

April 10, 2002

Mr. Mal A. Salvatore
Sondler Salvatore and Associates
400 Reservoir Avenue
Providence, Rhode Island 02907

**Re: Third Quarter, 2001 – 2002 Academic School Year (February 2002)
Quarterly Monitoring Results
Springfield Street Schools
Providence, Rhode Island**

RECEIVED
D.E.M.
APR 11 3 32 PM '02

Dear Mr. Salvatore:

ATC has completed the third quarterly monitoring for the 2001-2002 academic year at the Springfield Street Schools located in Providence, Rhode Island. The monitoring was performed subject to the Long-Term Operation and Maintenance Plan and Site Contingency Plan (May 9, 1999). The Long-Term Operation and Maintenance Plan and Site Contingency Plan is part of the Remedial Action Work Plan dated April 2, 1999, revised May 3, 1999 and May 9, 1999, and approved by the Rhode Island Department on Environmental Management (RIDEM) on June 4, 1999.

On February 26, 27, and 28, the following monitoring processes were performed at the Springfield Street Schools: Soil Cover Monitoring, Sub Slab Ventilation System Monitoring, Soil Gas Monitoring, Groundwater Quality Monitoring, Indoor Air Quality Monitoring, and Methane Monitoring.

Soil Cover Monitoring

During construction an orange snow fence was laid as an indicator barrier. At least two feet of soil was spread over the orange snow fence to complete the cover. If the cover erodes or someone digs through the cover, the indicator barrier beneath the topsoil would become visible. Soil cover monitoring was performed to evaluate areas on-site for evidence of erosion or digging to the extent that the orange fence indicator barrier has been exposed. ATC did not observe the indicator fence exposed during the course of this monitoring episode.

Sub-Slab Ventilation System Monitoring

Monitoring of the Sub-Slab Ventilation System entailed checking all gauges, valves, and sensors; testing and evaluating the blowers; and checking and draining (if required) the moisture separators. One sample of influent and effluent gas was evaluated for the presence of methane, carbon monoxide, carbon dioxide, hydrogen sulfide, and volatile organic compounds. These constituents were not identified during the monitoring.

At the time of the inspection, all blowers were operating except for the blower located along the western portion of the Middle School. This blower was recently repaired in January 2002 after the December 2001 inspection revealed it was not running. The blower was operational from the January repair date to early February. It was repaired again in March and placed back on line on March 7th. It was operating as of the date of this report.

ATC has spoken to Janitors at both schools, who indicate that they check the blowers every day to make sure they are running. In the event that a blower is not operational, the facility personnel will contact ATC.

Soil Gas Monitoring

Twenty-nine soil gas monitoring wells were installed on-site. All wells were inspected for damage. A broken seal at well WB5 prevented monitoring of this well. All wells were sampled using an air pump and portable monitoring equipment. Approximately 30 liters of air (approximately 2 well volumes) were extracted from each well prior to sampling. The air was monitored for oxygen, hydrogen sulfide, carbon monoxide, carbon dioxide, methane, and volatile organic compounds. Refer to **Table 2** for the soil gas monitoring results.

Groundwater Quality Monitoring

Five groundwater-monitoring wells were installed in December 2000, in the northern part of the site. These wells were sampled as part of this round of monitoring. Results are included in **Table 3**.

Indoor Air Quality Monitoring

ATC inspected the methane monitors installed within the Elementary School and the Middle School. The monitors were operating at the time of our visits; however, some error messages were visible on the display panels in both buildings, indicating calibration of the some of the monitors.

On April 5, 2002, Diamond Calibration Company, calibrated the monitors. Additionally, Diamond Calibration Company and the City of Providence are entering into an agreement to perform monthly inspections of the system.

ATC used direct read instruments to monitor the Elementary School and the Middle School for the presence of hydrogen sulfide, carbon monoxide and methane during the quarter. None of these constituents were detected at any concentration during the sampling. The monitoring included prolonged evaluations at the methane monitors that were out of calibration. The prolonged evaluations did not reveal the presence of methane gas or other monitored gases.


If you have any questions regarding this letter, please contact Adam Sullivan at 401-431-2882.

Sincerely,

ATC Associates Inc.



Suzanne Feather
Environmental Scientist



Adam Sullivan
Senior Project Manager

Table 1

**Vapor Phase Effluent Results
Springfield Street Elementary and Middle Schools
Sub-Slab Ventilation Systems
Volatile Organic Compounds
February 2002**

Constituent	Elementary School	Middle School System No.1	Middle School System No.2
Hydrogen Sulfide*	0.0	0.0	0.0
Methane**	0.0%	0.0%	0.0%
Carbon Monoxide*	0.0	0.0	0.0
Carbon Dioxide**	0.0%	0.0%	0.0%
Volatile Organic Vapors*	0.0	0.0	0.0

* Analytical results are reported in Parts Per Million according to instrument readings

**Analytical results are reported in percent according to instrument readings

Table 2

**Soil Gas Survey Results
February 2002**

Soil Gas Monitoring Well Designation	Methane	Oxygen	Carbon Dioxide	Carbon Monoxide PPM	Hydrogen Sulfide PPM	Organic Vapors
WB 1	0.0%	17.1%	0.5%	0.0	2.0	<1
WB-2	0.0%	17.2%	1.0%	0.	2.0	<1
WB-3	0.0%	16.21	2.0%	0.0	1.5	<1
WB-4	0.0%	18.05	1.0%	0.0	1.0	<1
WB-5	Well Destroyed					
WB-6	0.0%	18.50	0.1%	0.0	0.1	<1
WB-7	0.0%	18.63	0.5%	0.0	0.5	<1
WB-8	0.0%	18.60	0.5%	0.0	0.2	<1
EPL-1	0.0%	18.0%	1.0%	0.0	1.0	<1
EPL-2	0.0%	18.0%	0.3%	0.0	1.0	<1
EPL-3	0.0%	16.5%	2.5%	0.0	1.0	<1
EPL-4	0.0%	16.5%	2.0%	0.0	1.0	<1
EPL-5	0.0%	16.0%	2.9%	0.0	1.0	<1
ENE-1	0.0%	15.73	3.6%	0.0	1.0	<1
MG-5	0.0%	16.5%	1.0%	0.0	1.0	<1
MG4	0.0%	16.0%	2.0%	0.0	2.0	<1
MG3	0.0%	16.0%	2.1%	0.0	1.0	<1
MG2	0.0%	16.0%	2.0%	0.0	2.0	<1
MG1	0.0%	18.0%	1.3%	0.0	2.0	<1
MPL5	0.0%	16.25%	1.1%	0.0	1.1	<1
MPL3	0.0%	18.0%	0.5%	0.0	1.1	<1
MPL2	0.0%	16.2%	2.5%	0.0	2.0	<1
WB13	0.0%	18.0%	1.0%	0.0	1.0	<1
WB14	0.0%	18.25%	0.7%	0.0	1.0	<1
WB12	0.0%	18.35%	0.1%	0.0	1.0	<1
MPL8	0.0%	18.0%	1.1%	0.0	1.5	<1
MPL7	0.0%	17.25%	1.3%	0.0	1.75	<1
MPL6	0.0%	16.25%	1.0%	0.0	1.0	<1
Remedial Action Work Plan Action Levels	0.5%	NA	1,000	9 PPM	10 PPM	5 PPM

