

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

**Project No. 081-12152-03  
August 2006 Monitoring Round**

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

Prepared by  
LFR Inc.  
300 Metro Center Boulevard  
Suite 250  
Warwick, RI 02886  
[www.lfr.com](http://www.lfr.com)

September 19, 2006

081-12152-03

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 – August 2006 Monitoring Round

Dear Mr. Crawford:

Quarterly monitoring was conducted between August 28, 2006 and September 6, 2006. 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.

### **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 where the orange indicator barrier was visible during this monitoring event. We identified one small hole adjacent to the concrete berm around the transformer behind the middle school. Repair of this hole will be documented in a separate letter.

Some areas of asphalt and concrete have been disturbed by settling, as identified and discussed with RIDEM in separate correspondence. A plan to address these areas is being developed and will be submitted to RIDEM as requested.

### **SUB-SLAB VENTILATION SYSTEM**

The sub-slab ventilation system was inspected by LFR during the quarterly monitoring on September 6, 2006. All systems were operating upon arrival for the monitoring events.

Influent and effluent air from the two blowers at the elementary school and the two blowers at the middle school was monitored. Samples of influent and effluent gas were collected in

Tedlar bags at each location and screened for methane, carbon dioxide, carbon monoxide, hydrogen sulfide, and volatile organic compounds (VOC). Results are provided in Table 1.

Methane, carbon monoxide, hydrogen sulfide and organic vapor concentrations in the subslab ventilation system samples were all measured as zero during this monitoring event. Carbon dioxide readings at the elementary school ranged from 0.0 to 0.3 percent, and carbon dioxide readings at the middle school ranged from 0.0 to 0.1 percent. Two of the seven carbon dioxide readings exceeded the Remedial Action Work Plan Action Level of 1000 ppm (0.1%).

## **INDOOR AIR MONITORING**

Indoor air monitoring was conducted on using a Landtec Gem 2000 landfill gas monitor (methane, carbon dioxide, oxygen, carbon monoxide and hydrogen sulfide) and a Mini Rae photoionization detector (organic vapors). Results of monitoring are provided in the Table 2. Methane, carbon monoxide, hydrogen sulfide and organic vapors concentrations were all measured below the action levels specified in the Remedial Action Work Plan during the indoor air monitoring. Carbon dioxide was detected at 0.0 to 0.1%. These results are consistent with conditions expected for an occupied building.

The methane monitors at the middle school and the elementary schools had stickers that indicated they were last calibrated by Diamond Calibration personnel on September 6, 2006. The sensors appeared to be functioning. Readings ranged from 0 to 3% LEL (lower explosive limit) in the Middle School, and 0 to 4 % LEL in the Elementary School. 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 is still 10% LEL.

## **GROUNDWATER MONITORING**

Five groundwater monitoring wells were sampled by LFR on August 31, 2006. 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 12.47 and 18.20 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. The laboratory report is provided as Attachment A. Results of analysis of groundwater samples are summarized in Table 3.

The laboratory analysis of the five groundwater samples detected low concentrations of some target analytes. The concentrations were well below applicable GB groundwater standards, and were consistent with concentrations and compounds detected during previous rounds of sampling and analysis.

## SOIL GAS MONITORING

Soil gas monitoring was conducted at 29 locations on April 25 and 26, 2006. 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 Gem 2000 Landfill Gas Analyzer & Extraction Monitor and a MiniRae Photoionization Detector (PID).

Air samples were also collected in 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, carbon monoxide, hydrogen sulfide and organic vapors were not detected at any of the monitoring locations.

Carbon dioxide was detected at 26 locations with detectable concentrations ranging from 0.1% to 13.9% during the April 25 and 26, 2006 monitoring event. The carbon dioxide Remedial Action Work Plan 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 B. Concentrations detected during this round of monitoring appear to be consistent with the patterns of rising carbon dioxide concentrations in the summer and fall, and falling carbon dioxide concentrations in the winter and spring.

### *Soil Gas Laboratory Results*

Soil gas samples were collected from soil gas wells MPL-6 and WB-2 in Tedlar bags and submitted to Con-Test Analytical Laboratories for analysis by method TO-14. Results of the analysis are summarized in Table 5, and the laboratory report is provided in Attachment C. Several compounds were detected at low concentrations. The results were typical of the concentrations and compounds which have been detected in previous monitoring events.

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

## CONCLUSIONS

Methane, carbon monoxide, hydrogen sulfide and organic vapor concentrations did not exceed RAWP action levels in any soil gas samples, indoor air or subslab ventilation system samples. Carbon dioxide concentrations exceeded the action level at some 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 seasonal naturally occurring bacterial activity in the subsurface. Concentrations of carbon dioxide in the site building appeared to be within the range expected for occupied buildings, and were well below PELs.

Inspection of the cap did not reveal any evidence of exposure of the orange barrier or of breaches of the cap that would allow users of the Site to be exposed to the capped soils. There was no evidence of potential for users of the property to be exposed to soil beneath the cap. Some areas of the site have been affected by settling, and a plan for addressing these areas will be submitted to RIDEM under separate cover.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Donna Holden Pallister". The signature is fluid and cursive, written over a white background.

Donna Holden Pallister, P.E.  
Senior Engineer

cc: A. Sepe, City of Providence  
Providence Public Building Authority  
S. Tremblay, Providence School Department

## TABLES

**Table 1**  
**System Monitoring Notes**  
**Springfield Street School Complex**  
**Providence, Rhode Island**  
**September 6, 2006**

<b>Monitoring Location</b>	<b>Methane % by volume Landtec</b>	<b>Carbon Dioxide % by volume</b>	<b>Oxygen % by volume</b>	<b>Carbon Monoxide PPM</b>	<b>Hydrogen Sulfide PPM</b>	<b>Organic Vapors PPM</b>
Elementary School inlet 1	0.0	0.2	20.7	0	0	0.0
Elementary School inlet 2	0.0	0.1	20.9	0	0	0.2
Elementary School Outlet	0.0	0.1	20.9	0	0	0.3
Middle school front shed inlet	0.0	0.1	20.5	0	0	0.0
Middle school front shed after 2 <sup>nd</sup> carbon	0.0	0.1	20.7	0	0	0.1
Middle school back shed inlet	0.0	0.0	20.3	0	0	0.0
Middle school back shed after 2 <sup>nd</sup> carbon	0.0	0.1	20.4	0	0	0.0
<b>Remedial Action Work Plan Action Levels</b>	<b>0.5</b>	<b>1,000 ppm (0.1%)</b>	<b>NA</b>	<b>9 ppm</b>	<b>10 ppm</b>	<b>5 ppm</b>

**Measurements made with:** Landtec GEM 2000, MiniRae 2000

**Sampling date:** September 6, 2006

**Measured by:** D. H. Pallister

**Table 2**  
**Indoor Air Monitoring Results**  
**Springfield Street School Complex**  
**Providence, Rhode Island**  
**September 6, 2006**

<b>Monitoring Location</b>	<b>Methane % by volume Landtec</b>	<b>Carbon Dioxide % by volume</b>	<b>Oxygen % by volume</b>	<b>Carbon Monoxide PPM</b>	<b>Hydrogen Sulfide PPM</b>	<b>Organic Vapors PPM*</b>
E.S. Front office	0.0	0.1	20.7	0	0	0.0
E.S. Elevator	0.0	0.1	20.6	0	0	0.0
E.S. Electrical closet in Mech. Room	0.0	0.0	20.7	0	0	0.0
E.S. Gym storage closet	0.0	0.1	20.8	0	0	0.0
E.S. Room 211	0.0	0.1	20.8	0	0	0.0
E.S. Library	0.0	0.1	20.8	0	0	0.0
E.S. Room 106	0.0	0.1	20.7	0	0	0.0
E.S. Stairway Stair C	0.0	0.1	20.8	0	0	0.0
E.S. Room 111	0.0	0.0	20.7	0	0	0.0
E.S. Cafeteria	0.0	0.1	20.8	0	0	0.0



**Table 2**  
**Indoor Air Monitoring Notes**  
**Springfield Street School Complex**  
**September 6, 2006**

<b>Monitoring Location</b>	<b>Methane % by volume Landtec</b>	<b>Carbon Dioxide % by volume</b>	<b>Oxygen % by volume</b>	<b>Carbon Monoxide PPM</b>	<b>Hydrogen Sulfide PPM</b>	<b>Organic Vapors PPM*</b>
<b>M.S.</b> Front Office	0.0	0.1	21.0	0	0	0.0
<b>M.S.</b> Library	0.0	0.1	20.9	0	0	0.0
<b>M.S.</b> Stairway toward Hartford Ave.	0.0	0.1	20.8	0	0	0.0
<b>M.S.</b> Crack near door to outside near gym	0.0	0.1	20.8	0	0	0.0
<b>M.S.</b> Former Music Room (Rm # 2 practise)	0.0	0.1	20.8	0	0	0.0
<b>M.S.</b> Near Sensor in cafeteria	0.0	0.1	20.8	0	0	0.0
<b>M.S.</b> Faculty work room 2 <sup>nd</sup> floor	0.0	0.1	20.9	0	0	0.0

**Table 2**  
**Indoor Air Monitoring Notes**  
**Springfield Street School Complex**  
**September 6, 2006**

<b>Monitoring Location</b>	<b>Methane % by volume Landtec</b>	<b>Carbon Dioxide % by volume</b>	<b>Oxygen % by volume</b>	<b>Carbon Monoxide PPM</b>	<b>Hydrogen Sulfide PPM</b>	<b>Organic Vapors PPM*</b>
<b>M.S.</b> Hall outside cafeteria next to Sensor	0.0	0.1	20.8	0	0	0.0
<b>M.S.</b> Faculty Work Room 1 <sup>st</sup> Floor	0.0	0.1	20.8	0	0	0.0
<b>M.S.</b> Elevator	0.0	0.1	20.7	0	0	0.0
<b>Remedial Action Work Plan Action Levels</b>	<b>0.5</b>	<b>1,000 ppm (0.1%)</b>	<b>NA</b>	<b>9 ppm</b>	<b>10 ppm</b>	<b>5 ppm</b>

**Notes:**

**E.S.** indicates Elementary School

**M.S.** indicates Middle School

Measurements made with: GEM 2000 Gas Analyzer & Extraction Monitor, MiniRae PID Meter

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

Monitoring Wells	Detected 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	4/6/2005	7/27/2005	10/27&28/2005	2/2/2006	4/27/2006		8/31/2006
ATC-1	Benzene	6.1	ND	18.9	0.9	ND	ND	ND	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	ND	ND	ND	1.4	NA
	sec-Butylbenzene	1.1	ND	4.1	ND	ND	ND	ND	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	ND	ND	ND	ND	1600
	Isopropylbenzene	ND	ND	1.8	ND	ND	ND	ND	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	ND	ND	ND	ND	NA
	MTBE	12.4	7.0	28.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000
	Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	1.27	ND	ND	ND	ND	ND	1.10	ND	ND	1.3	ND	ND	540
	Toluene	2.5	ND	8.2	ND	ND	ND	ND	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	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	ND	ND	ND	ND	NA
	Xylenes	14.6	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	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	ND	ND	ND	ND	ND	NA
ATC-3	Toluene	ND	ND	ND	ND	NS	ND	ND	ND	ND	3.03	ND	ND	ND	ND	ND	ND	3.0	ND	4.5	1700
ATC-4	Benzene	ND	ND	2.5	0.6	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	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	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	NA
	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	5000
	1,2,4-Trimethylbenzene	ND	ND	1.7	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	5000
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	NA
Sampled By:		ATC	ATC	ATC	ATC	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	LFR	

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

ND is not detected above method detection limit

NS is not sampled

NA= No applicable standard published

MTBE is Methyl tert-Butyl Ether

µg/L = micrograms per liter

**Table 4**  
**Soil Gas Survey Field Notes**  
**Springfield Street School Complex**  
**Providence, RI**  
**August 28 & 29, 2006**

