

March 30, 2004

081-12152-00

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 – January 2004 Monitoring Round

Dear Mr. Crawford:

Quarterly monitoring was conducted during the week of January 19 to 23, 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. We did not observe any areas where the orange indicator barrier was visible during the January monitoring. However, we did observe some areas where settling and /or erosion was present. These conditions were similar to what had been observed during the previous two rounds of monitoring. The areas are described below and shown on the attached site plan:

- In the paved section of a courtyard on the northern end of the Middle School, the pavement has settled and broken around the catch basin in the middle of the area, and underlying soil is exposed.
- In the same courtyard area, some settling has occurred along the eastern building wall.
- On the south side of the Middle School, adjacent to the HVAC unit and a transformer, settling has occurred around the catch basin and in this general vicinity. Several holes and a depressed area were observed.

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- Along the western wall of the middle school adjacent to the HVAC unit and transformer, several deep holes were observed along the building foundation.

SUB-SLAB VENTILATION SYSTEM

The sub-slab ventilation system was inspected by LFR during the quarterly monitoring on January 23, 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 3. Methane was not detected in any of the system samples collected. Organic vapors were detected at concentrations of 0.3 ppm as isobutylene in the two elementary school inlets, and at 0.2 ppm in the outlet. At the middle school, both the front and back system inlet organic vapor concentration was measured at 0.1 ppm, and both outlets were measured at 0.2 ppm.

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 January 23, 2004 using a Landtec GA-90 landfill gas monitor and a Minirae photoionization detector (PID). Results of monitoring are provided in the Table 4. No parameters were detected at concentrations above the action levels specified in the Remedial Action Work Plan during this round of monitoring.

On the day of the inspection, the methane monitors were marked with stickers indicating that Diamond Calibration last calibrated the methane monitors at both schools on January 14, 2004. All of the sensors were functioning at the time of the inspection.

We noted that the sensors in the elementary school were reading slightly higher than typically observed. The readings ranged from 0 to 8. The highest reading (8) was for the sensor located in the near the front entrance to the school. This area was checked for methane using the Landtec and a reading of zero was obtained. Diamond Calibration personnel reported that the zero point of the sensors had been adjusted up slightly because cold air hitting the sensor (such as when the door is opened and closed frequently) causes the sensor to read less than zero. A reading of less than zero triggers a fault alarm on the panel. In order to avoid these false fault readings on the panel, the zero point was adjusted up. This does not affect the ability of the system to detect actual methane readings, because the high level alarm settings are not changed. As noted in table 4, the methane concentrations were measured using the Landtec adjacent to several other sensors to confirm that the readings on the panel were false positives for methane.

GROUNDWATER MONITORING

Four of the five groundwater monitoring wells were sampled by LFR on January 22, 2003. One monitoring well, ATC-2, was not sampled during this sampling round because it could not be located due to extensive snow cover. 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 9.43 to 18.33 feet below the ground surface. Groundwater sampling logs are provided as Attachment 1.

Laboratory certificates of analysis are provided in Attachment 2. Samples were analyzed for VOCs by ESS laboratory via EPA method 8260. The only compounds detected during by the analysis were MTBE in ATC-4 at 1.06 $\mu\text{g/L}$, which is well below the GB Groundwater Objective of 5,000 $\mu\text{g/L}$, and toluene in ATC-3 at 3.03 $\mu\text{g/L}$, which is well below the GB Groundwater Objective of 1,700 $\mu\text{g/L}$.

SOIL GAS MONITORING

Soil gas monitoring was conducted at 26 of the 29 locations on January 20, 21, and 22, 2004. Three of the sampling locations were not sampled based on the fact that one had been destroyed (MPL-3) and two were covered by large snow piles that had been caused by the plowing of the parking lot (MPL-2 and MPL-8). 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. In previous sampling rounds, air samples were collected from WB-3 and MPL-6. However, during this sampling round, WB-3 was found to be damaged, with the curb box and gripper cap missing, and PVC riser damaged. WB-2 was sampled based on its proximity to WB-3. 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 1.

Methane was not detected in any of the 26 sample locations.

Carbon dioxide concentrations ranged from 0 to 0.8% during this monitoring event, which is lower than the concentrations detected during previous monitoring rounds.

Concentrations of carbon monoxide were detected in each of the 26 locations sampled and 20 of these samples exceeded the Remedial Action Work Plan Level of 9 parts-per-million (ppm). The highest reading was 15 ppm.

Hydrogen sulfide was detected in 23 of the 26 sampling locations during this round of monitoring; however, only one exceeded the Remedial Action Work Plan Level of 10 PPM. The well that exceeded is WB-8, which had a reading of 30 ppm. No odors typically associated with hydrogen sulfide were detected during the soil gas monitoring.

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 3, and the laboratory report is provided in Attachment 3. The results of analysis did not reveal any unusual contaminants. Constituents detected during this round of analysis were similar to constituents detected during previous rounds of analysis.

CONCLUSIONS

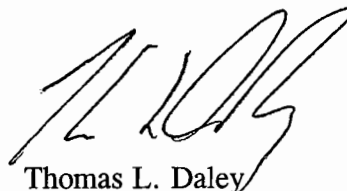
Methane was not detected in any of the soil gas, subslab ventilation, or indoor air samples collected. Carbon monoxide and hydrogen sulfide concentrations exceeded action levels in some soil gas samples, but did not exceed action levels in any indoor air or subslab ventilation system samples. Carbon dioxide concentrations in soil gas were lower than the previous round of monitoring.

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'.

Donna Holden Pallister, P.E.
Senior Engineer

A handwritten signature in black ink, appearing to read 'Thomas L. Daley'.

Thomas L. Daley
Senior Engineer

TABLES

Table 1
Soil Gas Survey Results
Springfield Street School Complex
Providence, RI
January 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	0.4	20.2	13	6	0
WB-2	0	0	20.5	14	6	0
WB-3	0	0	20.4	14	8	0
WB-4	0	0	21.2	15	4	0
WB-5	0	0	20.9	12	4	0
WB-6	0	0	20.8	13	1	0
WB-7	0	0	20.9	9	7	0
WB-8	0	0	20.5	10	30	0
WB-12	0	0	20.9	9	3	0
WB-13	0	0	20.7	11	0	0
WB-14	0	0	20.7	13	2	0

Table 1 (continued)
Soil Gas Survey Results
Springfield Street School Complex
Providence, RI
November 2003

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
WB-15	0	0	20.7	10	2	0
EPL-1	0	0.1	20.3	13	5	0
EPL-2	0	0.1	20.2	13	10	0
EPL-3	0	0.2	20.2	13	5	0
EPL-4	0	0.8	19.8	12	5	0
EPL-5	0	0.8	20.0	13	5	0
ENE-1	0	0	20.5	11	3	0
MG1	0	0	20.5	11	0	0
MG2	0	0.1	20.2	4	5	0
MG3	0	0.1	20.2	9	2	0
MG4	0	0	20.3	10	3	0
MG5	0	0	20.4	11	0	0
MPL2	--	--	--	--	--	--