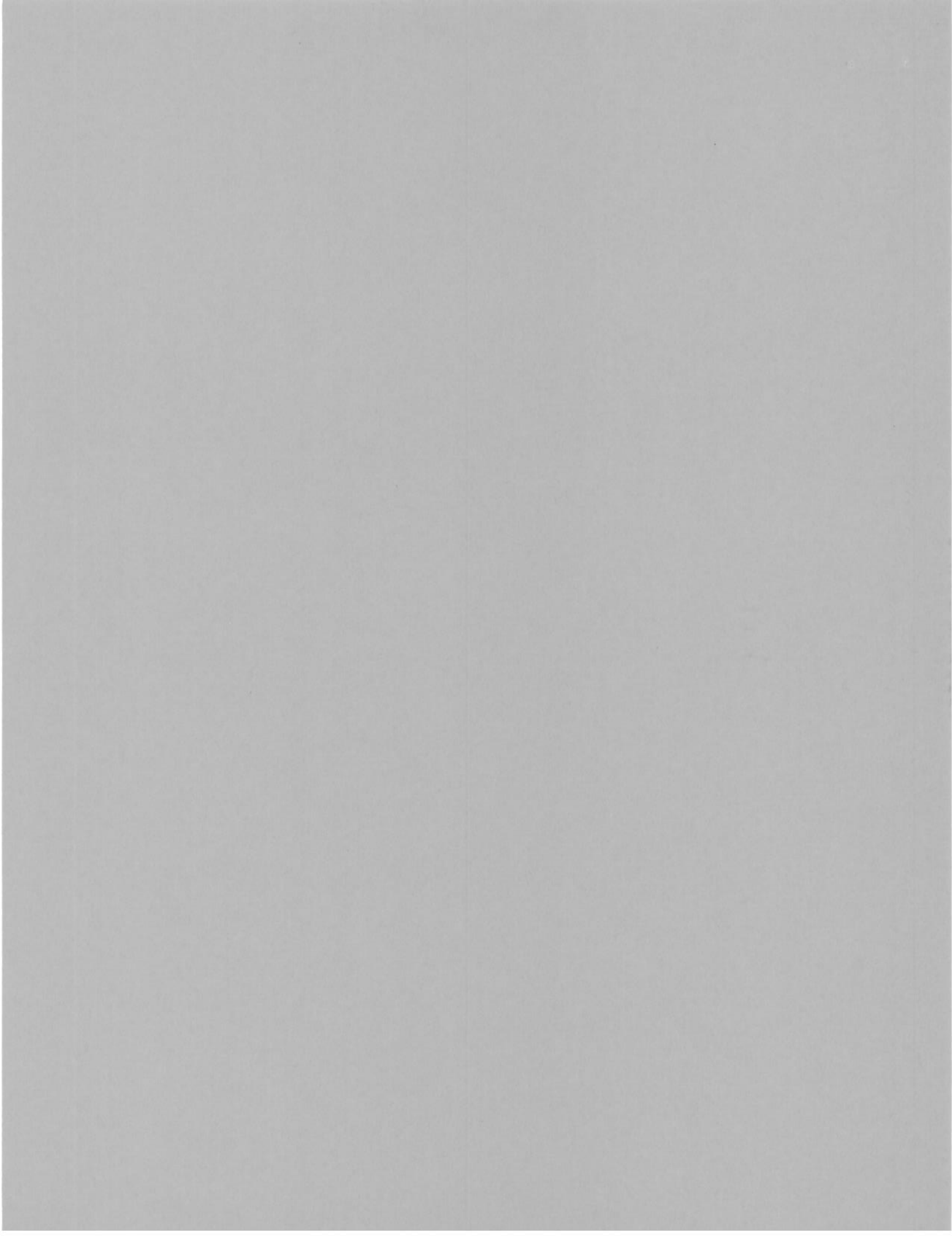
Table 2
(Continued)
Confirmatory Laboratory Analysis
Soil Gas Survey

Constituent	ENE-1*	MG-5*
Dichlorodifluoromethane	2.0	0.63
Chloromethane	<0.5	0.72
1,2-Dichlorotetrafluoroethane	1.2	ND
Trichlorofluoromethane	<0.5	0.82
Methylene Chloride	3.1	11
1,1,2 Trichlorotrifluoroethane	1.9	55
Benzene	<0.5	0.55
Trichloroethene	<0.5	<0.5
Toluene	9.3	5.5
Tetrachloroethene	8.4	<0.5
M/P Xylene	1.2	<0.5
1,1,1 Trichloroethene	1.2	<0.5
1,2,4 Trimethyl benzene	0.57	<0.5
1,4 Dichlorobenzene	0.58	<0.5

*Results above are recorded in Parts Per Billion by Volume (PPBv)

Table 3
Confirmatory Laboratory Analysis
Ground Water Results
February 2002

Constituent	ATC-1	ATC-2	ATC-3	ATC-4	ATC-5
MTBE	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	1.2 ug/l	ND
n-Butylbenzene	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	92.3 ug/l	ND
1,4-Dichlorobenzene	ND	ND	ND	17.9 ug/l	ND
Toluene	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND
Xylene	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND
Chloroform	1.5 ug/l	ND	ND	ND	ND





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

REPORT DATE 3/5/02

ATC ASSOCIATES - E PROVIDENCE
1970 PAWTUCKET AVENUE
EAST PROVIDENCE, RI 02914
ATTN: MARK WINTERS

CONTACT: MARK WINTERS
FIELD OFFICE: CR
CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-61989
JOB NUMBER: 83-17646-0007

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
ENE-1	02B05310	AIR	SOIL GAS SAMPLE	to-14
ENE-MG-5	02B05309	AIR	SOIL GAS SAMPLE	to-14