<b>Monitoring Well</b>	<b>Methane % by volume</b>	<b>Carbon Dioxide % by volume</b>	<b>Oxygen % by volume</b>	<b>Carbon Monoxide PPM</b>	<b>Hydrogen Sulfide PPM</b>	<b>Organic Vapors PPM</b>
WB-1	0.0	6.4	13.1	0	0	0.0
WB-2	0.0	1.4	19.0	0	0	0.0
WB-3	0.0	0.1	20.3	0	0	0.0
WB-4	0.0	0.1	20.4	0	0	0.0
WB-5	0.0	0.0	21.3	0	0	0.0
WB-6	0.0	0.0	20.8	0	0	0.0
WB-7	0.0	0.1	21.4	0	0	0.0
WB-8	0.0	0.0	21.3	0	0	0.0
WB-12	0.0	2.1	19.0	0	0	0.0
WB-13	0.0	0.1	20.4	0	0	0.0
WB-14	0.0	3.0	16.8	0	0	0.0
WB-15	0.0	4.6	14.4	0	0	0.0
EPL-1	0.0	1.2	20.0	0	0	0.0
EPL-2	0.0	0.2	20.9	0	0	0.0
EPL-3	0.0	6.7	13.8	0	0	0.0
EPL-4	0.0	4.6	15.8	0	0	0.0
EPL-5	0.0	9.1	9.3	0	0	0.0
ENE-1	0.0	0.1	20.3	0	0	0.0

<b>Monitoring Well</b>	<b>Methane % by volume</b>	<b>Carbon Dioxide % by volume</b>	<b>Oxygen % by volume</b>	<b>Carbon Monoxide PPM</b>	<b>Hydrogen Sulfide PPM</b>	<b>Organic Vapors PPM</b>
MG1	0.0	0.3	20.1	0	0	0.0
MG2	0.0	1.8	20.1	0	0	0.0
MG3	0.0	0.4	20.3	0	0	0.0
MG4	0.0	0.8	20.5	0	0	0.0
MG5	0.0	1.2	21.1	0	0	0.0
MPL2	0.0	0.1	21.0	0	0	0.0
MPL3	0.0	1.0	19.6	0	0	0.0
MPL5	0.0	13.9	3.5	0	0	0.0
MPL6	0.0	12.8	7.5	0	0	0.0
MPL7	0.0	13.4	5.2	0	0	0.0
MPL8	0.0	6.7	11.5	0	0	0.0
<b>Remedial Action Work Plan Action Levels</b>	<b>0.5%</b>	<b>1,000 PPM</b>	<b>NA</b>	<b>9 PPM</b>	<b>10 PPM</b>	<b>5 PPM</b>

**Sampled by:** Andrea J. Lang

**Weather Conditions:** sunny, 50-70<sup>0</sup>'s

**Sampling Equipment:** VRAE Multigas Monitor (H<sub>2</sub>S and CO), Landtec Gem 2000 Gas Analyzer (Methane, CO<sub>2</sub>, O<sub>2</sub>), and MiniRAE 2000 (organic vapors), SKC pump.

**Table 5**  
**Soil Gas Laboratory Analysis Results**  
**Springfield Street School Complex**  
**August 31, 2006**

Parameter	OSHA PELs (PPBv)	Results of Analysis in parts per billion by volume (PPBv)	
		MPL-6	WB-2
Dichlorodifluoromethane	1,000,000	<0.5	0.6
Ethylbenzene	100,000	1.3	0.7
Methylene Chloride	100,000	<0.5	2.0
Styrene	100,000	1.0	<0.5
Toluene	200,000	4.6	1.9
Trichloroethylene	100,000	1.2	<0.5
Trichlorofluoromethane (Freon 11)	1,000,000	<0.5	0.5
1,2,4-Trimethylbenzene	None	3.3	2.0
1,3,5-Trimethylbenzene	None	1.0	0.7
M/p-Xylene	100,000	4.6	2.4
o-Xylene	100,000	1.4	0.5

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

Occupational Safety and Health Administration (OSHA) PELs = Permissible Exposure Limits from NIOSH Pocket Guide to Chemical Hazards













**FIGURE**

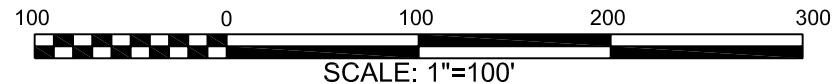
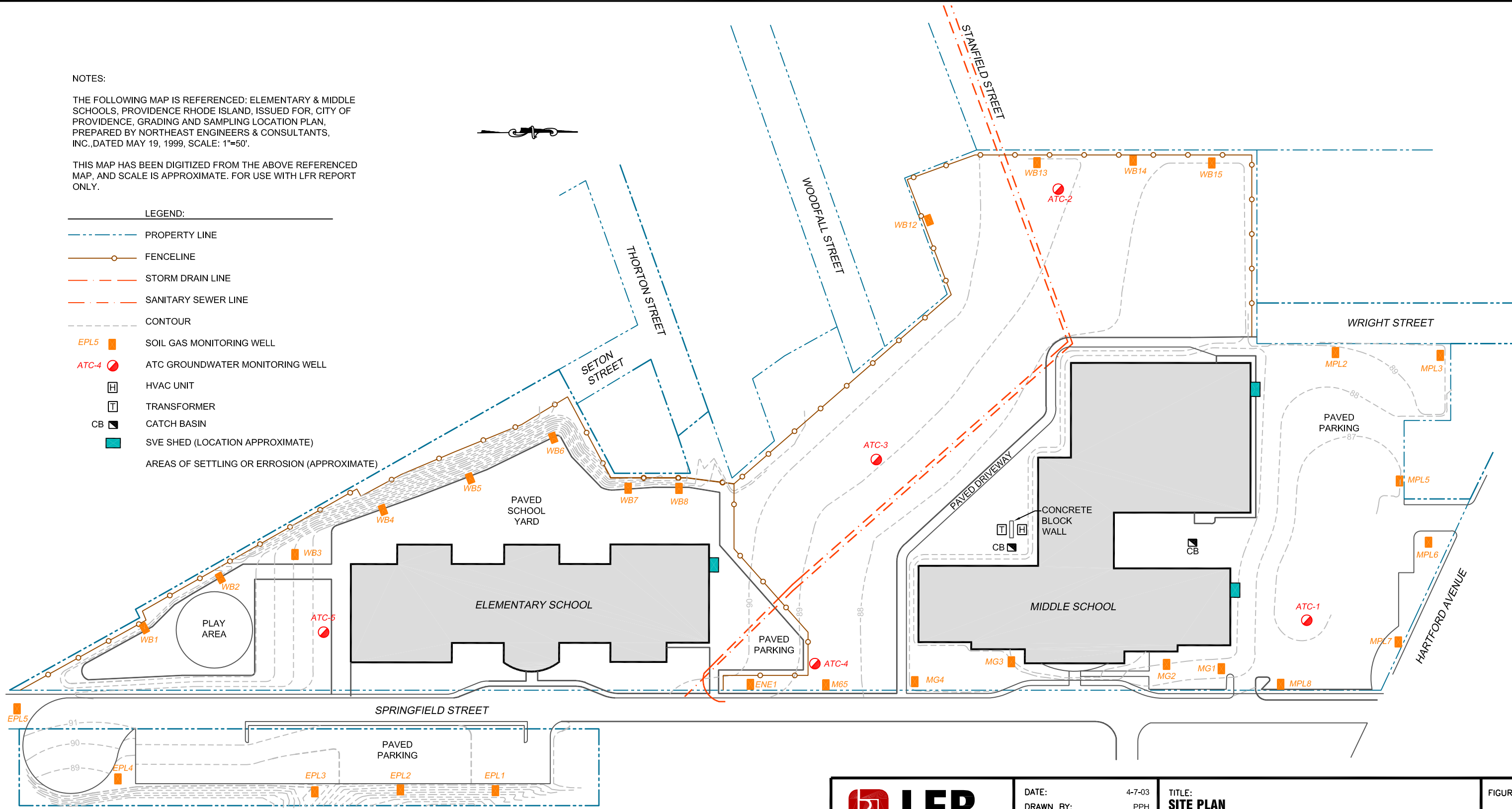
NOTES:

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
-  CATCH BASIN
-  SVE SHED (LOCATION APPROXIMATE)
-  AREAS OF SETTLING OR ERROSION (APPROXIMATE)



**LFR**  
 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:	<b>SITE PLAN</b>
LOCATION:	<b>SPRINGFIELD STREET SCHOOL COMPLEX SPRINGFIELD STREET PROVIDENCE, RHODE ISLAND</b>

FIGURE:  
**1**



**Attachment A**

**Laboratory Report for Groundwater**



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

REPORT DATE 9/11/2006

LFR, INC. - RI  
350 METRO CENTER BLVD., SUITE 250  
WARWICK, RI 02886  
ATTN: DONNA PALLISTER

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMS-99643  
JOB NUMBER: 081-12152-03

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

PROJECT LOCATION: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
ATC-1	06B27697	GRND WATER	NOT SPECIFIED	8260 water
ATC-2	06B27698	GRND WATER	NOT SPECIFIED	8260 water
ATC-3	06B27699	GRND WATER	NOT SPECIFIED	8260 water
ATC-4	06B27700	GRND WATER	NOT SPECIFIED	8260 water
ATC-5	06B27701	GRND WATER	NOT SPECIFIED	8260 water
TRIP BLANK	06B27702	WATER OTHE	NOT SPECIFIED	8260 water

Comments :

LIMS BATCH NO. : LIMS-99643

IN METHOD 8260, ANY REPORTED RESULTS FOR TERT-BUTYLETHYLETHER, TERT-AMYLMETHYLETHER, 1,4-DIOXANE, BROMOMETHANE, AND CHLOROETHANE ARE ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION DID NOT MEET REQUIRED CRITERIA.

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	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

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.

*Sondra L. Slesinski 09/11/06*

Tod Kopyscinski  
Director of Operations

Sondra L. Slesinski  
Quality Assurance Officer

SIGNATURE

DATE

Edward Denson  
Technical Director

\* See end of data tabulation for notes and comments pertaining to this sample



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

DONNA PALLISTER  
 LFR, INC. - RI  
 350 METRO CENTER BLVD., SUITE 250  
 WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006  
 Page 1 of 19

Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : ATC-1**

**Sample ID : 06B27697**      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		09/05/06	LBD
Acrylonitrile	ug/l	ND	5.0		09/05/06	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Benzene	ug/l	ND	1.0		09/05/06	LBD
Bromobenzene	ug/l	ND	1.0		09/05/06	LBD
Bromochloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromodichloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromoform	ug/l	ND	1.0		09/05/06	LBD
Bromomethane	ug/l	ND	2.0		09/05/06	LBD
2-Butanone (MEK)	ug/l	ND	20.0		09/05/06	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		09/05/06	LBD
n-Butylbenzene	ug/l	1.4	1.0		09/05/06	LBD
sec-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Carbon Disulfide	ug/l	ND	3.0		09/05/06	LBD
Carbon Tetrachloride	ug/l	ND	1.0		09/05/06	LBD
Chlorobenzene	ug/l	ND	1.0		09/05/06	LBD
Chlorodibromomethane	ug/l	ND	0.5		09/05/06	LBD
Chloroethane	ug/l	ND	2.0		09/05/06	LBD
Chloroform	ug/l	ND	2.0		09/05/06	LBD
Chloromethane	ug/l	ND	2.0		09/05/06	LBD
2-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
4-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		09/05/06	LBD
1,2-Dibromoethane	ug/l	ND	0.50		09/05/06	LBD
Dibromomethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		09/05/06	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,1-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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



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DONNA PALLISTER  
LFR, INC. - RI  
350 METRO CENTER BLVD., SUITE 250  
WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006  
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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
Job Number: 081-12152-03

**Field Sample # : ATC-1**

**Sample ID : 06B27697**      Sampled : 8/31/2006  
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichloropropane	ug/l	ND	0.5		09/05/06	LBD
2,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloropropene	ug/l	ND	2.0		09/05/06	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
Diethyl Ether	ug/l	ND	2.0		09/05/06	LBD
Diisopropyl Ether	ug/l	ND	0.5		09/05/06	LBD
1,4-Dioxane	ug/l	ND	50.0		09/05/06	LBD
Ethyl Benzene	ug/l	ND	1.0		09/05/06	LBD
Hexachlorobutadiene	ug/l	ND	1.0		09/05/06	LBD
2-Hexanone	ug/l	ND	10.0		09/05/06	LBD
Isopropylbenzene	ug/l	ND	1.0		09/05/06	LBD
p-Isopropyltoluene	ug/l	ND	5.0		09/05/06	LBD
MTBE	ug/l	ND	1.0		09/05/06	LBD
Methylene Chloride	ug/l	ND	5.0		09/05/06	LBD
MIBK	ug/l	ND	10.0		09/05/06	LBD
Naphthalene	ug/l	ND	5.0		09/05/06	LBD
n-Propylbenzene	ug/l	ND	1.0		09/05/06	LBD
Styrene	ug/l	ND	1.0		09/05/06	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		09/05/06	LBD
Tetrachloroethylene	ug/l	ND	1.0		09/05/06	LBD
Tetrahydrofuran	ug/l	ND	10.0		09/05/06	LBD
Toluene	ug/l	ND	1.0		09/05/06	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
Trichloroethylene	ug/l	ND	1.0		09/05/06	LBD
Trichlorofluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		09/05/06	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

