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31 March 2010

Mr. Joseph T. Martella II, Senior Engineer
RIDEM - Office of Waste Management
Site Remediation Program
235 Promenade Street
Providence, RI 02908

RE: Quarterly O&M Status Report No. 10
Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island
Case No. 2005-029
EA Project No. 14687.01

Dear Mr. Martella:

On behalf of the City of Providence School Department (City), EA Engineering, Science, and Technology, Inc. (EA) is providing this Quarterly Operations and Maintenance (O&M) Status Report in accordance with Provision 6(f) of the Order of Approval and amendments (Amended OA) for the referenced Alvarez High School site (the Site, formerly Adelaide Avenue High School).

This O&M Report summarizes recently completed Site activities related to compliance subslab vapor and indoor air sampling from the period between December 2009 and February 2010.

If you have any questions or require additional information, please contact me at 401-736-3440, Ext. 202.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

Frank B. Postma, LSP, LEP, PG
Project Manager

cc: C. Jones, Prov. Dept. of Public Schools	A. Sepe, Prov. Dept. of Public Property
T. Deller, Prov. Redevelopment Agency	S. Fischbach, RI Legal Services
J. Fernandez, City of Prov. Law Department	J. Ryan, Partridge, Snow, & Hahn
J. Boehnert, Partridge, Snow, & Hahn	R. Dorr, Neighborhood Resident
Rep. Scott Slater	J. Pichardo, Senator
Knight Memorial Library Repository	Principal Torchon, Alvarez High School



Quarterly O&M Status Report No. 10

Summarizing Subslab Depressurization and Indoor Air Monitoring and Sampling Activities

Alvarez High School Site (Formerly Adelaide Avenue High School) Providence, Rhode Island

Prepared for

City of Providence School Department
797 Westminster Street
Providence, Rhode Island 02903

Prepared by

EA Engineering, Science, and Technology, Inc.
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Warwick, Rhode Island 02886
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March 2010
EA Project No. 14687.01

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1. INTRODUCTION AND BACKGROUND

On behalf of the City of Providence School Department (the City), EA Engineering, Science, and Technology, Inc. (EA) has prepared this Quarterly Operations and Maintenance (O&M) Status Report No. 10 for the Parcel B area of the former Gorham Manufacturing site in Providence, Rhode Island, formerly referred to as the Adelaide Avenue High School and now referred to as the Alvarez High School site (the Site). A Site Location Map is provided as Figure 1. This report has been prepared to satisfy provision 6(f) of the Rhode Island Department of Environmental Management (RIDEM) Order of Approval (OA) issued in June 2006, as amended in February 2007, July 2007, and July 2009. For the purposes of this report, the original and the amended Orders of Approval will collectively be referred to as the Amended OA.

The Amended OA specifies the details of the approved remedy for the Site including, but not limited to, the installation of a subslab depressurization (SSD) system, installation of a continuous indoor air methane monitoring system, and implementation of an associated periodic monitoring and sampling program. In August 2007, the RIDEM-approved remedy for the Site was completed and a Remedial Action Closure Report (RACR) was submitted to RIDEM. In July 2009, the periodic indoor air and subslab vapor sampling schedule was reduced to quarterly sampling from previously required monthly sampling.

This report summarizes the O&M, monitoring, and sampling activities completed at the Site for the 3-month period from December 2009 through February 2010 (Quarterly Reporting Period No. 10) and also includes an overall evaluation of volatile organic compound (VOC) concentrations within soil gas as they pertain to a potential rebound effect at the Site. Please refer to the Quarterly O&M Status Reports No. 1 through No. 9 for information regarding monitoring and sampling at the Site during the previous quarters. The RACR and previously submitted monthly correspondence contain details regarding the results of the monitoring and sampling program for the period between March and August 2007.

2. SUMMARY OF SSD SYSTEM AND INDOOR METHANE MONITORING SYSTEM PERFORMANCE

2.1 SSD SYSTEM

The following SSD System performance parameters were inspected and/or monitored at the frequencies indicated below in accordance with the Amended OA to evaluate system performance:

- Monthly subslab vacuum monitoring at 11 monitoring locations, as illustrated on the As-Built Subslab Monitoring and Sampling Plan included in Appendix C.
- Monthly inspections and monitoring of rooftop fans (air velocity and vacuum) to verify proper operation.
- Continuous electronic monitoring (with automatic alarm notification via audible signal and phone notification) at each of three SSD System extraction fans to ensure continuous operation.

All vacuum measurements taken at each interior and perimeter subslab monitoring/sampling location were between -0.02 and -0.11 in. of water column, indicating continuous negative pressure values beneath the building slab.

Inspections and monitoring of all other system equipment revealed proper system operation, and no equipment shutdowns, failures, alarms, or interruptions of any type occurred during this reporting period. The continuous, verified zone of negative pressure beneath the school's concrete slab, along with the monthly inspections and continuous monitoring of both the indoor air monitoring system and the subslab depressurization system, confirms proper operation of the SSD System during this reporting period.

Copies of O&M field forms summarizing SSD System monitoring data collected during this reporting period are provided in Appendix A.

2.2 INDOOR METHANE MONITORING SYSTEM

Indoor methane concentrations were monitored continuously by the indoor methane monitoring system from 7 January 2010 to the end of February 2010. The system is equipped with automatic alarm notification via audible signal and phone notification. However, during the September, October, and November 2009 sampling/monitoring events, EA observed that the indoor methane monitoring system power was off. EA noted the power outage, manually restarted the power during these inspections, and recorded the initial readings. The methane monitoring system was then inspected further for any other abnormalities. EA identified the uninterrupted power supply (UPS) as the cause of the temporary power outages. The UPS is a secondary power source that provides backup power to the monitoring system during primary power loss events. The UPS was replaced by EA on 7 January 2010. EA verified that the

methane monitoring system ran continuously for the following week and then mounted the UPS to the existing enclosure on 15 January 2010 during the quarterly sampling event.

In December 2009, filter discs at each of the eight continuous methane sensors were replaced in accordance with a quarterly frequency schedule. The next filter replacement is scheduled for March 2010.

EA conducted a methane reading check to each channel sensor for system reading verification during the February 2010 Monitoring Event. Each sensor was manually placed into the "Maintenance" mode and then 100 parts per million (ppm) methane calibration gas was applied to verify functionality and accuracy. All 8 location readings were satisfactory and read within $\pm 90\%$ of the calibration gas.

No other maintenance or repairs to the methane monitoring system or components were performed or required during this reporting period.

2.3 AMBIENT OUTDOOR AND INDOOR AIR SAMPLING

One outdoor ambient air sample and eight indoor air samples within the school at RIDEM-approved sampling locations were collected and analyzed for VOCs via Method TO-15 SIM (Selective Ion Monitoring) on 15 January 2010. [The outdoor ambient sample was collected from the northwest corner of the school (upwind) to ensure that system effluent was not captured in the sample.] The sampling frequency has been reduced to quarterly sampling, per Order of Approval Addendum 3 prepared by RIDEM and dated 19 July 2009. Sampling locations are shown on the Indoor Air Sampling and Methane Monitoring System Diagram provided in Appendix B. The indoor air sampling results were compared to the State of Connecticut's Draft Proposed Indoor Residential Targeted Air Concentrations (CT RTACs) in accordance with the Amended OA. The laboratory reporting limits (RLs) for several VOCs reported via TO-15 analysis, even though analyzed via the SIM procedure were greater than the respective CT RTACs. In accordance with the Amended OA, EA contacted the laboratory prior to sample analysis to verify that the RLs provided would be the lowest currently achievable limits. An RL verification letter from Alpha Analytical Laboratory is provided in Appendix E. A data summary table and copies of the laboratory data reports associated with this sampling event is provided in Appendix B. One contaminant was detected above the CT RTACs in each month of this quarter. All other compounds analyzed were below the applicable CT RTACs for all samples collected on 15 January 2010.

Carbon tetrachloride, a documented background ambient compound present at the Site, has consistently been detected in ambient outdoor air and inside the school during every sampling event completed at the Site at concentrations ranging between 0.19 to 0.77 $\mu\text{g}/\text{m}^3$. Similarly, during this reporting period the ambient outdoor and indoor air concentrations of carbon tetrachloride ranged between 0.578 and 0.616 $\mu\text{g}/\text{m}^3$. Discussions and guidance provided by the Rhode Island Department of Health, RIDEM Office of Waste Management, and RIDEM Office of Air Resources resulted in an understanding that these carbon tetrachloride results do not constitute Indoor Air Action Level exceedances for the Site since they are consistent with documented background concentrations.

2.4 SUBSLAB VAPOR SAMPLING AND EVALUATION OF POTENTIAL VOC REBOUND EFFECT

A total of 11 RIDEM-approved subslab sampling locations exist at the Site. In accordance with the Amended OA, six subslab vapor samples were collected in accordance with a RIDEM-approved (Amended OA) rotating sampling schedule and analyzed for VOCs via Method TO-15 SIM on 15 January 2010. The subslab data is summarized in Appendix D, along with copies of the laboratory data reports associated with these sampling events.

The subslab data has been evaluated and there is no evidence of increasing VOCs (i.e., VOC rebound) beneath the school in accordance with the Amended OA.

2.5 SUMMARY OF ROOFTOP VOC EMISSIONS

The Amended OA requires that rooftop VOC sampling be completed on an annual basis. The latest rooftop VOC sampling event was completed in September 2009 and was summarized in correspondence submitted to RIDEM in December 2009. Please refer to the previously submitted Quarterly Status Report No. 9 (dated December 2009) for more details regarding the rooftop VOC data. The 2010 annual rooftop effluent VOC sampling event is scheduled for July 2010 to accommodate the revised quarterly sampling schedule.

Previous rooftop effluent sampling rounds conducted in March 2007 (immediately after SSD system startup), June 2007, and June 2008 indicated compliance with all Air Pollution Control Permit Applicability Thresholds. In general, the VOC concentrations in the rooftop effluent associated with the September 2009 sampling round indicate continuance of the decreasing trend of VOC concentrations in subsurface soils and do not exceed the Air Pollution Control Permit Applicability Thresholds. Tabulation of the data and the rooftop sampling analytical report is provided as Appendix E.

2.6 CONCLUSIONS

The following conclusions are made based upon the completed inspections, monitoring, and sampling performed during this reporting period:

- Analytical results from indoor air sampling conducted this quarter indicate no contaminants present above the CT RTACs other than carbon tetrachloride, a documented background contaminant.
- Analytical results from rooftop fan effluent sampling indicate continuance of decreasing trends of subslab VOC concentrations.
- There is no evidence that soil vapor intrusion into the Alvarez High School is occurring.
- There is no evidence of VOC rebound in soil gas beneath the school.

- The continuous operation of the SSD System, with no equipment malfunctions or alarm conditions, and confirmation of continuous subslab vacuum beneath the school illustrates ongoing, effective operation of the SSD System. No soil vapor intrusion pathway exists at the school while the SSD System is operational.
- EA has investigated and resolved the periodic power outages of the indoor air methane monitoring system. EA has noted the applicable equipment maintenance, replacements, or other course of action taken to maintain effective operation of the continuous indoor methane monitoring system.
- No SSD System modifications or other actions to address current site conditions are warranted or proposed at this time.

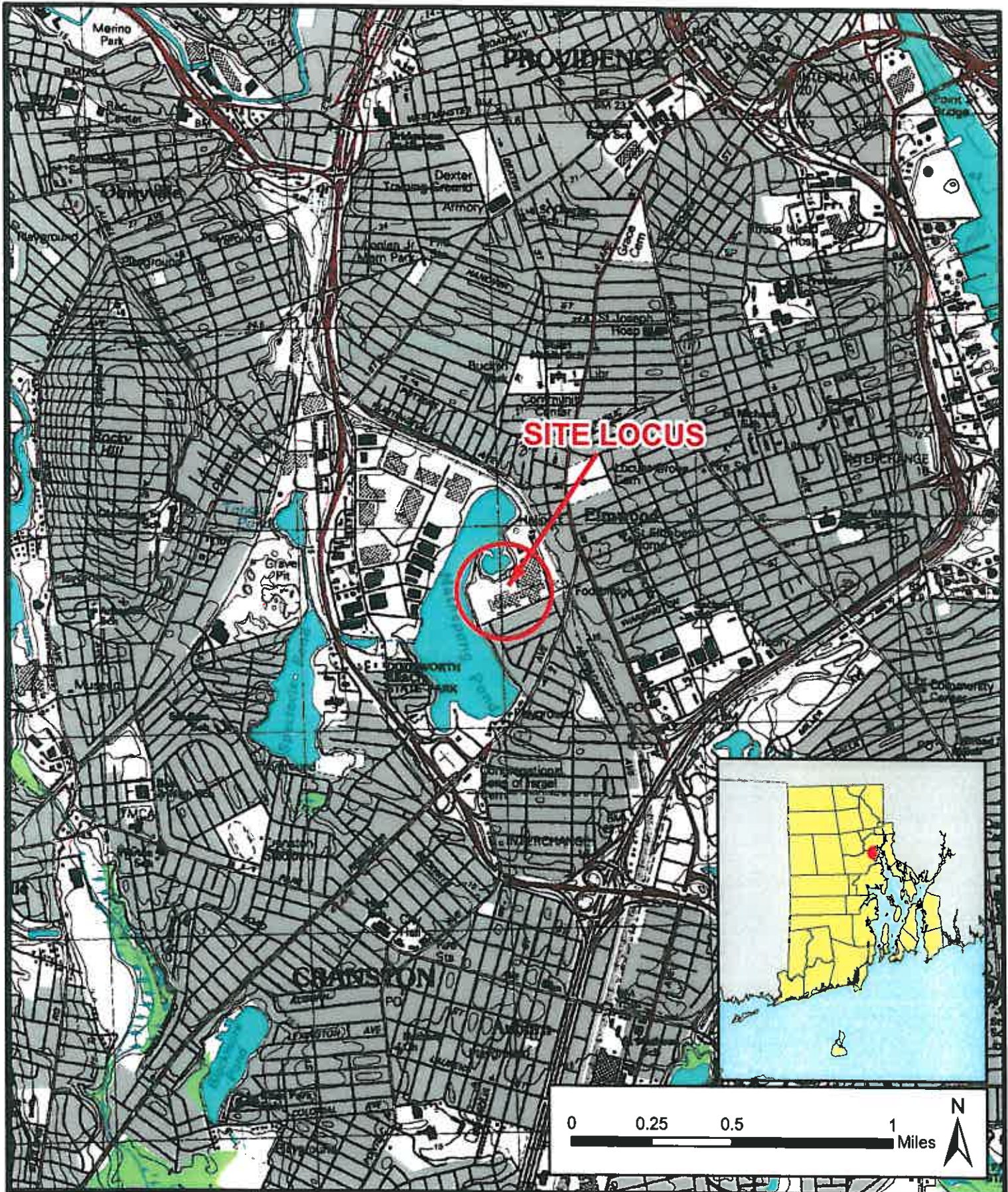
3. FUTURE ACTIVITIES AND NEXT QUARTERLY SUMMARY REPORT

During the next quarterly status reporting period ending 31 May 2010, the following activities will be completed in accordance with the Amended OA:

- Continuous monitoring of the operational status of the three rooftop fans
- Monthly site inspections and monitoring using a photoionization detector with part-per-billion sensitivity
- Collection of air samples from eight indoor locations, one ambient location, and six subslab monitoring points in April 2010.