Table 1 (continued)
Soil Gas Survey Results
Springfield Street School Complex
Providence, RI
November 2003

Monitoring Well	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
MPL3	--	--	--	--	--	--
MPL5	0	0	20.8	7	9	0
MPL6	0	0	20.7	9	3	0
MPL7	0	0	20.7	10	2	0
MPL8	--	--	--	--	--	--
Remedial Action Work Plan Action Levels	0.5%	1,000 PPM	NA	9 PPM	10 PPM	5 PPM

Date: 1/22/04, 1/23/03 and 1/24/03 **Sampled by:** Andrea J. Lang and Christina L. Taggart

Weather Conditions: Cold between 15 and 20 degrees F

Sampling Equipment: Landtec GA-90, SKC Pump and hNU PID Meter

-- = *Not sampled*

Table 2
Soil Gas Laboratory Analysis Results
Springfield Street School Complex
January 22, 2004

Parameter	Results of Analysis in parts per billion by volume (PPbv)	
	MPL-6	WB-3
Methylene Chloride*	ND	1.2
Toluene	1.2	1.2

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

* The laboratory reported that methylene chloride was detected in the method blank.

Table 3
System Monitoring Notes
Springfield Street School Complex
Providence, RI
081-12152-00

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	20.2	0	1	0.3
Elementary School inlet 2	0.0	0.0	20.4	0	1	0.3
Elementary School Outlet	0.0	0.1	20.0	0	0	0.2
Middle school front shed inlet	0.0	0.0	20.5	2	1	0.1
Middle school front shed after 2 nd carbon	0.0	0.0	20.8	2	3	0.2
Middle school back shed inlet	0.0	0.0	20.6	0	0	0.1
Middle school back shed after 2 nd carbon	0.0	0.0	20.6	2	0	0.2

Measurements made with: Landtec GA-90, MiniRae photoionizer detector
 Sampling date: 1/24/04

Table 4
Indoor Air Monitoring Notes
Springfield Street School Complex
Providence, RI
January 23, 2004

Monitoring Location	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
Elementary School						
Front office	0.0	0.0	20.9	6	0	0
Elevator Room	0.0	0.0	20.6	5	0	0
Elevator Shaft	0.0	0.0	20.6	4	0	0
Electrical closet	0.0	0.0	20.6	2	0	0
Gym storage closet	0.0	0.0	20.6	2	0	0
Boiler Rm. Elec. Closet	0.0	0.0	20.6	2	0	0
Library	0.0	0.0	20.6	2	1	0
Second Floor, West closet	0.0	0.0	20.4	2	0	0
Stairway <i>Sensor #5 Stair C</i>	0.0	0.0	20.6	0	1	0
Room 110	0.0	0.0	20.6	0	1	0
Room 205	0.0	0.0	20.6	1	0	0
Room 215	0.0	0.0	20.5	1	1	0.4

Table 4 (continued)
Indoor Air Monitoring Notes
Springfield Street School Complex
January 23, 2004

Monitoring Location	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
Room 214	0.0	0.0	20.6	0	1	0
Electrical Room <i>Sensor #6</i>	0.0	0.0	20.5	0	1	0
Front Hall <i>Sensor #8</i>	0.0	0.0	20.6	0	1	0
Room 218	0.0	0.0	20.6	0	1	0
Room 201	0.0	0.0	20.6	0	1	0
Cafeteria	0.0	0.0	20.6	0	1	0.1
Hall Near Monitor	0.0	0.0	20.6	0	1	0
Middle School						
Front office	0.0	0.0	20.2	2	0	0.1
Elev. Closet	0.0	0.0	20.3	1	0	0.1
Elev. Shaft	0.0	0.0	20.4	1	1	0
Crack near door to outside near gym	0.0	0.0	20.5	2	1	0
Former Music Room	0.0	0.0	20.5	1	0	0.1
Closet 1 st Floor	0.0	0.0	20.6	2	0	2.0 next to cleaner bottle and

Table 4 (continued)
Indoor Air Monitoring Notes
Springfield Street School Complex
January 23, 2004

Monitoring Location	Methane % by volume	Carbon Dioxide % by volume	Oxygen % by volume	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors PPM
						0.3 ambient
Closet 2 nd Floor	0.0	0.0	20.6	1	0	0.1
Room 205	0.0	0.0	20.6	0	1	0.0
Library	0.0	0.0	20.7	0	1	0.1
Janitor office	0.0	0.0	20.8	0	1	0.1
Stairwell north end front	0.0	0.0	20.8	0	1	0.0
Remedial Action Work Plan Action Levels	0.5	1,000 ppm	NA	9 ppm	10 ppm	5 ppm

Landtec GA90/MiniRae Photoionization Detector

By: Donna Pallister

Attachment 1

Groundwater Monitoring Logs



Well Number: ATC-1

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-00

Site Address: Springfield Street
Providence, RI

Sampled By: CT	Date: 1/22/04
Weather: cold 20 degrees F	Purging Equipment: bailer
Sampling Equipment: 2 inch bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: (feet) 12.79
Casing diameter: 2 inch (inches)	Flush mount or riser: flush mount
Depth to Product: (feet) NA	Product thickness: NA (feet)
Depth to bottom: 21.09 (feet)	Length of Water Column (depth to bottom - depth to water): 8.30 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: (liters) 5.12	Three well volumes: (1.85 x length of water column for 2 inch well): (liters) 15.355 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)
5	12.7	413.8	0.45	7.7
10	13.5	589	0.45	7.7
15	14.5	609	0.43	7.6

Total volume Removed: 15 liters

OBSERVATIONS:

Color of groundwater: light brown Odors: slight petroleum Did well go dry: No

Notes: Sampled at 1245



Well Number: ATC-2

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-00

Site Address: Springfield Street
Providence, RI

Sampled By: CT	Date: 1/22/04
Weather: Cold 15 degrees F	Purging Equipment:
Sampling Equipment:	Decontamination method:
Measuring Point (top of PVC/ top of casing):	Depth to water: (feet)
Casing diameter: (inches)	Flush mount or riser:
Depth to Product: (feet)	Product thickness: (feet)
Depth to bottom: (feet)	Length of Water Column (depth to bottom – depth to water): (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): (liters) (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)

Total volume Removed:

OBSERVATIONS:

Color of groundwater: _Odors: _Did well go dry: o

Notes: THIS WELL WAS NOT SAMPLED DURING THIS SAMPLING ROUND. COULD NOT BE LOCTED DUE TO EXTENSIVE SNOW COVER.