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DONNA PALLISTER

LFR, INC. - RI

350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

LIMS-BAT #: LIMS-99643

Date Received: 9/1/2006

Job Number: 081-12152-03

**Field Sample # : ATC-1**

**Sample ID : 06B27697**

Sampled : 8/31/2006

NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Vinyl Chloride	ug/l	ND	2.0		09/05/06	LBD
m + p Xylene	ug/l	ND	2.0		09/05/06	LBD
o-Xylene	ug/l	ND	1.0		09/05/06	LBD

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DONNA PALLISTER  
LFR, INC. - RI  
350 METRO CENTER BLVD., SUITE 250  
WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006  
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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
Job Number: 081-12152-03

**Field Sample # : ATC-2**

**Sample ID : 06B27698**      Sampled : 8/31/2006  
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		09/05/06	LBD
Acrylonitrile	ug/l	ND	5.0		09/05/06	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Benzene	ug/l	ND	1.0		09/05/06	LBD
Bromobenzene	ug/l	ND	1.0		09/05/06	LBD
Bromochloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromodichloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromoform	ug/l	ND	1.0		09/05/06	LBD
Bromomethane	ug/l	ND	2.0		09/05/06	LBD
2-Butanone (MEK)	ug/l	ND	20.0		09/05/06	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		09/05/06	LBD
n-Butylbenzene	ug/l	ND	1.0		09/05/06	LBD
sec-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Carbon Disulfide	ug/l	ND	3.0		09/05/06	LBD
Carbon Tetrachloride	ug/l	ND	1.0		09/05/06	LBD
Chlorobenzene	ug/l	ND	1.0		09/05/06	LBD
Chlorodibromomethane	ug/l	ND	0.5		09/05/06	LBD
Chloroethane	ug/l	ND	2.0		09/05/06	LBD
Chloroform	ug/l	ND	2.0		09/05/06	LBD
Chloromethane	ug/l	ND	2.0		09/05/06	LBD
2-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
4-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		09/05/06	LBD
1,2-Dibromoethane	ug/l	ND	0.50		09/05/06	LBD
Dibromomethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		09/05/06	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,1-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD

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DONNA PALLISTER  
 LFR, INC. - RI  
 350 METRO CENTER BLVD., SUITE 250  
 WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006  
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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : ATC-2**

**Sample ID : 06B27698**      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichloropropane	ug/l	ND	0.5		09/05/06	LBD
2,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloropropene	ug/l	ND	2.0		09/05/06	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
Diethyl Ether	ug/l	ND	2.0		09/05/06	LBD
Diisopropyl Ether	ug/l	ND	0.5		09/05/06	LBD
1,4-Dioxane	ug/l	ND	50.0		09/05/06	LBD
Ethyl Benzene	ug/l	ND	1.0		09/05/06	LBD
Hexachlorobutadiene	ug/l	ND	1.0		09/05/06	LBD
2-Hexanone	ug/l	ND	10.0		09/05/06	LBD
Isopropylbenzene	ug/l	ND	1.0		09/05/06	LBD
p-Isopropyltoluene	ug/l	ND	5.0		09/05/06	LBD
MTBE	ug/l	ND	1.0		09/05/06	LBD
Methylene Chloride	ug/l	ND	5.0		09/05/06	LBD
MIBK	ug/l	ND	10.0		09/05/06	LBD
Naphthalene	ug/l	ND	5.0		09/05/06	LBD
n-Propylbenzene	ug/l	ND	1.0		09/05/06	LBD
Styrene	ug/l	ND	1.0		09/05/06	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		09/05/06	LBD
Tetrachloroethylene	ug/l	ND	1.0		09/05/06	LBD
Tetrahydrofuran	ug/l	ND	10.0		09/05/06	LBD
Toluene	ug/l	ND	1.0		09/05/06	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
Trichloroethylene	ug/l	ND	1.0		09/05/06	LBD
Trichlorofluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		09/05/06	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

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DONNA PALLISTER

LFR, INC. - RI

350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

LIMS-BAT #: LIMS-99643

Date Received: 9/1/2006

Job Number: 081-12152-03

**Field Sample # : ATC-2**

**Sample ID : 06B27698**

Sampled : 8/31/2006

NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Vinyl Chloride	ug/l	ND	2.0		09/05/06	LBD
m + p Xylene	ug/l	ND	2.0		09/05/06	LBD
o-Xylene	ug/l	ND	1.0		09/05/06	LBD

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 WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006  
 Page 7 of 19

Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : ATC-3**

**Sample ID : 06B27699**      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		09/05/06	LBD
Acrylonitrile	ug/l	ND	5.0		09/05/06	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Benzene	ug/l	ND	1.0		09/05/06	LBD
Bromobenzene	ug/l	ND	1.0		09/05/06	LBD
Bromochloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromodichloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromoform	ug/l	ND	1.0		09/05/06	LBD
Bromomethane	ug/l	ND	2.0		09/05/06	LBD
2-Butanone (MEK)	ug/l	ND	20.0		09/05/06	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		09/05/06	LBD
n-Butylbenzene	ug/l	ND	1.0		09/05/06	LBD
sec-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Carbon Disulfide	ug/l	ND	3.0		09/05/06	LBD
Carbon Tetrachloride	ug/l	ND	1.0		09/05/06	LBD
Chlorobenzene	ug/l	ND	1.0		09/05/06	LBD
Chlorodibromomethane	ug/l	ND	0.5		09/05/06	LBD
Chloroethane	ug/l	ND	2.0		09/05/06	LBD
Chloroform	ug/l	ND	2.0		09/05/06	LBD
Chloromethane	ug/l	ND	2.0		09/05/06	LBD
2-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
4-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		09/05/06	LBD
1,2-Dibromoethane	ug/l	ND	0.50		09/05/06	LBD
Dibromomethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		09/05/06	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,1-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD

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DONNA PALLISTER  
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 350 METRO CENTER BLVD., SUITE 250  
 WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006  
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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : ATC-3**

**Sample ID : 06B27699**      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichloropropane	ug/l	ND	0.5		09/05/06	LBD
2,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloropropene	ug/l	ND	2.0		09/05/06	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
Diethyl Ether	ug/l	ND	2.0		09/05/06	LBD
Diisopropyl Ether	ug/l	ND	0.5		09/05/06	LBD
1,4-Dioxane	ug/l	ND	50.0		09/05/06	LBD
Ethyl Benzene	ug/l	ND	1.0		09/05/06	LBD
Hexachlorobutadiene	ug/l	ND	1.0		09/05/06	LBD
2-Hexanone	ug/l	ND	10.0		09/05/06	LBD
Isopropylbenzene	ug/l	ND	1.0		09/05/06	LBD
p-Isopropyltoluene	ug/l	ND	5.0		09/05/06	LBD
MTBE	ug/l	ND	1.0		09/05/06	LBD
Methylene Chloride	ug/l	ND	5.0		09/05/06	LBD
MIBK	ug/l	ND	10.0		09/05/06	LBD
Naphthalene	ug/l	ND	5.0		09/05/06	LBD
n-Propylbenzene	ug/l	ND	1.0		09/05/06	LBD
Styrene	ug/l	ND	1.0		09/05/06	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		09/05/06	LBD
Tetrachloroethylene	ug/l	ND	1.0		09/05/06	LBD
Tetrahydrofuran	ug/l	ND	10.0		09/05/06	LBD
Toluene	ug/l	4.5	1.0		09/05/06	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
Trichloroethylene	ug/l	ND	1.0		09/05/06	LBD
Trichlorofluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		09/05/06	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

DONNA PALLISTER  
 LFR, INC. - RI  
 350 METRO CENTER BLVD., SUITE 250  
 WARWICK, RI 02886

Purchase Order No.: 5131

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : ATC-3**

**Sample ID :** 06B27699      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Vinyl Chloride	ug/l	ND	2.0		09/05/06	LBD
m + p Xylene	ug/l	ND	2.0		09/05/06	LBD
o-Xylene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

DONNA PALLISTER

LFR, INC. - RI

350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

Purchase Order No.: 5131

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

LIMS-BAT #: LIMS-99643

Date Received: 9/1/2006

Job Number: 081-12152-03

**Field Sample # : ATC-4**

**Sample ID : 06B27700**

Sampled : 8/31/2006

NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		09/05/06	LBD
Acrylonitrile	ug/l	ND	5.0		09/05/06	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Benzene	ug/l	ND	1.0		09/05/06	LBD
Bromobenzene	ug/l	ND	1.0		09/05/06	LBD
Bromochloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromodichloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromoform	ug/l	ND	1.0		09/05/06	LBD
Bromomethane	ug/l	ND	2.0		09/05/06	LBD
2-Butanone (MEK)	ug/l	ND	20.0		09/05/06	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		09/05/06	LBD
n-Butylbenzene	ug/l	ND	1.0		09/05/06	LBD
sec-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Carbon Disulfide	ug/l	ND	3.0		09/05/06	LBD
Carbon Tetrachloride	ug/l	ND	1.0		09/05/06	LBD
Chlorobenzene	ug/l	ND	1.0		09/05/06	LBD
Chlorodibromomethane	ug/l	ND	0.5		09/05/06	LBD
Chloroethane	ug/l	ND	2.0		09/05/06	LBD
Chloroform	ug/l	ND	2.0		09/05/06	LBD
Chloromethane	ug/l	ND	2.0		09/05/06	LBD
2-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
4-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		09/05/06	LBD
1,2-Dibromoethane	ug/l	ND	0.50		09/05/06	LBD
Dibromomethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,4-Dichlorobenzene	ug/l	1.2	1.0		09/05/06	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		09/05/06	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,1-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

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NM = Not Measured

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DONNA PALLISTER

LFR, INC. - RI

350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

Purchase Order No.: 5131

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

LIMS-BAT #: LIMS-99643

Date Received: 9/1/2006

Job Number: 081-12152-03

**Field Sample # : ATC-4**

**Sample ID : 06B27700**

Sampled : 8/31/2006

NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichloropropane	ug/l	ND	0.5		09/05/06	LBD
2,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloropropene	ug/l	ND	2.0		09/05/06	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
Diethyl Ether	ug/l	ND	2.0		09/05/06	LBD
Diisopropyl Ether	ug/l	ND	0.5		09/05/06	LBD
1,4-Dioxane	ug/l	ND	50.0		09/05/06	LBD
Ethyl Benzene	ug/l	ND	1.0		09/05/06	LBD
Hexachlorobutadiene	ug/l	ND	1.0		09/05/06	LBD
2-Hexanone	ug/l	ND	10.0		09/05/06	LBD
Isopropylbenzene	ug/l	ND	1.0		09/05/06	LBD
p-Isopropyltoluene	ug/l	ND	5.0		09/05/06	LBD
MTBE	ug/l	ND	1.0		09/05/06	LBD
Methylene Chloride	ug/l	ND	5.0		09/05/06	LBD
MIBK	ug/l	ND	10.0		09/05/06	LBD
Naphthalene	ug/l	ND	5.0		09/05/06	LBD
n-Propylbenzene	ug/l	ND	1.0		09/05/06	LBD
Styrene	ug/l	ND	1.0		09/05/06	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		09/05/06	LBD
Tetrachloroethylene	ug/l	ND	1.0		09/05/06	LBD
Tetrahydrofuran	ug/l	ND	10.0		09/05/06	LBD
Toluene	ug/l	ND	1.0		09/05/06	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
Trichloroethylene	ug/l	ND	1.0		09/05/06	LBD
Trichlorofluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		09/05/06	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD

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DONNA PALLISTER

LFR, INC. - RI

350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

Purchase Order No.: 5131

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

LIMS-BAT #: LIMS-99643

Date Received: 9/1/2006

Job Number: 081-12152-03

**Field Sample # : ATC-4**

**Sample ID : 06B27700**

Sampled : 8/31/2006

NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Vinyl Chloride	ug/l	ND	2.0		09/05/06	LBD
m + p Xylene	ug/l	ND	2.0		09/05/06	LBD
o-Xylene	ug/l	ND	1.0		09/05/06	LBD

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : ATC-5**

**Sample ID : 06B27701**      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		09/05/06	LBD
Acrylonitrile	ug/l	ND	5.0		09/05/06	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Benzene	ug/l	ND	1.0		09/05/06	LBD
Bromobenzene	ug/l	ND	1.0		09/05/06	LBD
Bromochloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromodichloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromoform	ug/l	ND	1.0		09/05/06	LBD
Bromomethane	ug/l	ND	2.0		09/05/06	LBD
2-Butanone (MEK)	ug/l	ND	20.0		09/05/06	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		09/05/06	LBD
n-Butylbenzene	ug/l	ND	1.0		09/05/06	LBD
sec-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Carbon Disulfide	ug/l	ND	3.0		09/05/06	LBD
Carbon Tetrachloride	ug/l	ND	1.0		09/05/06	LBD
Chlorobenzene	ug/l	ND	1.0		09/05/06	LBD
Chlorodibromomethane	ug/l	ND	0.5		09/05/06	LBD
Chloroethane	ug/l	ND	2.0		09/05/06	LBD
Chloroform	ug/l	ND	2.0		09/05/06	LBD
Chloromethane	ug/l	ND	2.0		09/05/06	LBD
2-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
4-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		09/05/06	LBD
1,2-Dibromoethane	ug/l	ND	0.50		09/05/06	LBD
Dibromomethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		09/05/06	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,1-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD

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Purchase Order No.: 5131

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : ATC-5**

**Sample ID : 06B27701**      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichloropropane	ug/l	ND	0.5		09/05/06	LBD
2,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloropropene	ug/l	ND	2.0		09/05/06	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
Diethyl Ether	ug/l	ND	2.0		09/05/06	LBD
Diisopropyl Ether	ug/l	ND	0.5		09/05/06	LBD
1,4-Dioxane	ug/l	ND	50.0		09/05/06	LBD
Ethyl Benzene	ug/l	ND	1.0		09/05/06	LBD
Hexachlorobutadiene	ug/l	ND	1.0		09/05/06	LBD
2-Hexanone	ug/l	ND	10.0		09/05/06	LBD
Isopropylbenzene	ug/l	ND	1.0		09/05/06	LBD
p-Isopropyltoluene	ug/l	ND	5.0		09/05/06	LBD
MTBE	ug/l	ND	1.0		09/05/06	LBD
Methylene Chloride	ug/l	ND	5.0		09/05/06	LBD
MIBK	ug/l	ND	10.0		09/05/06	LBD
Naphthalene	ug/l	ND	5.0		09/05/06	LBD
n-Propylbenzene	ug/l	ND	1.0		09/05/06	LBD
Styrene	ug/l	ND	1.0		09/05/06	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		09/05/06	LBD
Tetrachloroethylene	ug/l	ND	1.0		09/05/06	LBD
Tetrahydrofuran	ug/l	ND	10.0		09/05/06	LBD
Toluene	ug/l	ND	1.0		09/05/06	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
Trichloroethylene	ug/l	ND	1.0		09/05/06	LBD
Trichlorofluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		09/05/06	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD

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350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643

Job Number: 081-12152-03

**Field Sample # : ATC-5**

**Sample ID : 06B27701**

Sampled : 8/31/2006

NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Vinyl Chloride	ug/l	ND	2.0		09/05/06	LBD
m + p Xylene	ug/l	ND	2.0		09/05/06	LBD
o-Xylene	ug/l	ND	1.0		09/05/06	LBD

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
 Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
 Job Number: 081-12152-03

**Field Sample # : TRIP BLANK**

**Sample ID : 06B27702**      Sampled : 8/31/2006  
 NOT SPECIFIED

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Acetone	ug/l	ND	50.0		09/05/06	LBD
Acrylonitrile	ug/l	ND	5.0		09/05/06	LBD
tert-Amylmethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Benzene	ug/l	ND	1.0		09/05/06	LBD
Bromobenzene	ug/l	ND	1.0		09/05/06	LBD
Bromochloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromodichloromethane	ug/l	ND	1.0		09/05/06	LBD
Bromoform	ug/l	ND	1.0		09/05/06	LBD
Bromomethane	ug/l	ND	2.0		09/05/06	LBD
2-Butanone (MEK)	ug/l	ND	20.0		09/05/06	LBD
tert-Butyl Alcohol	ug/l	ND	20.0		09/05/06	LBD
n-Butylbenzene	ug/l	ND	1.0		09/05/06	LBD
sec-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylbenzene	ug/l	ND	5.0		09/05/06	LBD
tert-Butylethyl Ether	ug/l	ND	0.5		09/05/06	LBD
Carbon Disulfide	ug/l	ND	3.0		09/05/06	LBD
Carbon Tetrachloride	ug/l	ND	1.0		09/05/06	LBD
Chlorobenzene	ug/l	ND	1.0		09/05/06	LBD
Chlorodibromomethane	ug/l	ND	0.5		09/05/06	LBD
Chloroethane	ug/l	ND	2.0		09/05/06	LBD
Chloroform	ug/l	ND	2.0		09/05/06	LBD
Chloromethane	ug/l	ND	2.0		09/05/06	LBD
2-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
4-Chlorotoluene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dibromo-3-Chloropropane	ug/l	ND	5.0		09/05/06	LBD
1,2-Dibromoethane	ug/l	ND	0.50		09/05/06	LBD
Dibromomethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,4-Dichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
trans-1,4-Dichloro-2-Butene	ug/l	ND	2.0		09/05/06	LBD
Dichlorodifluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,1-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
cis-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.  
Date Received: 9/1/2006

LIMS-BAT #: LIMS-99643  
Job Number: 081-12152-03

**Field Sample # : TRIP BLANK**

**Sample ID : 06B27702**      Sampled : 8/31/2006  
NOT SPECIFIED

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
trans-1,2-Dichloroethylene	ug/l	ND	1.0		09/05/06	LBD
1,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,3-Dichloropropane	ug/l	ND	0.5		09/05/06	LBD
2,2-Dichloropropane	ug/l	ND	1.0		09/05/06	LBD
1,1-Dichloropropene	ug/l	ND	2.0		09/05/06	LBD
cis-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
trans-1,3-Dichloropropene	ug/l	ND	0.5		09/05/06	LBD
Diethyl Ether	ug/l	ND	2.0		09/05/06	LBD
Diisopropyl Ether	ug/l	ND	0.5		09/05/06	LBD
1,4-Dioxane	ug/l	ND	50.0		09/05/06	LBD
Ethyl Benzene	ug/l	ND	1.0		09/05/06	LBD
Hexachlorobutadiene	ug/l	ND	1.0		09/05/06	LBD
2-Hexanone	ug/l	ND	10.0		09/05/06	LBD
Isopropylbenzene	ug/l	ND	1.0		09/05/06	LBD
p-Isopropyltoluene	ug/l	ND	5.0		09/05/06	LBD
MTBE	ug/l	ND	1.0		09/05/06	LBD
Methylene Chloride	ug/l	ND	5.0		09/05/06	LBD
MIBK	ug/l	ND	10.0		09/05/06	LBD
Naphthalene	ug/l	ND	5.0		09/05/06	LBD
n-Propylbenzene	ug/l	ND	1.0		09/05/06	LBD
Styrene	ug/l	ND	1.0		09/05/06	LBD
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2,2-Tetrachloroethane	ug/l	ND	0.5		09/05/06	LBD
Tetrachloroethylene	ug/l	ND	1.0		09/05/06	LBD
Tetrahydrofuran	ug/l	ND	10.0		09/05/06	LBD
Toluene	ug/l	ND	1.0		09/05/06	LBD
1,2,3-Trichlorobenzene	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trichlorobenzene	ug/l	ND	1.0		09/05/06	LBD
1,1,1-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
1,1,2-Trichloroethane	ug/l	ND	1.0		09/05/06	LBD
Trichloroethylene	ug/l	ND	1.0		09/05/06	LBD
Trichlorofluoromethane	ug/l	ND	2.0		09/05/06	LBD
1,2,3-Trichloropropane	ug/l	ND	2.0		09/05/06	LBD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	5.0		09/05/06	LBD
1,2,4-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD
1,3,5-Trimethylbenzene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

DONNA PALLISTER

LFR, INC. - RI

350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

Purchase Order No.: 5131

9/11/2006

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Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

LIMS-BAT #: LIMS-99643

Date Received: 9/1/2006

Job Number: 081-12152-03

**Field Sample # : TRIP BLANK**

**Sample ID : 06B27702**

Sampled : 8/31/2006

NOT SPECIFIED

Sample Matrix: WATER OTHER

	Units	Results	RL	Method	Date Analyzed	Analyst
8260 water				SW846 8260		
Vinyl Chloride	ug/l	ND	2.0		09/05/06	LBD
m + p Xylene	ug/l	ND	2.0		09/05/06	LBD
o-Xylene	ug/l	ND	1.0		09/05/06	LBD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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DONNA PALLISTER

LFR, INC. - RI

350 METRO CENTER BLVD., SUITE 250

WARWICK, RI 02886

Purchase Order No.: 5131

Project Location: SPRINGFIELD STREET, SCHOOL, PROVIDENCE, RI.

Date Received: 9/1/2006

9/11/2006

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LIMS-BAT #: LIMS-99643

Job Number: 081-12152-03

\*\* END OF REPORT \*\*

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

**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: 9/11/2006

Lims Bat # : LIMS-99643

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QC Batch Number: GCMS/VOL-15200

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B27697	1,2-Dichloroethane-d4	Surrogate Recovery	93.7	%	70-130
	Toluene-d8	Surrogate Recovery	94.5	%	70-130
	Bromofluorobenzene	Surrogate Recovery	96.2	%	70-130
06B27698	1,2-Dichloroethane-d4	Surrogate Recovery	96.4	%	70-130
	Toluene-d8	Surrogate Recovery	93.9	%	70-130
	Bromofluorobenzene	Surrogate Recovery	94.9	%	70-130
06B27699	1,2-Dichloroethane-d4	Surrogate Recovery	92.2	%	70-130
	Toluene-d8	Surrogate Recovery	94.0	%	70-130
	Bromofluorobenzene	Surrogate Recovery	97.2	%	70-130
06B27700	1,2-Dichloroethane-d4	Surrogate Recovery	97.5	%	70-130
	Toluene-d8	Surrogate Recovery	94.1	%	70-130
	Bromofluorobenzene	Surrogate Recovery	94.9	%	70-130
06B27701	1,2-Dichloroethane-d4	Surrogate Recovery	94.7	%	70-130
	Toluene-d8	Surrogate Recovery	95.8	%	70-130
	Bromofluorobenzene	Surrogate Recovery	95.5	%	70-130
06B27702	1,2-Dichloroethane-d4	Surrogate Recovery	92.9	%	70-130
	Toluene-d8	Surrogate Recovery	94.5	%	70-130
	Bromofluorobenzene	Surrogate Recovery	96.6	%	70-130
BLANK-91780	Acetone	Blank	<50.0	ug/l	
	Benzene	Blank	<1.0	ug/l	
	Carbon Tetrachloride	Blank	<1.0	ug/l	
	Chloroform	Blank	<2.0	ug/l	
	1,2-Dichloroethane	Blank	<1.0	ug/l	
	1,4-Dichlorobenzene	Blank	<1.0	ug/l	
	Ethyl Benzene	Blank	<1.0	ug/l	
	2-Butanone (MEK)	Blank	<20.0	ug/l	
	MIBK	Blank	<10.0	ug/l	
	Naphthalene	Blank	<5.0	ug/l	
	Styrene	Blank	<1.0	ug/l	
	Tetrachloroethylene	Blank	<1.0	ug/l	
	Toluene	Blank	<1.0	ug/l	
	1,1,1-Trichloroethane	Blank	<1.0	ug/l	
	Trichloroethylene	Blank	<1.0	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<5.0	ug/l	
	Trichlorofluoromethane	Blank	<2.0	ug/l	
	o-Xylene	Blank	<1.0	ug/l	
	m + p Xylene	Blank	<2.0	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: 9/11/2006