These activities will be summarized in the next status report (Quarterly Status Report No. 11), expected to be submitted by the end of June 2010.

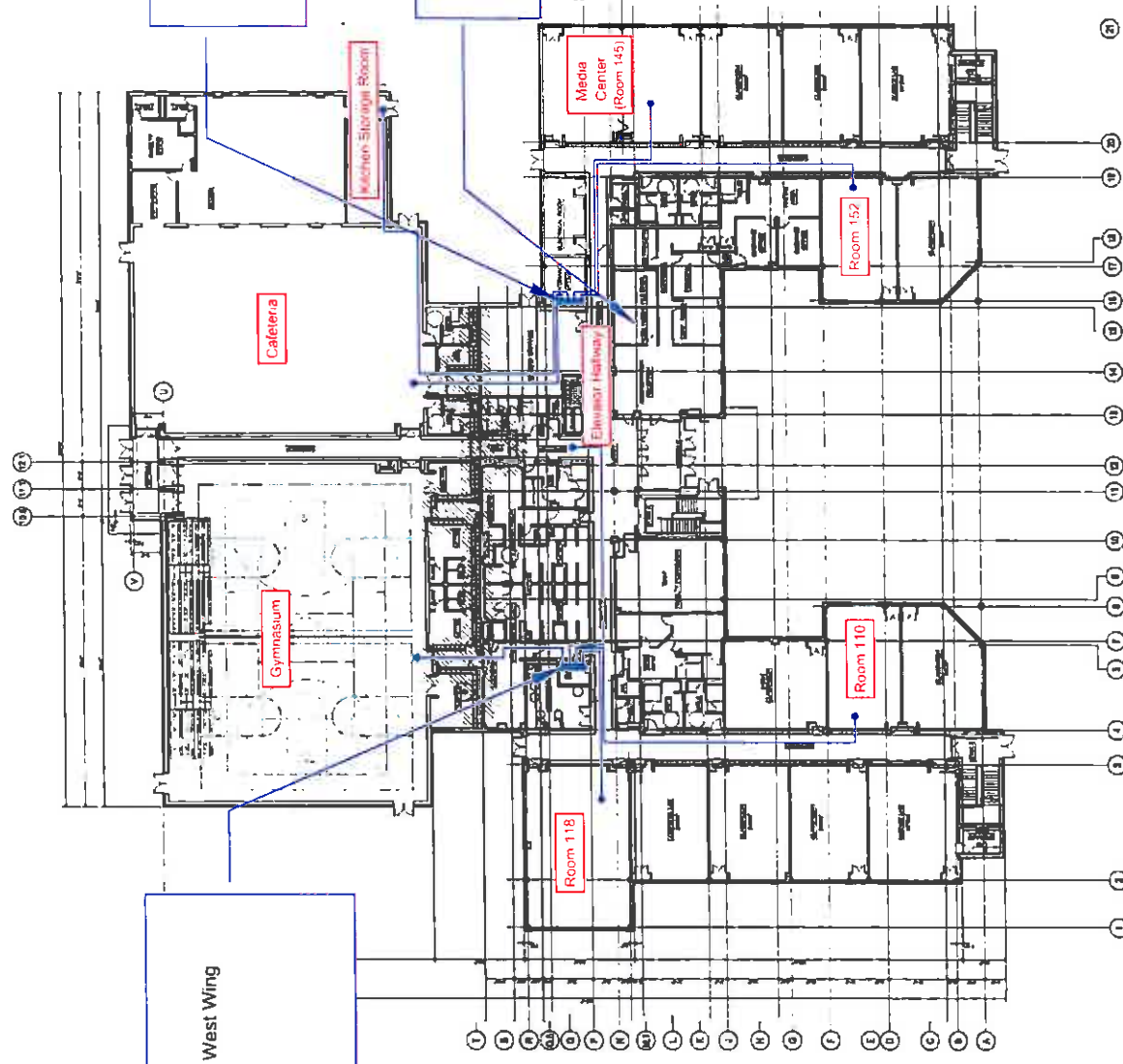
Figures



ALVAREZ HIGH SCHOOL
 333 ADELAIDE AVENUE
 PROVIDENCE, RHODE ISLAND

FIGURE 1
 SITE LOCUS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
FP	PT	PT	FP	1:24,000	FEBRUARY 2010	14687.01	SITE_LOCUS.MXD

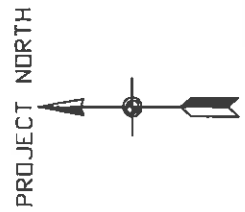


Methane Sensor Location in East Wing
Electrical Room/Maintenance Office Area.

Methane System Controller Location
Administration Work Room

NOTE: NOT TO SCALE

Methane Sensor Location in West Wing
Electrical Room Area

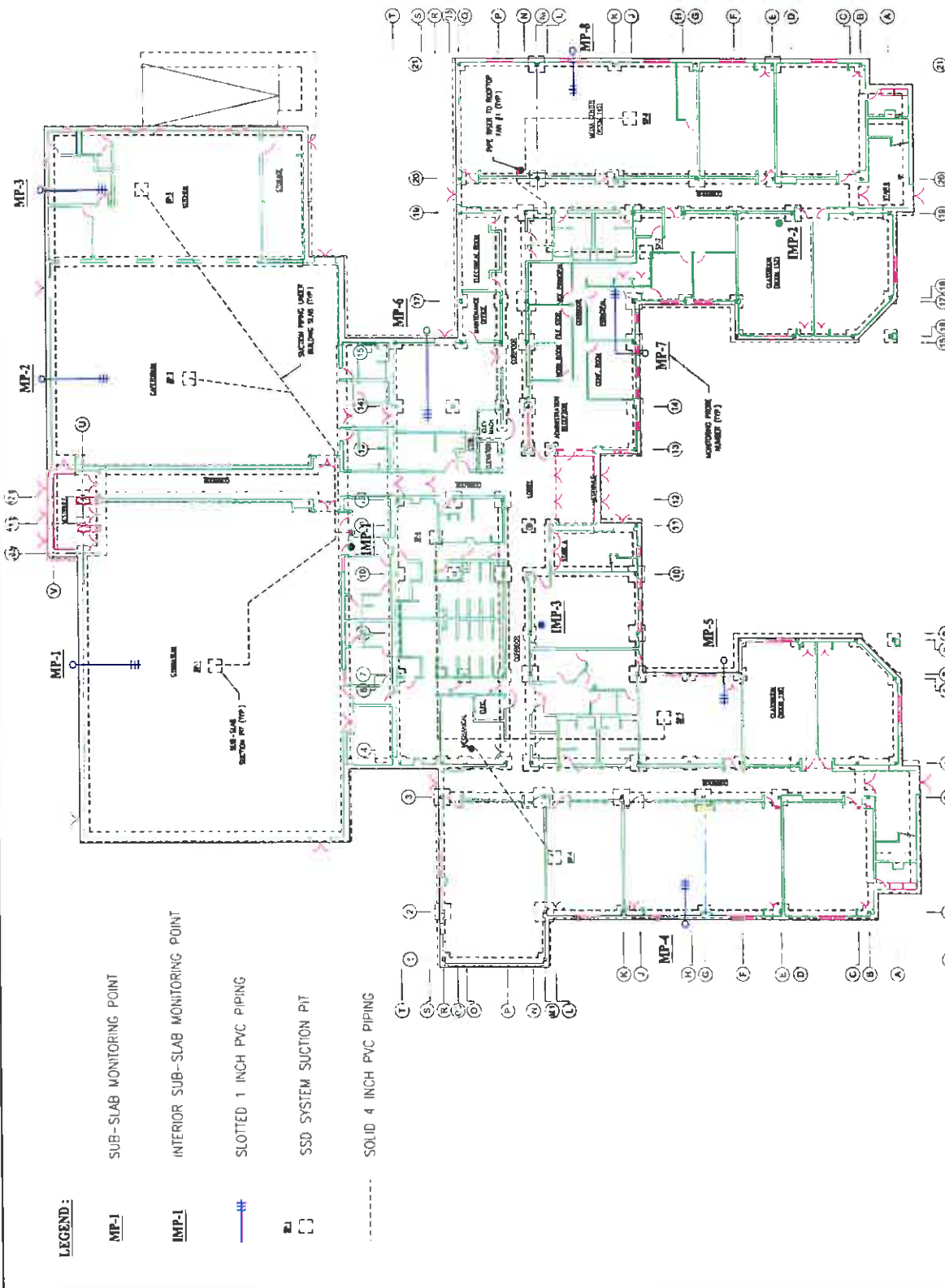
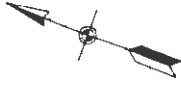


QUARTERLY STATUS REPORT
FIGURE 2

INDOOR AIR SAMPLING AND METHANE MONITORING
SYSTEM DIAGRAM - GORHAM HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

DESIGNED BY	PMG	DRAWN BY	PMG	DATE	4-3-07	PROJECT NO.	61955 01	FILE NAME	CorFarm Layout
CHECKED BY	PMG	PROJECT DATE	PMG	SCALE	NTS	DRAWING NO.	-	TABLE	N/A





LEGEND:

- MP-1** SUB-SLAB MONITORING POINT
- IMP-1** INTERIOR SUB-SLAB MONITORING POINT
- SLOTTED 1 INCH PVC PIPING
- SSD SYSTEM SUCTION PIT
- SOLID 4 INCH PVC PIPING



DESIGNED BY PMG	DRAWN BY DMA	DATE AUG 27 2007	PROJECT NO 14687 01	FILE NAME
				AS-BUILT SUB SLAB MONITORING AND SAMPLING LOCATIONS ALVAREZ HIGH SCHOOL PROVIDENCE, RHODE ISLAND
CHECKED BY PMG	PROJECT MGR PMG	SCALE N/A	DRAWING NO N/A	FIGURE J

QUARTERLY STATUS REPORT
FIGURE 3

Appendix A
O&M Field Forms

Alvarez High School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M 12/16/2009

Performed by DMA

PID/Methane Calibration? US Environmental

(yes/no)

Date of last Methane Sensor Filter Replacement: Sept. 2009

Replaced this O&M Visit? Yes (yes/no)

General Status of SSD System: On-line

General Status of Methane Monitoring System: Methane monitoring system was off, EA personnel restarted the monitoring system and recorded initial readings.

Eng. Cap/Fence Inspection Performed/Notes: Crack in concrete floor adjacent to IMP-1.

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring		Methane Monitoring			Air/Vapor Sample Collection				Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc. continue on separate sheet if needed)
			PID (ppm)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time (Inches Hg)	End Time (Inches Hg)		
Gymnasium	NA	NA	0.002	0								Occupied
Cafeteria	NA	NA	0.008	0								Food preparations taking place
Kitchen Storage Room	NA	NA	0.004	0								
Elevator Hallway	NA	NA	0.000	0								
Room 145	NA	NA	0.000	0								Occupied
Room 152	NA	NA	0.082	0								Occupied
Room 118	NA	NA	0.000	0								Occupied
Room 110	NA	NA	0.004	0								Occupied
MP-1	0.10	NA	0.082	NA								
MP-2	0.11	NA	0.363	NA								
MP-3	0.05	NA	0.017	NA								
MP-4	0.04	NA	1.260	NA								
MP-5	0.04	NA	1.330	NA								
MP-6	0.06	NA	2.570	NA								
MP-7	0.03	NA	0.086	NA								
MP-8	0.07	NA	0.032	NA								
IMP-1	0.03	NA	0.022	NA								Crack in concrete floor
IMP-2	0.03	NA	0.026	NA								
IMP-3	0.03	NA	0.037	NA								
Roof-Top Fan 1	2.10	2010	0.016	NA								
Roof-Top Fan 2	3.60	2186	0.020	NA								
Roof-Top Fan 3	2.20	1840	0.000	NA								
Ambient Outdoor Air	NA	NA	0.000	NA								

NA: not applicable.
 NM: not monitored on this date.
 NS: not sampled on this date.
 * RIDEEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

Alvarez High School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M 1/15/2010 Performed by DMA/PT

PID/Methane Calibration? US Environmental (yes/no)

Date of last Methane Sensor Filter Replacement Dec. 2009 Replaced this O&M Visit? No (yes/no)

General Status of SSD System: On-line

General Status of Methane Monitoring System: On-line, EA installed replacement UPS (Uninterrupted Power Supply) on 7 January 2010. Mounted UPS to enclosure today

Eng Cap/Fence Inspection Performed/Notes: Crack in concrete floor adjacent to IMP-1

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring PID (ppm)	Methane Monitoring		Air/Vapor Sample Collection				End Vac (Inches Hg)	Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc. continue on separate sheet if needed)	
				Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time			Start Vac (Inches Hg)
Gymnasium	NA	NA	0.000	0		1733	0132	0737	-30+	0807	-10	
Cafeteria	NA	NA	0.000	0		185	0235	0733	-30	0802	-3	Food preparations taking place during sampling event
Kitchen Storage Room	NA	NA	0.035	0		1738	0224	0735	-30+	0803	-4	Food preparations taking place during sampling event
Elevator Hallway	NA	NA	0.000	0		398	0432	0735	-30+	0805	-2	
Room 145	NA	NA	0.000	0		342	0256	0720	-30+	0752	-8	
Room 152	NA	NA	0.306	0		329	0074	0722	-30+	0752	-7	Occupied
Room 118	NA	NA	0.029	0		221	0176	0725	-30+	0755	-6	Occupied
Room 110	NA	NA	0.035	0		404	0094	0726	-30+	0757	-7	Occupied
MP-1	0.05	NA	7.668	NA		395	0325	1209	-30	1238	-3	
MP-2	0.04	NA	0.038	NA		-	-	-	-	-	-	
MP-3	0.04	NA	0.874	NA		552	0182	1217	-30+	1247	-9	
MP-4	0.02	NA	0.018	NA		494	0315	1231	-30	1302	0	
MP-5	0.07	NA	0.106	NA		-	-	-	-	-	-	
MP-6	0.05	NA	0.148	NA		187	0288	1221	-30+	1251	-9	
MP-7	0.02	NA	0.936	NA		-	-	-	-	-	-	
MP-8	0.10	NA	1.776	NA		-	-	-	-	-	-	
IMP-1	0.02	NA	118.300	NA		469	0364	0755	-29	0827	-4	Crack in concrete floor
IMP-2	0.02	NA	66.700	NA		460	0172	0750	-30+	0820	-11	
IMP-3	0.02	NA	253.400	NA		-	-	-	-	-	-	
Roof-Top Fan 1	0.60	983	0.330	NA		-	-	-	-	-	-	
Roof-Top Fan 2	NM	1841	0.402	NA		-	-	-	-	-	-	Broken Vacuum Gauge
Roof-Top Fan 3	NM	1142	1.305	NA		-	-	-	-	-	-	Broken Vacuum Gauge
Ambient Outdoor Air	NA	NA	0.000	NA		456	0298	1200	-30+	1230	-5	

NA: not applicable.

NM: not monitored on this date.

NS: not sampled on this date.

* RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

Alvarez High School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M: 2/12/2010

Performed by: DMA

PID/Methane Calibration? US Environmental (yes/no)

Date of last Methane Sensor Filter Replacement: Dec 2009

Replaced this O&M Visit? Yes (yes/no)

General Status of SSD System: On-line

General Status of Methane Monitoring System: On-line, EA personnel manually switched sensors to maintenance mode and applied 100ppm methane calibration gas to sensors to verify system functionality and recorded readings (Bump Test)

Eng Cap/Fence Inspection Performed/Notes: Crack in concrete floor adjacent to IMP-1.