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 3/5/02

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

Results for Method To-14

Lab ID Number: 02B05309
 Client ID Number: ~~ENE-1~~
 MG-5

LIMS Number: 61989
 Date Analyzed: 3/4/02
 Analyst: HHM

Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Dichlorodifluoromethane (freon 12)	0.63	3.1	0.5	2.5
Chloromethane	0.72	1.2	0.5	0.8
1,2-Dichlorotetrafluoroethane (freon 114)	ND	ND	0.5	3.5
Vinyl Chloride	ND	ND	0.5	1.3
Bromomethane	ND	ND	0.5	1.9
Chloroethane	ND	ND	0.5	1.3
Trichlorofluoromethane (freon 11)	0.82	4.6	0.5	2.8
1,1-Dichloroethene	ND	ND	0.5	2.0
Methylene Chloride	11	38.2	0.5	1.7
1,1,2-Trichlorotrifluoroethane (freon 113)	55	418.4	0.5	3.8
1,1-Dichloroethane	ND	ND	0.5	2.0
1,2-Dichloroethene (cis)	ND	ND	0.5	2.0
Chloroform	ND	ND	0.5	2.4
1,2-Dichloroethane	ND	ND	0.5	2.0
1,1,1-Trichloroethane	ND	ND	0.5	2.7
Benzene	0.55	1.8	0.5	1.6
Carbon Tetrachloride	ND	ND	0.5	3.1
1,2-Dichloropropane	ND	ND	0.5	2.3
Trichloroethene	ND	ND	0.5	2.7
1,3-Dichloropropene (cis)	ND	ND	0.5	2.3
1,3-Dichloropropene (trans)	ND	ND	0.5	2.3
1,1,2-trichloroethane	ND	ND	0.5	2.7
Toluene	5.5	20.7	0.5	1.9
1,2-Dibromoethane	ND	ND	0.5	3.8
Tetrachloroethene	ND	ND	0.5	3.4
Chlorobenzene	ND	ND	0.5	2.3
Ethylbenzene	ND	ND	0.5	2.2
M/P-Xylene	ND	ND	0.5	2.2
Styrene	ND	ND	0.5	2.1
O-Xylene	ND	ND	0.5	2.2
1,1,2,2-tetrachloroethane	ND	ND	0.5	3.4
1,3,5-Trimethylbenzene	ND	ND	0.5	2.5
1,2,4-Trimethylbenzene	ND	ND	0.5	2.5
1,3-Dichlorobenzene	ND	ND	0.5	3.0

Results for Method To-14

Lab ID Number: 02B05309
 Client ID Number: ~~ENE-1~~ M6-5

LIMS Number: 61989
 Date Analyzed: 3/4/02
 Analyst: HHM

Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
1,4-Dichlorobenzene	ND	ND	0.5	3.0
1,2-Dichlorobenzene	ND	ND	0.5	3.0
1,2,4-Trichlorobenzene	ND	ND	0.5	3.7
Hexachlorobutadiene	ND	ND	0.5	5.3
Surrogate Recovery (4-Bromofluorobenzene)	73	%		

MDL = Minimum Detectable Limit
 ND = Not Detected
 PPBv = Parts Per Billion By Volume

Method: TO-14 (Modified)

Sampled into a Tedlar Bag. Analyzed by GCMS.

Results for Method To-14

Lab ID Number: 02B05310
 Client ID Number: ENE-1

LIMS Number: 61989
 Date Analyzed: 3/4/02
 Analyst: HHM

<u>Analyte:</u>	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
Dichlorodifluoromethane (freon 12)	2.0	9.9	0.5	2.5
Chloromethane	ND	ND	0.5	0.8
1,2-Dichlorotetrafluoroethane (freon 114)	1.2	8.3	0.5	3.5
Vinyl Chloride	ND	ND	0.5	1.3
Bromomethane	ND	ND	0.5	1.9
Chloroethane	ND	ND	0.5	1.3
Trichlorofluoromethane (freon 11)	ND	ND	0.5	2.8
1,1-Dichloroethene	ND	ND	0.5	2.0
Methylene Chloride	3.1	10.8	0.5	1.7
1,1,2-Trichlorotrifluoroethane (freon 113)	1.9	14.5	0.5	3.8
1,1-Dichloroethane	ND	ND	0.5	2.0
1,2-Dichloroethene (cis)	ND	ND	0.5	2.0
Chloroform	ND	ND	0.5	2.4
1,2-Dichloroethane	ND	ND	0.5	2.0
1,1,1-Trichloroethane	1.2	6.5	0.5	2.7
Benzene	ND	ND	0.5	1.6
Carbon Tetrachloride	ND	ND	0.5	3.1
1,2-Dichloropropane	ND	ND	0.5	2.3
Trichloroethene	ND	ND	0.5	2.7
1,3-Dichloropropene (cis)	ND	ND	0.5	2.3
1,3-Dichloropropene (trans)	ND	ND	0.5	2.3
1,1,2-trichloroethane	ND	ND	0.5	2.7
Toluene	9.3	35.0	0.5	1.9
1,2-Dibromoethane	ND	ND	0.5	3.8
Tetrachloroethene	8.4	57.0	0.5	3.4
Chlorobenzene	ND	ND	0.5	2.3
Ethylbenzene	ND	ND	0.5	2.2
M/P-Xylene	1.2	5.2	0.5	2.2
Styrene	ND	ND	0.5	2.1
O-Xylene	ND	ND	0.5	2.2
1,1,2,2-tetrachloroethane	ND	ND	0.5	3.4
1,3,5-Trimethylbenzene	ND	ND	0.5	2.5
1,2,4-Trimethylbenzene	0.57	2.8	0.5	2.5
1,3-Dichlorobenzene	ND	ND	0.5	3.0

Results for Method To-14

Lab ID Number: 02B05310
Client ID Number: ENE-1

LIMS Number: 61989
Date Analyzed: 3/4/02
Analyst: HHM

Analyte:

	Sample Results PPBv	Sample Results UG/M3	MDL PPBv	MDL UG/M3
1,4-Dichlorobenzene	0.58	3.5	0.5	3.0
1,2-Dichlorobenzene	ND	ND	0.5	3.0
1,2,4-Trichlorobenzene	ND	ND	0.5	3.7
Hexachlorobutadiene	ND	ND	0.5	5.3
Surrogate Recovery (4-Bromofluorobenzene)	76	%		

MDL = Minimum Detectable Limit
ND = Not Detected
PPBv = Parts Per Billion By Volume

Method: TO-14 (Modified)

Sampled into a Tedlar Bag. Analyzed by GCMS.



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

CHAIN OF CUSTODY RECORD

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

Client Name: ARC ASSOCIATES INC Telephone: 501-431-2882 Analysis Required

Attn: MARC GUENTHER Batch #: _____

Address: 1970 HAMMICKET AVE Project #: 83-17646-007

Site Location: EAST PROVIDENCE RI 02941 Client P.O. #: _____

Sampled By: PERMANYE RI Fax #: 1-401-431-1236

Call Results: Yes No

Fax Results: Yes No

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED Start Date/Time	DATE SAMPLED Stop Date/Time	Composite	Grab	MATRIX					Preservative (Use Code)	Container (Use Code)
							WASTE WATER	GROUND WATER	DKG WATER	Soil	Air		
MG-5	Soil GWS Sample	02B05309	1300			<input checked="" type="checkbox"/>							
ENE-1	Soil GWS Sample	05310	1310			<input checked="" type="checkbox"/>							
ENE21	(AS) Sample labels changed after reviewing site map. Site map unavailable at the time of the sampling.												