Well Number: ATC-3

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-00

Site Address: Springfield Street
Providence, RI

Sampled By: CT	Date: 1/22/04
Weather: Cold 15 degrees F	Purging Equipment: bailer
Sampling Equipment: 2 inch bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: (feet) 12.04
Casing diameter: 2 inch (inches)	Flush mount or riser: flush mount
Depth to Product: (feet) NA	Product thickness: NA (feet)
Depth to bottom: 22.10 (feet)	Length of Water Column (depth to bottom – depth to water): 10.06 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: (liters) 6.20	Three well volumes: (1.85 x length of water column for 2 inch well): (liters) 18.61 (liters)

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)
6	11.8	867	0.48	7.7
12	12.4	610	0.45	7.5
18	12.6	860	0.46	7.6

Total volume Removed: 19 liters

OBSERVATIONS:

Color of groundwater: light brown Odors: none Did well go dry: No

Notes: sampled at 1430



Well Number: ATC-4

Site Name: Springfield Street School

Project Number: 081-12152-00

Site Address: Springfield Street
Providence, RI

GROUNDWATER SAMPLING LOG

Sampled By: CT	Date: 11/22/04
Weather: Cold 15 degrees F	Purging Equipment: bailer
Sampling Equipment: 2 inch bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: (feet) 13.41
Casing diameter: 2 inch (inches)	Flush mount or riser: flush mount
Depth to Product: (feet) NA	Product thickness: NA (feet)
Depth to bottom: 24.0 (feet)	Length of Water Column (depth to bottom - depth to water): (feet) 10.59
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: (liters) 6.53	Three well volumes: (1.85 x length of water column for 2 inch well): (liters) 19.59

FIELD MEASUREMENT DATA

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	PH (standard units)
10	12.5	219.1	0.59	6.9
15	12.7	504	0.65	7.1
20	11.3	225.4	0.71	7.1

Total volume Removed: 20 liters

OBSERVATIONS:

Color of groundwater: light brown Odors: None Did well go dry: No

Notes: sampled at 1145



Well Number: ATC-5

Site Name: Springfield Street School

GROUNDWATER SAMPLING LOG

Project Number: 081-12152-00

Site Address: Springfield Street
Providence, RI

Sampled By: CT	Date: 1/22/04
Weather: Cold 15 degrees F	Purging Equipment: bailer
Sampling Equipment: 1 inch bailer	Decontamination method:
Measuring Point (top of PVC/ top of casing): PVC	Depth to water: (feet) 18.25
Casing diameter: 2 inch (inches)	Flush mount or riser: flush mount
Depth to Product: (feet) NA	Product thickness: NA (feet)
Depth to bottom: 20.25 (feet)	Length of Water Column (depth to bottom - depth to water): 2.0 (feet)
Well measuring point elevation: (feet)	Water table elevation: (feet)
Well volume: (liters)	Three well volumes: (1.85 x length of water column for 2 inch well): (liters) 3.7 (liters)

FIELD MEASUREMENTS – NOT COLLECTED BASED ON THE FACT THAT WELL IS DRY

Volume Removed (liters)	Temperature (°C)	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)

Total volume Removed: 1

OBSERVATIONS:

Color of groundwater: light brown Odors: none Did well go dry: Yes

Notes: sampled at 1000, only could fill one VOA

Attachment 2

Laboratory Certificates for Groundwater

ESS Laboratory

Division of Thielsch Engineering, Inc.

January 30, 2004

Donna Pallister
LFR Levine-Fricke
250 Centerville Road
Bldg. E, Suite 12
Warwick, RI 02886

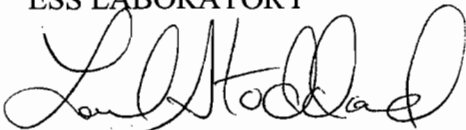
Dear Donna Pallister:

We appreciate this opportunity to provide you with our analytical services. ESS Laboratory is committed to providing the highest quality service. Our dedication to each client includes responsiveness to emergencies, dependable, well-written reports, and client services, which include the availability of all analysts to answer your inquiries.

Enclosed is your data report. The invoice for this project is being forwarded to your Accounts Payable Department unless other arrangements have previously been made with the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department. We value our continued relationship and look forward to hearing from you in the future.

Sincerely,

ESS LABORATORY



Laurel Stoddard
Laboratory Director

Enclosure

MDP

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

CLIENT: LFR Levine-Fricke
CLIENT PROJECT ID: Springfield St. School
ESS PROJECT ID: 04010232

Sample Receipt

4 Ground Water samples and 1 Trip Blank were received on January 23, 2004 for the analysis specified on the enclosed Chain of Custody Record.

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

Volatile Organics Analysis

Blank Spike was outside of the recommended range for 1,4-Dioxane. This analyte was biased low.

No other observations noted.

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The Chain of Custody is the final report page. This report should not be copied except in full without the approval of the laboratory.

End of project narrative.



Laurel Stoddard/Eric Baanante
Laboratory Director/Operations Manager

2/2/04
Date

MDP

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B

Client Name: LFR Levine-Fricke
Client Project ID: Springfield St. School
Client Sample ID: ATC-1
Date Sampled: 1/22/04
Analyst: SVD
Date Analyzed: 1/23/04

ESS Project ID: 04010232
ESS Sample ID: 04010232-01
Units: µg/L
Dilution: 1
Percent Solid: N/A
Sample Amount: 10 ml

Test Name	Result	MRL
1,1,1,2-Tetrachloroethane	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	0.5
1,1,2-Trichloroethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,3-Trichloropropane	ND	1
1,2,4-Trichlorobenzene	ND	1
1,2,4-Trimethylbenzene	ND	1
1,2-Dibromo-3-Chloropropane	ND	2
1,2-Dibromoethane	ND	1
1,2-Dichlorobenzene	ND	1
1,2-Dichloroethane	ND	1
1,2-Dichloropropane	ND	1
1,3,5-Trimethylbenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,3-Dichloropropane	ND	1
1,4-Dichlorobenzene	ND	1
1,4-Dioxane	ND S	500
1-Chlorohexane	ND	1
2,2-Dichloropropane	ND	1
2-Butanone	ND	25
2-Chlorotoluene	ND	1
2-Hexanone	ND	10
4-Chlorotoluene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-Pentanone	ND	10
Acetone	ND	25
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	2
Carbon Disulfide	ND	1

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Project ID: Springfield St. School

ESS Project ID: 04010232

Client Sample ID: ATC-1

ESS Sample ID: 04010232-01

Test Name	Result	MRL
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chloroethane	ND	2
Chloroform	ND	1
Chloromethane	ND	2
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	0.5
Di-isopropyl ether	ND	1
Dibromochloromethane	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	2
Diethyl Ether	ND	1
Ethyl tertiary-butyl ether	ND	1
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	0.6
Isopropylbenzene	ND	1
Methyl tert-Butyl Ether	ND	1
Methylene Chloride	ND	5
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
Tertiary-amyl methyl ether	ND	1
Tetrachloroethene	ND	1
Tetrahydrofuran	ND	5
Toluene	ND	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropene	ND	0.5
Trichloroethene	ND	1
Trichlorofluoromethane	ND	2
Vinyl Acetate	ND	5
Vinyl Chloride	ND	2
Xylenes (Total)	ND	1

S = This method is only a screen for this compound.