Monitoring/ Sampling Location	Sub-stab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring PID (ppm)	Methane Monitoring Bump Test		Air/Vapor Sample Collection				Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc ... continue on separate sheet if needed)		
				Indoor Sensor (ppm)	Maint. Mode	100 ppm gas rdg	Summa Can ID	Controller ID	Start Time (Inches Hg)		Start Vac (Inches Hg)	End Time (Inches Hg)
Gymnasium	NA	NA	0.002	0	-20	85						
Cafeteria	NA	NA	0.002	0	-50	40						
Kitchen Storage Room	NA	NA	0.003	0	-10	95						
Elevator Hallway	NA	NA	0.000	0	-15	90						
Room 145	NA	NA	0.002	0	-50	45						
Room 152	NA	NA	0.006	0	-10	90						
Room 118	NA	NA	0.010	0	-50	50						
Room 110	NA	NA	0.004	0	-20	90						
IMP-1	0.08	NA	0.082	NA	NA	NA						
IMP-2	0.10	NA	0.363	NA	NA	NA						
IMP-3	0.06	NA	0.017	NA	NA	NA						
IMP-4	0.05	NA	1.260	NA	NA	NA						
IMP-5	0.04	NA	1.330	NA	NA	NA						
IMP-6	0.07	NA	2.670	NA	NA	NA						
IMP-7	0.04	NA	0.086	NA	NA	NA						
IMP-8	0.07	NA	0.032	NA	NA	NA						
IMP-1	0.02	NA	64.450	NA	NA	NA						Crack in concrete floor
IMP-2	0.03	NA	52.760	NA	NA	NA						
IMP-3	0.02	NA	82.380	NA	NA	NA						
Roof-Top Fan 1	1.80	1460	0.016	NA	NA	NA						
Roof-Top Fan 2	1.70	1740	0.020	NA	NA	NA						
Roof-Top Fan 3	2.10	1820	0.000	NA	NA	NA						
Ambient Outdoor Air	NA	NA	0.000	NA	NA	NA						

NA: not applicable.

NM: not monitored on this date.

NS: not sampled on this date.

* RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

Appendix B

Indoor and Ambient Outdoor Air Analytical Summary and Lab Report

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - January 2010

Compound	Sample Date	CT Data Programmed Indoor Remedial Target for Comparison to the OSHA Permissible Exposure Limit	24-Hour Average (µg/m³)	Criteria	Dimensions	Over	Standard Method	Room 118		Room 119		Mingle Case (Room 115)	Room 113	Date	Audience Overhead
								Over	Under	Over	Under				
Chlorobenzene	15-Mar-07		0.000	0.000	0.000	U	3.000	0.130	0.000	0.000	0.000	0.000	0.000	U	0.000
	22-Mar-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	29-Mar-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	05-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	12-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	19-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	26-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	03-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	10-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	17-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
Chloroethane	15-Mar-07		0.000	0.110	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	22-Mar-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	29-Mar-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	05-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	12-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	19-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	26-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	03-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	10-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	17-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
Chloroform	15-Mar-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	22-Mar-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	29-Mar-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	05-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	12-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	19-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	26-Apr-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	03-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	10-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000
	17-May-07		0.000	0.000	0.000	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U	0.000

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - January 2010

Volatile Organic Compound#	Sample Date	CT (Total Physical Volume Resampled Temp Adj. Concentration/Volume RTDP Adj. Apparent Actual Count)	Carbon Storage Rate	Calculus	Dissimination	Elementary Halfway	Room 118	Room 110	Middle Cor. (Rm 115)	Room 112	Ambient Outdoor
Chemical/Concentration	U	U	U	U	U	U	U	U	U	U	U
Dichlorodibenzodioxin	18-Jan-07	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175
	22-Jan-07	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	26-Jan-07	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	21-Feb-07	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175
	26-Feb-07	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175
	22-Mar-07	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175
	20-Sep-07	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	9-Oct-07	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	7-Nov-07	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	6-Dec-07	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	27-Feb-08	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	27-Mar-08	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	25-Apr-08	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	23-May-08	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	31-Jul-08	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	28-Aug-08	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	26-Sep-08	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	27-Oct-08	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
19-Jan-10	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	
Dichlorodibenzodioxin	18-Jan-07	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400
	22-Jan-07	2.770	2.770	2.770	2.770	2.770	2.770	2.770	2.770	2.770	2.770
	26-Jan-07	3.020	3.020	3.020	3.020	3.020	3.020	3.020	3.020	3.020	3.020
	21-Feb-07	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900
	26-Feb-07	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	22-Mar-07	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550	2.550
	20-Sep-07	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	9-Oct-07	2.570	2.570	2.570	2.570	2.570	2.570	2.570	2.570	2.570	2.570
	7-Nov-07	3.060	3.060	3.060	3.060	3.060	3.060	3.060	3.060	3.060	3.060
	6-Dec-07	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700
	27-Feb-08	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010
	27-Mar-08	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900
	28-Apr-08	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420
	26-May-08	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700
	23-Jun-08	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900
	31-Jul-08	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030
	28-Aug-08	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
	26-Sep-08	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
27-Oct-08	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	
19-Jan-10	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	
Dichlorodibenzodioxin	18-Jan-07	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	22-Jan-07	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940
	26-Jan-07	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
	21-Feb-07	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900
	26-Feb-07	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700
	22-Mar-07	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
	20-Sep-07	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	9-Oct-07	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	7-Nov-07	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	6-Dec-07	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
	27-Feb-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	27-Mar-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	28-Apr-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	26-May-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	23-Jun-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	31-Jul-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	28-Aug-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	26-Sep-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
27-Oct-08	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	
19-Jan-10	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
March 2007 - January 2010

Sample Date	Sample Time	Temperature (°C)	Relative Humidity (%)	Wind Speed (m/s)	Wind Direction	Pressure (hPa)	Particulate Matter (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	Formaldehyde (µg/m³)	
15-Mar-07	15-Mar-07	18.000	31.000	1.000	U	101.300	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelalide Avenue School Project - Volatile Organic Compounds
March 2007 - January 2010

Vehicle Organic Compounds via TO-15 Table 1	Sample Date	137 Data Reporting Index (Revised) Target As Compliance with NHTSA-Approved Ambient Level	Michae Storage Bin	Carbide	Crystallization	Extraction Solvent	Room 118	Room 119	Mobile Crib (Rm 115)	Room 153	Ambient Outdoor	
Table 2: Dichlorobenzene	15-Mar-07	0.000	110.000	180.000	180.000	130.000	23.000	130.000	170.000	140.000	2.000	
	22-Mar-07	0.019	14.100	18.000	140.000	18.400	28.500	54.000	84.200	17.000	0.115	
	28-Apr-07	0.019	8.900	19.400	15.300	17.000	16.100	2.410	4.100	16.000	0.175	
	21-May-07	0.000	7.000	8.000	11.000	4.000	1.000	1.000	1.000	8.000	0.175	
	28-Jun-07	0.000	8.000	6.000	6.000	4.000	2.500	1.800	1.500	2.500	0.100	
	20-Sep-07	0.000	8.000	6.000	6.000	4.000	3.700	1.800	2.400	2.500	1.100	
	20-Sep-07	0.000	1.400	1.200	1.600	1.700	0.930	0.930	1.810	0.930	0.930	0.520
	8-Oct-07	0.000	4.000	3.110	8.810	2.280	2.180	1.870	2.740	1.440	1.870	1.100
	7-Nov-07	0.000	1.700	1.560	2.250	1.800	2.110	1.870	1.870	1.800	1.800	1.300
	8-Dec-07	0.000	2.000	2.000	1.800	1.800	1.800	1.870	1.720	1.720	1.470	0.400
Table 3: Dichlorobenzene	8-Jan-08	0.000	4.100	3.100	3.100	3.100	0.800	0.800	0.800	0.800	0.400	
	14-Feb-08	0.000	3.100	3.100	3.100	3.100	1.150	0.800	0.800	0.800	0.400	
	14-Feb-08	0.000	8.000	6.000	4.000	4.000	1.150	0.800	0.800	0.800	0.400	
	24-Mar-08	0.000	4.000	4.000	4.000	4.000	4.000	8.000	4.000	4.000	1.600	
	29-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	
	29-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	
	29-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	
	29-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	
	29-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	
	29-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	
29-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400		
Table 4: Dichlorobenzene	15-Mar-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	22-Mar-07	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
	28-Apr-07	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
	21-May-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	28-Jun-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	20-Sep-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	20-Sep-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	8-Oct-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	8-Oct-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	8-Oct-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Summary of Indoor Ambient Outdoor Air Sampling Data - Adalade Avenue School Project - Volatile Organic Compounds
March 2007 - January 2010

Volatile Organic Compounds - vs. TO-15	Sample Date	CT Data Program? Indoor Remediated Target As Concentration/Analyte, WDFM Aggregated Action Level	Alkylbenzene Resin		Catalinols		Dynamalene		Elemental Hydrolysis		NAMES 118		RPM 110		Methyl Cate (Rm 14)		RPM 157		Ambient Outdoor				
			Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	
Acrylonitrile	15-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U		
	22-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	29-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	05-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	12-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	19-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	26-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	03-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	10-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	17-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
Benzene	15-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	22-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	29-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	05-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	12-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	19-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	26-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	03-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	10-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	17-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
Benzonitrile	15-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	22-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	29-Mar-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	05-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U	
	12-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	19-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	26-Apr-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	03-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	10-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U
	17-May-07		1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	U

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds

March 2007 - January 2010

Sample Date	CI Data Provided (Indoor, Outdoor, Background)	Method (e.g., EPA, Sphero)	Calibration	Operating	Flow	Equation	Unit	Room 118	Room 110	Months Data (Per 15)	Room 112	Class	Amount (Volume)
15-Mar-07	119						U	2,740	9,100	8,800	11,200	U	2,740
16-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
17-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
18-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
19-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
20-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
21-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
22-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
23-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
24-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
25-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
26-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
27-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
28-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
29-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
30-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
31-Mar-07							U	2,740	9,100	8,800	11,200	U	2,740
1-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
2-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
3-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
4-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
5-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
6-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
7-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
8-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
9-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
10-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
11-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
12-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
13-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
14-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740
15-Apr-07							U	2,740	9,100	8,800	11,200	U	2,740



ANALYTICAL REPORT

Lab Number: L1000747
Client: EA Engineering, Science and Tech
2350 Post Road
Warwick, RI 02886
ATTN: Mark Speer
Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01
Report Date: 01/20/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1000747-01	GYMNASIUM	PROVIDENCE, RI	01/15/10 08:07
L1000747-02	CAFETERIA	PROVIDENCE, RI	01/15/10 08:02
L1000747-03	KITCHEN STORAGE ROOM	PROVIDENCE, RI	01/15/10 08:03
L1000747-04	ELEVATOR HALLWAY	PROVIDENCE, RI	01/15/10 08:05
L1000747-05	ROOM 145	PROVIDENCE, RI	01/15/10 07:52
L1000747-06	ROOM 152	PROVIDENCE, RI	01/15/10 07:52
L1000747-07	ROOM 118	PROVIDENCE, RI	01/15/10 07:55
L1000747-08	ROOM 110	PROVIDENCE, RI	01/15/10 07:57
L1000747-09	AMBIENT OUTDOOR AIR	PROVIDENCE, RI	01/15/10 12:30

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

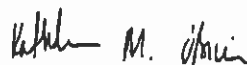
For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air (SIM)

L1000747-02, -03 and WG397186-5: Results for Acetone should be considered estimated due to co-elution with a non-target peak.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 01/20/10

AIR



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-01
Client ID: GYMNASIUM
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 01/18/10 22:28
Analyst: BS

Date Collected: 01/15/10 08:07
Date Received: 01/15/10
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Quallfier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.092	0.020	0.452	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.039	0.020	0.192	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	0.421	0.100	1.34	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.092	0.020	0.578	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.025	0.020	0.122	0.098		1
Chloromethane	0.578	0.500	2.82	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 08:07
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.501	0.050	2.48	0.247		1
Ethylbenzene	0.089	0.020	0.386	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.240	0.040	1.04	0.174		1
o-Xylene	0.082	0.020	0.356	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	0.050	0.020	0.339	0.136		1
Toluene	0.404	0.020	1.52	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.021	0.020	0.113	0.107		1
Trichlorofluoromethane	0.215	0.050	1.21	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	2.14	2.00	5.08	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/18/10 23:02
 Analyst: BS

Date Collected: 01/15/10 08:02
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.112	0.020	0.550	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.053	0.020	0.260	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.031	0.020	0.186	0.120		1
Benzene	0.472	0.100	1.51	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.096	0.020	0.603	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.097	0.020	0.473	0.098		1
Chloromethane	0.756	0.500	3.69	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 08:02
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.517	0.050	2.55	0.247		1
Ethylbenzene	0.077	0.020	0.334	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.211	0.040	0.915	0.174		1
o-Xylene	0.074	0.020	0.321	0.087		1
Styrene	0.052	0.020	0.221	0.085		1
Tetrachloroethene	0.051	0.020	0.346	0.136		1
Toluene	0.420	0.020	1.58	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.020	0.020	0.107	0.107		1
Trichlorofluoromethane	0.225	0.050	1.26	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.44	2.00	8.16	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-03
 Client ID: KITCHEN STORAGE ROOM
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/18/10 23:37
 Analyst: BS

Date Collected: 01/15/10 08:03
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.124	0.020	0.609	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.054	0.020	0.265	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.026	0.020	0.156	0.120		1
Benzene	0.522	0.100	1.67	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.093	0.020	0.585	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.108	0.020	0.527	0.098		1
Chloromethane	0.789	0.500	3.85	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-03
 Client ID: KITCHEN STORAGE ROOM
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 08:03
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air by SIM - Mansfield Lab					
Dichlorodifluoromethane	5.63	0.050	27.8	0.247	1
Ethylbenzene	0.103	0.020	0.447	0.087	1
Methylene chloride	ND	0.800	ND	1.74	1
Methyl tert butyl ether	ND	0.020	ND	0.072	1
p/m-Xylene	0.250	0.040	1.08	0.174	1
o-Xylene	0.093	0.020	0.404	0.087	1
Styrene	0.259	0.020	1.10	0.085	1
Tetrachloroethene	0.053	0.020	0.359	0.136	1
Toluene	0.509	0.020	1.92	0.075	1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079	1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091	1
Trichloroethene	0.020	0.020	0.107	0.107	1
Trichlorofluoromethane	2.12	0.050	11.9	0.281	1
Vinyl chloride	ND	0.020	ND	0.051	1
Acrylonitrile	ND	0.500	ND	1.08	1
n-Butylbenzene	ND	0.500	ND	2.74	1
sec-Butylbenzene	ND	0.500	ND	2.74	1
Isopropylbenzene	ND	0.500	ND	2.46	1
p-Isopropyltoluene	ND	0.500	ND	2.74	1
Acetone	5.02	2.00	11.9	4.75	1
2-Butanone	2.24	0.500	6.61	1.47	1
4-Methyl-2-pentanone	ND	0.500	ND	2.05	1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/19/10 00:45
 Analyst: BS