Lims Bat # : LIMS-99643

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QC Batch Number: GCMS/VOL-15200

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-91780					
	1,2-Dichlorobenzene	Blank	<1.0	ug/l	
	1,3-Dichlorobenzene	Blank	<1.0	ug/l	
	1,1-Dichloroethane	Blank	<1.0	ug/l	
	1,1-Dichloroethylene	Blank	<1.0	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<1.0	ug/l	
	trans-1,2-Dichloroethylene	Blank	<1.0	ug/l	
	Vinyl Chloride	Blank	<2.0	ug/l	
	Methylene Chloride	Blank	<5.0	ug/l	
	Chlorobenzene	Blank	<1.0	ug/l	
	Chloromethane	Blank	<2.0	ug/l	
	Bromomethane	Blank	<2.0	ug/l	
	Chloroethane	Blank	<2.0	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.5	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethane	Blank	<1.0	ug/l	
	Bromoform	Blank	<1.0	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l	
	2-Chlorotoluene	Blank	<1.0	ug/l	
	Hexachlorobutadiene	Blank	<1.0	ug/l	
	Isopropylbenzene	Blank	<1.0	ug/l	
	p-Isopropyltoluene	Blank	<5.0	ug/l	
	n-Propylbenzene	Blank	<1.0	ug/l	
	sec-Butylbenzene	Blank	<5.0	ug/l	
	tert-Butylbenzene	Blank	<5.0	ug/l	
	1,2,3-Trichlorobenzene	Blank	<5.0	ug/l	
	1,2,4-Trichlorobenzene	Blank	<1.0	ug/l	
	1,2,4-Trimethylbenzene	Blank	<1.0	ug/l	
	1,3,5-Trimethylbenzene	Blank	<1.0	ug/l	
	Dibromomethane	Blank	<1.0	ug/l	
	cis-1,2-Dichloroethylene	Blank	<1.0	ug/l	
	4-Chlorotoluene	Blank	<1.0	ug/l	
	1,1-Dichloropropene	Blank	<2.0	ug/l	
	1,2-Dichloropropane	Blank	<1.0	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<1.0	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<1.0	ug/l	
	1,2,3-Trichloropropane	Blank	<2.0	ug/l	
	n-Butylbenzene	Blank	<1.0	ug/l	
	Dichlorodifluoromethane	Blank	<2.0	ug/l	
	Bromochloromethane	Blank	<1.0	ug/l	
	Bromobenzene	Blank	<1.0	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: 9/11/2006

Lims Bat # : LIMS-99643

Page 3 of 4

QC Batch Number: GCMS/VOL-15200

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-91780					
	Acrylonitrile	Blank	<5.0	ug/l	
	Carbon Disulfide	Blank	<3.0	ug/l	
	2-Hexanone	Blank	<10.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<2.0	ug/l	
	Diethyl Ether	Blank	<2.0	ug/l	
	Bromodichloromethane	Blank	<1.0	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<5.0	ug/l	
	1,2-Dibromoethane	Blank	<0.50	ug/l	
	Tetrahydrofuran	Blank	<10.0	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                      BATCH QC: Lab fortified Blanks and Duplicates  
Sample Matrix Spikes and Matrix Spike Duplicates                      Standard Reference Materials and Duplicates  
Method Blanks

Report Date: 9/11/2006                      Lims Bat #: LIMS-99643                      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



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 www.contestlabs.com

CHAIN OF CUSTODY RECORD

Lims# 99643

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

Company Name: LPR Inc.  
 Address: 300 Metro Center Blvd  
Warrick RI 02886  
 Attention: Donna Pallister  
 Project Location: Springfield St. School, Prov. RI  
 Sampled By: AJL

Telephone: (401) 738-3887  
 Project # 081-12152-03  
 Client PO # \_\_\_\_\_

**DATA DELIVERY (check one):**  
 FAX  EMAIL  WEBSITE CLIENT  
 Fax #: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Format:  EXCEL  PDF  GIS KEY  
 OTHER \_\_\_\_\_

Proposal Provided? (For Billing purposes)  yes \_\_\_\_\_ proposal date  
 State Form Required?  yes  no

Field ID	Sample Description	Lab #	Date Sampled		Comp- osite	Grab	*Matrix Code	Conc. Code	V	H	Z	C	S	T	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX
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www.contestlabs.com

39 Spruce Street  
East Longmeadow, MA  
Phone: 1-413-525-2332  
Fax: 1-413-525-6405

### SAMPLE RECEIPT CHECKLIST

CLIENT NAME: LFR RI

RECEIVED BY: KA DATE: 9/1/06

1. Was chain of custody relinquished and signed?  YES  NO

2. Does Chain agree with samples?  YES  NO

If not, explain:

3. All Samples in good condition?  YES  NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C?  YES  NO

Degrees: 25°C

5. Are all soil vph & voc samples covered with preservation?  YES  NO

6. Are there any on hold samples?  YES  NO

7. Laboratory analysts notified?  YES  NO  
Who \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_

8. Location where samples are stored: ID, IE

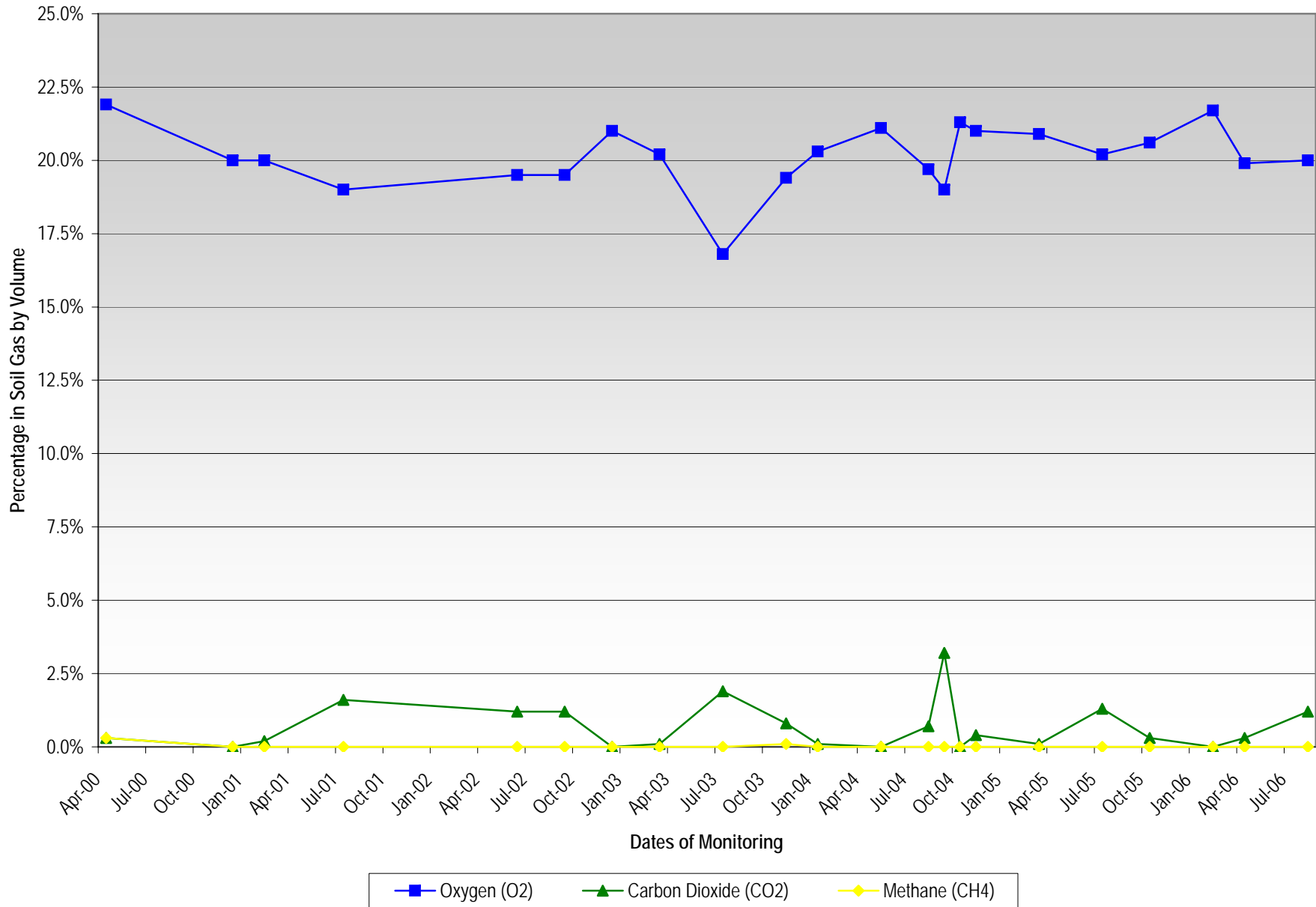
CONTAINERS SENT IN TO CON-TEST	# of containers	CONTAINERS SENT TO CON-TEST	# of containers
1 liter amber		Air Cassettes	
500 ml amber		8 oz clear jar	
250 ml amber (8oz. Amber)		4 oz clear jar	
1 liter plastic		2 oz clear jar	
500 ml plastic		Plastic bag	
250 ml plastic		Encore	
40 ml vial	<u>12</u>	Brass Sleeves	
Colisure bottle		Tubes	
Dissolved oxygen bottle		Summa cans	
Flashpoint bottle		Other	

Laboratory comments:

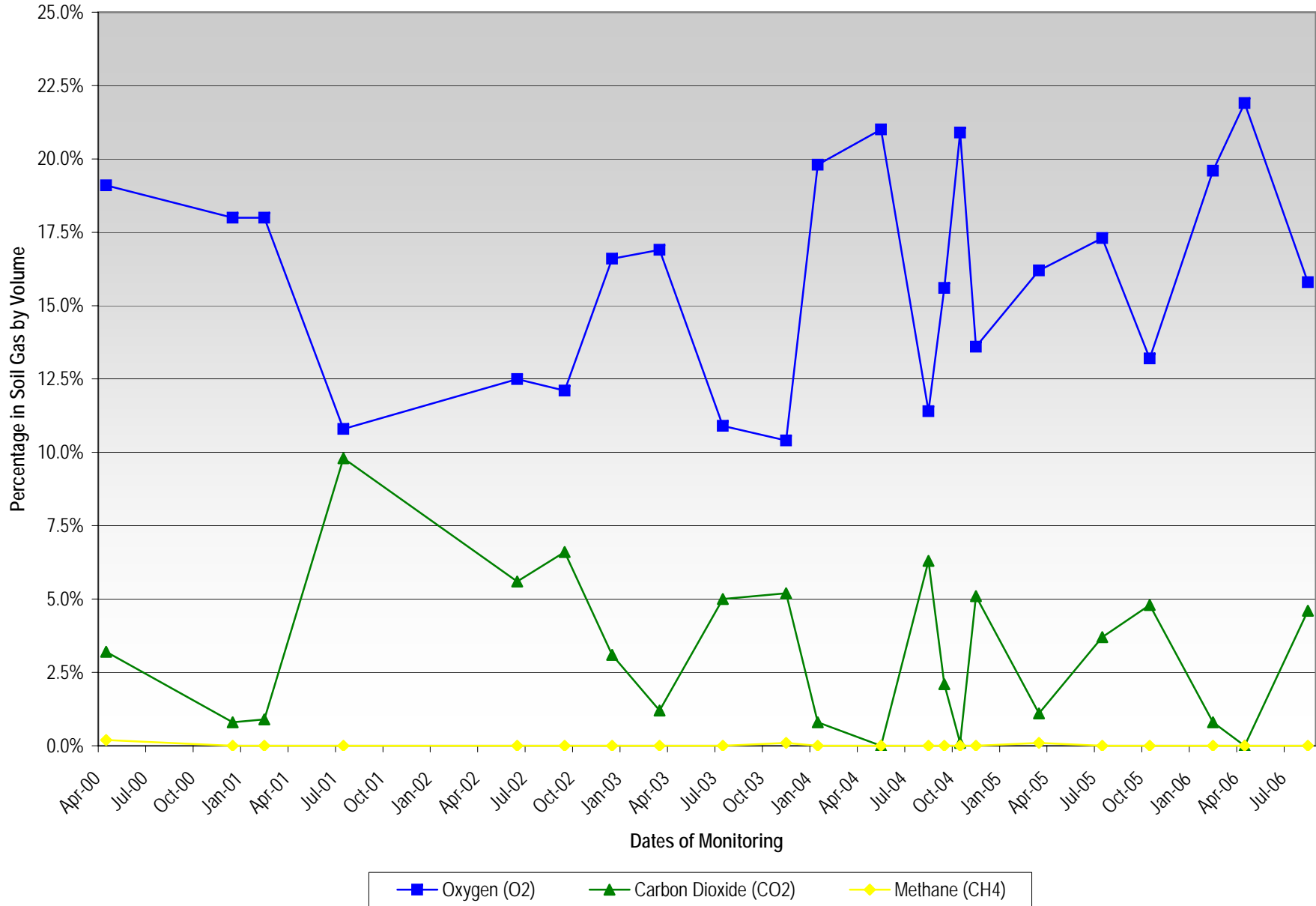
Do all the samples have the correct pH levels? YES NO If no, please explain below:

**Attachment B**  
**Soil Gas Graphs**

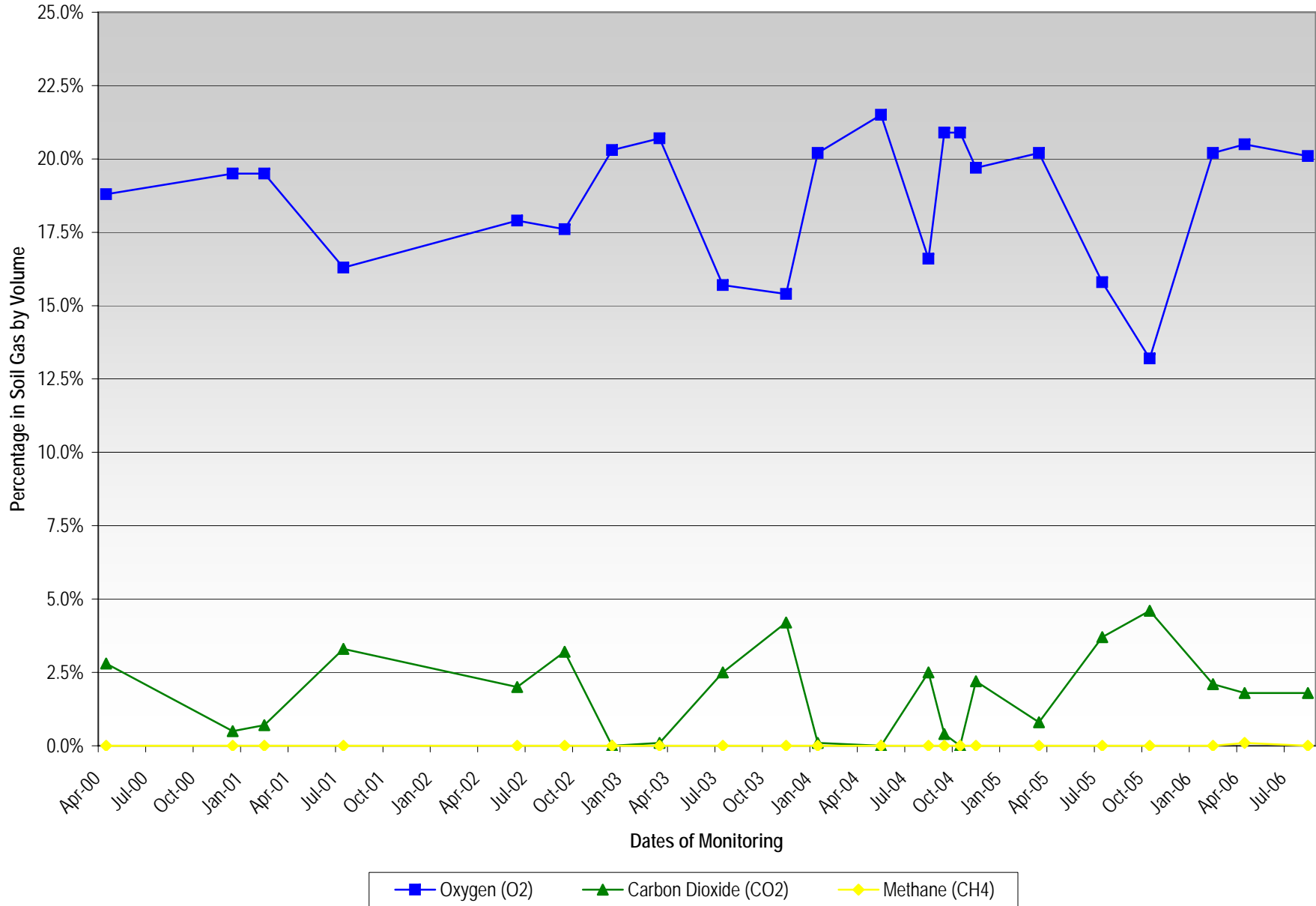
Soil Gas Well EPL1  
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time  
 Springfield Street School Complex  
 Providence, Rhode Island



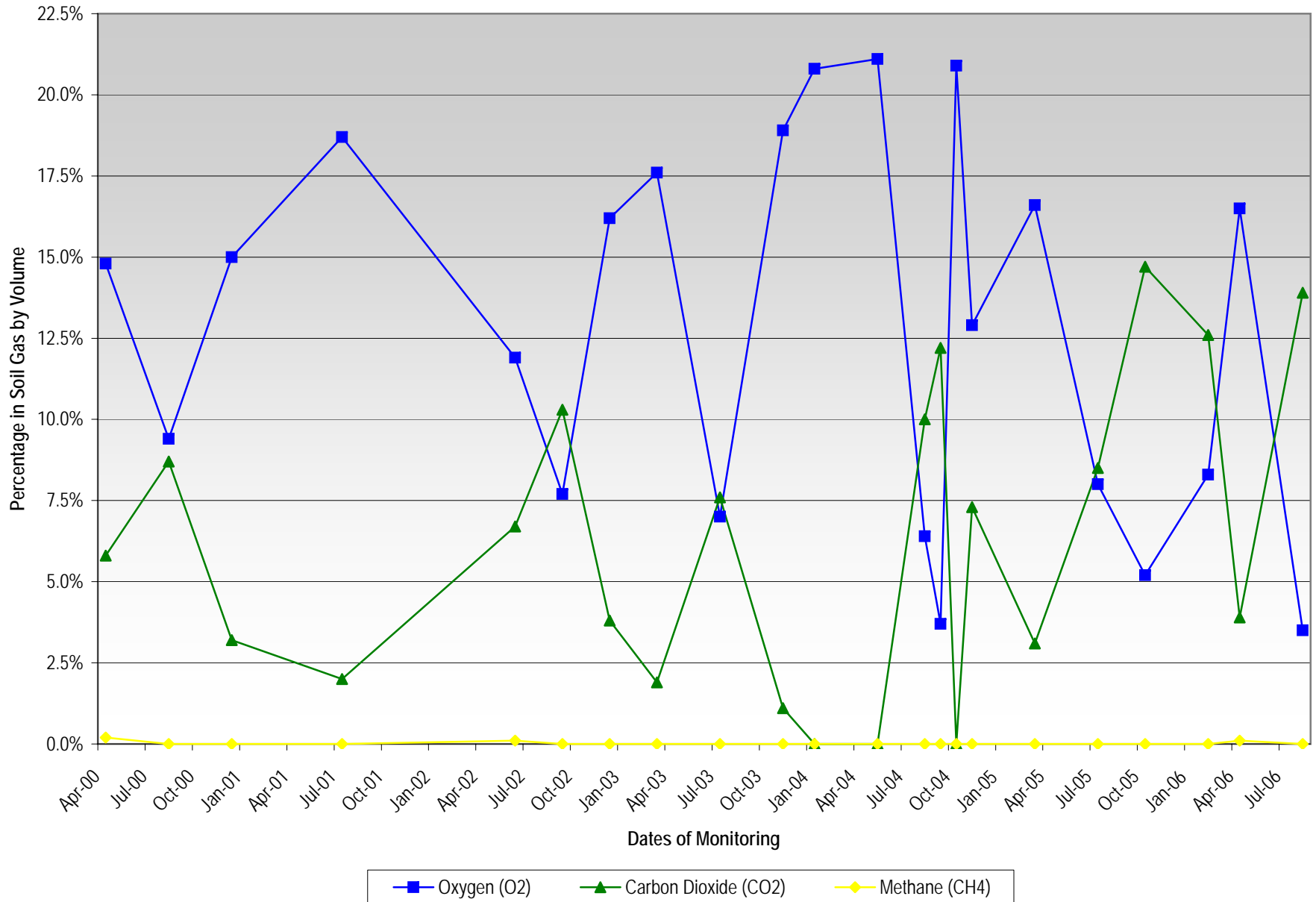
Soil Gas Well EPL4  
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time  
 Springfield Street School Complex  
 Providence, Rhode Island



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

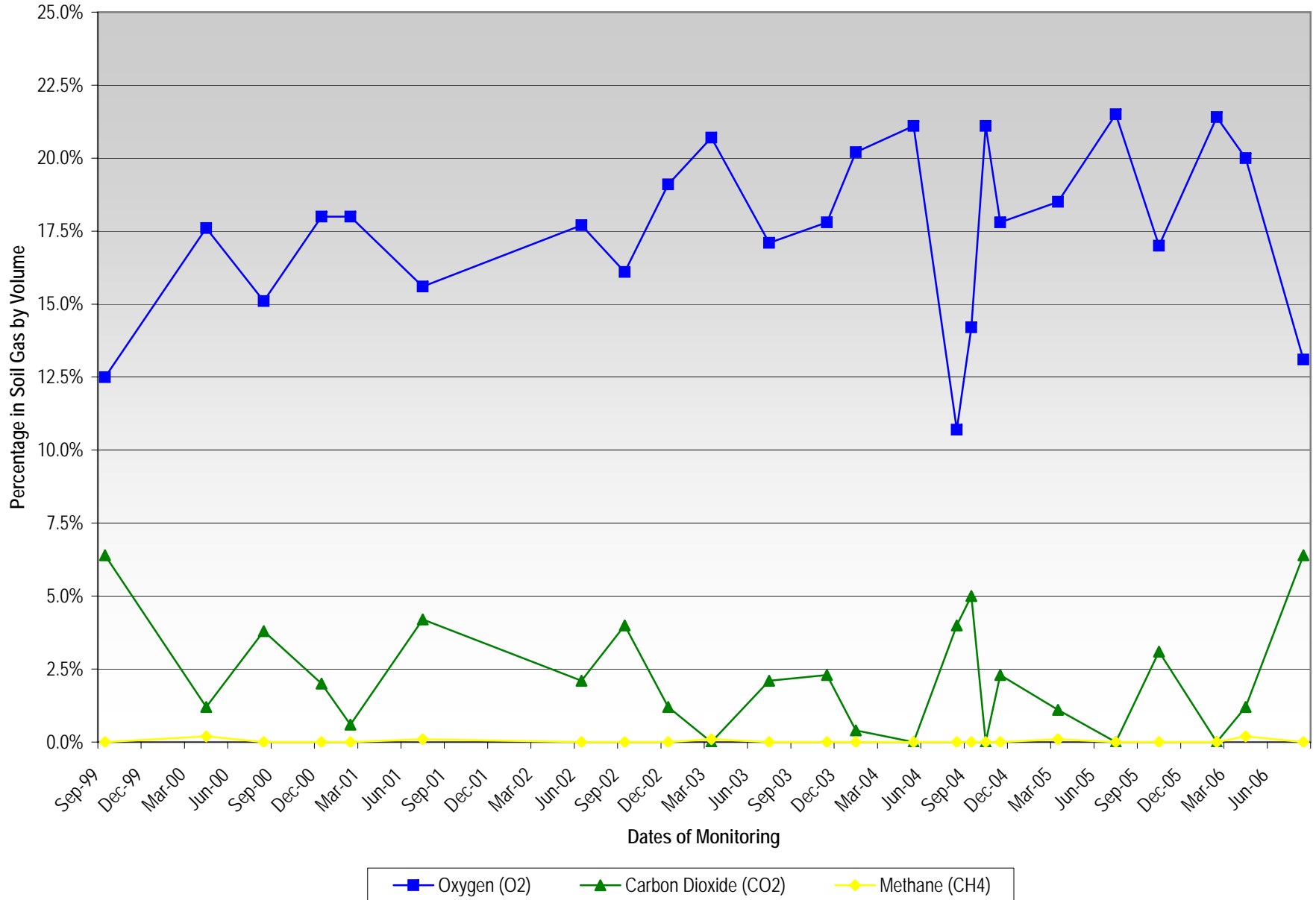


Soil Gas Well MPL5  
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time  
 Springfield Street School Complex  
 Providence, Rhode Island