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

Received by: (Signature) Alan Pienkowski Date Time 3/1/02 10:00

Relinquished by: (Signature) _____ Date Time _____

Relinquished by: (Signature) _____ Date Time _____

Relinquished by: (Signature) _____ Date Time _____

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

Remarks/Comments: 10-14 please call 1-401-431-1236

*MATRIX OTHER _____



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

REPORT DATE 3/7/02

ATC ASSOCIATES - E PROVIDENCE
1970 PAWTUCKET AVENUE
EAST PROVIDENCE, RI 02914
ATTN: MARK WINTERS

CONTACT: MARK WINTERS
FIELD OFFICE: CR
CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-62021
JOB NUMBER: 83-17646-0007

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
ATC-1	02B05405	GRND WATER	NOT SPECIFIED	8260 water
ATC-2	02B05406	GRND WATER	NOT SPECIFIED	8260 water
ATC-3	02B05407	GRND WATER	NOT SPECIFIED	8260 water
ATC-4	02B05408	GRND WATER	NOT SPECIFIED	8260 water
ATC-5	02B05409	GRND WATER	NOT SPECIFIED	8260 water

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

AIHA 100033	AIHA ELLAP (LEAD) 100033
MASSACHUSETTS MA0100	NEW HAMPSHIRE 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 3/8/02

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director



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

MARK WINTERS
 ATC ASSOCIATES - E PROVIDENCE
 1970 PAWTUCKET AVENUE
 EAST PROVIDENCE, RI 02914

Contact Reference : MARK WINTERS
 Field Office: CR

3/7/02
 Page 1 of 16

Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample # : ATC-1

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05405
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	03/06/02	BGL	50.0		
Acrolein	ug/l	ND	03/06/02	BGL	20.0		
Acrylonitrile	ug/l	ND	03/06/02	BGL	7.6		
Benzene	ug/l	ND	03/06/02	BGL	0.6		
Bromobenzene	ug/l	ND	03/06/02	BGL	0.5		
Bromochloromethane	ug/l	ND	03/06/02	BGL	0.7		
Bromodichloromethane	ug/l	ND	03/06/02	BGL	0.4		
Bromomethane	ug/l	ND	03/06/02	BGL	1.2		
Bromoform	ug/l	ND	03/06/02	BGL	1.2		
2-Butanone (MEK)	ug/l	ND	03/06/02	BGL	12.0		
n-Butylbenzene	ug/l	ND	03/06/02	BGL	0.7		
sec-Butylbenzene	ug/l	ND	03/06/02	BGL	0.6		
tert-Butylbenzene	ug/l	ND	03/06/02	BGL	0.8		
Carbon Disulfide	ug/l	ND	03/06/02	BGL	3.0		
Carbon Tetrachloride	ug/l	ND	03/06/02	BGL	0.5		
Chlorobenzene	ug/l	ND	03/06/02	BGL	0.6		
Chlorodibromomethane	ug/l	ND	03/06/02	BGL	0.5		
Chloroethane	ug/l	ND	03/06/02	BGL	0.8		
2-Chloroethylvinylether	ug/l	ND	03/06/02	BGL	9.6		
Chloroform	ug/l	1.5	03/06/02	BGL	0.8		
Chloromethane	ug/l	ND	03/06/02	BGL	1.2		
2-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6		
4-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6		
1,2-Dibromo-3-Chloropropane	ug/l	ND	03/06/02	BGL	1.6		
1,2-Dibromoethane	ug/l	ND	03/06/02	BGL	0.7		
Dibromomethane	ug/l	ND	03/06/02	BGL	1.1		
1,2-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8		
1,3-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.6		
1,4-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8		
cis-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.4		

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

MARK WINTERS
 ATC ASSOCIATES - E PROVIDENCE
 1970 PAWTUCKET AVENUE
 EAST PROVIDENCE, RI 02914

Contact Reference : MARK WINTERS
 Field Office: CR

3/7/02
 Page 2 of 16

Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Field Sample #: ATC-1

Purchase Order No.:

Sample ID : 02B05405

Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	03/06/02	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	03/06/02	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	03/06/02	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	03/06/02	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.4			
Ethyl Benzene	ug/l	ND	03/06/02	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	03/06/02	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	03/06/02	BGL	1.3			
2-Hexanone	ug/l	ND	03/06/02	BGL	9.7			
Iodomethane	ug/l	ND	03/06/02	BGL	0.8			
Isopropylbenzene	ug/l	ND	03/06/02	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	03/06/02	BGL	0.7			
MTBE	ug/l	0.8	03/06/02	BGL	0.8			
Methylene Chloride	ug/l	ND	03/06/02	BGL	3.0			
MIBK	ug/l	ND	03/06/02	BGL	8.8			
Naphthalene	ug/l	ND	03/06/02	BGL	1.0			
n-Propylbenzene	ug/l	ND	03/06/02	BGL	0.8			
Styrene	ug/l	ND	03/06/02	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	1.4			
Tetrachloroethylene	ug/l	ND	03/06/02	BGL	0.4			
Toluene	ug/l	ND	03/06/02	BGL	0.7			

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



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

MARK WINTERS
ATC ASSOCIATES - E PROVIDENCE
1970 PAWTUCKET AVENUE
EAST PROVIDENCE, RI 02914

Contact Reference : MARK WINTERS
Field Office: CR

3/7/02
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Project Location: SPRINGFIELD ST SCHOOL
Date Received: 3/4/02
Field Sample # : ATC-1

Purchase Order No.:

LIMS-BAT #: LIMS-62021
Job Number: 83-17646-0007

Sample ID : 02B05405
Sampled : 2/28/02
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,2,3-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7			
1,1,1-Trichloroethane	ug/l	ND	03/06/02	BGL	0.9			
1,1,2-Trichloroethane	ug/l	ND	03/06/02	BGL	0.7			
Trichloroethylene	ug/l	ND	03/06/02	BGL	1.0			
Trichlorofluoromethane	ug/l	ND	03/06/02	BGL	0.7			
1,2,3-Trichloropropane	ug/l	ND	03/06/02	BGL	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	03/06/02	BGL	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	03/06/02	BGL	1.0			
Vinyl Acetate	ug/l	ND	03/06/02	BGL	16.4			
Vinyl Chloride	ug/l	ND	03/06/02	BGL	0.3			
m + p Xylene	ug/l	ND	03/06/02	BGL	1.3			
o-Xylene	ug/l	ND	03/06/02	BGL	0.5			

Analytical Method:

SW846 8260

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

RL = Reporting Limit

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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.