Date Collected: 01/15/10 08:05
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.106	0.020	0.521	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.042	0.020	0.206	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.072	0.020	0.432	0.120		1
Benzene	0.456	0.100	1.46	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.095	0.020	0.597	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.027	0.020	0.132	0.098		1
Chloromethane	0.652	0.500	3.18	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 08:05
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Quallfier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.524	0.050	2.59	0.247		1
Ethylbenzene	0.081	0.020	0.351	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.218	0.040	0.946	0.174		1
o-Xylene	0.078	0.020	0.338	0.087		1
Styrene	0.021	0.020	0.089	0.085		1
Tetrachloroethene	0.055	0.020	0.373	0.136		1
Toluene	0.450	0.020	1.69	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.230	0.050	1.29	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	2.82	2.00	6.70	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-05
 Client ID: ROOM 145
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/19/10 01:19
 Analyst: BS

Date Collected: 01/15/10 07:52
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.044	0.020	0.216	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.024	0.020	0.144	0.120		1
Benzene	0.484	0.100	1.54	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.098	0.020	0.616	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.024	0.020	0.117	0.098		1
Chloromethane	0.639	0.500	3.12	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-05
 Client ID: ROOM 145
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 07:52
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.496	0.050	2.45	0.247		1
Ethylbenzene	0.063	0.020	0.273	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.155	0.040	0.672	0.174		1
o-Xylene	0.059	0.020	0.256	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	0.051	0.020	0.346	0.136		1
Toluene	0.430	0.020	1.62	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.217	0.050	1.22	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	2.22	2.00	5.26	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-06
 Client ID: ROOM 152
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/19/10 01:54
 Analyst: BS

Date Collected: 01/15/10 07:52
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Quallfier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.040	0.020	0.196	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	0.485	0.100	1.55	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.097	0.020	0.610	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.037	0.020	0.180	0.098		1
Chloromethane	0.768	0.500	3.75	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-06
 Client ID: ROOM 152
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 07:52
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.488	0.050	2.41	0.247		1
Ethylbenzene	0.058	0.020	0.252	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.140	0.040	0.607	0.174		1
o-Xylene	0.053	0.020	0.230	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	0.046	0.020	0.312	0.136		1
Toluene	0.433	0.020	1.63	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.226	0.050	1.27	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.42	2.00	8.11	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-07
 Client ID: ROOM 118
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/19/10 02:28
 Analyst: BS

Date Collected: 01/15/10 07:55
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatle Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.042	0.020	0.206	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.025	0.020	0.150	0.120		1
Benzene	0.446	0.100	1.42	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.093	0.020	0.585	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.023	0.020	0.112	0.098		1
Chloromethane	0.665	0.500	3.24	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-07
 Client ID: ROOM 118
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 07:55
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.488	0.050	2.41	0.247		1
Ethylbenzene	0.074	0.020	0.321	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.167	0.040	0.724	0.174		1
o-Xylene	0.063	0.020	0.273	0.087		1
Styrene	0.046	0.020	0.196	0.085		1
Tetrachloroethene	0.046	0.020	0.312	0.136		1
Toluene	0.449	0.020	1.69	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.216	0.050	1.21	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.08	2.00	7.32	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-08
Client ID: ROOM 110
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 01/19/10 03:02
Analyst: BS

Date Collected: 01/15/10 07:57
Date Received: 01/15/10
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.040	0.020	0.196	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.033	0.020	0.198	0.120		1
Benzene	0.455	0.100	1.45	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.097	0.020	0.610	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.024	0.020	0.117	0.098		1
Chloromethane	0.745	0.500	3.63	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-08
 Client ID: ROOM 110
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 07:57
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.515	0.050	2.54	0.247		1
Ethylbenzene	0.059	0.020	0.256	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.139	0.040	0.603	0.174		1
o-Xylene	0.053	0.020	0.230	0.087		1
Styrene	0.023	0.020	0.098	0.085		1
Tetrachloroethene	0.051	0.020	0.346	0.136		1
Toluene	0.410	0.020	1.54	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.230	0.050	1.29	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.06	2.00	7.27	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-09
 Client ID: AMBIENT OUTDOOR AIR
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/19/10 12:19
 Analyst: BS

Date Collected: 01/15/10 12:30
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.040	0.020	0.196	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.023	0.020	0.138	0.120		1
Benzene	0.428	0.100	1.37	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.101	0.020	0.635	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.022	0.020	0.107	0.098		1
Chloromethane	0.533	0.500	2.60	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

SAMPLE RESULTS

Lab ID: L1000747-09

Date Collected: 01/15/10 12:30

Client ID: AMBIENT OUTDOOR AIR

Date Received: 01/15/10

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.491	0.050	2.43	0.247		1
Ethylbenzene	0.066	0.020	0.286	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.155	0.040	0.672	0.174		1
o-Xylene	0.063	0.020	0.273	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	0.361	0.020	2.45	0.136		1
Toluene	0.495	0.020	1.86	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.221	0.050	1.24	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	2.61	2.00	6.19	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1000747

Project Number: 14687.01

Report Date: 01/20/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/18/10 17:22

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatiles Organics in Air by SIM - Mansfield Lab for sample(s): 01-09 Batch: WG397186-4						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.100	ND	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000747
 Report Date: 01/20/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/18/10 17:22

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-09 Batch: WG397186-4						
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

Parameter	LCS		LCSD		%Recovery Limits		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual			
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG397186-3									
1,1,1-Trichloroethane							-		70-130
1,1,1,2-Tetrachloroethane							-		70-130
1,1,2,2-Tetrachloroethane							-		70-130
1,1,2-Trichloroethane							-		70-130
1,1-Dichloroethane	93						-		70-130
1,1-Dichloroethene	99						-		70-130
1,2,4-Trimethylbenzene	95						-		70-130
1,2-Dibromoethane	90						-		70-130
1,2-Dichlorobenzene							-		70-130
1,2-Dichloroethane	90						-		70-130
1,2-Dichloropropane	110						-		70-130
1,3,5-Trimethylbenzene	95						-		70-130
1,3-Dichlorobenzene	50						-		70-130
1,4-Dichlorobenzene							-		70-130
Benzene							-		70-130
Bromodichloromethane	108						-		70-130
Bromoform							-		70-130
Carbon tetrachloride							-		70-130
Chlorobenzene	86						-		70-130
Chloroethane							-		70-130
Chloroform							-		70-130



Lab Control Sample Analysis

Batch Quality Control

Lab Number: L1000747
 Report Date: 01/20/10

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Parameter	LCS		LCSD		%Recovery Limits		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual			
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG397186-3									
Chloromethane	94		-		-		-		70-130
cis-1,2-Dichloroethene	102		-		-		-		70-130
cis-1,3-Dichloropropene	126		-		-		-		70-130
Dibromochloromethane			-		-		-		70-130
Dichlorodifluoromethane			-		-		-		70-130
Ethylbenzene	91		-		-		-		70-130
Methylene chloride			-		-		-		70-130
Methyl tert butyl ether	90		-		-		-		70-130
p/m-Xylene	90		-		-		-		70-130
o-Xylene	94		-		-		-		70-130
Styrene	101		-		-		-		70-130
Tetrachloroethene	77		-		-		-		70-130
Toluene	87		-		-		-		70-130
trans-1,2-Dichloroethene	97		-		-		-		70-130
trans-1,3-Dichloropropene	105		-		-		-		70-130
Trichloroethene	100		-		-		-		70-130
Trichlorofluoromethane	83		-		-		-		70-130
Vinyl chloride	108		-		-		-		70-130
Acrylonitrile	100		-		-		-		70-130
n-Butylbenzene	94		-		-		-		70-130
sec-Butylbenzene	85		-		-		-		70-130



Lab Control Sample Analysis

Batch Quality Control

Lab Number: L1000747
 Report Date: 01/20/10

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Parameter	LCS		LCSD		%Recovery Limits		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual			
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG397186-3									
Isopropylbenzene			-		-		-		70-130
p-Isopropyltoluene	80		-		-		-		70-130
Acetone	74		-		-		-		70-130
2-Butanone			-		-		-		70-130
4-Methyl-2-pentanone	105		-		-		-		70-130



Lab Duplicate Analysis
Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG397188-5 QC Sample: L1000747-03 Client ID: KITCHEN STORAGE ROOM						
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC		25
1,1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
1,1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.124	0.112	ppbV	10		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	0.054	0.047	ppbV	14		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	0.026	0.027	ppbV	4		25
Benzene	0.522	0.506	ppbV	3		25
Bromodichloromethane	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.093	0.091	ppbV	2		25
Chlorobenzene	ND	ND	ppbV	NC		25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14667.01

Lab Number: L1000747
Report Date: 01/20/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG397186-5 QC Sample: L1000747-03 Client ID: KITCHEN STORAGE ROOM					
Chloroethane	ND	ND	ppbv	NC	25
Chloroform	0.108	0.106	ppbv	2	25
Chloromethane	0.789	0.781	ppbv	1	25
cis-1,2-Dichloroethene	ND	ND	ppbv	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Dibromochloromethane	ND	ND	ppbv	1	25
Dichlorodifluoromethane	5.63	5.67	ppbv	1	25
Ethylbenzene	0.103	0.093	ppbv	10	25
Methylene chloride	ND	ND	ppbv	1	25
Methyl tert butyl ether	ND	ND	ppbv	1	25
p/m-Xylene	0.250	0.222	ppbv	12	25
o-Xylene	0.093	0.081	ppbv	14	25
Styrene	0.259	0.242	ppbv	7	25
Tetrachloroethene	0.053	0.052	ppbv	2	25
Toluene	0.509	0.472	ppbv	8	25
trans-1,2-Dichloroethene	ND	ND	ppbv	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Trichloroethene	0.020	0.020	ppbv	10	25
Trichlorofluoromethane	2.12	2.09	ppbv	11	25



Lab Duplicate Analysis

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

Batch Quality Control

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG397186-5 QC Sample: L1000747-03 Client ID: KITCHEN STORAGE ROOM					
Vinyl chloride	ND	ND	ppbv	NC	25
Acrylonitrile	ND	ND	ppbv	NC	25
n-Butylbenzene	ND	ND	ppbv	NC	25
sec-Butylbenzene	ND	ND	ppbv	NC	25
Isopropylbenzene	ND	ND	ppbv	NC	25
p-Isopropyltoluene	ND	ND	ppbv	NC	25
Acetone	5.02	4.27	ppbv	16	25
2-Butanone	2.24	2.22	ppbv	1	25
4-Methyl-2-pentanone	ND	ND	ppbv	NC	25



Project Name: ALVAREZ HIGH SCHOOL

01201016:43
 Lab Number: L1000747

Project Number: 14687.01

Report Date: 01/20/10

Canister and Flow Controller Information

Samplem	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1000747-01	GYMNASIUM	0132	#90 AMB		-	-	71	63	12
L1000747-01	GYMNASIUM	1733	2.7L Can	10918756	-29.4	-6.9	-	-	-
L1000747-02	CAFETERIA	0235	#90 AMB		-	-	72	74	3
L1000747-02	CAFETERIA	185	2.7L Can	10918755	-29.4	-0.6	-	-	-
L1000747-03	KITCHEN STORAGE ROOM	0224	#90 AMB		-	-	72	76	5
L1000747-03	KITCHEN STORAGE ROOM	1738	2.7L Can	10918756	-29.2	1.2	-	-	-
L1000747-04	ELEVATOR HALLWAY	0432	#20 AMB		-	-	71	77	8
L1000747-04	ELEVATOR HALLWAY	398	2.7L Can	10918755	-29.4	0.9	-	-	-
L1000747-05	ROOM 145	0256	#90 AMB		-	-	70	68	3
L1000747-05	ROOM 145	342	2.7L Can	10918756	-29.1	-2.2	-	-	-
L1000747-06	ROOM 152	0074	#90 AMB		-	-	71	75	5
L1000747-06	ROOM 152	329	2.7L Can	10918755	-29.4	-2.9	-	-	-
L1000747-07	ROOM 118	0176	#90 AMB		-	-	71	69	3
L1000747-07	ROOM 118	221	2.7L Can	10918756	-29.4	-0.7	-	-	-
L1000747-08	ROOM 110	0094	#90 AMB		-	-	71	72	1
L1000747-08	ROOM 110	404	2.7L Can	10918755	-29.3	-3.0	-	-	-
L1000747-09	AMBIENT OUTDOOR AIR	0298	#90 AMB		-	-	72	70	3



Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

01201016:43

Lab Number: L1000747

Report Date: 01/20/10

Canister and Flow Controller Information

Sample Num	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1000747-09	AMBIENT OUTDOOR AIR	456	2.7L Can	10918755	-29.3	-1.8	-	-	-



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1000747-01A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-02A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-03A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-04A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-05A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-06A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-07A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-08A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000747-09A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)

*Hold days indicated by values in parentheses

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

GLOSSARY

Acronyms

- EPA · Environmental Protection Agency.
- LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD · Laboratory Control Sample Duplicate: Refer to LCS.
- MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD · Matrix Spike Sample Duplicate: Refer to MS.
- NA · Not Applicable.
- NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND · Not detected at the reported detection limit for the sample.
- NI · Not Ignitable.
- RDL · Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A · Spectra identified as "Aldol Condensation Product".
- B · The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P · The RPD between the results for the two columns exceeds the method-specified criteria.
- Q · The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
- R · Analytical results are from sample re-analysis.
- RE · Analytical results are from sample re-extraction.
- J · Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000747
Report Date: 01/20/10

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised December 15, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

U.S. Army Corps of Engineers**Department of Defense Certificate/Lab ID: L2217.01.**

Non-Potable Water (Inorganic Parameters: EPA 3005A, 3020, 6020, 245.1, 245.7, 1631E, 7470A, 7474, 9014, 120.1, 9050A, 180.1, SM4500H-B, 2320B, 2510B, 2540D, 9040. Organic Parameters: EPA 3510C, 5030B, 9010B, 624, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3051, 6020, 747A, 7474, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl.



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 1

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: EA Engineering

Address: 2350 Post Road

Warwick, RI 02886

Phone: (401) 736-3440

Fax: (401) 736-3423

Email: mspector@eastcom

These samples have been previously analyzed by Alpha
Other Project Specific Requirements/Comments:

Project Information

Project Name: Alvarez HS

Project Location: Warwick, RI

Project #: 14687.01

Project Manager: Mark Spear, P.E.

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

Date Rec'd In Lab:

Report Information - Date Deliverables

FAX
 ADEX

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

EMAIL (standard pdf report)

Additional Deliverables:

Report to: (if different than Project Manager)

mspector@eastcom

mark@eastcom

ALPHA Job #: 2000747

Billing Information

Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria

STATE INDOOR AIR CONTAMINANTS

ANALYSIS

- TO-14A by TO-15
- TO-15
- TO-15 SIM
- APH
- FIXED GASES
- TO-13A
- TO-4/TO-10

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix	Sampler's Initials	Can Size	ID Can	ID - Row Controller	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum						
	<u>DIETTY Gymnasium</u>	<u>1/15/10</u>	<u>0737</u>	<u>0807</u>	<u>-30+</u>	<u>-10</u>	<u>AA</u>	<u>PT/DA R. ZL</u>	<u>1733</u>	<u>6132</u>	<u>LED Rdg = 0.0ppm</u>
	<u>Ca Peterin</u>		<u>0733</u>	<u>0802</u>	<u>-30</u>	<u>-3</u>			<u>185</u>	<u>6235</u>	<u>= 0.0</u>
	<u>Kitchen Storage Room</u>		<u>0735</u>	<u>0803</u>	<u>-30+</u>	<u>-4</u>			<u>1738</u>	<u>6124</u>	<u>= 0.035</u>
	<u>Elementer Hallway</u>		<u>0735</u>	<u>0805</u>	<u>-30+</u>	<u>-2</u>			<u>398</u>	<u>0432</u>	<u>= 0.0</u>
	<u>Room 145</u>		<u>0720</u>	<u>0752</u>	<u>-30+</u>	<u>-8</u>			<u>342</u>	<u>0256</u>	<u>= 0.0</u>
	<u>Room 152</u>		<u>0722</u>	<u>0752</u>	<u>-30+</u>	<u>-7</u>			<u>329</u>	<u>0074</u>	<u>= 0.326</u>
	<u>Room 119</u>		<u>0725</u>	<u>0755</u>	<u>-30+</u>	<u>-6</u>			<u>221</u>	<u>0176</u>	<u>= 0.029</u>
	<u>Room 110</u>		<u>0726</u>	<u>0757</u>	<u>-30+</u>	<u>-7</u>			<u>404</u>	<u>0049</u>	<u>= 0.035</u>
	<u>Ambient Outdoor Air</u>		<u>1200</u>	<u>1230</u>	<u>-30+</u>	<u>-5</u>			<u>456</u>	<u>0299</u>	<u>= 0.0</u>

***SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SV
Other = Please Specify

Relinquished By:

Date/Time

Received By:

Date/Time

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any smelter, quillies, etc. received. All samples submitted are subject to Alpha's terms and conditions. See reverse side.