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: SVD

Date: 1/26/04

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MDP

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B

Client Name: LFR Levine-Fricke
Client Project ID: Springfield St. School
Client Sample ID: ATC-3
Date Sampled: 1/22/04
Analyst: SVD
Date Analyzed: 1/23/04

ESS Project ID: 04010232
ESS Sample ID: 04010232-02
Units: µg/L
Dilution: 1
Percent Solid: N/A
Sample Amount: 10 ml

Test Name	Result	MRL
1,1,1,2-Tetrachloroethane	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	0.5
1,1,2-Trichloroethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,3-Trichloropropane	ND	1
1,2,4-Trichlorobenzene	ND	1
1,2,4-Trimethylbenzene	ND	1
1,2-Dibromo-3-Chloropropane	ND	2
1,2-Dibromoethane	ND	1
1,2-Dichlorobenzene	ND	1
1,2-Dichloroethane	ND	1
1,2-Dichloropropane	ND	1
1,3,5-Trimethylbenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,3-Dichloropropane	ND	1
1,4-Dichlorobenzene	ND	1
1,4-Dioxane	ND S	500
1-Chlorohexane	ND	1
2,2-Dichloropropane	ND	1
2-Butanone	ND	25
2-Chlorotoluene	ND	1
2-Hexanone	ND	10
4-Chlorotoluene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-Pentanone	ND	10
Acetone	ND	25
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	2
Carbon Disulfide	ND	1

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Project ID: Springfield St. School
Client Sample ID: ATC-3

ESS Project ID: 04010232
ESS Sample ID: 04010232-02

Test Name	Result	MRL
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chloroethane	ND	2
Chloroform	ND	1
Chloromethane	ND	2
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	0.5
Di-isopropyl ether	ND	1
Dibromochloromethane	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	2
Diethyl Ether	ND	1
Ethyl tertiary-butyl ether	ND	1
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	0.6
Isopropylbenzene	ND	1
Methyl tert-Butyl Ether	ND	1
Methylene Chloride	ND	5
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
Tertiary-amyl methyl ether	ND	1
Tetrachloroethene	ND	1
Tetrahydrofuran	ND	5
Toluene	3.03	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropene	ND	0.5
Trichloroethene	ND	1
Trichlorofluoromethane	ND	2
Vinyl Acetate	ND	5
Vinyl Chloride	ND	2
Xylenes (Total)	ND	1

S = This method is only a screen for this compound.
MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: JWD

Date: 1/26/04

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MDP

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B

Client Name: LFR Levine-Fricke
Client Project ID: Springfield St. School
Client Sample ID: ATC-4
Date Sampled: 1/22/04
Analyst: SVD
Date Analyzed: 1/23/04

ESS Project ID: 04010232
ESS Sample ID: 04010232-03
Units: µg/L
Dilution: 1
Percent Solid: N/A
Sample Amount: 10 ml

Test Name	Result	MRL
1,1,1,2-Tetrachloroethane	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	0.5
1,1,2-Trichloroethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,3-Trichloropropane	ND	1
1,2,4-Trichlorobenzene	ND	1
1,2,4-Trimethylbenzene	ND	1
1,2-Dibromo-3-Chloropropane	ND	2
1,2-Dibromoethane	ND	1
1,2-Dichlorobenzene	ND	1
1,2-Dichloroethane	ND	1
1,2-Dichloropropane	ND	1
1,3,5-Trimethylbenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,3-Dichloropropane	ND	1
1,4-Dichlorobenzene	ND	1
1,4-Dioxane	ND S	500
1-Chlorohexane	ND	1
2,2-Dichloropropane	ND	1
2-Butanone	ND	25
2-Chlorotoluene	ND	1
2-Hexanone	ND	10
4-Chlorotoluene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-Pentanone	ND	10
Acetone	ND	25
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	2
Carbon Disulfide	ND	1

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Project ID: Springfield St. School
Client Sample ID: ATC-4

ESS Project ID: 04010232
ESS Sample ID: 04010232-03

Test Name	Result	MRL
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chloroethane	ND	2
Chloroform	ND	1
Chloromethane	ND	2
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	0.5
Di-isopropyl ether	ND	1
Dibromochloromethane	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	2
Diethyl Ether	ND	1
Ethyl tertiary-butyl ether	ND	1
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	0.6
Isopropylbenzene	ND	1
Methyl tert-Butyl Ether	1.06	1
Methylene Chloride	ND	5
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
Tertiary-amyl methyl ether	ND	1
Tetrachloroethene	ND	1
Tetrahydrofuran	ND	5
Toluene	ND	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropene	ND	0.5
Trichloroethene	ND	1
Trichlorofluoromethane	ND	2
Vinyl Acetate	ND	5
Vinyl Chloride	ND	2
Xylenes (Total)	ND	1

S = This method is only a screen for this compound.
MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: SW

Date: 1/26/04

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MDP

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B

Client Name: LFR Levine-Fricke
Client Project ID: Springfield St. School
Client Sample ID: ATC-5
Date Sampled: 1/22/04
Analyst: SVD
Date Analyzed: 1/23/04

ESS Project ID: 04010232
ESS Sample ID: 04010232-04
Units: µg/L
Dilution: 1
Percent Solid: N/A
Sample Amount: 10 ml

Test Name	Result	MRL
1,1,1,2-Tetrachloroethane	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	0.5
1,1,2-Trichloroethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,3-Trichloropropane	ND	1
1,2,4-Trichlorobenzene	ND	1
1,2,4-Trimethylbenzene	ND	1
1,2-Dibromo-3-Chloropropane	ND	2
1,2-Dibromoethane	ND	1
1,2-Dichlorobenzene	ND	1
1,2-Dichloroethane	ND	1
1,2-Dichloropropane	ND	1
1,3,5-Trimethylbenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,3-Dichloropropane	ND	1
1,4-Dichlorobenzene	ND	1
1,4-Dioxane	ND S	500
1-Chlorohexane	ND	1
2,2-Dichloropropane	ND	1
2-Butanone	ND	25
2-Chlorotoluene	ND	1
2-Hexanone	ND	10
4-Chlorotoluene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-Pentanone	ND	10
Acetone	ND	25
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	2
Carbon Disulfide	ND	1

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Project ID: Springfield St. School
Client Sample ID: ATC-5

ESS Project ID: 04010232
ESS Sample ID: 04010232-04

Test Name	Result	MRL
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chloroethane	ND	2
Chloroform	ND	1
Chloromethane	ND	2
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	0.5
Di-isopropyl ether	ND	1
Dibromochloromethane	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	2
Diethyl Ether	ND	1
Ethyl tertiary-butyl ether	ND	1
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	0.6
Isopropylbenzene	ND	1
Methyl tert-Butyl Ether	ND	1
Methylene Chloride	ND	5
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
Tertiary-amyl methyl ether	ND	1
Tetrachloroethene	ND	1
Tetrahydrofuran	ND	5
Toluene	ND	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropene	ND	0.5
Trichloroethene	ND	1
Trichlorofluoromethane	ND	2
Vinyl Acetate	ND	5
Vinyl Chloride	ND	2
Xylenes (Total)	ND	1

S = This method is only a screen for this compound.
MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: JW