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Contact Reference : MARK WINTERS
 Field Office: CR

3/7/02
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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample # : ATC-2

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05406
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	03/06/02	BGL	50.0			
Acrolein	ug/l	ND	03/06/02	BGL	20.0			
Acrylonitrile	ug/l	ND	03/06/02	BGL	7.6			
Benzene	ug/l	ND	03/06/02	BGL	0.6			
Bromobenzene	ug/l	ND	03/06/02	BGL	0.5			
Bromochloromethane	ug/l	ND	03/06/02	BGL	0.7			
Bromodichloromethane	ug/l	ND	03/06/02	BGL	0.4			
Bromomethane	ug/l	ND	03/06/02	BGL	1.2			
Bromoform	ug/l	ND	03/06/02	BGL	1.2			
2-Butanone (MEK)	ug/l	ND	03/06/02	BGL	12.0			
n-Butylbenzene	ug/l	ND	03/06/02	BGL	0.7			
sec-Butylbenzene	ug/l	ND	03/06/02	BGL	0.6			
tert-Butylbenzene	ug/l	ND	03/06/02	BGL	0.8			
Carbon Disulfide	ug/l	ND	03/06/02	BGL	3.0			
Carbon Tetrachloride	ug/l	ND	03/06/02	BGL	0.5			
Chlorobenzene	ug/l	ND	03/06/02	BGL	0.6			
Chlorodibromomethane	ug/l	ND	03/06/02	BGL	0.5			
Chloroethane	ug/l	ND	03/06/02	BGL	0.8			
2-Chloroethylvinylether	ug/l	ND	03/06/02	BGL	9.6			
Chloroform	ug/l	ND	03/06/02	BGL	0.8			
Chloromethane	ug/l	ND	03/06/02	BGL	1.2			
2-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6			
4-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	03/06/02	BGL	1.6			
1,2-Dibromoethane	ug/l	ND	03/06/02	BGL	0.7			
Dibromomethane	ug/l	ND	03/06/02	BGL	1.1			
1,2-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8			
1,3-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.6			
1,4-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.4			

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Contact Reference : MARK WINTERS
 Field Office: CR
 Purchase Order No.:

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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample # : ATC-2

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05406
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	03/06/02	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	03/06/02	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	03/06/02	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	03/06/02	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.4			
Ethyl Benzene	ug/l	ND	03/06/02	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	03/06/02	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	03/06/02	BGL	1.3			
2-Hexanone	ug/l	ND	03/06/02	BGL	9.7			
Iodomethane	ug/l	ND	03/06/02	BGL	0.8			
Isopropylbenzene	ug/l	ND	03/06/02	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	03/06/02	BGL	0.7			
MTBE	ug/l	ND	03/06/02	BGL	0.8			
Methylene Chloride	ug/l	ND	03/06/02	BGL	3.0			
MIBK	ug/l	ND	03/06/02	BGL	8.8			
Naphthalene	ug/l	ND	03/06/02	BGL	1.0			
n-Propylbenzene	ug/l	ND	03/06/02	BGL	0.8			
Styrene	ug/l	ND	03/06/02	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	1.4			
Tetrachloroethylene	ug/l	ND	03/06/02	BGL	0.4			
Toluene	ug/l	ND	03/06/02	BGL	0.7			

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Contact Reference : MARK WINTERS
Field Office: CR
Purchase Order No.:

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Project Location: SPRINGFIELD ST SCHOOL
Date Received: 3/4/02
Field Sample # : ATC-2

LIMS-BAT #: LIMS-62021
Job Number: 83-17646-0007

Sample ID : 02B05406
Sampled : 2/28/02
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,2,3-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7		
1,2,4-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7		
1,1,1-Trichloroethane	ug/l	ND	03/06/02	BGL	0.9		
1,1,2-Trichloroethane	ug/l	ND	03/06/02	BGL	0.7		
Trichloroethylene	ug/l	ND	03/06/02	BGL	1.0		
Trichlorofluoromethane	ug/l	ND	03/06/02	BGL	0.7		
1,2,3-Trichloropropane	ug/l	ND	03/06/02	BGL	1.3		
1,2,4-Trimethylbenzene	ug/l	ND	03/06/02	BGL	0.7		
1,3,5-Trimethylbenzene	ug/l	ND	03/06/02	BGL	1.0		
Vinyl Acetate	ug/l	ND	03/06/02	BGL	16.4		
Vinyl Chloride	ug/l	ND	03/06/02	BGL	0.3		
m + p Xylene	ug/l	ND	03/06/02	BGL	1.3		
o-Xylene	ug/l	ND	03/06/02	BGL	0.5		

Analytical Method:

SW846 8260

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

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 Purchase Order No.:

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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample #: ATC-3

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05407
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	03/06/02	BGL	50.0		
Acrolein	ug/l	ND	03/06/02	BGL	20.0		
Acrylonitrile	ug/l	ND	03/06/02	BGL	7.6		
Benzene	ug/l	ND	03/06/02	BGL	0.6		
Bromobenzene	ug/l	ND	03/06/02	BGL	0.5		
Bromochloromethane	ug/l	ND	03/06/02	BGL	0.7		
Bromodichloromethane	ug/l	ND	03/06/02	BGL	0.4		
Bromomethane	ug/l	ND	03/06/02	BGL	1.2		
Bromoform	ug/l	ND	03/06/02	BGL	1.2		
2-Butanone (MEK)	ug/l	ND	03/06/02	BGL	12.0		
n-Butylbenzene	ug/l	ND	03/06/02	BGL	0.7		
sec-Butylbenzene	ug/l	ND	03/06/02	BGL	0.6		
tert-Butylbenzene	ug/l	ND	03/06/02	BGL	0.8		
Carbon Disulfide	ug/l	ND	03/06/02	BGL	3.0		
Carbon Tetrachloride	ug/l	ND	03/06/02	BGL	0.5		
Chlorobenzene	ug/l	ND	03/06/02	BGL	0.6		
Chlorodibromomethane	ug/l	ND	03/06/02	BGL	0.5		
Chloroethane	ug/l	ND	03/06/02	BGL	0.8		
2-Chloroethylvinylether	ug/l	ND	03/06/02	BGL	9.6		
Chloroform	ug/l	ND	03/06/02	BGL	0.8		
Chloromethane	ug/l	ND	03/06/02	BGL	1.2		
2-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6		
4-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6		
1,2-Dibromo-3-Chloropropane	ug/l	ND	03/06/02	BGL	1.6		
1,2-Dibromoethane	ug/l	ND	03/06/02	BGL	0.7		
Dibromomethane	ug/l	ND	03/06/02	BGL	1.1		
1,2-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8		
1,3-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.6		
1,4-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8		
cis-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.4		

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Contact Reference : MARK WINTERS
 Field Office: CR
 Purchase Order No.:

3/7/02
 Page 8 of 16

Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample # : ATC-3

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05407
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	03/06/02	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	03/06/02	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	03/06/02	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	03/06/02	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.4			
Ethyl Benzene	ug/l	ND	03/06/02	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	03/06/02	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	03/06/02	BGL	1.3			
2-Hexanone	ug/l	ND	03/06/02	BGL	9.7			
Iodomethane	ug/l	ND	03/06/02	BGL	0.8			
Isopropylbenzene	ug/l	ND	03/06/02	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	03/06/02	BGL	0.7			
MTBE	ug/l	ND	03/06/02	BGL	0.8			
Methylene Chloride	ug/l	ND	03/06/02	BGL	3.0			
MIBK	ug/l	ND	03/06/02	BGL	8.8			
Naphthalene	ug/l	ND	03/06/02	BGL	1.0			
n-Propylbenzene	ug/l	ND	03/06/02	BGL	0.8			
Styrene	ug/l	ND	03/06/02	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	1.4			
Tetrachloroethylene	ug/l	ND	03/06/02	BGL	0.4			
Toluene	ug/l	ND	03/06/02	BGL	0.7			

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Contact Reference : MARK WINTERS
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 Page 9 of 16

Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Field Sample # : ATC-3

Sample ID : 02B05407

Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
1,2,3-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7			
1,2,4-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7			
1,1,1-Trichloroethane	ug/l	ND	03/06/02	BGL	0.9			
1,1,2-Trichloroethane	ug/l	ND	03/06/02	BGL	0.7			
Trichloroethylene	ug/l	ND	03/06/02	BGL	1.0			
Trichlorofluoromethane	ug/l	ND	03/06/02	BGL	0.7			
1,2,3-Trichloropropane	ug/l	ND	03/06/02	BGL	1.3			
1,2,4-Trimethylbenzene	ug/l	ND	03/06/02	BGL	0.7			
1,3,5-Trimethylbenzene	ug/l	ND	03/06/02	BGL	1.0			
Vinyl Acetate	ug/l	ND	03/06/02	BGL	16.4			
Vinyl Chloride	ug/l	ND	03/06/02	BGL	0.3			
m + p Xylene	ug/l	ND	03/06/02	BGL	1.3			
o-Xylene	ug/l	ND	03/06/02	BGL	0.5			

Analytical Method:

SW846 8260

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

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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample # : ATC-4

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05408
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	03/06/02	BGL	50.0		
Acrolein	ug/l	ND	03/06/02	BGL	20.0		
Acrylonitrile	ug/l	ND	03/06/02	BGL	7.6		
Benzene	ug/l	1.2	03/06/02	BGL	0.6		
Bromobenzene	ug/l	ND	03/06/02	BGL	0.5		
Bromochloromethane	ug/l	ND	03/06/02	BGL	0.7		
Bromodichloromethane	ug/l	ND	03/06/02	BGL	0.4		
Bromomethane	ug/l	ND	03/06/02	BGL	1.2		
Bromoform	ug/l	ND	03/06/02	BGL	1.2		
2-Butanone (MEK)	ug/l	ND	03/06/02	BGL	12.0		
n-Butylbenzene	ug/l	ND	03/06/02	BGL	0.7		
sec-Butylbenzene	ug/l	ND	03/06/02	BGL	0.6		
tert-Butylbenzene	ug/l	ND	03/06/02	BGL	0.8		
Carbon Disulfide	ug/l	ND	03/06/02	BGL	3.0		
Carbon Tetrachloride	ug/l	ND	03/06/02	BGL	0.5		
Chlorobenzene	ug/l	92.3	03/06/02	BGL	0.6		
Chlorodibromomethane	ug/l	ND	03/06/02	BGL	0.5		
Chloroethane	ug/l	ND	03/06/02	BGL	0.8		
2-Chloroethylvinylether	ug/l	ND	03/06/02	BGL	9.6		
Chloroform	ug/l	ND	03/06/02	BGL	0.8		
Chloromethane	ug/l	ND	03/06/02	BGL	1.2		
2-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6		
4-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6		
1,2-Dibromo-3-Chloropropane	ug/l	ND	03/06/02	BGL	1.6		
1,2-Dibromoethane	ug/l	ND	03/06/02	BGL	0.7		
Dibromomethane	ug/l	ND	03/06/02	BGL	1.1		
1,2-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8		
1,3-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.6		
1,4-Dichlorobenzene	ug/l	17.9	03/06/02	BGL	0.8		
cis-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.4		

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Contact Reference : MARK WINTERS
 Field Office: CR
 Purchase Order No.:

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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample # : ATC-4

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05408
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	03/06/02	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	03/06/02	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	03/06/02	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	03/06/02	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.4			
Ethyl Benzene	ug/l	ND	03/06/02	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	03/06/02	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	03/06/02	BGL	1.3			
2-Hexanone	ug/l	ND	03/06/02	BGL	9.7			
Iodomethane	ug/l	ND	03/06/02	BGL	0.8			
Isopropylbenzene	ug/l	ND	03/06/02	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	03/06/02	BGL	0.7			
MTBE	ug/l	ND	03/06/02	BGL	0.8			
Methylene Chloride	ug/l	ND	03/06/02	BGL	3.0			
MIBK	ug/l	ND	03/06/02	BGL	8.8			
Naphthalene	ug/l	ND	03/06/02	BGL	1.0			
n-Propylbenzene	ug/l	ND	03/06/02	BGL	0.8			
Styrene	ug/l	ND	03/06/02	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	0.5			
1,1,1,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	1.4			
Tetrachloroethylene	ug/l	ND	03/06/02	BGL	0.4			
Toluene	ug/l	ND	03/06/02	BGL	0.7			

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Contact Reference : MARK WINTERS
Field Office: CR

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Project Location: SPRINGFIELD ST SCHOOL
Date Received: 3/4/02
Field Sample # : ATC-4

Purchase Order No.:

LIMS-BAT #: LIMS-62021
Job Number: 83-17646-0007

Sample ID : 02B05408
Sampled : 2/28/02
NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,2,3-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7		
1,2,4-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7		
1,1,1-Trichloroethane	ug/l	ND	03/06/02	BGL	0.9		
1,1,2-Trichloroethane	ug/l	ND	03/06/02	BGL	0.7		
Trichloroethylene	ug/l	ND	03/06/02	BGL	1.0		
Trichlorofluoromethane	ug/l	ND	03/06/02	BGL	0.7		
1,2,3-Trichloropropane	ug/l	ND	03/06/02	BGL	1.3		
1,2,4-Trimethylbenzene	ug/l	ND	03/06/02	BGL	0.7		
1,3,5-Trimethylbenzene	ug/l	ND	03/06/02	BGL	1.0		
Vinyl Acetate	ug/l	ND	03/06/02	BGL	16.4		
Vinyl Chloride	ug/l	ND	03/06/02	BGL	0.3		
m + p Xylene	ug/l	ND	03/06/02	BGL	1.3		
o-Xylene	ug/l	ND	03/06/02	BGL	0.5		

Analytical Method:

SW846 8260

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

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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.