Appendix C

Sub-Slab Air Analytical Summary and Lab Report

Summary of Sub-Slab Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - January 2010

Sample Date	MPP-1		MPP-2		MPP-3		MPP-4		MPP-5		MPP-6		MPP-7		MPP-8		MPP-9		MPP-10		MPP-11		MPP-12		MPP-13		Dist		
	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS			
15-Jan-07	800,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	500,000	U	MS
22-Jan-07	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	83,700	U	MS
26-Apr-07	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	33,500	U	MS
21-May-07	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	81,800	U	MS
29-Jun-07	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	8,000	U	MS
20-Sep-07	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	MS
9-Oct-07	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	MS
7-Nov-07	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
6-Dec-07	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
9-Jan-08	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	0.150	U	MS
27-Jan-08	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
16-Feb-08	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
29-Mar-08	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
27-Apr-08	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
29-May-08	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
31-Jul-08	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
18-Dec-08	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
21-Jan-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
25-Feb-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
26-Mar-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
27-Apr-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
27-May-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
28-Jun-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
27-Jul-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
28-Aug-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
8-Oct-09	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
15-Jan-10	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS

Summary of Sub-Slab Air Sampling Data - Adelaisde Avenue School Project - Volatile Organic Compounds
March 2007 - January 2010

Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		MP-9		MP-10		Qual	
	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS	Qual	MS		
15-Mar-07	U	400,000	U	400,000	U	380,000	U	180,000	U	81,000	U	110,000	U	55,000	U	190,000	U	180,000	U	64,000	U	H
21-Mar-07	U	57,900	U	57,900	U	57,900	U	57,900	U	57,900	U	57,900	U	57,900	U	57,900	U	57,900	U	57,900	U	H
26-Apr-07	U	23,000	U	23,000	U	23,000	U	23,000	U	23,000	U	23,000	U	23,000	U	23,000	U	23,000	U	23,000	U	H
11-May-07	U	41,800	U	41,800	U	41,800	U	41,800	U	41,800	U	41,800	U	41,800	U	41,800	U	41,800	U	41,800	U	H
29-Jun-07	U	6,300	U	6,300	U	6,300	U	6,300	U	6,300	U	6,300	U	6,300	U	6,300	U	6,300	U	6,300	U	H
30-Jul-07	U	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U	1,600	U	H
12-Aug-07	U	400,000	U	400,000	U	400,000	U	400,000	U	400,000	U	400,000	U	400,000	U	400,000	U	400,000	U	400,000	U	H
20-Sep-07	U	4,800	U	4,800	U	4,800	U	4,800	U	4,800	U	4,800	U	4,800	U	4,800	U	4,800	U	4,800	U	H
25-Sep-07	U	2,900	U	2,900	U	2,900	U	2,900	U	2,900	U	2,900	U	2,900	U	2,900	U	2,900	U	2,900	U	H
8-Oct-07	U	2,300	U	2,300	U	2,300	U	2,300	U	2,300	U	2,300	U	2,300	U	2,300	U	2,300	U	2,300	U	H
7-Nov-07	U	1,000	U	1,000	U	1,000	U	1,000	U	1,000	U	1,000	U	1,000	U	1,000	U	1,000	U	1,000	U	H
5-Dec-07	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	H
8-Feb-08	U	1,500	U	1,500	U	1,500	U	1,500	U	1,500	U	1,500	U	1,500	U	1,500	U	1,500	U	1,500	U	H
24-Feb-08	U	1,800	U	1,800	U	1,800	U	1,800	U	1,800	U	1,800	U	1,800	U	1,800	U	1,800	U	1,800	U	H
24-Mar-08	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	H
27-Apr-08	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	H
14-Jun-08	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	1,100	U	H
25-Jun-08	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	3,300	U	H
25-Jul-08	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
28-Aug-08	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
16-Sep-08	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
18-Oct-08	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
21-Nov-08	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
25-Dec-08	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
25-Feb-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
25-Mar-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
25-Apr-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
22-Jun-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
22-Jul-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
22-Aug-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
22-Sep-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
8-Oct-09	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H
15-Jan-10	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	1,300	U	H

Summary of Sub-Stub Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - January 2010

Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		MP-9		MP-10		MP-11		MP-12		MP-13		MP-14		MP-15		MP-16		MP-17		MP-18		MP-19		MP-20		MP-21		MP-22		MP-23		MP-24		MP-25		MP-26		MP-27		MP-28		MP-29		MP-30		MP-31		MP-32		MP-33		MP-34		MP-35		MP-36		MP-37		MP-38		MP-39		MP-40		MP-41		MP-42		MP-43		MP-44		MP-45		MP-46		MP-47		MP-48		MP-49		MP-50		MP-51		MP-52		MP-53		MP-54		MP-55		MP-56		MP-57		MP-58		MP-59		MP-60		MP-61		MP-62		MP-63		MP-64		MP-65		MP-66		MP-67		MP-68		MP-69		MP-70		MP-71		MP-72		MP-73		MP-74		MP-75		MP-76		MP-77		MP-78		MP-79		MP-80		MP-81		MP-82		MP-83		MP-84		MP-85		MP-86		MP-87		MP-88		MP-89		MP-90		MP-91		MP-92		MP-93		MP-94		MP-95		MP-96		MP-97		MP-98		MP-99		MP-100		MP-101		MP-102		MP-103		MP-104		MP-105		MP-106		MP-107		MP-108		MP-109		MP-110		MP-111		MP-112		MP-113		MP-114		MP-115		MP-116		MP-117		MP-118		MP-119		MP-120		MP-121		MP-122		MP-123		MP-124		MP-125		MP-126		MP-127		MP-128		MP-129		MP-130		MP-131		MP-132		MP-133		MP-134		MP-135		MP-136		MP-137		MP-138		MP-139		MP-140		MP-141		MP-142		MP-143		MP-144		MP-145		MP-146		MP-147		MP-148		MP-149		MP-150		MP-151		MP-152		MP-153		MP-154		MP-155		MP-156		MP-157		MP-158		MP-159		MP-160		MP-161		MP-162		MP-163		MP-164		MP-165		MP-166		MP-167		MP-168		MP-169		MP-170		MP-171		MP-172		MP-173		MP-174		MP-175		MP-176		MP-177		MP-178		MP-179		MP-180		MP-181		MP-182		MP-183		MP-184		MP-185		MP-186		MP-187		MP-188		MP-189		MP-190		MP-191		MP-192		MP-193		MP-194		MP-195		MP-196		MP-197		MP-198		MP-199		MP-200		MP-201		MP-202		MP-203		MP-204		MP-205		MP-206		MP-207		MP-208		MP-209		MP-210		MP-211		MP-212		MP-213		MP-214		MP-215		MP-216		MP-217		MP-218		MP-219		MP-220		MP-221		MP-222		MP-223		MP-224		MP-225		MP-226		MP-227		MP-228		MP-229		MP-230		MP-231		MP-232		MP-233		MP-234		MP-235		MP-236		MP-237		MP-238		MP-239		MP-240		MP-241		MP-242		MP-243		MP-244		MP-245		MP-246		MP-247		MP-248		MP-249		MP-250		MP-251		MP-252		MP-253		MP-254		MP-255		MP-256		MP-257		MP-258		MP-259		MP-260		MP-261		MP-262		MP-263		MP-264		MP-265		MP-266		MP-267		MP-268		MP-269		MP-270		MP-271		MP-272		MP-273		MP-274		MP-275		MP-276		MP-277		MP-278		MP-279		MP-280		MP-281		MP-282		MP-283		MP-284		MP-285		MP-286		MP-287		MP-288		MP-289		MP-290		MP-291		MP-292		MP-293		MP-294		MP-295		MP-296		MP-297		MP-298		MP-299		MP-300		MP-301		MP-302		MP-303		MP-304		MP-305		MP-306		MP-307		MP-308		MP-309		MP-310		MP-311		MP-312		MP-313		MP-314		MP-315		MP-316		MP-317		MP-318		MP-319		MP-320		MP-321		MP-322		MP-323		MP-324		MP-325		MP-326		MP-327		MP-328		MP-329		MP-330		MP-331		MP-332		MP-333		MP-334		MP-335		MP-336		MP-337		MP-338		MP-339		MP-340		MP-341		MP-342		MP-343		MP-344		MP-345		MP-346		MP-347		MP-348		MP-349		MP-350		MP-351		MP-352		MP-353		MP-354		MP-355		MP-356		MP-357		MP-358		MP-359		MP-360		MP-361		MP-362		MP-363		MP-364		MP-365		MP-366		MP-367		MP-368		MP-369		MP-370		MP-371		MP-372		MP-373		MP-374		MP-375		MP-376		MP-377		MP-378		MP-379		MP-380		MP-381		MP-382		MP-383		MP-384		MP-385		MP-386		MP-387		MP-388		MP-389		MP-390		MP-391		MP-392		MP-393		MP-394		MP-395		MP-396		MP-397		MP-398		MP-399		MP-400		MP-401		MP-402		MP-403		MP-404		MP-405		MP-406		MP-407		MP-408		MP-409		MP-410		MP-411		MP-412		MP-413		MP-414		MP-415		MP-416		MP-417		MP-418		MP-419		MP-420		MP-421		MP-422		MP-423		MP-424		MP-425		MP-426		MP-427		MP-428		MP-429		MP-430		MP-431		MP-432		MP-433		MP-434		MP-435		MP-436		MP-437		MP-438		MP-439		MP-440		MP-441		MP-442		MP-443		MP-444		MP-445		MP-446		MP-447		MP-448		MP-449		MP-450		MP-451		MP-452		MP-453		MP-454		MP-455		MP-456		MP-457		MP-458		MP-459		MP-460		MP-461		MP-462		MP-463		MP-464		MP-465		MP-466		MP-467		MP-468		MP-469		MP-470		MP-471		MP-472		MP-473		MP-474		MP-475		MP-476		MP-477		MP-478		MP-479		MP-480		MP-481		MP-482		MP-483		MP-484		MP-485		MP-486		MP-487		MP-488		MP-489		MP-490		MP-491		MP-492		MP-493		MP-494		MP-495		MP-496		MP-497		MP-498		MP-499		MP-500		MP-501		MP-502		MP-503		MP-504		MP-505		MP-506		MP-507		MP-508		MP-509		MP-510		MP-511		MP-512		MP-513		MP-514		MP-515		MP-516		MP-517		MP-518		MP-519		MP-520		MP-521		MP-522		MP-523		MP-524		MP-525		MP-526		MP-527		MP-528		MP-529		MP-530		MP-531		MP-532		MP-533		MP-534		MP-535		MP-536		MP-537		MP-538		MP-539		MP-540		MP-541		MP-542		MP-543		MP-544		MP-545		MP-546		MP-547		MP-548		MP-549		MP-550		MP-551		MP-552		MP-553		MP-554		MP-555		MP-556		MP-557		MP-558		MP-559		MP-560		MP-561		MP-562		MP-563		MP-564		MP-565		MP-566		MP-567		MP-568		MP-569		MP-570		MP-571		MP-572		MP-573		MP-574		MP-575		MP-576		MP-577		MP-578		MP-579		MP-580		MP-581		MP-582		MP-583		MP-584		MP-585		MP-586		MP-587		MP-588		MP-589		MP-590		MP-591		MP-592		MP-593		MP-594		MP-595		MP-596		MP-597		MP-598		MP-599		MP-600		MP-601		MP-602		MP-603		MP-604		MP-605		MP-606		MP-607		MP-608		MP-609		MP-610		MP-611		MP-612		MP-613		MP-614		MP-615		MP-616		MP-617		MP-618		MP-619		MP-620		MP-621		MP-622		MP-623		MP-624		MP-625		MP-626		MP-627		MP-628		MP-629		MP-630		MP-631		MP-632		MP-633		MP-634		MP-635		MP-636		MP-637		MP-638		MP-639		MP-640		MP-641		MP-642		MP-643		MP-644		MP-645		MP-646		MP-647		MP-648		MP-649		MP-650		MP-651		MP-652		MP-653		MP-654		MP-655		MP-656		MP-657		MP-658		MP-659		MP-660		MP-661		MP-662		MP-663		MP-664		MP-665		MP-666		MP-667		MP-668		MP-669		MP-670		MP-671		MP-672		MP-673		MP-674		MP-675		MP-676		MP-677		MP-678		MP-679		MP-680		MP-681		MP-682		MP-683		MP-684		MP-685		MP-686		MP-687		MP-688		MP-689		MP-690		MP-691		MP-692		MP-693		MP-694		MP-695		MP-696		MP-697		MP-698		MP-699		MP-700		MP-701		MP-702		MP-703		MP-704		MP-705		MP-706		MP-707		MP-708		MP-709		MP-710		MP-711		MP-712		MP-713		MP-714		MP-715		MP-716		MP-717		MP-718		MP-719		MP-720		MP-721		MP-722		MP-723		MP-724		MP-725		MP-726		MP-727		MP-728		MP-729		MP-730		MP-731		MP-732		MP-733		MP-734		MP-735		MP-736		MP-737		MP-738		MP-739		MP-740		MP-741		MP-742		MP-743		MP-744		MP-745		MP-746		MP-747		MP-748		MP-749		MP-750		MP-751		MP-752		MP-753		MP-754		MP-755		MP-756		MP-757		MP-758		MP-759		MP-760		MP-761		MP-762		MP-763		MP-764		MP-765		MP-766		MP-767		MP-768		MP-769		MP-770		MP-771		MP-772		MP-773		MP-774		MP-775		MP-776		MP-777		MP-778		MP-779		MP-780		MP-781		MP-782		MP-783		MP-784		MP-785		MP-786		MP-787		MP-788		MP-789		MP-790		MP-791		MP-792		MP-793		MP-794		MP-795		MP-796		MP-797		MP-798		MP-799		MP-800		MP-801		MP-802		MP-803		MP-804		MP-805		MP-806		MP-807		MP-808		MP-809		MP-810		MP-811		MP-812		MP-813		MP-814		MP-815		MP-816		MP-817		MP-818		MP-819		MP-820		MP-821		MP-822		MP-823		MP-824		MP-825		MP-826		MP-827		MP-828		MP-829		MP-830		MP-831		MP-832		MP-833		MP-834		MP-835		MP-836		MP-837		MP-838		MP-839		MP-840		MP-841		MP-842		MP-843		MP-844		MP-845		MP-846		MP-847		MP-848		MP-849		MP-850		MP-851		MP-852		MP-853		MP-854		MP-855		MP-856		MP-857		MP-858		MP-859		MP-860		MP-861		MP-862		MP-863		MP-864		MP-865		MP-866		MP-867		MP-868		MP-869		MP-870		MP-871		MP-872		MP-873		MP-874		MP-875		MP-876		MP-877		MP-878		MP-879		MP-880		MP-881		MP-882		MP-883	
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Summary of Sub-Slab Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - January 2010

Compound	Sample Date	MFP-1	MFP-2	MFP-3	MFP-4	MFP-5	MFP-6	MFP-7	MFP-8	MFP-1	MFP-2	MFP-3
o-Xylene	15-Mar-07	380.000	370.000	370.000	390.000	370.000	130.000	57.000	160.000	NS	NS	NS
	15-Mar-07	44.200	54.200	54.200	54.200	54.200	54.200	54.200	21.700	NS	NS	NS
	26-Apr-07	31.700	21.700	21.700	21.700	21.700	21.700	21.700	21.700	NS	NS	NS
	26-Apr-07	38.300	38.300	38.300	38.300	38.300	38.300	38.300	38.300	NS	NS	NS
	26-Apr-07	7.000	0.490	0.490	0.490	0.490	0.490	0.490	0.490	NS	NS	NS
	26-Jun-07	0.800	0.870	0.870	0.870	0.870	0.870	0.870	0.870	NS	NS	NS
	26-Jun-07	NS	0.888	0.888	0.888	0.888	0.888	0.888	0.888	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	15-Mar-07	360.000	370.000	370.000	370.000	360.000	130.000	59.000	160.000	NS	NS	NS
	15-Mar-07	53.200	53.200	53.200	53.200	53.200	53.200	53.200	21.300	NS	NS	NS
	26-Apr-07	21.300	21.300	21.300	21.300	21.300	21.300	21.300	21.300	NS	NS	NS
	26-Apr-07	38.700	27.400	27.400	27.400	27.400	27.400	27.400	27.400	NS	NS	NS
	26-Jun-07	0.700	0.520	0.520	0.520	0.520	0.520	0.520	0.520	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	0.831	0.831	0.831	0.831	0.831	0.831	0.831	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Jun-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene/ortho-Xylene	15-Mar-07	610.000	590.000	590.000	590.000	590.000	210.000	110.000	260.000	NS	NS	NS
	15-Mar-07	64.700	64.700	64.700	64.700	64.700	64.700	64.700	64.700	NS	NS	NS
	26-Apr-07	33.800	33.800	33.800	33.800	33.800	33.800	33.800	33.800	NS	NS	NS
	26-Apr-07	0.880	0.780	0.780	0.780	0.780	0.780	0.780	0.780	NS	NS	NS
	26-Apr-07	0.810	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	26-Apr-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Summary of Sub-Stub Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
March 2007 - January 2010

Sample Date	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-1	MP-2	MP-3	Omni
15-Mar-07	650,000	110,000	810,000	830,000	100,000	520,000	130,000	520,000	900,000	NS	NS	NS	NS
22-Mar-07	47,100	47,100	47,100	47,100	47,100	47,100	47,100	47,100	47,100	NS	NS	NS	NS
28-Apr-07	18,800	18,800	18,800	18,800	18,800	18,800	18,800	18,800	18,800	NS	NS	NS	NS
21-May-07	34,300	20,800	3,300	4,300	4,100	3,000	5,300	4,200	4,200	NS	NS	NS	NS
19-Jun-07	1,900	1,900	1,900	2,900	1,800	4,800	7,800	8,800	8,800	NS	NS	NS	NS
25-Jul-07	1,300	1,300	1,300	2,300	1,300	1,300	1,300	1,300	1,300	NS	NS	NS	NS
20-Sep-07	3,000	3,000	1,200	2,900	1,800	1,800	1,800	1,800	1,800	NS	NS	NS	NS
8-Oct-07	7,190	8,100	1,800	1,800	1,800	1,800	1,800	1,800	1,800	NS	NS	NS	NS
6-Nov-07	NS	NS	NS	2,800	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-Jan-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Feb-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Mar-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Apr-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-May-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jun-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31-Jul-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Aug-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
30-Sep-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-Nov-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Dec-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Jan-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Feb-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-Mar-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-Apr-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-May-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Mar-07	380,000	340,000	540,000	340,000	340,000	140,000	33,000	140,000	130,000	NS	NS	NS	NS
22-Mar-07	18,800	48,900	48,900	48,900	48,900	48,900	48,900	48,900	48,900	NS	NS	NS	NS
21-Apr-07	18,800	18,800	18,800	18,800	18,800	18,800	18,800	18,800	18,800	NS	NS	NS	NS
29-May-07	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	NS	NS	NS	NS
30-Jun-07	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	NS	NS	NS	NS
28-Jul-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Sep-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-Oct-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Nov-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Mar-07	410,000	300,000	300,000	300,000	300,000	160,000	60,000	160,000	100,000	NS	NS	NS	NS
22-Mar-07	56,700	56,700	56,700	56,700	56,700	56,700	56,700	56,700	56,700	NS	NS	NS	NS
21-Apr-07	22,700	22,700	22,700	22,700	22,700	22,700	22,700	22,700	22,700	NS	NS	NS	NS
21-May-07	41,300	22,700	22,700	22,700	22,700	22,700	22,700	22,700	22,700	NS	NS	NS	NS
25-Jun-07	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	NS	NS	NS	NS
20-Jul-07	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	NS	NS	NS	NS
23-Aug-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Sep-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-Oct-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Nov-07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Summary of Sub-Slab Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
March 2007 - January 2010

Yieldable Organic Compounds, No. TD-18		MPP-1		MPP-2		MPP-3		MPP-4		MPP-5		MPP-6		MPP-7		MPP-8		MPP-9		MPP-10		MPP-11		MPP-12		MPP-13		MPP-14		MPP-15		MPP-16					
Sample Date		Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result	Class	Result		
1	15-Mar-07	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000	U	8000.000

Notes:
 All data presented in micrograms per cubic meter (ug/m3)
 U Designation indicates that the compound was not detected by the laboratory. Reporting limit shown in the table columns.
 NS not sampled
 * = Data Specific Compounds @ Classroom per ATT008 Health Consultation, December 4, 2008.



ANALYTICAL REPORT

Lab Number: L1000748
Client: EA Engineering, Science and Tech
2350 Post Road
Warwick, RI 02886
ATTN: Mark Speer
Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01
Report Date: 01/22/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000748
Report Date: 01/22/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1000748-01	MP-1	PROVIDENCE, RI	01/15/10 12:38
L1000748-02	MP-3	PROVIDENCE, RI	01/15/10 12:47
L1000748-03	MP-4	PROVIDENCE, RI	01/15/10 13:02
L1000748-04	MP-6	PROVIDENCE, RI	01/15/10 12:51
L1000748-05	IMP-1	PROVIDENCE, RI	01/15/10 08:27
L1000748-06	IMP-2	PROVIDENCE, RI	01/15/10 08:20

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000748
Report Date: 01/22/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air (SIM)

L1000748-02 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

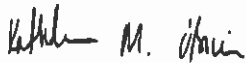
L1000748-02 results for Chloromethane should be considered estimated due to co-elution with a non-target peak.

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000748
Report Date: 01/22/10

Case Narrative (continued)

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative

Date: 01/22/10



AIR



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-01
 Client ID: MP-1
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/10 02:19
 Analyst: RY

Date Collected: 01/15/10 12:38
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.584	0.020	2.87	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.437	0.020	2.15	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	0.239	0.100	0.763	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.068	0.020	0.427	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.036	0.020	0.176	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-01
 Client ID: MP-1
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 12:38
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.507	0.050	2.50	0.247		1
Ethylbenzene	1.60	0.020	6.95	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	0.022	0.020	0.079	0.072		1
p/m-Xylene	4.25	0.040	18.4	0.174		1
o-Xylene	1.04	0.020	4.51	0.087		1
Styrene	0.025	0.020	0.106	0.085		1
Tetrachloroethene	0.193	0.020	1.31	0.136		1
Toluene	3.41	0.020	12.8	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.110	0.020	0.591	0.107		1
Trichlorofluoromethane	0.248	0.050	1.39	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	14.1	2.00	33.6	4.75		1
2-Butanone	10.1	0.500	29.8	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-02
 Client ID: MP-3
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/10 08:43
 Analyst: RY

Date Collected: 01/15/10 12:47
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.072	0.020	0.354	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.024	0.020	0.118	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.177	0.020	1.06	0.120		1
Benzene	0.278	0.100	0.887	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.103	0.020	0.647	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.028	0.020	0.074	0.053		1
Chloroform	1.48	0.020	7.22	0.098		1
Chloromethane	0.569	0.500	2.78	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-02
 Client ID: MP-3
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 12:47
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.723	0.050	3.57	0.247		1
Ethylbenzene	0.131	0.020	0.568	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.351	0.040	1.52	0.174		1
o-Xylene	0.113	0.020	0.490	0.087		1
Styrene	0.028	0.020	0.119	0.085		1
Tetrachloroethene	0.095	0.020	0.644	0.136		1
Toluene	1.11	0.020	4.17	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.045	0.020	0.242	0.107		1
Trichlorofluoromethane	0.375	0.050	2.10	0.281		1
Vinyl chloride	0.024	0.020	0.061	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	38.3	2.00	90.9	4.75		1
2-Butanone	280	0.500	826	1.47	E	1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000748
Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-02 RID
Client ID: MP-3
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 01/20/10 14:28
Analyst: RY

Date Collected: 01/15/10 12:47
Date Received: 01/15/10
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
2-Butanone	201	5.00	594	14.7		10



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-03
 Client ID: MP-4
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/10 09:22
 Analyst: RY

Date Collected: 01/15/10 13:02
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.059	0.020	0.290	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.119	0.020	0.715	0.120		1
Benzene	0.307	0.100	0.980	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.081	0.020	0.509	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.025	0.020	0.066	0.053		1
Chloroform	0.030	0.020	0.146	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-03
 Client ID: MP-4
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 13:02
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.510	0.050	2.52	0.247		1
Ethylbenzene	0.125	0.020	0.542	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.340	0.040	1.48	0.174		1
o-Xylene	0.113	0.020	0.490	0.087		1
Styrene	0.021	0.020	0.089	0.085		1
Tetrachloroethene	0.199	0.020	1.35	0.136		1
Toluene	1.15	0.020	4.33	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	3.29	0.020	17.7	0.107		1
Trichlorofluoromethane	2.95	0.050	16.6	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	9.62	2.00	22.8	4.75		1
2-Butanone	21.8	0.500	64.1	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000748
Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-04
Client ID: MP-6
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 01/20/10 10:01
Analyst: RY

Date Collected: 01/15/10 12:51
Date Received: 01/15/10
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.064	0.020	0.314	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.022	0.020	0.108	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.137	0.020	0.823	0.120		1
Benzene	0.396	0.100	1.26	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.086	0.020	0.541	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.039	0.020	0.190	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-04
 Client ID: MP-6
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 12:51
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.529	0.050	2.61	0.247		1
Ethylbenzene	0.152	0.020	0.659	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.406	0.040	1.76	0.174		1
o-Xylene	0.129	0.020	0.560	0.087		1
Styrene	0.023	0.020	0.098	0.085		1
Tetrachloroethene	0.102	0.020	0.691	0.136		1
Toluene	1.54	0.020	5.81	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.032	0.020	0.172	0.107		1
Trichlorofluoromethane	0.318	0.050	1.78	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	11.1	2.00	26.3	4.75		1
2-Butanone	13.0	0.500	38.4	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-05
 Client ID: IMP-1
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/10 10:40
 Analyst: RY

Date Collected: 01/15/10 08:27
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbv		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.217	0.020	1.06	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.059	0.020	0.290	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.333	0.020	2.00	0.120		1
Benzene	0.302	0.100	0.964	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.086	0.020	0.541	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-05
 Client ID: IMP-1
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 08:27
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.464	0.050	2.29	0.247		1
Ethylbenzene	0.164	0.020	0.712	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.541	0.040	2.35	0.174		1
o-Xylene	0.192	0.020	0.833	0.087		1
Styrene	0.030	0.020	0.128	0.085		1
Tetrachloroethene	0.066	0.020	0.447	0.136		1
Toluene	1.28	0.020	4.81	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroelhene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.239	0.050	1.34	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	5.29	2.00	12.5	4.75		1
2-Butanone	0.897	0.500	2.64	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-06
 Client ID: IMP-2
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 01/20/10 11:57
 Analyst: RY

Date Collected: 01/15/10 08:20
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.127	0.020	0.692	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.238	0.020	1.17	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.068	0.020	0.334	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.330	0.020	1.98	0.120		1
Benzene	0.302	0.100	0.964	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.084	0.020	0.528	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.038	0.020	0.185	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

SAMPLE RESULTS

Lab ID: L1000748-06
 Client ID: IMP-2
 Sample Location: PROVIDENCE, RI

Date Collected: 01/15/10 08:20
 Date Received: 01/15/10
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.456	0.050	2.25	0.247		1
Ethylbenzene	0.166	0.020	0.720	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.611	0.040	2.65	0.174		1
o-Xylene	0.195	0.020	0.846	0.087		1
Styrene	0.052	0.020	0.221	0.085		1
Tetrachloroethene	0.740	0.020	5.01	0.136		1
Toluene	1.29	0.020	4.85	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	3.44	0.020	18.5	0.107		1
Trichlorofluoromethane	2.74	0.050	15.4	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	4.70	2.00	11.2	4.75		1
2-Butanone	0.544	0.500	1.60	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1000748

Project Number: 14687.01

Report Date: 01/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/20/10 01:40

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatiles Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG397368-4						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.100	ND	0.319		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1000748

Project Number: 14687.01

Report Date: 01/22/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 01/20/10 01:40

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatle Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG397368-4						
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
Methylene chloride	ND	0.800	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG397368-3									
1,1,1-Trichloroethane						70-130	-		70-130
1,1,1,2-Tetrachloroethane	96					70-130	-		70-130
1,1,2,2-Tetrachloroethane						70-130	-		70-130
1,1,2-Trichloroethane	95					70-130	-		70-130
1,1-Dichloroethane	100					70-130	-		70-130
1,1-Dichloroethene						70-130	-		70-130
1,2,4-Trimethylbenzene	107					70-130	-		70-130
1,2-Dibromoethane	99					70-130	-		70-130
1,2-Dichlorobenzene	108					70-130	-		70-130
1,2-Dichloroethane	93					70-130	-		70-130
1,2-Dichloropropane	90					70-130	-		70-130
1,3,5-Trimethylbenzene	105					70-130	-		70-130
1,3-Dichlorobenzene	107					70-130	-		70-130
1,4-Dichlorobenzene	105					70-130	-		70-130
Benzene	91					70-130	-		70-130
Bromodichloromethane	91					70-130	-		70-130
Bromoform						70-130	-		70-130
Carbon tetrachloride	95					70-130	-		70-130
Chlorobenzene	99					70-130	-		70-130
Chloroethane						70-130	-		70-130
Chloroform						70-130	-		70-130



Lab Control Sample Analysis

Lab Number: L1000748
 Report Date: 01/22/10

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Batch Quality Control

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	LCS %Recovery	Qual	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG397368-3									
Chloromethane									70-130
cis-1,2-Dichloroethene	95								70-130
cis-1,3-Dichloropropene	91								70-130
Dibromochloromethane	98								70-130
Dichlorodifluoromethane									70-130
Ethylbenzene	95								70-130
Methylene chloride	92								70-130
Methyl tert butyl ether	90								70-130
p/m-Xylene	99								70-130
o-Xylene	99								70-130
Styrene	101								70-130
Tetrachloroethene	98								70-130
Toluene	92								70-130
trans-1,2-Dichloroethene	94								70-130
trans-1,3-Dichloropropene	78								70-130
Trichloroethene	91								70-130
Trichlorofluoromethane									70-130
Vinyl chloride	102								70-130
Acrylonitrile									70-130
n-Butylbenzene									70-130
sec-Butylbenzene									70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L1000748
 Report Date: 01/22/10

Parameter	LCS		LCSD		%Recovery Limits		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual			
Volatile Organics in Air by SIM - Manafield Lab Associated sample(s): 01-06 Batch: WG397368-3									
Isopropylbenzene			-		70-130		-		
p-Isopropyltoluene			-		70-130		-		
Acetone	91		-		70-130		-		
2-Butanone	83		-		70-130		-		
4-Methyl-2-pentanone	79		-		70-130		-		



Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1000748
Report Date: 01/22/10

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG397368-5 QC Sample: L1000748-05 Client ID: IMP-1						
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.217	0.216	ppbV	0		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	0.059	0.054	ppbV	9		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	0.333	0.343	ppbV	3		25
Benzene	0.302	0.298	ppbV	1		25
Bromodichloromethane	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.086	0.081	ppbV	6		25
Chlorobenzene	ND	ND	ppbV	NC		25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000748
Report Date: 01/22/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG397368-5 QC Sample: L1000748-05 Client ID: IMP-1					
Chloroethane	ND	ND	ppbv	NC	25
Chloroform	ND	ND	ppbv	NC	25
Chloromethane	ND	ND	ppbv	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbv	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Dibromochloromethane	ND	ND	ppbv	NC	25
Dichlorodifluoromethane	0.464	0.466	ppbv		25
Ethylbenzene	0.164	0.163	ppbv		25
Methylene chloride	ND	ND	ppbv	NC	25
Methyl tert butyl ether	ND	ND	ppbv		25
p/m-Xylene	0.541	0.561	ppbv		25
o-Xylene	0.192	0.191	ppbv		25
Styrene	0.030	0.030	ppbv		25
Tetrachloroethene	0.066	0.070	ppbv		25
Toluene	1.28	1.27	ppbv		25
trans-1,2-Dichloroethene	ND	ND	ppbv	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Trichloroethene	ND	ND	ppbv	NC	25
Trichlorofluoromethane	0.239	0.225	ppbv		25



Lab Duplicate Analysis Batch Quality Control

Lab Number: L1000748
Report Date: 01/22/10

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG397368-5 QC Sample: L1000748-05 Client ID: IMP-1					
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
Acetone	5.29	5.45	ppbV	8	25
2-Butanone	0.897	0.829	ppbV	8	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25



Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

01221014:06

Lab Number: L1000748

Report Date: 01/22/10

Canister and Flow Controller Information

Sample Num	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1000748-01	MP-1	0325	#90 SV		-	-	71	71	0
L1000748-01	MP-1	395	2.7L Can	10918756	-29.2	-2.0	-	-	-
L1000748-02	MP-3	0182	#16 AMB		-	-	70	69	1
L1000748-02	MP-3	552	2.7L Can	10918756	-29.1	-4.2	-	-	-
L1000748-03	MP-4	0315	#90 SV		-	-	72	77	7
L1000748-03	MP-4	494	2.7L Can	10918755	-29.4	1.8	-	-	-
L1000748-04	MP-6	0288	#90 SV		-	-	72	73	1
L1000748-04	MP-6	187	2.7L Can	10918756	-29.4	-3.0	-	-	-
L1000748-05	IMP-1	0364	#90 SV		-	-	68	67	1
L1000748-05	IMP-1	468	2.7L Can	10918756	-29.4	-5.8	-	-	-
L1000748-06	IMP-2	0172	#90 SV		-	-	69	70	1
L1000748-06	IMP-2	460	2.7L Can	10918755	-29.4	-5.6	-	-	-



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1000748

Project Number: 14687.01

Report Date: 01/22/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1000748-01A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000748-02A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000748-03A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000748-04A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000748-05A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L1000748-06A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)

*Hold days indicated by values in parentheses



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L1000748
Report Date: 01/22/10

GLOSSARY

Acronyms

- EPA · Environmental Protection Agency.
- LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCS D · Laboratory Control Sample Duplicate: Refer to LCS.
- MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MS D · Matrix Spike Sample Duplicate: Refer to MS.
- NA · Not Applicable.
- NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND · Not detected at the reported detection limit for the sample.
- NI · Not Ignitable.
- RDL · Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A · Spectra identified as "Aldol Condensation Product".
- B · The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P · The RPD between the results for the two columns exceeds the method-specified criteria.
- Q · The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
- R · Analytical results are from sample re-analysis.
- RE · Analytical results are from sample re-extraction.
- J · Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1000748

Project Number: 14687.01

Report Date: 01/22/10

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised December 15, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 3005A, 3020, 6020, 245.1, 245.7, 1631E, 7470A, 7474, 9014, 120.1, 9050A, 180.1, SM4500H-B, 2320B, 2510B, 2540D, 9040. Organic Parameters: EPA 3510C, 5030B, 9010B, 624, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3051, 6020, 747A, 7474, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C: Biphenyl.**

ALPHA CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3288

AIR ANALYSIS

PAGE 1 OF 1

Client Information

Client: EA Engineering
 Address: 3350 Post Rd
Marwick Rt 02886
 Phone: 901-356-3440
 Fax: 401-756-3423
 Email:

Project Information

Project Name: Alvarez
 Project Location: Pavilidge, RT
 Project #: 14657.01
 Project Manager: Mark Saper
 ALPHA Quote #:
 Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
 Date Due: Time:

Report Information - Data Deliverables

FAX
 ADEX
 Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)
 Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
 Report to: (if different than Project Manager)
mark.saper@ea.com

Date Rec'd in Lab:

ALPHA Job #:

4100748

Billing Information

Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Reg Program Criteria
CT DEPACT I Annual
ATL COCEN/RAADS

ANALYSIS

- TO-14A by TO-15
- TO-15
- TO-15 SIM
- APH
- FIXED GASES
- TO-13A
- TO-17/TO-10

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID Flow Controller	Sample Comments (i.e. PID)	
		Date	Start Time	End Time	Initial Vacuum							Final Vacuum
00148-1	MP-1	1/15/10	1209	1238	-30	-3	SV	DAF	22L	585	0325	PID Rdy = 2668ppm
2	MP-3	12/17	1247		-30 ⁺	-9				552	0152	= 0.874
3	MP-4		1231	1302	-30	0				494	0315	= 0.018
4	MP-6		1221	1251	-30 ⁺	-9				187	0288	= 0.148
5	IMP-1		0555	0523	-30	4				469	0364	= 118.3
6	IMP-2		0756	0826	-36 ⁺	-11				468	0722	= 66.7

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor (Landfill) Gas/SVE
 Other: Please Specify

Relinquished By:

Date/Time: 1/15/10 12:06 PM

Received By:

Date/Time: 1/15/10 1706

Container Type

Please print clearly, legibly and completely. Samples can not be logged in any other way. All samples are analyzed and analyzed. All samples submitted are submitted to Alpha's Lab. See reverse side.

Appendix D

Rooftop Effluent Analytical Summary and Lab Report

Volatile Organic Compounds	ROOFTOP FAN 1 (Measured air flow = 108 cfm)			CUMULATIVE EMISSIONS (3 fans combined)		
	Concentration (ug/m ³)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)
1,1,1,2-Tetrachloroethane	0.14 U	5.26E-08	1.26E-06	1.48E-07	3.56E-06	1.30E-03
1,1,1-Trichloroethane	3.580	1.38E-06	3.30E-05	3.56E-06	8.54E-05	3.12E-02
1,1,2,2-Tetrachloroethane	0.137 U	5.26E-08	1.26E-06	1.48E-07	3.56E-06	1.30E-03
1,1,2-Trichloroethane	0.109 U	4.19E-08	1.01E-06	1.18E-07	2.83E-06	1.03E-03
1,1-Dichloroethane	0.117	4.50E-08	1.08E-06	1.02E-07	2.44E-06	8.89E-04
1,1-Dichloroethene	0.079 U	3.04E-08	7.29E-07	8.55E-08	2.05E-06	7.49E-04
1,2,4-Trimethylbenzene	0.840	3.23E-07	7.75E-06	1.13E-06	2.71E-05	9.91E-03
1,2-Dibromoethane	0.154 U	5.92E-08	1.42E-06	1.67E-07	4.00E-06	1.46E-03
1,2-Dichlorobenzene	0.120 U	4.61E-08	1.11E-06	1.30E-07	3.12E-06	1.14E-03
1,2-Dichloroethane	0.109	4.19E-08	1.01E-06	9.85E-08	2.36E-06	8.62E-04
1,2-Dichloropropane	0.092 U	3.54E-08	8.49E-07	9.96E-08	2.39E-06	8.72E-04
1,3,5-Trimethylbenzene	0.378	1.45E-07	3.49E-06	4.79E-07	1.15E-05	4.20E-03
1,3-Dichlorobenzene	0.120 U	4.61E-08	1.11E-06	1.30E-07	3.12E-06	1.14E-03
1,4-Dichlorobenzene	6.010	2.31E-06	5.54E-05	5.38E-06	1.29E-04	4.72E-02
2-Butanone	0.791	3.04E-07	7.30E-06	1.76E-06	4.22E-05	1.54E-02
4-Methyl-2-pentanone	0.500 U	1.92E-07	4.61E-06	1.62E-06	3.90E-05	1.42E-02
Acetone	10.600	4.07E-06	9.78E-05	1.94E-05	4.66E-04	1.70E-01
Acrylonitrile	0.500 U	1.92E-07	4.61E-06	9.46E-07	2.27E-05	8.29E-03
Benzene	0.495	1.90E-07	4.57E-06	5.53E-07	1.33E-05	4.84E-03
Bromodichloromethane	0.134 U	5.15E-08	1.24E-06	1.45E-07	3.48E-06	1.27E-03
Bromoform	0.206 U	7.92E-08	1.90E-06	2.23E-07	5.35E-06	1.95E-03
Carbon tetrachloride	0.616	2.37E-07	5.68E-06	6.73E-07	1.62E-05	5.90E-03
Chlorobenzene	0.092 U	3.54E-08	8.49E-07	9.96E-08	2.39E-06	8.72E-04
Chloroethane	0.161	6.19E-08	1.48E-06	1.33E-07	3.20E-06	1.17E-03
Chloroform	0.439	1.69E-07	4.05E-06	5.83E-07	1.40E-05	5.11E-03
Chloromethane	2.440 U	9.38E-07	2.25E-05	2.64E-06	6.34E-05	2.31E-02
cis-1,2-Dichloroethene	0.127	4.88E-08	1.17E-06	1.04E-07	2.50E-06	9.11E-04
cis-1,3-Dichloropropene	0.091 U	3.50E-08	8.39E-07	9.85E-08	2.36E-06	8.63E-04
Dibromochloromethane	0.096 U	3.69E-08	8.85E-07	1.04E-07	2.49E-06	9.10E-04
Dichlorodifluoromethane	2.660	1.02E-06	2.45E-05	2.93E-06	7.03E-05	2.57E-02
Ethylbenzene	0.226	8.68E-08	2.08E-06	5.03E-07	1.21E-05	4.41E-03
Isopropylbenzene	2.460 U	9.45E-07	2.27E-05	2.66E-06	6.39E-05	2.33E-02
Methyl tert butyl ether	0.072 U	2.77E-08	6.64E-07	7.79E-08	1.87E-06	6.83E-04
Methylene chloride	1.740 U	6.69E-07	1.60E-05	1.88E-06	4.52E-05	1.65E-02
n-Butylbenzene	2.740 U	1.05E-06	2.53E-05	2.97E-06	7.12E-05	2.60E-02
o-Xylene	0.273	1.05E-07	2.52E-06	3.77E-07	9.05E-06	3.30E-03
p-Isopropyltoluene	2.740 U	1.05E-06	2.53E-05	2.97E-06	7.12E-05	2.60E-02
p/m-Xylene	0.764	2.94E-07	7.05E-06	1.26E-06	3.03E-05	1.10E-02
sec-Butylbenzene	2.740 U	1.05E-06	2.53E-05	2.97E-06	7.12E-05	2.60E-02
Styrene	0.179	6.88E-08	1.65E-06	1.51E-07	3.63E-06	1.33E-03
Tetrachloroethene	33.000	1.27E-05	3.04E-04	5.44E-05	1.31E-03	4.76E-01
Toluene	0.956	3.67E-07	8.82E-06	1.42E-06	3.42E-05	1.25E-02
trans-1,2-Dichloroethene	0.079 U	3.04E-08	7.29E-07	8.55E-08	2.05E-06	7.49E-04
trans-1,3-Dichloropropene	0.091 U	3.50E-08	8.39E-07	9.85E-08	2.36E-06	8.63E-04
Trichloroethene	100.000	3.84E-05	9.22E-04	8.91E-05	2.14E-03	7.81E-01
Trichlorofluoromethane	119.000	4.57E-05	1.10E-03	1.57E-04	3.76E-03	1.37E+00
Vinyl chloride	0.051 U	1.96E-08	4.70E-07	5.52E-08	1.33E-06	4.84E-04
Total VOCs	2.99E+02	Not Applicable	Not Applicable	Not Applicable	Not Applicable	3.17E+00
RIDEM Air Pollution Control Permit Applicability Thresholds (lbs) *		10	100	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)

U indicates that chemical was not detected by the laboratory. To be conservative, the
Hourly Emissions (lbs/hour) = VOC concentration (ug/m³) x measured flow rate (cfm) x
Daily Emissions (lbs/day) = Hourly Emissions x 24 hours/day
Yearly Emissions (lbs/year) = Daily Emissions x 365 days/year
* RIDEM Air Pollution Control Regulation No. 9 [August 1971, Amended April 2004]



ANALYTICAL REPORT

Lab Number: L0912807
Client: EA Engineering, Science and Tech
2350 Post Road
Warwick, RI 02886
ATTN: Mark Speer
Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01
Report Date: 09/21/09

Certifications & Approvals MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030),
PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0912807-01	ROOFTOP FAN 1	PROVIDENCE, RI	09/11/09 11:30
L0912807-02	ROOFTOP FAN 2	PROVIDENCE, RI	09/11/09 11:25
L0912807-03	ROOFTOP FAN 3	PROVIDENCE, RI	09/11/09 10:32

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Case Narrative

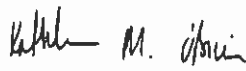
The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative

Date: 09/21/09

AIR

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L0912807
 Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-01
 Client ID: ROOFTOP FAN 1
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/18/09 22:29
 Analyst: RY

Date Collected: 09/11/09 11:30
 Date Received: 09/14/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.656	0.020	3.58	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	0.029	0.020	0.117	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.171	0.020	0.840	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	0.027	0.020	0.109	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.077	0.020	0.378	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	1.00	0.020	6.01	0.120		1
Benzene	0.155	0.070	0.495	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.098	0.020	0.616	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.061	0.020	0.161	0.053		1
Chloroform	0.090	0.020	0.439	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	0.032	0.020	0.127	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L0912807
 Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-01
 Client ID: ROOFTOP FAN 1
 Sample Location: PROVIDENCE, RI