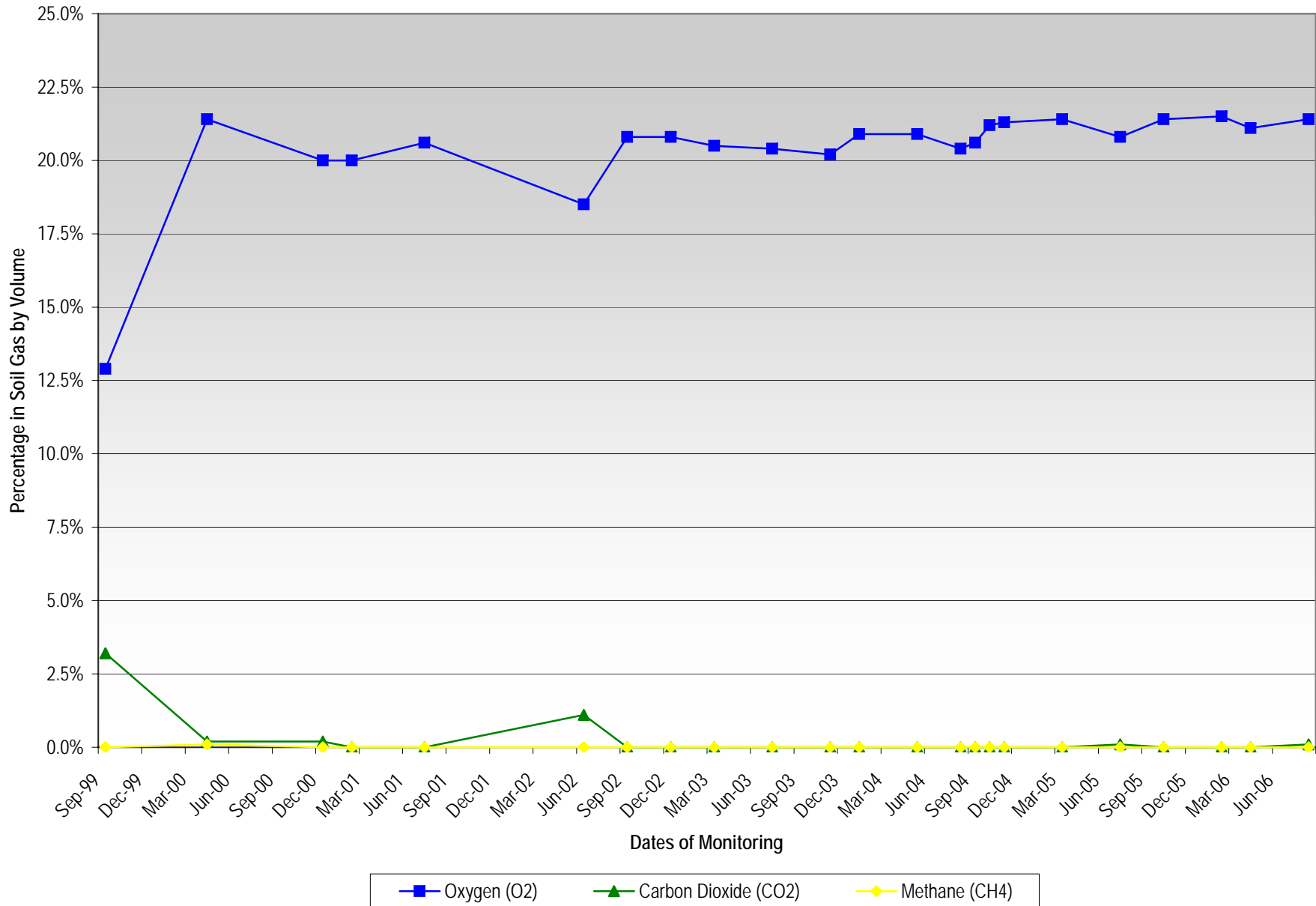




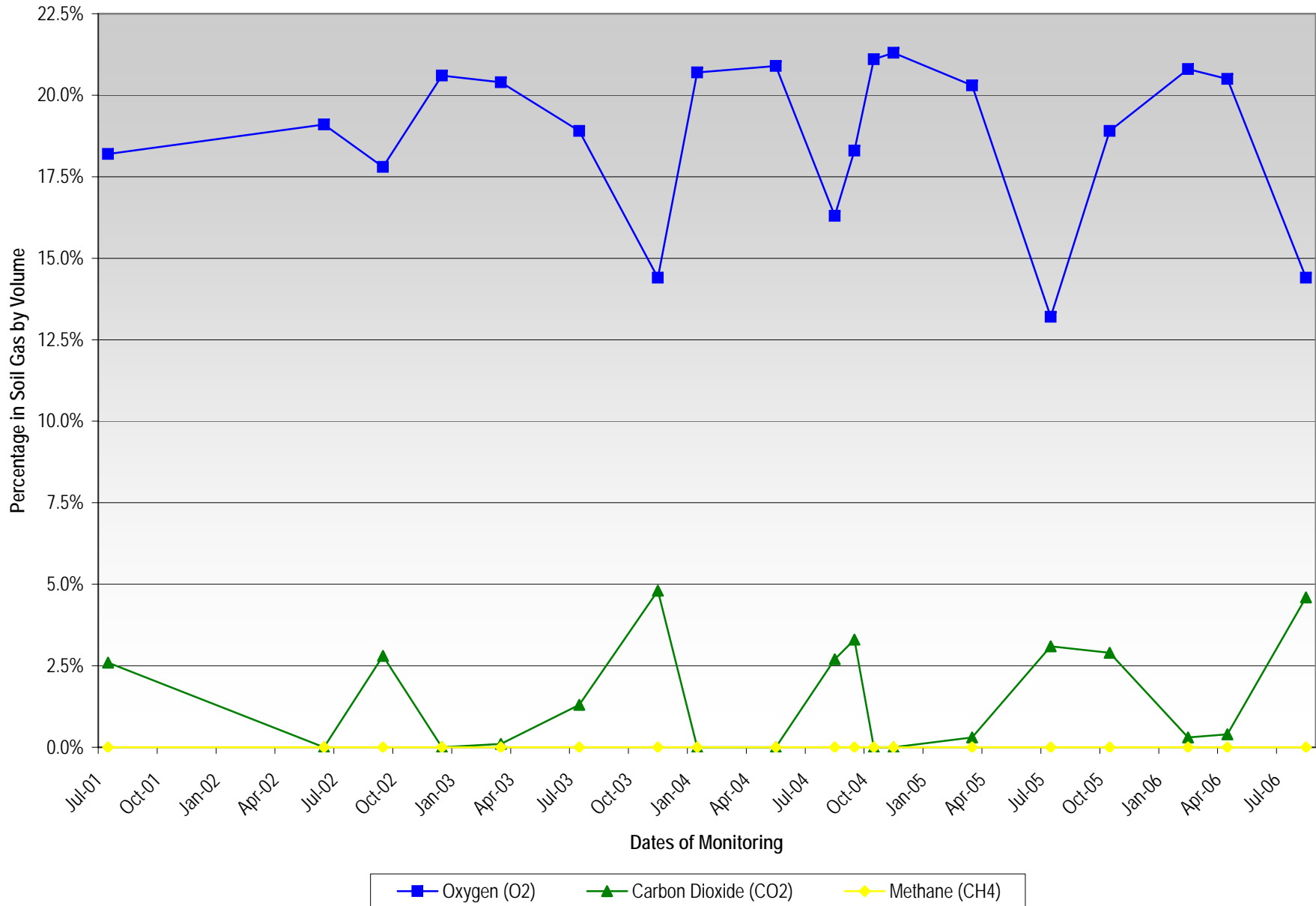
Soil Gas Well WB1  
 Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time  
 Springfield Street School Complex  
 Providence, Rhode Island



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 C**

**Laboratory Report for Soil Gas**



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

REPORT DATE 9/8/2006

LFR, INC. - RI  
350 METRO CENTER BLVD., SUITE 250  
WARWICK, RI 02886  
ATTN: DONNA PALLISTER

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER: 5131

PROJECT NUMBER: 081-12152-03

**ANALYTICAL SUMMARY**

LIMS BAT #: LIMS-99658  
JOB NUMBER: 081-12152-03

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, RI

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MPL-6	06B27830	AIR	NOT SPECIFIED	to-14 ppbv
MPL-6	06B27830	AIR	NOT SPECIFIED	to-14 ug/m3
WB-2	06B27829	AIR	NOT SPECIFIED	to-14 ppbv
WB-2	06B27829	AIR	NOT SPECIFIED	to-14 ug/m3

Comments :

LIMS BATCH NO. : LIMS-99658

SAMPLES WERE TAKEN IN TEDLAR BAGS. THE HOLDING TIME OR STABILITY FOR SAMPLES TAKEN IN TEDLAR BAGS IS UNKNOWN.

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	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

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* 9/8/06  
SIGNATURE DATE

Tod Kopyscinski  
Director of Operations

Sondra L. Slesinski  
Quality Assurance Officer

Edward Denson  
Technical Director

\* See end of data tabulation for notes and comments pertaining to this sample

DONNA PALLISTER  
 LFR, INC. - RI  
 350 METRO CENTER BLVD., SUITE 250  
 WARWICK, RI 02886

Purchase Order No.: 5131

9/8/2006

Page 1 of 9

Project Location: SPRINGFIELD ST SCHOOL, PROV, RI

Project Number: 081-12152-03

Date Received: 9/1/2006

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

Field Sample #: MPL-6

Sample ID: 06B27830

Sampled: 8/31/2006

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	09/06/06	TPH	0.5			
Bromomethane	PPBv	ND	09/06/06	TPH	0.5			
Carbon Tetrachloride	PPBv	ND	09/06/06	TPH	0.5			
Chlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
Chloroethane	PPBv	ND	09/06/06	TPH	0.5			
Chloroform	PPBv	ND	09/06/06	TPH	0.5			
Chloromethane	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dibromoethane	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
1,3-Dichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
1,4-Dichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
Dichlorodifluoromethane	PPBv	ND	09/06/06	TPH	0.5			
1,1-Dichloroethane	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichloroethane	PPBv	ND	09/06/06	TPH	0.5			
1,1-Dichloroethylene	PPBv	ND	09/06/06	TPH	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichloropropane	PPBv	ND	09/06/06	TPH	0.5			
cis-1,3-Dichloropropene	PPBv	ND	09/06/06	TPH	0.5			
trans-1,3-Dichloropropene	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	09/06/06	TPH	0.5			
Ethylbenzene	PPBv	1.3	09/06/06	TPH	0.5			
Hexachlorobutadiene	PPBv	ND	09/06/06	TPH	0.5			
Methylene Chloride	PPBv	ND	09/06/06	TPH	0.5			
Styrene	PPBv	1.0	09/06/06	TPH	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	09/06/06	TPH	0.5			
Tetrachloroethylene	PPBv	ND	09/06/06	TPH	0.5			
Toluene	PPBv	4.6	09/06/06	TPH	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
1,1,1-Trichloroethane	PPBv	ND	09/06/06	TPH	0.5			
1,1,2-Trichloroethane	PPBv	ND	09/06/06	TPH	0.5			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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



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

DONNA PALLISTER  
LFR, INC. - RI  
350 METRO CENTER BLVD., SUITE 250  
WARWICK, RI 02886

Purchase Order No.: 5131

9/8/2006

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Project Location: SPRINGFIELD ST SCHOOL, PROV, RI