Date: 1/26/04

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MDP

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B

Client Name: LFR Levine-Fricke
Client Project ID: Springfield St. School
Client Sample ID: Trip Blank
Date Sampled: 1/22/04
Analyst: SVD
Date Analyzed: 1/23/04

ESS Project ID: 04010232
ESS Sample ID: 04010232-05
Units: µg/L
Dilution: 1
Percent Solid: N/A
Sample Amount: 10 ml

Test Name	Result	MRL
1,1,1,2-Tetrachloroethane	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	0.5
1,1,2-Trichloroethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,3-Trichloropropane	ND	1
1,2,4-Trichlorobenzene	ND	1
1,2,4-Trimethylbenzene	ND	1
1,2-Dibromo-3-Chloropropane	ND	2
1,2-Dibromoethane	ND	1
1,2-Dichlorobenzene	ND	1
1,2-Dichloroethane	ND	1
1,2-Dichloropropane	ND	1
1,3,5-Trimethylbenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,3-Dichloropropane	ND	1
1,4-Dichlorobenzene	ND	1
1,4-Dioxane	ND S	500
1-Chlorohexane	ND	1
2,2-Dichloropropane	ND	1
2-Butanone	ND	25
2-Chlorotoluene	ND	1
2-Hexanone	ND	10
4-Chlorotoluene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-Pentanone	ND	10
Acetone	ND	25
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	2
Carbon Disulfide	ND	1

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Project ID: Springfield St. School
Client Sample ID: Trip Blank

ESS Project ID: 04010232
ESS Sample ID: 04010232-05

Test Name	Result	MRL
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chloroethane	ND	2
Chloroform	ND	1
Chloromethane	ND	2
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	0.5
Di-isopropyl ether	ND	1
Dibromochloromethane	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	2
Diethyl Ether	ND	1
Ethyl tertiary-butyl ether	ND	1
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	0.6
Isopropylbenzene	ND	1
Methyl tert-Butyl Ether	ND	1
Methylene Chloride	ND	5
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
Tertiary-amyl methyl ether	ND	1
Tetrachloroethene	ND	1
Tetrahydrofuran	ND	5
Toluene	ND	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropene	ND	0.5
Trichloroethene	ND	1
Trichlorofluoromethane	ND	2
Vinyl Acetate	ND	5
Vinyl Chloride	ND	2
Xylenes (Total)	ND	1

S = This method is only a screen for this compound.
MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: SW

Date: 1/26/04

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MDP

QUALITY CONTROL SECTION

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B Surrogate Report

Client Name: LFR Levine-Fricke

Client Project ID: Springfield St. School

ESS Project ID: 04010232

Lab ID (Dilution Factor)	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
04010232-01 (1x)	90	92	99
04010232-02 (1x)	90	92	97
04010232-03 (1x)	89	92	97
04010232-04 (1x)	88	92	97
04010232-05 (1x)	89	92	96
VAMH012304B1 (1x)	88	92	97
VAMH012304C1 (1x)	103	99	99

Surrogate	Limits
1,2-Dichloroethane-d4	70 - 130
Toluene-d8	70 - 130
4-Bromofluorobenzene	70 - 130

Approved by: SW

Date: 1/26/04

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B

Client Name: LFR Levine-Fricke
Client Project ID: Springfield St. School
Client Sample ID: Method Blank
Date Sampled: N/A
Analyst: SVD
Date Analyzed: 1/23/04

ESS Project ID: 04010232
ESS Sample ID: VAMH012304B1
Units: µg/L
Dilution: 1
Percent Solid: N/A
Sample Amount: 10 ml

Test Name	Result	MRL
1,1,1,2-Tetrachloroethane	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	0.5
1,1,2-Trichloroethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,1-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,3-Trichloropropane	ND	1
1,2,4-Trichlorobenzene	ND	1
1,2,4-Trimethylbenzene	ND	1
1,2-Dibromo-3-Chloropropane	ND	2
1,2-Dibromoethane	ND	1
1,2-Dichlorobenzene	ND	1
1,2-Dichloroethane	ND	1
1,2-Dichloropropane	ND	1
1,3,5-Trimethylbenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,3-Dichloropropane	ND	1
1,4-Dichlorobenzene	ND	1
1,4-Dioxane	ND S	500
1-Chlorohexane	ND	1
2,2-Dichloropropane	ND	1
2-Butanone	ND	25
2-Chlorotoluene	ND	1
2-Hexanone	ND	10
4-Chlorotoluene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-Pentanone	ND	10
Acetone	ND	25
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	2
Carbon Disulfide	ND	1

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Project ID: Springfield St. School
Client Sample ID: Method Blank

ESS Project ID: 04010232
ESS Sample ID: VAMH012304B1

Test Name	Result	MRL
Carbon Tetrachloride	ND	1
Chlorobenzene	ND	1
Chloroethane	ND	2
Chloroform	ND	1
Chloromethane	ND	2
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	0.5
Di-isopropyl ether	ND	1
Dibromochloromethane	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	2
Diethyl Ether	ND	1
Ethyl tertiary-butyl ether	ND	1
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	0.6
Isopropylbenzene	ND	1
Methyl tert-Butyl Ether	ND	1
Methylene Chloride	ND	5
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
Tertiary-amyl methyl ether	ND	1
Tetrachloroethene	ND	1
Tetrahydrofuran	ND	5
Toluene	ND	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropene	ND	0.5
Trichloroethene	ND	1
Trichlorofluoromethane	ND	2
Vinyl Acetate	ND	5
Vinyl Chloride	ND	2
Xylenes (Total)	ND	1

S = This method is only a screen for this compound.
MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: JW

Date: 1/26/04

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

EPA Method 8260B

Client Name: LFR Levine-Fricke
Client Project ID: Springfield St. School
Client Sample ID: Laboratory Control Sample
Date Sampled: N/A
Analyst: SVD
Date Analyzed: 1/23/04

ESS Project ID: 04010232
ESS Sample ID: VAMH012304C1
Units: µg/L
Dilution: 1
Percent Solid: N/A
Sample Amount: 10 ml

