</p> <p>DW = drinking water</p> <p>A = air</p> <p>S = soil/solid</p> <p>SL = sludge</p> <p>O = other</p>										
<p>**Preservation Codes:</p> <p>I = Iced</p> <p>H = HCL</p> <p>M = Methanol</p> <p>N = Nitric Acid</p> <p>S = Sulfuric Acid</p> <p>B = Sodium Bisulfate</p> <p>X = Na hydroxide</p> <p>T = Na thiosulfate</p> <p>O = Other <u>NONE</u></p>										

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