Date Collected: 09/11/09 11:30
 Date Received: 09/14/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.538	0.050	2.66	0.247		1
Ethylbenzene	0.052	0.020	0.226	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.176	0.040	0.764	0.174		1
o-Xylene	0.063	0.020	0.273	0.087		1
Styrene	0.042	0.020	0.179	0.085		1
Tetrachloroethene	4.87	0.020	33.0	0.136		1
Toluene	0.254	0.020	0.956	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	18.7	0.020	100	0.107		1
Trichlorofluoromethane	21.2	0.050	119	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	10.6	2.00	25.2	4.75		1
2-Butanone	0.791	0.500	2.33	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L0912807
 Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-02
 Client ID: ROOFTOP FAN 2
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/18/09 23:46
 Analyst: RY

Date Collected: 09/11/09 11:25
 Date Received: 09/14/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.577	0.020	3.14	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.170	0.020	0.835	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.058	0.020	0.285	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	1.35	0.020	8.10	0.120		1
Benzene	0.184	0.070	0.587	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.098	0.020	0.616	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.055	0.020	0.145	0.053		1
Chloroform	0.119	0.020	0.580	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L0912807
 Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-02
 Client ID: ROOFTOP FAN 2
 Sample Location: PROVIDENCE, RI

Date Collected: 09/11/09 11:25
 Date Received: 09/14/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air by SIM - Mansfield Lab					
Dichlorodifluoromethane	0.537	0.050	2.65	0.247	1
Ethylbenzene	0.049	0.020	0.212	0.087	1
Methylene chloride	ND	0.500	ND	1.74	1
Methyl tert butyl ether	ND	0.020	ND	0.072	1
p/m-Xylene	0.175	0.040	0.759	0.174	1
o-Xylene	0.062	0.020	0.269	0.087	1
Styrene	0.032	0.020	0.136	0.085	1
Tetrachloroethene	1.90	0.020	12.8	0.136	1
Toluene	0.217	0.020	0.817	0.075	1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079	1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091	1
Trichloroethene	18.7	0.020	100	0.107	1
Trichlorofluoromethane	41.7	0.050	234	0.281	1
Vinyl chloride	ND	0.020	ND	0.051	1
Acrylonitrile	ND	0.500	ND	1.08	1
n-Butylbenzene	ND	0.500	ND	2.74	1
sec-Butylbenzene	ND	0.500	ND	2.74	1
Isopropylbenzene	ND	0.500	ND	2.46	1
p-Isopropyltoluene	ND	0.500	ND	2.74	1
Acetone	6.34	2.00	15.0	4.75	1
2-Butanone	ND	0.500	ND	1.47	1
4-Methyl-2-pentanone	ND	0.500	ND	2.05	1

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L0912807
 Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-03
 Client ID: ROOFTOP FAN 3
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/19/09 00:25
 Analyst: RY

Date Collected: 09/11/09 10:32
 Date Received: 09/14/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air by SIM - Mansfield Lab					
1,1,1-Trichloroethane	0.571	0.020	3.11	0.109	1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137	1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137	1
1,1,2-Trichloroethane	ND	0.020	ND	0.109	1
1,1-Dichloroethane	ND	0.020	ND	0.081	1
1,1-Dichloroethene	ND	0.020	ND	0.079	1
1,2,4-Trimethylbenzene	0.311	0.020	1.53	0.098	1
1,2-Dibromoethane	ND	0.020	ND	0.154	1
1,2-Dichlorobenzene	ND	0.020	ND	0.120	1
1,2-Dichloroethane	ND	0.020	ND	0.081	1
1,2-Dichloropropane	ND	0.020	ND	0.092	1
1,3,5-Trimethylbenzene	0.143	0.020	0.702	0.098	1
1,3-Dichlorobenzene	ND	0.020	ND	0.120	1
1,4-Dichlorobenzene	1.58	0.020	9.51	0.120	1
Benzene	0.138	0.070	0.440	0.223	1
Bromodichloromethane	ND	0.020	ND	0.134	1
Bromoform	ND	0.020	ND	0.206	1
Carbon tetrachloride	0.101	0.020	0.635	0.126	1
Chlorobenzene	ND	0.020	ND	0.092	1
Chloroethane	ND	0.020	ND	0.053	1
Chloroform	0.125	0.020	0.610	0.098	1
Chloromethane	ND	0.500	ND	2.44	1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079	1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091	1
Dibromochloromethane	ND	0.020	ND	0.096	1

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L0912807
 Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-03
 Client ID: ROOFTOP FAN 3
 Sample Location: PROVIDENCE, RI

Date Collected: 09/11/09 10:32
 Date Received: 09/14/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.572	0.050	2.83	0.247		1
Ethylbenzene	0.239	0.020	1.04	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.486	0.040	2.11	0.174		1
o-Xylene	0.122	0.020	0.529	0.087		1
Styrene	0.023	0.020	0.098	0.085		1
Tetrachloroethene	16.9	0.020	114	0.136		1
Toluene	0.617	0.020	2.32	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	7.62	0.020	40.9	0.107		1
Trichlorofluoromethane	12.8	0.050	72.1	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	12.7	2.00	30.1	4.75		1
2-Butanone	0.946	0.500	2.79	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/18/09 15:39

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG380459-4						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Butadiene	ND	0.020	ND	0.044		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Bromomethane	ND	0.020	ND	0.078		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/18/09 15:39

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG380459-4						
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	ND	0.383		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ND	0.349		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
Naphthalene	ND	0.050	ND	0.262		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
1,2,4-Trichlorobenzene	ND	0.050	ND	0.371		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Hexachlorobutadiene	ND	0.050	ND	0.192		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1

Project Name: ALVAREZ HIGH SCHOOL
 Project Number: 14687.01

Lab Number: L0912807
 Report Date: 09/21/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/18/09 15:39

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG380459-4						
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Halothane	ND	0.050	ND	0.403		1
1,2,3-Trichlorobenzene	ND	0.050	ND	0.371		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG380459-3					
1,1,1-Trichloroethane	116	-	70-130	-	-
1,1,1,2-Tetrachloroethane	105	-	70-130	-	-
1,1,2,2-Tetrachloroethane	103	-	70-130	-	-
1,1,2-Trichloroethane	113	-	70-130	-	-
1,1-Dichloroethane	105	-	70-130	-	-
1,1-Dichloroethene	99	-	70-130	-	-
1,2,4-Trimethylbenzene	100	-	70-130	-	-
1,2-Dibromoethane	98	-	70-130	-	-
1,2-Dichlorobenzene	101	-	70-130	-	-
1,2-Dichloroethane	123	-	70-130	-	-
1,2-Dichloropropane	105	-	70-130	-	-
1,3,5-Trimethylbenzene	100	-	70-130	-	-
1,3-Butadiene	98	-	70-130	-	-
1,3-Dichlorobenzene	102	-	70-130	-	-
1,4-Dichlorobenzene	99	-	70-130	-	-
Benzene	92	-	70-130	-	-
Bromodichloromethane	106	-	70-130	-	-
Bromoform	107	-	70-130	-	-
Bromomethane	91	-	70-130	-	-
Carbon tetrachloride	120	-	70-130	-	-
Chlorobenzene	107	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	LCS %Recovery	LCS %Recovery	LCS %Recovery	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG380459-3					
Chloroethane	102	-	70-130	-	-
Chloroform	117	-	70-130	-	-
Chloromethane	100	-	70-130	-	-
cis-1,2-Dichloroethene	104	-	70-130	-	-
cis-1,3-Dichloropropene	93	-	70-130	-	-
Dibromochloromethane	106	-	70-130	-	-
Dichlorodifluoromethane	121	-	70-130	-	-
Ethylbenzene	104	-	70-130	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	105	-	70-130	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	118	-	70-130	-	-
Methylene chloride	96	-	70-130	-	-
Methyl tert butyl ether	99	-	70-130	-	-
Naphthalene	70	-	70-130	-	-
p/m-Xylene	106	-	70-130	-	-
o-Xylene	105	-	70-130	-	-
Styrene	100	-	70-130	-	-
Tetrachloroethene	104	-	70-130	-	-
Toluene	92	-	70-130	-	-
trans-1,2-Dichloroethene	96	-	70-130	-	-
trans-1,3-Dichloropropene	78	-	70-130	-	-
Trichloroethene	101	-	70-130	-	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG380459-3					
1,2,4-Trichlorobenzene	79	-	70-130	-	-
Trichlorofluoromethane	126	-	70-130	-	-
Hexachlorobutadiene	88	-	70-130	-	-
Vinyl chloride	105	-	70-130	-	-
Acrylonitrile	92	-	70-130	-	-
n-Butylbenzene	75	-	70-130	-	-
sec-Butylbenzene	83	-	70-130	-	-
Isopropylbenzene	89	-	70-130	-	-
p-Isopropyltoluene	74	-	70-130	-	-
Acetone	91	-	70-130	-	-
2-Butanone	88	-	70-130	-	-
4-Methyl-2-pentanone	100	-	70-130	-	-
Halothane	120	-	70-130	-	-
1,2,3-Trichlorobenzene	77	-	70-130	-	-



Lab Duplicate Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG380459-5 QC Sample: L0912807-01 Client ID: ROOFTOP FAN 1					
1,1,1-Trichloroethane	0.656	0.660	ppbV	1	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	0.029	0.031	ppbV	7	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.171	0.163	ppbV	5	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	0.027	0.026	ppbV	4	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	0.077	0.071	ppbV	8	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	1.00	0.951	ppbV	5	25
Benzene	0.155	0.195	ppbV	23	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.098	0.099	ppbV	1	25
Chlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG380459-5 QC Sample: L0912807-01 Client ID: ROOFTOP FAN 1					
Chloroethane	0.061	0.059	ppbV	3	25
Chloroform	0.090	0.090	ppbV	0	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	0.032	0.033	ppbV	3	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.538	0.549	ppbV	2	25
Ethylbenzene	0.052	0.049	ppbV	6	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	0.176	0.167	ppbV	5	25
o-Xylene	0.063	0.059	ppbV	7	25
Styrene	0.042	0.041	ppbV	2	25
Tetrachloroethene	4.87	4.83	ppbV	1	25
Toluene	0.254	0.250	ppbV	2	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	18.7	18.7	ppbV	0	25
Trichlorofluoromethane	21.2	22.0	ppbV	4	25

Lab Duplicate Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG380459-5 QC Sample: L0912807-01 Client ID: ROOFTOP					
FAN 1					
Vinyl chloride	ND	ND	ppbv	NC	25
Acrylonitrile	ND	ND	ppbv	NC	25
n-Butylbenzene	ND	ND	ppbv	NC	25
sec-Butylbenzene	ND	ND	ppbv	NC	25
Isopropylbenzene	ND	ND	ppbv	NC	25
p-Isopropyltoluene	ND	ND	ppbv	NC	25
Acetone	10.6	10.4	ppbv	2	25
2-Butanone	0.791	0.768	ppbv	3	25
4-Methyl-2-pentanone	ND	ND	ppbv	NC	25



Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

09210915:19

Lab Number: L0912807

Report Date: 09/21/09

Canister and Flow Controller Information

Sample Num	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0912807-01	ROOFTOP FAN 1	139	2.7L Can	I0912468	-29.8	-3.3	-	-	-
L0912807-02	ROOFTOP FAN 2	455	2.7L Can	I0912468	-29.8	-1.6	-	-	-
L0912807-03	ROOFTOP FAN 3	231	2.7L Can	I0912468	-29.8	-1.7	-	-	-



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0912807-01A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L0912807-02A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L0912807-03A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)

*Hold days indicated by values in parentheses

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

GLOSSARY

Acronyms

- EPA · Environmental Protection Agency.
- LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD · Laboratory Control Sample Duplicate: Refer to LCS.
- MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD · Matrix Spike Sample Duplicate: Refer to MS.
- NA · Not Applicable.
- NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND · Not detected at the reported detection limit for the sample.
- NI · Not Ignitable.
- RDL · Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** · Spectra identified as "Aldol Condensation Product".
- B** · The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D** · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P** · The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** · The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
- R** · Analytical results are from sample re-analysis.
- RE** · Analytical results are from sample re-extraction.
- J** · Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

ALPHA ANALYSIS CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-8300 FAX: 508-822-3288

AIR ANALYSIS

Page 1 of 1

Project Information

Project Name: Alvarez Hill School
Project Location: Residence P1
Project #: 141087.01
Project Manager: Mick Steer
ALPHA Quote #:

Report Information - Data Deliverables

Date Rec'd in Lab: _____
 FAX
 INDEX
Criteria Checker: Patricia Seavick
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____
Report to: (if different than Project Manager)

Billing Information

ALPHA Job #: 40912807
 Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed: _____ Program: _____ Criteria: _____

Client: EA ENGINEERING
Address: 2350 Post Road
Wenick RI 02886
Phone: 401 736-3440 x218
Fax: _____
Email: mac@eaest.com
 These samples have been previously analyzed by Alpha

Project Location: Residence P1
Project #: 141087.01
Project Manager: Mick Steer
ALPHA Quote #:
Turn-Around Time:
 Standard RUSH (only confirmed if pre-approved)
Date Due: _____ Time: _____

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)

Sample ID

Date

Start Time

End Time

Vacuum

Initial Vacuum

Final Vacuum

Sample Matrix*

Sampler's Initials

Can Size

1 D Can

1 D - Flow Controller

Sample Comments (i.e. PID)

ALPHA Lab ID (Lab Use Only)	Sample ID	Date	Start Time	End Time	Vacuum	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	1 D Can	1 D - Flow Controller	Sample Comments (i.e. PID)
128071	ROOFER FAN 1	9/11/09	11:30	-	18	1	SV	PM	13A	*			No NO ₂ concentration
2	ROOFER FAN 2	11:25	-	28	4								PD=31ppb
3	ROOFER FAN 3	10:32	-	30+	1								PID=69ppb

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/soil/fill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

[Signature]

9/11/09 11:40

[Signature]

9/14/09 11:45

Please print clearly, legibly and on time. Samples can not be analyzed until all information is provided and subject to Alpha's Standard Conditions. See reverse side.

Appendix E

Laboratory Reporting Limits Correspondence



January 20, 2010

To: Ron Mack
EA Engineering, Science, & Technology
2350 Post Road
Warwick, RI 02886

From: Katie O'Brien
Alpha Analytical
320 Forbes Blvd
Mansfield, MA 01581

Re: TO15 SIM Reporting Limits

Dear Ron,

As we communicated prior to the TO-15 SIM analyses completed for the Alvarez High School air samples collected on January 15th; the SIM Reporting Limits achieved for the following compounds are the lowest that we can currently achieve at Alpha. Please note that these reporting limits are above the Draft Proposed CT RSR (Residential) Criteria for these compounds:

1,2-Dichloroethane SIM RL = 0.08 ug/m³
Ethylene Dibromide (a.k.a. 1,2-Dibromoethane) SIM RL = 0.15 ug/m³
1,1,1,2- Tetrachloroethane SIM RL = 0.14 ug/m³
1,1,2,2-Tetrachloroethane SIM RL = 0.14 ug/m³
Bromodichloromethane SIM RL = 0.13 ug/m³

Please don't hesitate to contact me at 508-844-4156 if you have any questions.

Best Regards,

Katie O'Brien