Compound	Spike Added	LCS Concentration	LCS Percent Recovery	QC Recovery Limits
1,1,1,2-Tetrachloroethane	25	25.4	102	70-130
1,1,1-Trichloroethane	25	25.8	103	70-130
1,1,2,2-Tetrachloroethane	25	25.4	102	70-130
1,1,2-Trichloroethane	25	24.4	98	70-130
1,1-Dichloroethane	25	24.5	98	70-130
1,1-Dichloroethene	25	29	116	70-130
1,1-Dichloropropene	25	25.9	104	70-130
1,2,3-Trichlorobenzene	25	23.8	95	70-130
1,2,3-Trichloropropane	25	20	80	70-130
1,2,4-Trichlorobenzene	25	24.8	99	70-130
1,2,4-Trimethylbenzene	25	23.2	93	70-130
1,2-Dibromo-3-Chloropropane	25	23.1	92	70-130
1,2-Dibromoethane	25	26	104	70-130
1,2-Dichlorobenzene	25	25.5	102	70-130
1,2-Dichloroethane	25	26.9	108	70-130
1,2-Dichloropropane	25	24.8	99	70-130
1,3,5-Trimethylbenzene	25	23.8	95	70-130
1,3-Dichlorobenzene	25	23.9	96	70-130
1,3-Dichloropropane	25	24.4	98	70-130
1,4-Dichlorobenzene	25	24.3	97	70-130
1,4-Dioxane	500	230 J	46+	70-130
1-Chlorohexane	25	25	100	70-130
2,2-Dichloropropane	25	23.6	94	70-130
2-Butanone	25	25.6	102	70-130
2-Chlorotoluene	25	19.6	78	70-130
2-Hexanone	25	25	100	70-130
4-Chlorotoluene	25	22.8	91	70-130
4-Isopropyltoluene	25	23.6	94	70-130
4-Methyl-2-Pentanone	25	27.2	109	70-130
Acetone	25	23.8 J	95	70-130
Benzene	25	25.3	101	70-130
Bromobenzene	25	26.4	106	70-130
Bromochloromethane	25	28.1	112	70-130
Bromodichloromethane	25	26.1	104	70-130
Bromoform	25	23.1	92	70-130
Bromomethane	25	25.6	102	70-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Project ID: Springfield St. School
Client Sample ID: Laboratory Control Sample

ESS Project ID: 04010232
ESS Sample ID: VAMH012304C1

Compound	Spike Added	LCS Concentration	LCS Percent Recovery	QC Recovery Limits
Carbon Disulfide	25	26.8	107	70-130
Carbon Tetrachloride	25	24.5	98	70-130
Chlorobenzene	25	23.8	95	70-130
Chloroethane	25	25.2	101	70-130
Chloroform	25	24.3	97	70-130
Chloromethane	25	27.6	110	70-130
cis-1,2-Dichloroethene	25	25.9	104	70-130
cis-1,3-Dichloropropene	25	24.6	98	70-130
Di-isopropyl ether	25	24.5	98	70-130
Dibromochloromethane	25	27.1	108	70-130
Dibromomethane	25	24.5	98	70-130
Dichlorodifluoromethane	25	25.7	103	70-130
Diethyl Ether	25	24.9	100	70-130
Ethyl tertiary-butyl ether	25	24.7	99	70-130
Ethylbenzene	25	24.1	96	70-130
Hexachlorobutadiene	25	26.6	106	70-130
Isopropylbenzene	25	27.1	108	70-130
Methyl tert-Butyl Ether	50	49.4	99	70-130
Methylene Chloride	25	25.5	102	70-130
n-Butylbenzene	25	23	92	70-130
n-Propylbenzene	25	24.5	98	70-130
Naphthalene	25	24.4	98	70-130
sec-Butylbenzene	25	22	88	70-130
Styrene	25	24.9	100	70-130
tert-Butylbenzene	25	22.9	92	70-130
Tertiary-amyl methyl ether	25	24.2	97	70-130
Tetrachloroethene	25	26.8	107	70-130
Tetrahydrofuran	25	26	104	70-130
Toluene	25	24.4	98	70-130
trans-1,2-Dichloroethene	25	27.4	110	70-130
trans-1,3-Dichloropropene	25	26.2	105	70-130
Trichloroethene	25	25.7	103	70-130
Trichlorofluoromethane	25	32	128	70-130
Vinyl Acetate	25	20.5	82	70-130
Vinyl Chloride	25	27.1	108	70-130
Xylenes (Total)	75	74.8	100	70-130

J = Reported below MRL; Estimated value.

+ = Outside QC Limits.

MDL = Method Detection Limit.

MRL = Method Reporting Limit.

ND = Not Detected above MDL.

Approved By: JUD

Date: 1/26/04

Page 2 of 2

MDP

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP):
Drinking Water: 242400-C
Wastewater: 242400-D

New York (NELAP): 11313
Potable Water
Non Potable Water
Solid and Hazardous Waste

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP) RI002
Potable Water
Non Potable Water
Solid and Hazardous Waste

Maryland: 301
Potable Water

Pennsylvania: 68-934

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Reporting Limits
 Electronic Deliverable 04010232
 Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

Turn Time Standard Other ___
 If faster than 5 days, prior approval by laboratory is required # ___
 State where samples were collected from:
 MA RI NH NY ME Other ___
 Is this project for any of the following: USACE ___ Navy ___ Other ___

Co. Name	Project #	Project Name (20 Char. or less)	Number of Containers	Type of Containers	8100 TPH DRO	8015 VPH w/Targets	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg					
LFR LeVine Frucke	081-1215Z	Springfield St. School	2	V	8100 TPH DRO	8015 VPH w/Targets	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg					
Contact Person Donna Pallister	Address 250 Centerville Rd	PO#															
City Vocauwick	State RI	Zip 02884															
Telephone # 401-738-3887	Fax # 401-732-1686	Email Address Donna.Pallister@r.com															
ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (25 Char. or less)	Number of Containers	Type of Containers	8100 TPH DRO	8015 VPH w/Targets	EPH w/PAHs & Diesel	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg
1	1/22/04	1315				ATC-1	2	V	8100 TPH DRO	8015 VPH w/Targets	EPH w/PAHs & Diesel	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg
2		1430				ATC-3	2	V	8100 TPH DRO	8015 VPH w/Targets	EPH w/PAHs & Diesel	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg
3		1145				ATC-4	2	V	8100 TPH DRO	8015 VPH w/Targets	EPH w/PAHs & Diesel	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg
4		1000				ATC-5	1	V	8100 TPH DRO	8015 VPH w/Targets	EPH w/PAHs & Diesel	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg
5						Trip Blank	1	V	8100 TPH DRO	8015 VPH w/Targets	EPH w/PAHs & Diesel	8081 PCB Pesticides	8082 PCB Pesticides	8270 PAH	RCA5 RCR8 PP13 TAL23	TCLP-RCR8 NBC7	MCP-METALS (13) w/Hg

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No ___
 Seals Intact Yes No NA: ___
 Cooler Temp: 2.00

Internal Use Only
 Prekup
 Technicians

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Christi Tiffney</i>	12/04/1025	<i>Ch... 12/3/04</i>	10:55 AM
		<i>Ch... 11/23/04</i>	11:49 AM

Attachment 3

Laboratory Certificates for Soil Gas



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

REPORT DATE 1/27/2004

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

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-76507
JOB NUMBER: -

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

PROJECT LOCATION: SPRINGFIELD ST.SCHOOL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MPL-6	04B01800	AIR	NOT SPECIFIED	to-14 ppbv
MPL-6	04B01800	AIR	NOT SPECIFIED	to-14 ug/m3
WB-2	04B01801	AIR	NOT SPECIFIED	to-14 ppbv
WB-2	04B01801	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 2516
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036
NEW YORK ELAP 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 1/27/04
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director

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

1/27/2004
 Page 1 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL
 Date Received: 1/22/2004

LIMS-BAT #: LIMS-76507
 Job Number: -

Field Sample #: MPL-6

Sample ID: 04B01800

Sampled: 1/22/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	01/23/04	SMS	0.5			
Bromomethane	PPBv	ND	01/23/04	SMS	0.5			
Carbon Tetrachloride	PPBv	ND	01/23/04	SMS	0.5			
Chlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
Chloroethane	PPBv	ND	01/23/04	SMS	0.5			
Chloroform	PPBv	ND	01/23/04	SMS	0.5			
Chloromethane	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dibromoethane	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
1,3-Dichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
1,4-Dichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
Dichlorodifluoromethane	PPBv	ND	01/23/04	SMS	0.5			
1,1-Dichloroethane	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichloroethane	PPBv	ND	01/23/04	SMS	0.5			
1,1-Dichloroethylene	PPBv	ND	01/23/04	SMS	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichloropropane	PPBv	ND	01/23/04	SMS	0.5			
cis-1,3-Dichloropropene	PPBv	ND	01/23/04	SMS	0.5			
trans-1,3-Dichloropropene	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/23/04	SMS	0.5			
Ethylbenzene	PPBv	ND	01/23/04	SMS	0.5			
Hexachlorobutadiene	PPBv	ND	01/23/04	SMS	0.5			
Methylene Chloride	PPBv	ND	01/23/04	SMS	0.5			
Styrene	PPBv	ND	01/23/04	SMS	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/23/04	SMS	0.5			
Tetrachloroethylene	PPBv	ND	01/23/04	SMS	0.5			
Toluene	PPBv	1.2	01/23/04	SMS	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
1,1,1-Trichloroethane	PPBv	ND	01/23/04	SMS	0.5			
1,1,2-Trichloroethane	PPBv	ND	01/23/04	SMS	0.5			

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

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

1/27/2004
 Page 2 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL

LIMS-BAT #: LIMS-76507

Date Received: 1/22/2004

Job Number: -

Field Sample #: MPL-6

Sample ID : 04B01800

Sampled : 1/22/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	ND	01/23/04	SMS	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/23/04	SMS	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/23/04	SMS	0.5			
1,2,4-Trimethylbenzene	PPBv	ND	01/23/04	SMS	0.5			
1,3,5-Trimethylbenzene	PPBv	ND	01/23/04	SMS	0.5			
Vinyl Chloride	PPBv	ND	01/23/04	SMS	0.5			
m/p-Xylene	PPBv	ND	01/23/04	SMS	0.5			
o-Xylene	PPBv	ND	01/23/04	SMS	0.5			

Analytical Method:

EPA TO-14A

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

RL = Reporting Limit

ND = Not Detected

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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

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

1/27/2004
 Page 3 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL
 Date Received: 1/22/2004

LIMS-BAT #: LIMS-76507
 Job Number: -

Field Sample #: **WB-2**

Sample ID : **04B01801**

Sampled : 1/22/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	ND	01/23/04	SMS	0.5			
Bromomethane	PPBv	ND	01/23/04	SMS	0.5			
Carbon Tetrachloride	PPBv	ND	01/23/04	SMS	0.5			
Chlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
Chloroethane	PPBv	ND	01/23/04	SMS	0.5			
Chloroform	PPBv	ND	01/23/04	SMS	0.5			
Chloromethane	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dibromoethane	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
1,3-Dichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
1,4-Dichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
Dichlorodifluoromethane	PPBv	ND	01/23/04	SMS	0.5			
1,1-Dichloroethane	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichloroethane	PPBv	ND	01/23/04	SMS	0.5			
1,1-Dichloroethylene	PPBv	ND	01/23/04	SMS	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichloropropane	PPBv	ND	01/23/04	SMS	0.5			
cis-1,3-Dichloropropene	PPBv	ND	01/23/04	SMS	0.5			
trans-1,3-Dichloropropene	PPBv	ND	01/23/04	SMS	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/23/04	SMS	0.5			
Ethylbenzene	PPBv	ND	01/23/04	SMS	0.5			
Hexachlorobutadiene	PPBv	ND	01/23/04	SMS	0.5			
Methylene Chloride	PPBv	1.2	01/23/04	SMS	0.5			
Styrene	PPBv	ND	01/23/04	SMS	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/23/04	SMS	0.5			
Tetrachloroethylene	PPBv	ND	01/23/04	SMS	0.5			
Toluene	PPBv	1.2	01/23/04	SMS	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	01/23/04	SMS	0.5			
1,1,1-Trichloroethane	PPBv	ND	01/23/04	SMS	0.5			
1,1,2-Trichloroethane	PPBv	ND	01/23/04	SMS	0.5			

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

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

1/27/2004
 Page 4 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL
 Date Received: 1/22/2004

LIMS-BAT #: LIMS-76507
 Job Number: -

Field Sample #: **WB-2**

Sample ID : **04B01801**

Sampled : 1/22/2004
 NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	ND	01/23/04	SMS	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/23/04	SMS	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/23/04	SMS	0.5			
1,2,4-Trimethylbenzene	PPBv	ND	01/23/04	SMS	0.5			
1,3,5-Trimethylbenzene	PPBv	ND	01/23/04	SMS	0.5			
Vinyl Chloride	PPBv	ND	01/23/04	SMS	0.5			
m/p-Xylene	PPBv	ND	01/23/04	SMS	0.5			
o-Xylene	PPBv	ND	01/23/04	SMS	0.5			

Analytical Method:
 EPA TO-14A

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

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

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

1/27/2004
 Page 5 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL
 Date Received: 1/22/2004
 Field Sample #: MPL-6

LIMS-BAT #: LIMS-76507
 Job Number: -

Sample ID : 04B01800 Sampled : 1/22/2004
 NOT SPECIFIED
 Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	ug/m3	ND	01/23/04	SMS	1.6			
Bromomethane	ug/m3	ND	01/23/04	SMS	1.9			
Carbon Tetrachloride	ug/m3	ND	01/23/04	SMS	3.1			
Chlorobenzene	ug/m3	ND	01/23/04	SMS	2.3			
Chloroethane	ug/m3	ND	01/23/04	SMS	1.3			
Chloroform	ug/m3	ND	01/23/04	SMS	2.4			
Chloromethane	ug/m3	ND	01/23/04	SMS	1.0			
1,2-Dibromoethane	ug/m3	ND	01/23/04	SMS	3.8			
1,2-Dichlorobenzene	ug/m3	ND	01/23/04	SMS	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/23/04	SMS	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/23/04	SMS	3.0			
Dichlorodifluoromethane	ug/m3	ND	01/23/04	SMS	2.5			
1,1-Dichloroethane	ug/m3	ND	01/23/04	SMS	2.0			
1,2-Dichloroethane	ug/m3	ND	01/23/04	SMS	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/23/04	SMS	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/23/04	SMS	2.0			
1,2-Dichloropropane	ug/m3	ND	01/23/04	SMS	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/23/04	SMS	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/23/04	SMS	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/23/04	SMS	3.5			
Ethylbenzene	ug/m3	ND	01/23/04	SMS	2.2			
Hexachlorobutadiene	ug/m3	ND	01/23/04	SMS	5.3			
Methylene Chloride	ug/m3	ND	01/23/04	SMS	1.7			
Styrene	ug/m3	ND	01/23/04	SMS	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/23/04	SMS	3.4			
Tetrachloroethylene	ug/m3	ND	01/23/04	SMS	3.4			
Toluene	ug/m3	4.6	01/23/04	SMS	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/23/04	SMS	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/23/04	SMS	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/23/04	SMS	2.7			

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

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

1/27/2004
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Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL

LIMS-BAT #: LIMS-76507

Date Received: 1/22/2004

Job Number: -

Field Sample #: MPL-6

Sample ID: 04B01800

Sampled: 1/22/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	ug/m3	ND	01/23/04	SMS	2.7			
Trichlorofluoromethane	ug/m3	ND	01/23/04	SMS	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/23/04	SMS	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	01/23/04	SMS	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	01/23/04	SMS	2.5			
Vinyl Chloride	ug/m3	ND	01/23/04	SMS	1.3			
m/p-Xylene	ug/m3	ND	01/23/04	SMS	2.2			
o-Xylene	ug/m3	ND	01/23/04	SMS	2.2			

Analytical Method:

EPA TO-14A

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

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

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

1/27/2004
 Page 7 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL
 Date Received: 1/22/2004

LIMS-BAT #: LIMS-76507
 Job Number: -

Field Sample #: WB-2

Sample ID: *04B01801

Sampled: 1/22/2004
 NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	ug/m3	ND	01/23/04	SMS	1.6			
Bromomethane	ug/m3	ND	01/23/04	SMS	1.9			
Carbon Tetrachloride	ug/m3	ND	01/23/04	SMS	3.1			
Chlorobenzene	ug/m3	ND	01/23/04	SMS	2.3			
Chloroethane	ug/m3	ND	01/23/04	SMS	1.3			
Chloroform	ug/m3	ND	01/23/04	SMS	2.4			
Chloromethane	ug/m3	ND	01/23/04	SMS	1.0			
1,2-Dibromoethane	ug/m3	ND	01/23/04	SMS	3.8			
1,2-Dichlorobenzene	ug/m3	ND	01/23/04	SMS	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/23/04	SMS	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/23/04	SMS	3.0			
Dichlorodifluoromethane	ug/m3	ND	01/23/04	SMS	2.5			
1,1-Dichloroethane	ug/m3	ND	01/23/04	SMS	2.0			
1,2-Dichloroethane	ug/m3	ND	01/23/04	SMS	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/23/04	SMS	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/23/04	SMS	2.0			
1,2-Dichloropropane	ug/m3	ND	01/23/04	SMS	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/23/04	SMS	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/23/04	SMS	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/23/04	SMS	3.5			
Ethylbenzene	ug/m3	ND	01/23/04	SMS	2.2			
Hexachlorobutadiene	ug/m3	ND	01/23/04	SMS	5.3			
Methylene Chloride	ug/m3	4.1	01/23/04	SMS	1.7			
Styrene	ug/m3	ND	01/23/04	SMS	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/23/04	SMS	3.4			
Tetrachloroethylene	ug/m3	ND	01/23/04	SMS	3.4			
Toluene	ug/m3	4.6	01/23/04	SMS	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/23/04	SMS	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/23/04	SMS	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/23/04	SMS	2.7			

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

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

1/27/2004
 Page 8 of 9

Purchase Order No.:

Project Location: SPRINGFIELD ST.SCHOOL
 Date Received: 1/22/2004

LIMS-BAT #: LIMS-76507
 Job Number: -

Field Sample #: **WB-2**

Sample ID: ***04B01801**

Sampled: 1/22/2004
 NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Trichloroethylene	ug/m3	ND	01/23/04	SMS	2.7		
Trichlorofluoromethane	ug/m3	ND	01/23/04	SMS	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/23/04	SMS	3.8		
1,2,4-Trimethylbenzene	ug/m3	ND	01/23/04	SMS	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	01/23/04	SMS	2.5		
Vinyl Chloride	ug/m3	ND	01/23/04	SMS	1.3		
m/p-Xylene	ug/m3	ND	01/23/04	SMS	2.2		
o-Xylene	ug/m3	ND	01/23/04	SMS	2.2		

Analytical Method:
 EPA TO-14A

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

RL = Reporting Limit
 ND = Not Detected
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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

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

Purchase Order No.:

1/27/2004
Page 9 of 9

Project Location: SPRINGFIELD ST.SCHOOL
Date Received: 1/22/2004

LIMS-BAT #: LIMS-76507
Job Number: -

The following notes were attached to the reported analysis :

Sample ID: * 04B01801
Analysis: Methylene Chloride

METHYLENE CHLORIDE IS A COMMON LABORATORY CONTAMINANT. SEE BLANK.

** 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



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

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: 1/27/2004

Lims Bat #: LIMS-76507

Page 1 of 2

QC Batch Number: BATCH-6276

Sample Id	Analysis	QC Analysis	Values	Units	Limits
04B01800	4-Bromofluorobenzene	Surrogate Recovery	102.0	%	70-130
04B01801	4-Bromofluorobenzene	Surrogate Recovery	108.5	%	70-130
BLANK-57120	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	2.0	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
 Sample Matrix Spikes and Matrix Spike Duplicates

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

Report Date: 1/27/2004

Lims Bat #: LIMS-76507

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



(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

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

Lims# 76507

Client Name: 1st Linn Brocke Telephone: 401 738 3887
 Attn: Donna Pallestar Batch #: _____
 Address: 250 Canterbury Rd Suite 12 Project #: _____
Warwick, Rf 02886 Client P.O. #: _____
 Site Location: Springfield St. School
 Sampled By: Andrew J. Lavery
 Call Results: Yes ___ No ___ Email Format: X pdf format ___ xls format
 Fax OR Email Results: Fax#: (401) 732 1150 Email Address: Donna.Pallestar@fv.com

Total # of Containers submitted with this chain: 2

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED		Composite	Grab	MATRIX					Preservative (Use Code)	Container (Use Code)
			Start Date/Time	Stop Date/Time			WASTE WATER	GROUND WATER	DKG WATER	SOIL	Air		
MP-6	in sample	04B	1/22/04	1/22/04		X							
WB-2	in sample	01801	1/22/04	1/22/04							X		

CONTAINER CODE: P: PLASTIC (___ Size) V = 40 ml vial G = Glass (___ size) A = 1000 ml Amber 0 = Other

PRESERVATIVE CODE: I = ICED N = HNO₃ H = HCl S = NaOH T = Na₂S₂O₃ O = OTHER

If this section is not filled out, Con-Test will analyze at normal turnaround.

Turnaround Requested: ___ 24-Hour ___ 48-Hour ___ Normal ___

Received by: (Signature) [Signature] Date Time 11/22/04 15:04
 Relinquished by: (Signature) [Signature] Date Time 1/23/04 0935
 Relinquished by: (Signature) [Signature] Date Time _____

Remarks/Comments: _____

Detection Limit Requests: Regulations? _____ SIMS: Yes ___ No ___

*MATRIX OTHER _____