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Contact Reference : MARK WINTERS
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 Purchase Order No.:

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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample #: ATC-5

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05409
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Acetone	ug/l	ND	03/06/02	BGL	50.0			
Acrolein	ug/l	ND	03/06/02	BGL	20.0			
Acrylonitrile	ug/l	ND	03/06/02	BGL	7.6			
Benzene	ug/l	ND	03/06/02	BGL	0.6			
Bromobenzene	ug/l	ND	03/06/02	BGL	0.5			
Bromochloromethane	ug/l	ND	03/06/02	BGL	0.7			
Bromodichloromethane	ug/l	ND	03/06/02	BGL	0.4			
Bromomethane	ug/l	ND	03/06/02	BGL	1.2			
Bromoform	ug/l	ND	03/06/02	BGL	1.2			
2-Butanone (MEK)	ug/l	ND	03/06/02	BGL	12.0			
n-Butylbenzene	ug/l	ND	03/06/02	BGL	0.7			
sec-Butylbenzene	ug/l	ND	03/06/02	BGL	0.6			
tert-Butylbenzene	ug/l	ND	03/06/02	BGL	0.8			
Carbon Disulfide	ug/l	ND	03/06/02	BGL	3.0			
Carbon Tetrachloride	ug/l	ND	03/06/02	BGL	0.5			
Chlorobenzene	ug/l	ND	03/06/02	BGL	0.6			
Chlorodibromomethane	ug/l	ND	03/06/02	BGL	0.5			
Chloroethane	ug/l	ND	03/06/02	BGL	0.8			
2-Chloroethylvinylether	ug/l	ND	03/06/02	BGL	9.6			
Chloroform	ug/l	ND	03/06/02	BGL	0.8			
Chloromethane	ug/l	ND	03/06/02	BGL	1.2			
2-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6			
4-Chlorotoluene	ug/l	ND	03/06/02	BGL	0.6			
1,2-Dibromo-3-Chloropropane	ug/l	ND	03/06/02	BGL	1.6			
1,2-Dibromoethane	ug/l	ND	03/06/02	BGL	0.7			
Dibromomethane	ug/l	ND	03/06/02	BGL	1.1			
1,2-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8			
1,3-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.6			
1,4-Dichlorobenzene	ug/l	ND	03/06/02	BGL	0.8			
cis-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.4			

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Contact Reference : MARK WINTERS
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3/7/02
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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample # : ATC-5

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05409
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
trans-1,4-Dichloro-2-Butene	ug/l	ND	03/06/02	BGL	2.1			
Dichlorodifluoromethane	ug/l	ND	03/06/02	BGL	1.0			
1,1-Dichloroethane	ug/l	ND	03/06/02	BGL	0.7			
1,2-Dichloroethane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.6			
cis-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,2-Dichloroethylene	ug/l	ND	03/06/02	BGL	0.8			
1,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.6			
1,3-Dichloropropane	ug/l	ND	03/06/02	BGL	0.5			
2,2-Dichloropropane	ug/l	ND	03/06/02	BGL	0.9			
1,1-Dichloropropene	ug/l	ND	03/06/02	BGL	1.4			
cis-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.5			
trans-1,3-Dichloropropene	ug/l	ND	03/06/02	BGL	0.4			
Ethyl Benzene	ug/l	ND	03/06/02	BGL	0.6			
Ethyl Methacrylate	ug/l	ND	03/06/02	BGL	0.8			
Hexachlorobutadiene	ug/l	ND	03/06/02	BGL	1.3			
2-Hexanone	ug/l	ND	03/06/02	BGL	9.7			
Iodomethane	ug/l	ND	03/06/02	BGL	0.8			
Isopropylbenzene	ug/l	ND	03/06/02	BGL	0.6			
p-Isopropyltoluene	ug/l	ND	03/06/02	BGL	0.7			
MTBE	ug/l	ND	03/06/02	BGL	0.8			
Methylene Chloride	ug/l	ND	03/06/02	BGL	3.0			
MIBK	ug/l	ND	03/06/02	BGL	8.8			
Naphthalene	ug/l	ND	03/06/02	BGL	1.0			
n-Propylbenzene	ug/l	ND	03/06/02	BGL	0.8			
Styrene	ug/l	ND	03/06/02	BGL	0.7			
1,1,1,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	0.5			
1,1,2,2-Tetrachloroethane	ug/l	ND	03/06/02	BGL	1.4			
Tetrachloroethylene	ug/l	ND	03/06/02	BGL	0.4			
Toluene	ug/l	ND	03/06/02	BGL	0.7			

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Contact Reference : MARK WINTERS
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3/7/02
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Project Location: SPRINGFIELD ST SCHOOL
 Date Received: 3/4/02
 Field Sample #: ATC-5

LIMS-BAT #: LIMS-62021
 Job Number: 83-17646-0007

Sample ID : 02B05409
 Sampled : 2/28/02
 NOT SPECIFIED

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,2,3-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7		
1,2,4-Trichlorobenzene	ug/l	ND	03/06/02	BGL	0.7		
1,1,1-Trichloroethane	ug/l	ND	03/06/02	BGL	0.9		
1,1,2-Trichloroethane	ug/l	ND	03/06/02	BGL	0.7		
Trichloroethylene	ug/l	ND	03/06/02	BGL	1.0		
Trichlorofluoromethane	ug/l	ND	03/06/02	BGL	0.7		
1,2,3-Trichloropropane	ug/l	ND	03/06/02	BGL	1.3		
1,2,4-Trimethylbenzene	ug/l	ND	03/06/02	BGL	0.7		
1,3,5-Trimethylbenzene	ug/l	ND	03/06/02	BGL	1.0		
Vinyl Acetate	ug/l	ND	03/06/02	BGL	16.4		
Vinyl Chloride	ug/l	ND	03/06/02	BGL	0.3		
m + p Xylene	ug/l	ND	03/06/02	BGL	1.3		
o-Xylene	ug/l	ND	03/06/02	BGL	0.5		

Analytical Method:

SW846 8260

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

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Contact Reference : MARK WINTERS
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3/7/02
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Project Location: SPRINGFIELD ST SCHOOL
Date Received: 3/4/02

LIMS-BAT #: LIMS-62021
Job Number: 83-17646-0007

** END OF REPORT **

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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: 3/7/02 Lims Bat #: LIMS-62021 Page 1 of 4

QC Batch Number: GCMS/VOL-7131

Sample Id	Analysis	QC Analysis	Values	Units	Limits
02B05405	1,2-Dichloroethane-d4	Surrogate Recovery	95.5	%	56-128
	Toluene-d8	Surrogate Recovery	83.3	%	65-113
	Bromofluorobenzene	Surrogate Recovery	112.9	%	62-137
02B05406	1,2-Dichloroethane-d4	Surrogate Recovery	96.8	%	56-128
	Toluene-d8	Surrogate Recovery	96.1	%	65-113
	Bromofluorobenzene	Surrogate Recovery	85.4	%	62-137
02B05407	1,2-Dichloroethane-d4	Surrogate Recovery	106.2	%	56-128
	Toluene-d8	Surrogate Recovery	97.5	%	65-113
	Bromofluorobenzene	Surrogate Recovery	103.8	%	62-137
02B05408	1,2-Dichloroethane-d4	Surrogate Recovery	103.9	%	56-128
	Toluene-d8	Surrogate Recovery	95.9	%	65-113
	Bromofluorobenzene	Surrogate Recovery	108.2	%	62-137
02B05409	1,2-Dichloroethane-d4	Surrogate Recovery	100.0	%	56-128
	Toluene-d8	Surrogate Recovery	98.9	%	65-113
	Bromofluorobenzene	Surrogate Recovery	97.6	%	62-137
BLANK-40250	Acetone	Blank	<50.0	ug/l	
	Benzene	Blank	<0.6	ug/l	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	<0.8	ug/l	
	1,2-Dichloroethane	Blank	<0.9	ug/l	
	1,4-Dichlorobenzene	Blank	<0.8	ug/l	
	Ethyl Benzene	Blank	<0.6	ug/l	
	2-Butanone (MEK)	Blank	<12.0	ug/l	
	MIBK	Blank	<8.8	ug/l	
	Naphthalene	Blank	<1.0	ug/l	
	Styrene	Blank	<0.7	ug/l	
	Tetrachloroethylene	Blank	<0.4	ug/l	
	Toluene	Blank	<0.7	ug/l	
	1,1,1-Trichloroethane	Blank	<0.9	ug/l	
	Trichloroethylene	Blank	<1.0	ug/l	
	Trichlorofluoromethane	Blank	<0.7	ug/l	
	o-Xylene	Blank	<0.5	ug/l	
	m + p Xylene	Blank	<1.3	ug/l	
	1,2-Dichlorobenzene	Blank	<0.8	ug/l	
	1,3-Dichlorobenzene	Blank	<0.6	ug/l	
1,1-Dichloroethane	Blank	<0.7	ug/l		
1,1-Dichloroethylene	Blank	<0.6	ug/l		
MTBE	Blank	<0.8	ug/l		



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates.

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/7/02

Lims Bat #: LIMS-62021

Page 2 of 4

QC Batch Number: GCMS/VOL-7131

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-40250					
	trans-1,2-Dichloroethylene	Blank	<0.8	ug/l	
	Vinyl Chloride	Blank	<0.3	ug/l	
	Methylene Chloride	Blank	<3.0	ug/l	
	Chlorobenzene	Blank	<0.6	ug/l	
	Chloromethane	Blank	<1.2	ug/l	
	Bromomethane	Blank	<1.2	ug/l	
	Chloroethane	Blank	<0.8	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.4	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethane	Blank	<0.7	ug/l	
	2-Chloroethylvinylether	Blank	<9.6	ug/l	
	Bromoform	Blank	<1.2	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<1.4	ug/l	
	2-Chlorotoluene	Blank	<0.6	ug/l	
	Hexachlorobutadiene	Blank	<1.3	ug/l	
	Isopropylbenzene	Blank	<0.6	ug/l	
	p-Isopropyltoluene	Blank	<0.7	ug/l	
	n-Propylbenzene	Blank	<0.8	ug/l	
	sec-Butylbenzene	Blank	<0.6	ug/l	
	tert-Butylbenzene	Blank	<0.8	ug/l	
	1,2,3-Trichlorobenzene	Blank	<0.7	ug/l	
	1,2,4-Trichlorobenzene	Blank	<0.7	ug/l	
	1,2,4-Trimethylbenzene	Blank	<0.7	ug/l	
	1,3,5-Trimethylbenzene	Blank	<1.0	ug/l	
	Dibromomethane	Blank	<1.1	ug/l	
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	4-Chlorotoluene	Blank	<0.6	ug/l	
	1,1-Dichloropropene	Blank	<1.4	ug/l	
	1,2-Dichloropropane	Blank	<0.6	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<0.9	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l	
	1,2,3-Trichloropropane	Blank	<1.3	ug/l	
	n-Butylbenzene	Blank	<0.7	ug/l	
	Dichlorodifluoromethane	Blank	<1.0	ug/l	
	Bromochloromethane	Blank	<0.7	ug/l	
	Bromobenzene	Blank	<0.5	ug/l	
	Iodomethane	Blank	<0.8	ug/l	
	Acrolein	Blank	<20.0	ug/l	
	Acrylonitrile	Blank	<7.6	ug/l	
	Carbon Disulfide	Blank	<3.0	ug/l	
	Vinyl Acetate	Blank	<16.4	ug/l	



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: 3/7/02

Lims Bat # : LIMS-62021

Page 3 of 4

QC Batch Number: GCMS/VOL-7131

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-40250	2-Hexanone	Blank	<9.7	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<2.1	ug/l	
	Ethyl Methacrylate	Blank	<0.8	ug/l	
	cis-1,4-Dichloro-2-Butene	Blank	<2.4	ug/l	
	Bromodichloromethane	Blank	<0.4	ug/l	
LFBLANK-19465	Benzene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	20.0	ug/l	
		Lab Fort Blk. % Rec.	100.0	%	
	Toluene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	18.3	ug/l	
		Lab Fort Blk. % Rec.	91.5	%	
	Trichloroethylene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	20.2	ug/l	
		Lab Fort Blk. % Rec.	101.0	%	
	1,1-Dichloroethylene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	18.7	ug/l	
		Lab Fort Blk. % Rec.	93.5	%	
	Chlorobenzene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	21.4	ug/l	
		Lab Fort Blk. % Rec.	107.0	%	



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CHAIN OF CUSTODY RECORD

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

Client Name: ARC ASSOCIATES INC Telephone: 401-431-2882
 Attn: MARK WINTERS Batch #: _____
 Address: 1970 PAUNOCHET AVE Project #: 83-17646-0007
EAST PROVIDENCE RI 02917
 Site Location: SPRINGFIELD ST SCHOOL Client P.O. #: _____
 Sampled By: MARK WINTERS
 Call Results: Yes No Fax #: 1-401-431-1236
 Fax Results: Yes No

LIMS 62021
Analysis Required

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		
ARC-1		02B05405	1300			✓	✓						
ARC-2		05406	1235		✓	✓	✓						
ARC-3		05407	1233		✓	✓	✓						
ARC-4		05408	1215		✓	✓	✓						
ARC-5		05409	1200		✓	✓	✓						

EPA 8260

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

Relinquished by: (Signature) [Signature] Date Time 1700 02/28/02
 Received by: (Signature) [Signature]
 Relinquished by: (Signature) [Signature] Date Time 1:00 3/4/02
 Received by: (Signature) [Signature]
 Relinquished by: (Signature) [Signature] Date Time _____
 Received by: (Signature) _____

Turnaround Requested: _____ 24-Hour _____ 48-Hour _____ Date Required Normal

REMARKS/COMMENTS: _____

*MATRIX OTHER _____

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



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: 3/7/02 Lims Bat #: LIMS-62021 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