Date Received: 9/1/2006

Field Sample #: MPL-6

Sample ID: 06B27830

Sampled: 8/31/2006

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: TEDLAR BAG

Project Number: 081-12152-03

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	1.2	09/06/06	TPH	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	09/06/06	TPH	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	09/06/06	TPH	0.5			
1,2,4-Trimethylbenzene	PPBv	3.3	09/06/06	TPH	0.5			
1,3,5-Trimethylbenzene	PPBv	1.0	09/06/06	TPH	0.5			
Vinyl Chloride	PPBv	ND	09/06/06	TPH	0.5			
m/p-Xylene	PPBv	4.6	09/06/06	TPH	1.0			
o-Xylene	PPBv	1.4	09/06/06	TPH	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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LFR, INC. - RI  
350 METRO CENTER BLVD., SUITE 250  
WARWICK, RI 02886

Purchase Order No.: 5131

9/8/2006

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Project Location: SPRINGFIELD ST SCHOOL, PROV, RI  
Date Received: 9/1/2006

Project Number: 081-12152-03

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

Field Sample #: WB-2

Sample ID: 06B27829

Sampled: 8/31/2006

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	09/06/06	TPH	0.5			
Bromomethane	PPBv	ND	09/06/06	TPH	0.5			
Carbon Tetrachloride	PPBv	ND	09/06/06	TPH	0.5			
Chlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
Chloroethane	PPBv	ND	09/06/06	TPH	0.5			
Chloroform	PPBv	ND	09/06/06	TPH	0.5			
Chloromethane	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dibromoethane	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
1,3-Dichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
1,4-Dichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
Dichlorodifluoromethane	PPBv	0.6	09/06/06	TPH	0.5			
1,1-Dichloroethane	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichloroethane	PPBv	ND	09/06/06	TPH	0.5			
1,1-Dichloroethylene	PPBv	ND	09/06/06	TPH	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichloropropane	PPBv	ND	09/06/06	TPH	0.5			
cis-1,3-Dichloropropene	PPBv	ND	09/06/06	TPH	0.5			
trans-1,3-Dichloropropene	PPBv	ND	09/06/06	TPH	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	09/06/06	TPH	0.5			
Ethylbenzene	PPBv	0.7	09/06/06	TPH	0.5			
Hexachlorobutadiene	PPBv	ND	09/06/06	TPH	0.5			
Methylene Chloride	PPBv	2.0	09/06/06	TPH	0.5			
Styrene	PPBv	ND	09/06/06	TPH	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	09/06/06	TPH	0.5			
Tetrachloroethylene	PPBv	ND	09/06/06	TPH	0.5			
Toluene	PPBv	1.9	09/06/06	TPH	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	09/06/06	TPH	0.5			
1,1,1-Trichloroethane	PPBv	ND	09/06/06	TPH	0.5			
1,1,2-Trichloroethane	PPBv	ND	09/06/06	TPH	0.5			

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Project Location: SPRINGFIELD ST SCHOOL, PROV, RI

Project Number: 081-12152-03

Date Received: 9/1/2006

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

Field Sample #: WB-2

Sample ID: 06B27829

Sampled: 8/31/2006

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	PPBv	ND	09/06/06	TPH	0.5		
Trichlorofluoromethane (Freon 11)	PPBv	0.5	09/06/06	TPH	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	09/06/06	TPH	0.5		
1,2,4-Trimethylbenzene	PPBv	2.0	09/06/06	TPH	0.5		
1,3,5-Trimethylbenzene	PPBv	0.7	09/06/06	TPH	0.5		
Vinyl Chloride	PPBv	ND	09/06/06	TPH	0.5		
m/p-Xylene	PPBv	2.4	09/06/06	TPH	1.0		
o-Xylene	PPBv	0.5	09/06/06	TPH	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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Project Location: SPRINGFIELD ST SCHOOL, PROV, RI  
 Date Received: 9/1/2006

Project Number: 081-12152-03

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

Field Sample #: MPL-6

Sample ID: 06B27830

Sampled: 8/31/2006

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	ug/m3	ND	09/06/06	TPH	1.6			
Bromomethane	ug/m3	ND	09/06/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	09/06/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	09/06/06	TPH	2.3			
Chloroethane	ug/m3	ND	09/06/06	TPH	1.3			
Chloroform	ug/m3	ND	09/06/06	TPH	2.4			
Chloromethane	ug/m3	ND	09/06/06	TPH	1.0			
1,2-Dibromoethane	ug/m3	ND	09/06/06	TPH	3.8			
1,2-Dichlorobenzene	ug/m3	ND	09/06/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	09/06/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	09/06/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	ND	09/06/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	09/06/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	09/06/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	09/06/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	09/06/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	09/06/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	09/06/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	09/06/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	09/06/06	TPH	3.5			
Ethylbenzene	ug/m3	5.8	09/06/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	09/06/06	TPH	5.3			
Methylene Chloride	ug/m3	ND	09/06/06	TPH	1.7			
Styrene	ug/m3	4.4	09/06/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	09/06/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	09/06/06	TPH	3.4			
Toluene	ug/m3	17.	09/06/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	09/06/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	09/06/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	09/06/06	TPH	2.7			

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Project Location: SPRINGFIELD ST SCHOOL, PROV, RI

Project Number: 081-12152-03

Date Received: 9/1/2006

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

Field Sample #: MPL-6

Sample ID: 06B27830

Sampled: 8/31/2006

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	ug/m3	6.6	09/06/06	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	09/06/06	TPH	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	09/06/06	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	16.	09/06/06	TPH	2.5			
1,3,5-Trimethylbenzene	ug/m3	4.9	09/06/06	TPH	2.5			
Vinyl Chloride	ug/m3	ND	09/06/06	TPH	1.3			
m/p-Xylene	ug/m3	20.	09/06/06	TPH	4.3			
o-Xylene	ug/m3	6.0	09/06/06	TPH	2.2			

Analytical Method:

EPA TO-14A

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Purchase Order No.: 5131

9/8/2006

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Project Location: SPRINGFIELD ST SCHOOL, PROV, RI

Project Number: 081-12152-03

Date Received: 9/1/2006

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

Field Sample #: WB-2

Sample ID: 06B27829

Sampled: 8/31/2006

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: TEDLAR BAG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	ug/m3	ND	09/06/06	TPH	1.6			
Bromomethane	ug/m3	ND	09/06/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	09/06/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	09/06/06	TPH	2.3			
Chloroethane	ug/m3	ND	09/06/06	TPH	1.3			
Chloroform	ug/m3	ND	09/06/06	TPH	2.4			
Chloromethane	ug/m3	ND	09/06/06	TPH	1.0			
1,2-Dibromoethane	ug/m3	ND	09/06/06	TPH	3.8			
1,2-Dichlorobenzene	ug/m3	ND	09/06/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	09/06/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	09/06/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	2.8	09/06/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	09/06/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	09/06/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	09/06/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	09/06/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	09/06/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	09/06/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	09/06/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	09/06/06	TPH	3.5			
Ethylbenzene	ug/m3	3.2	09/06/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	09/06/06	TPH	5.3			
Methylene Chloride	ug/m3	7.0	09/06/06	TPH	1.7			
Styrene	ug/m3	ND	09/06/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	09/06/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	09/06/06	TPH	3.4			
Toluene	ug/m3	7.0	09/06/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	09/06/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	09/06/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	09/06/06	TPH	2.7			

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9/8/2006

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Project Location: SPRINGFIELD ST SCHOOL, PROV, RI

Project Number: 081-12152-03

Date Received: 9/1/2006

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

Field Sample #: WB-2

Sample ID: 06B27829

Sampled: 8/31/2006

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	09/06/06	TPH	2.7		
Trichlorofluoromethane	ug/m3	2.9	09/06/06	TPH	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	09/06/06	TPH	3.8		
1,2,4-Trimethylbenzene	ug/m3	9.8	09/06/06	TPH	2.5		
1,3,5-Trimethylbenzene	ug/m3	3.5	09/06/06	TPH	2.5		
Vinyl Chloride	ug/m3	ND	09/06/06	TPH	1.3		
m/p-Xylene	ug/m3	10.	09/06/06	TPH	4.3		
o-Xylene	ug/m3	2.2	09/06/06	TPH	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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Purchase Order No.: 5131

Project Location: SPRINGFIELD ST SCHOOL, PROV, RI  
Date Received: 9/1/2006

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Project Number: 081-12152-03

LIMS-BAT #: LIMS-99658

Job Number: 081-12152-03

\*\* END OF REPORT \*\*

RL = Reporting Limit

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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: 9/8/2006

Lims Bat # : LIMS-99658

Page 1 of 2

QC Batch Number: BATCH-11245

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B27829	4-Bromofluorobenzene	Surrogate Recovery	91.6	%	70-130
06B27830	4-Bromofluorobenzene	Surrogate Recovery	91.6	%	70-130
BLANK-91694	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	<4.3	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: 9/8/2006

Lims Bat #: LIMS-99658

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### 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 through 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

LIMS - 99658

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

Company Name: LEK Inc  
 Address: 300 Metro Center Blvd  
Warrick RI 02986  
 Attention: Danna Pallister  
 Project Location: Springfield St. School, Prov  
 Sampled By: ML KI

Telephone: (401) 738 5887  
 Project # 081-12152-03  
 Client PO # \_\_\_\_\_

**DATA DELIVERY (check one):**  
 FAX  EMAIL  WEBSITE CLIENT  
 Fax #: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Format:  EXCEL  PDF  GIS KEY  
 OTHER \_\_\_\_\_

Proposal Provided? (For Billing purposes)  yes \_\_\_\_\_ proposal date  
 State Form Required?  yes  no

TOZ	ANALYSIS REQUESTED										# of containers
											**Preservation
VOC TO-14											-Cont.Code
											-Cont. Code: A=amber glass G=glass P=plastic ST=sterile V=vial S=summa can T=tedlar bag O=Other
											Client Comments:

Field ID	Sample Description	Lab #	Date Sampled		Com- posite	Grab	*Matrix Code	Conc. Code
			Start Date/Time	Stop Date/Time				
	WB-2	06B 27829	9/31/06	1300		x	A U	X
	M PL-6	27830	9/31/06	1600		x	A U	X

Laboratory Comments: \_\_\_\_\_

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

Relinquished by: (signature) [Signature] to above to judge  
 Date/Time: 9/31/06  
 Received by: (signature) [Signature]  
 Date/Time: 9-1-06 1600  
 Relinquished by: (signature) [Signature]  
 Date/Time: 9-1-06 1720  
 Received by: (signature) [Signature]  
 Date/Time: 9-1-06 1720

**Turnaround \*\***  
 7-Day  
 10-Day  
 Other 9  
**RUSH \* day**  
 \*24-Hr  \*48-Hr  
 \*72-Hr  \*4-Day  
 \* Require lab approval

**Detection Limit Requirements**  
 Regulations? \_\_\_\_\_  
 Data Enhancement Project/RCP?  Y  N  
 Special Requirements or DL's: \_\_\_\_\_

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

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

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



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East Longmeadow, MA  
Phone: 1-413-525-2332  
Fax: 1-413-525-6405

### SAMPLE RECEIPT CHECKLIST

CLIENT NAME: LFR

RECEIVED BY: TPH DATE: 9-1-06

1. Was chain of custody relinquished and signed?  YES  NO

2. Does Chain agree with samples?  YES  NO

If not, explain:

3. All Samples in good condition?  YES  NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C? YES  NO

Degrees:  
N/A

5. Are all soil vph & voc samples covered with preservation? YES N/A  NO

6. Are there any on hold samples? YES  NO

7. Laboratory analysts notified?  YES  NO  
Who \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_

8. Location where samples are stored: AIR LAB

CONTAINERS SENT IN TO CON-TEST	# of containers	CONTAINERS SENT TO CON-TEST	# of containers
1 liter amber		Air Cassettes	
500 ml amber		8 oz clear jar	
250 ml amber (8oz. Amber)		4 oz clear jar	
1 liter plastic		2 oz clear jar	
500 ml plastic		Plastic bag	
250 ml plastic		Encore	
40 ml vial		Brass Sleeves	
Colisure bottle		Tubes	
Dissolved oxygen bottle		Summa cans	
Flashpoint bottle		Other	

3L Tcdjar 2

Laboratory comments: Transferred into 3L

Do all the samples have the correct pH levels? YES  NO  If no, please explain below: