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EA Engineering, Science, and Technology, Inc.

18 July 2013

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

RE: *Quarterly O&M Status Report No. 23*
Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island
Case No. 2005-029
EA Project No. 14687.01.0002

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 for the period from March 2013 through May 2013.

If you have any questions or require additional information, please contact me at (401) 736-3440, Ext. 203.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

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

cc: C. Jones, Prov. Dept. of Public Schools
Director, Prov. Redevelopment Agency
J. Padwa, City of Prov. Law Department
R. Dorr, Neighborhood Resident
Rep. Scott Slater
Knight Memorial Library Repository

A. Sepe, Prov. Dept. of Public Property
S. Fischbach, RI Legal Services
J. Ryan, Partridge, Snow, & Hahn
J. Pichardo, Senator
Principal Rivers, Alvarez High School



Quarterly O&M Status Report No. 23

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.
2374 Post Road, Suite 102
Warwick, Rhode Island 02886
(401) 736-3440

EA Project No. 14687.01.0002
July 2013

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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. 23 for the Parcel B area of the former Gorham Manufacturing site in Providence, Rhode Island, formerly referred to as Adelaide Avenue High School and now referred to as Alvarez High School (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 OA 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 March 2013 through May 2013 (Quarterly Reporting Period No. 23) 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 Quarterly O&M Status Reports No. 1 through No. 22 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 provided as Figure 3.
- 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 locations were between -0.01 and -0.16 in. of water column. These measurements confirm that continuous negative pressure has been maintained beneath the building slab.

On 23 April 2013 an alarm sounded from the control panel for the indoor methane monitoring system, indicate that power had been lost to the continuous methane sensors. The alarm event is further discussed in Section 2.2, below. Inspections and monitoring of all other system equipment revealed proper system operation. 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 continuously monitored by an indoor methane monitoring system (equipped with automatic alarm notification via audible signal and phone notification) within the school at eight RIDEM-approved locations (refer to the Indoor Air Sampling and Methane Monitoring System Diagram provided as Figure 2) during this reporting period. In addition, the methane monitoring system was inspected and filters were replaced on 29 April 2013.

Alvarez High School personnel contacted EA at approximately 1:30 PM on 23 April 2013 to notify EA of an alarm sounding from the control panel for the indoor methane monitoring system

in the administrative office. EA arrived at the site at approximately 2:00 PM and discovered an alarm emanating from the PS-7000 Channel Controller unit in the school's administrative office. The controller was operational at this time and readings were consistent with normal values.

Upon closer inspection, it was determined that the alarm was resultant from a temporary failure of the uninterrupted power supply (UPS). EA reset the UPS and the indoor methane monitoring system. The subslab vacuum was verified from several subslab monitoring locations following the system restart. The continuous subslab negative pressure was not interrupted during the system outage because the rooftop fans run separately from the indoor methane monitoring system and power was not lost to the building. Additionally, a review of the stored data points in the control panel's history showed no exceedances.

The UPS remained functional following manual reset; however, the cause of the temporary failure could not be identified. A similar alarm sounding and response occurred on 12 February 2013, as discussed in Quarterly Status Report No. 22. EA attempted to replace the malfunctioning UPS on 9 May 2013; however, the UPS is hardwired into the electrical system the school and will require an electrician to install. EA has contacted Providence School Department personnel to coordinate the installation of the UPS.

EA contacted the manufacturer (DOD Industries, Inc.) of the PS-7000 Channel Controller to determine if a temporary loss of power would affect the unit's internal calibration curves. The technician recommended recalibration of the unit to assure that the curves were not affected. DOD Industries, Inc. and EA recalibrated the system on 9 May 2013.

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 29 April 2013. The outdoor ambient sample was collected from the south side of the school (upwind) to ensure that system emission was not captured in the sample. Sampling locations are shown on the Indoor Air Sampling and Methane Monitoring System Diagram provided as Figure 2. 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 method reporting limits (MRLs) 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 MRL verification letter from Con-Test Analytical Laboratory (Con-Test) is provided in Appendix F. A data summary table and copies of the laboratory data reports associated with this sampling event are provided in Appendix C.

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 and 0.77 $\mu\text{g}/\text{m}^3$ (the CT RTAC is 0.5 $\mu\text{g}/\text{m}^3$). Similarly, the ambient outdoor and indoor air concentrations of carbon

tetrachloride observed during the 29 April 2013 sampling event ranged between 0.47 and 0.54 $\mu\text{g}/\text{m}^3$. 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.

All eight ambient indoor air samples collected during the April 2013 sampling event contained 1,2-Dichloroethane (1,2-DCA) at concentrations ranging between 0.091 and 0.160 $\mu\text{g}/\text{m}^3$, exceeding the CT RTAC of 0.07 $\mu\text{g}/\text{m}^3$ and the RIDEM 1,2-DCA Action Level of 0.08 $\mu\text{g}/\text{m}^3$. The compound 1,2-DCA was detected in the ambient outdoor sample at a concentration of 0.084 $\mu\text{g}/\text{m}^3$, also in excess of the CT RTAC and the RIDEM Action Level. EA contacted Con-Test on 13 June 2013 to inquire about possible laboratory contamination or a reporting error. Con-Test determined that the results were good based on the QA/QC data and an analysis of other samples in the analytical sequence. EA believes the exceedances result from an external source and not from a soil vapor pathway because 1,2-DCA was also detected in the ambient outdoor air at a concentration in excess of the applicable standards. However, similar results were observed during the previous quarterly sampling event as discussed in Quarterly Status Report No. 22 so an additional investigation into the presence of 1,2-DCA will be conducted during the next quarterly reporting period.

EA relayed these findings to RIDEM. RIDEM indicated that Textron had initiated remedial efforts to address the source of the groundwater plume in the same time frame as the 1,2-DCA detection. EA contacted Textron to determine the activities that had been conducted immediately prior to and during our sampling event. Textron indicated that only shallow trenching had occurred and no significant impacts had been encountered that would cause 1,2-DCA to be detected in the soil gas, indoor air and ambient air. Additionally, Textron had not initiated the operation of the pump and treat system until after the sampling event.

All other compounds analyzed were below the applicable CT RTACs for all samples collected on 29 April 2013.

2.4 SUBSLAB VAPOR SAMPLING AND EVALUATION OF POTENTIAL VOC REBOUND EFFECT

A total of 11 RIDEM-approved subslab sampling locations are installed at the Site. 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 29 April 2013 in accordance with the Amended OA. The subslab data is summarized in Appendix D, along with copies of the laboratory data reports associated with these sampling events.

1,2-DCA was detected in five of the subslab samples at concentrations ranging from 0.060 $\mu\text{g}/\text{m}^3$ to 0.190 $\mu\text{g}/\text{m}^3$. Four of the subslab samples had 1,2-DCA concentrations lower than any of the ambient air samples. The fact that the subslab concentrations were generally less than the indoor air concentrations further supports the conclusion that subslab vapor intrusion is not occurring; however, elevated concentrations were observed in two subslab locations. As indicated in

Section 2.3, an additional investigation into the presence of 1,2-DCA will be conducted during the next quarterly reporting period.

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 on 20 July 2012 and 31 August 2012 and is summarized in Appendix D. No exceedances of the RIDEM Air Pollution Control Permit Applicability Thresholds for hourly, daily, or yearly emissions were observed. The 2013 annual rooftop effluent VOC sampling event is scheduled for July 2013 to accommodate the quarterly sampling schedule.

Previous rooftop effluent sampling rounds conducted in March 2007 (immediately after SSD system startup), June 2007, June 2008, September 2009, July 2010, and July 2011 indicated compliance with all Air Pollution Control Permit Applicability Thresholds. In general, the VOC concentrations in the rooftop effluent associated with the July 2012 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:

- The consistent negative pressure maintained below the floor slab indicates that soil vapor intrusion into the Alvarez High School is not occurring.
- Subslab vapor rebound is not occurring at the school, based on analytical data from this sampling event.
- The indoor methane monitoring system alarm on 23 April 2013 does not appear to have interrupted the continuous subslab negative pressure during the outage because the rooftop fans run separately from the indoor methane monitoring system and power was not lost to the entire building. In addition, methane remained undetected (0 parts per million) by the continuous methane sensors following the system restart. The subslab vacuum was verified from several subslab monitoring locations following the system restart.
- The UPS remained functional following manual reset; however, the cause of the temporary failure could not be identified. EA will replace the UPS in response to the failure. EA will continue to monitor the UPS and the indoor methane monitoring system integrity.

- The indoor methane monitoring system was calibrated on 9 May 2013 by DOD Industries, Inc.
- 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 and 0.77 ug/m³. 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.
- The compound 1,2-DCA has been detected in exceedance of the CT RTAC and RIDEM Action Levels in ambient indoor and outdoor air samples during this sampling period and the previous sampling period. It is not believed to be resultant from subslab vapor intrusion because the ambient air samples had higher concentrations than the subslab samples. Additional investigation will be conducted during the next quarterly reporting period to determine the source of the compound or if the concentrations are consistent with documented background levels.
- Further investigation of the 1,2-DCA detections will be conducted during the July sampling event. EA will split several samples with the Rhode Island Department of Health's Air Quality Laboratory to rule out laboratory interferences in the analyses of the samples. Additionally, EA will add an additional split sample located a significant distance (greater than 200 ft) from the school to determine if ambient air conditions are being impacted by a new 1,2-DCA source. The result will be coordinated with the Rhode Island Department of Health's ambient air quality monitoring program to understand the nature of 1,2-DCA detections on a larger scale.

3. FUTURE ACTIVITIES AND NEXT QUARTERLY SUMMARY REPORT

The following activities will be completed in accordance with the Amended OA during the next quarterly status reporting period ending 31 August 2013:

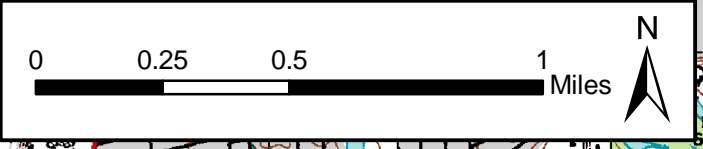
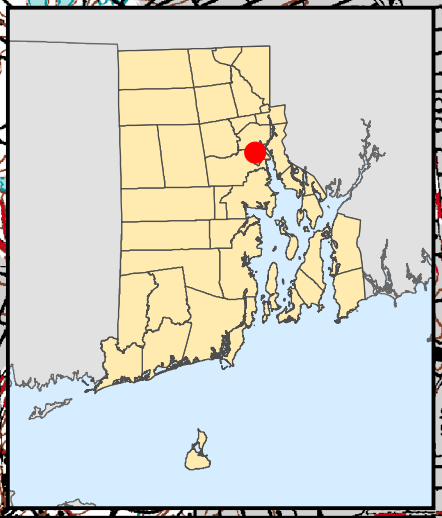
- Continuous monitoring of the operational status of the three rooftop fans;
- Monthly site inspections and monitoring using a photoionization detector with part-per-billion sensitivity; and
- Collection of air samples from eight indoor locations, one ambient location, and six subslab monitoring points in July 2013.
- Further investigation into the presence of 1,2-DCA in ambient air.

These activities will be summarized in the next status report (Quarterly Status Report No. 24), expected to be submitted by the end of September 2013.

FIGURES



SITE LOCUS



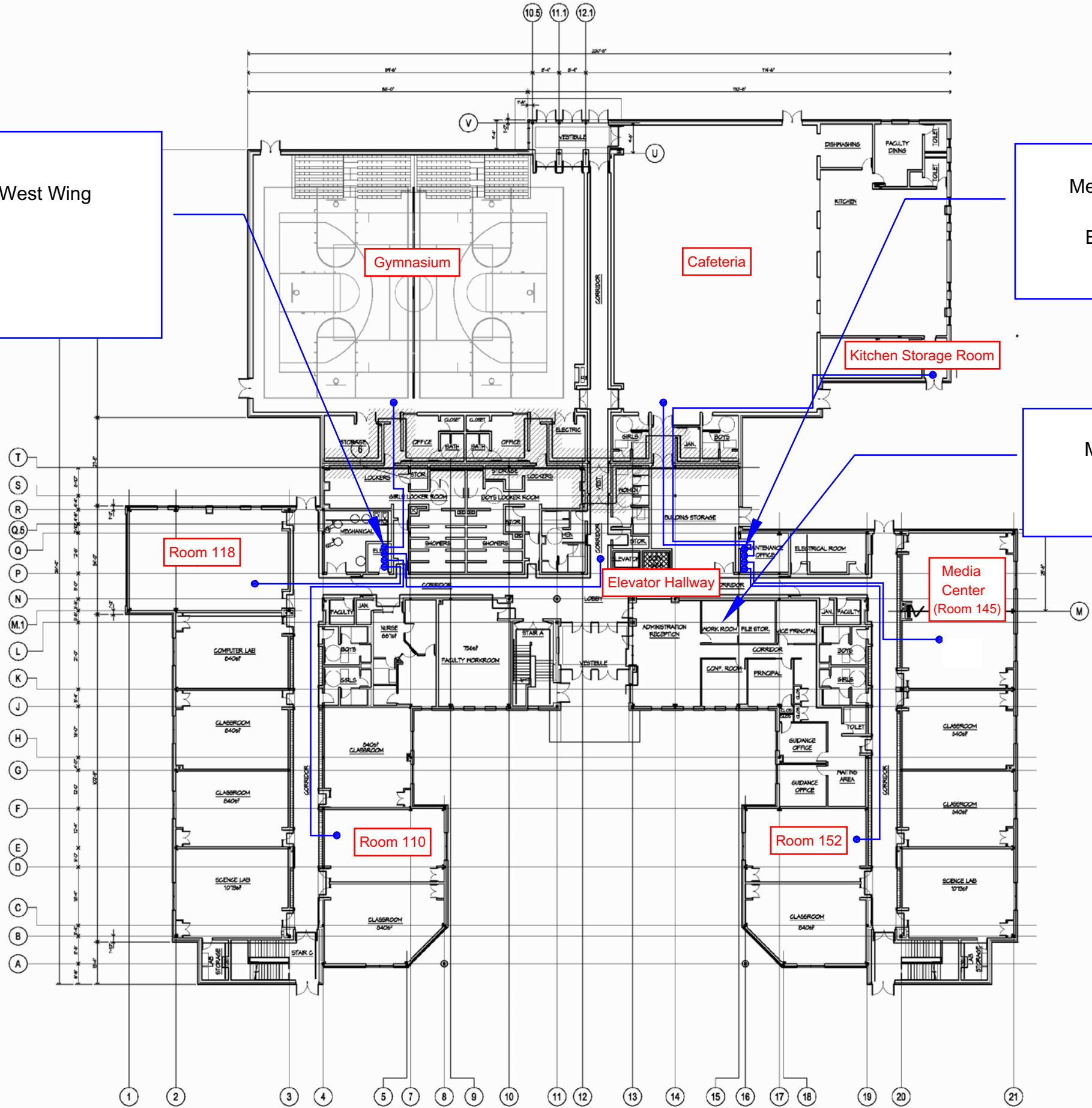
ALVAREZ HIGH SCHOOL
 333 ADELAIDE AVENUE
 PROVIDENCE, RHODE ISLAND

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

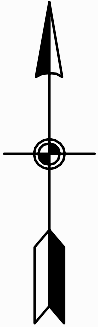
Methane Sensor Location in West Wing
Electrical Room Area

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



NOTE: NOT TO SCALE

PROJECT NORTH






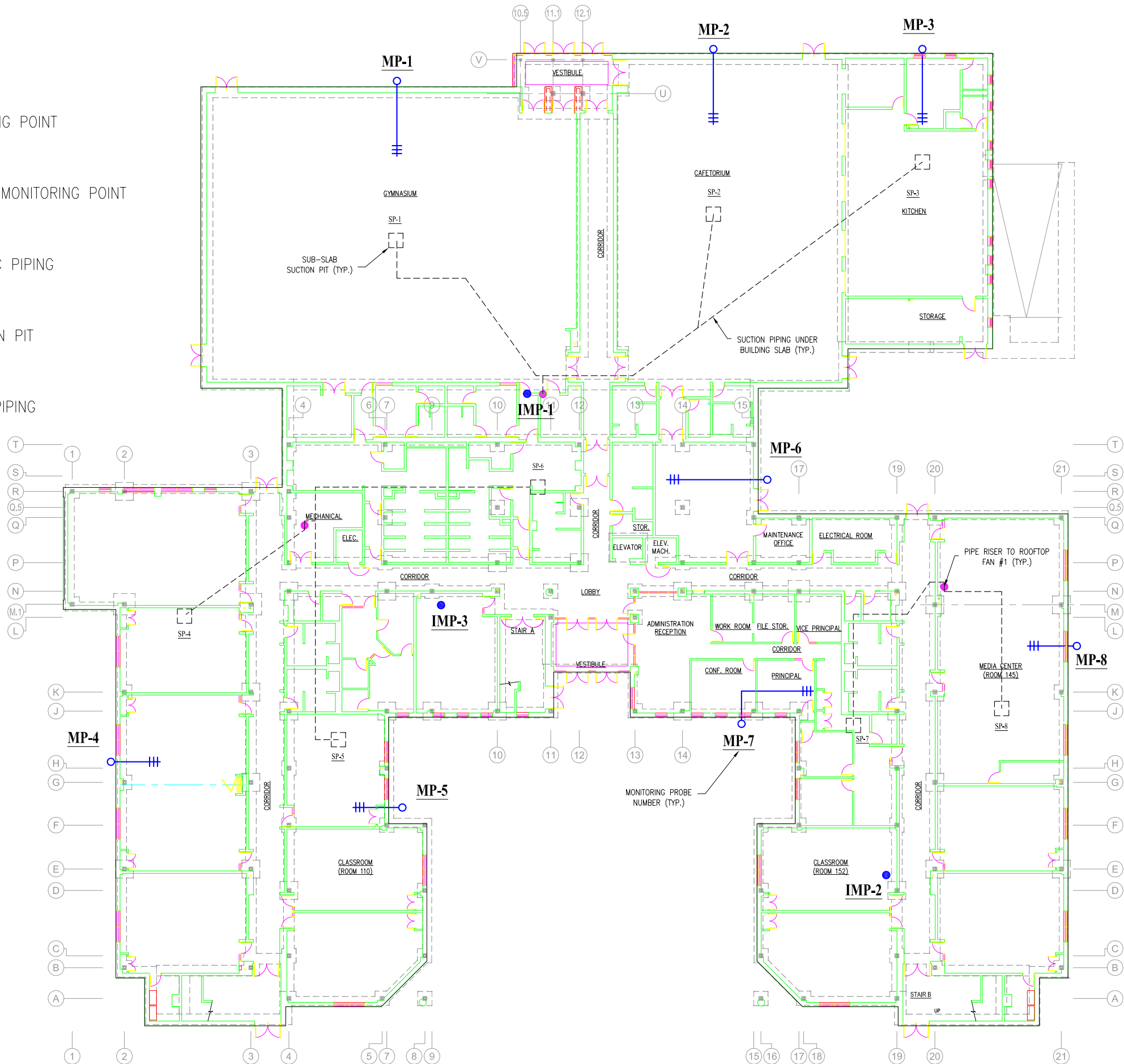
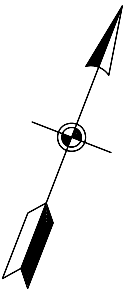
DESIGNED BY PMG	DRAWN BY PMG	DATE 4-3-07	PROJECT NO. 61965.01	FILE NAME Alvarez Layout
CHECKED BY PMG	PROJECT MGR. PMG	SCALE NTS	DRAWING NO. -	FIGURE N/A

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

QUARTERLY STATUS REPORT
FIGURE 2

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 FIG 3
CHECKED BY PMG	PROJECT MGR. PMG	SCALE NTS	DRAWING NO. N/A	FIGURE 3

AS-BUILT
SUB SLAB MONITORING AND SAMPLING LOCATIONS
ALVAREZ HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

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: 5/31/2013

Performed by: M. Russo

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

Date of last Methane Sensor Filter Replacement: Apr-13

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

General Status of SSD System: online and operational

General Status of Methane Monitoring System: online and operational

Eng. Cap/Fence Inspection Performed/Notes: observed in good condition

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 (ppb)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time	Start Vac (inches Hg)	End Time	End Vac (inches Hg)	
Gymnasium	NA	NA	33	0	0	0	--	--	--	--	--	--	MP-6 could not be accessed at time of monitoring event.
Cafeteria	NA	NA	53	0	0	0	--	--	--	--	--	--	
Kitchen Storage Room	NA	NA	10	0	0	0	--	--	--	--	--	--	
Elevator Hallway	NA	NA	45	0	0	0	--	--	--	--	--	--	
Room 145	NA	NA	12	0	0	0	--	--	--	--	--	--	
Room 152	NA	NA	52	0	0	0	--	--	--	--	--	--	
Room 118	NA	NA	32	0	0	0	--	--	--	--	--	--	
Room 110	NA	NA	43	0	0	0	--	--	--	--	--	--	
MP-1	-0.09	NA	137	NA	0	0	--	--	--	--	--	--	
MP-2	-0.07	NA	73	NA	0	0	--	--	--	--	--	--	
MP-3	-0.11	NA	89	NA	0	0	--	--	--	--	--	--	
MP-4	-0.04	NA	166	NA	0	0	--	--	--	--	--	--	
MP-5	-0.06	NA	133	NA	0	0	--	--	--	--	--	--	
MP-6	--	NA	--	NA	--	--	--	--	--	--	--	--	
MP-7	-0.04	NA	145	NA	0	0	--	--	--	--	--	--	
MP-8	-0.10	NA	606	NA	0	0	--	--	--	--	--	--	
IMP-1	-0.05	NA	107	NA	0	0	--	--	--	--	--	--	
IMP-2	-0.03	NA	340	NA	0	0	--	--	--	--	--	--	
IMP-3	-0.05	NA	137	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 1	-2.80	2791	89	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 2	-2.60	2334	66	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 3	-3.00	2626	384	NA	0	0	--	--	--	--	--	--	
Ambient Outdoor Air	NA	NA	0	NA	0	0	--	--	--	--	--	--	

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: 4/29/2013

Performed by: P. Theroux & M. Travers

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

Date of last Methane Sensor Filter Replacement: Apr-13

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

General Status of SSD System: online and operational

General Status of Methane Monitoring System: online and operational

Eng. Cap/Fence Inspection Performed/Notes: observed in good condition

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 (ppb)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time	Start Vac (inches Hg)	End Time	End Vac (inches Hg)	
Gymnasium	NA	NA	0	0	0	0	1924	4174	8:21	-30+	8:57	-2	
Cafeteria	NA	NA	0	0	0	0	1955	4175	8:18	-30	8:46	-1	
Kitchen Storage Room	NA	NA	0	0	0	0	1937	4178	8:19	-30	8:47	-6	
Elevator Hallway	NA	NA	0	0	0	0	1951	4179	8:22	-30	8:52	-5	
Room 145	NA	NA	0	0	0	0	1939	4180	8:32	-30+	9:02	-4	
Room 152	NA	NA	72	0	0	0	1938	4181	8:33	-29	9:03	-4	
Room 118	NA	NA	0	0	0	0	1936	4196	8:35	-30	9:05	-3	
Room 110	NA	NA	0	0	0	0	1932	4195	8:36	-30	9:06	-2.5	
MP-1	-0.04	NA	1922	NA	0	0	--	--	--	--	--	--	
MP-2	-0.05	NA	1316	NA	0	0	1463	4177	10:45	-30	11:15	-0.5	
MP-3	-0.04	NA	1071	NA	0	0	--	--	--	--	--	--	
MP-4	-0.04	NA	5639	NA	0	0	--	--	--	--	--	--	
MP-5	-0.05	NA	801	NA	0	0	1296	4073	11:05	-30	11:34	-5	
MP-6	-0.06	NA	6994	NA	0	0	--	--	--	--	--	--	
MP-7	-0.16	NA	638	NA	0	0	1807	4074	10:59	-29	11:29	-5	
MP-8	-0.09	NA	826	NA	0	0	1810	4075	10:53	-29	11:23	-4.5	
IMP-1	-0.01	NA	1241	NA	0	0	1137	4176	9:22	-30	9:51	-4	
IMP-2	-0.02	NA	1351	NA	0	0	--	--	--	--	--	--	
IMP-3	-0.01	NA	1538	NA	0	0	1319	4072	9:16	-30	9:45	-7	
Roof-Top Fan 1	-2.60	3280	773	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 2	-2.60	2443	1040	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 3	-3.00	2282	980	NA	0	0	--	--	--	--	--	--	
Ambient Outdoor Air	NA	NA	0	NA	0	0	1929	4019	10:42	-30+	11:12	-6	

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: 3/28/13 and 4/1/13

Performed by: P. Theroux and H. Hunter

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

Date of last Methane Sensor Filter Replacement: Jan-13

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

General Status of SSD System: online and operational

General Status of Methane Monitoring System: online and operational

Eng. Cap/Fence Inspection Performed/Notes: Observed in good condition

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 (ppb)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time	Start Vac (inches Hg)	End Time	End Vac (inches Hg)	
Gymnasium	NA	NA	18	0	0	0	--	--	--	--	--	--	Conducted outdoor monitoring (MP-1 to MP-8 and ambient outdoor air) on 3/29/13 and indoor monitoring on 4/1/13 due to Good Friday holiday and school closure
Cafeteria	NA	NA	29	0	0	0	--	--	--	--	--	--	
Kitchen Storage Room	NA	NA	26	0	0	0	--	--	--	--	--	--	
Elevator Hallway	NA	NA	68	0	0	0	--	--	--	--	--	--	
Room 145	NA	NA	32	0	0	0	--	--	--	--	--	--	
Room 152	NA	NA	8	0	0	0	--	--	--	--	--	--	
Room 118	NA	NA	72	0	0	0	--	--	--	--	--	--	
Room 110	NA	NA	16	0	0	0	--	--	--	--	--	--	
MP-1	-0.10	NA	54	NA	0	0	--	--	--	--	--	--	
MP-2	-0.08	NA	911	NA	0	0	--	--	--	--	--	--	
MP-3	-0.06	NA	82	NA	0	0	--	--	--	--	--	--	
MP-4	-0.05	NA	71	NA	0	0	--	--	--	--	--	--	
MP-5	-0.08	NA	130	NA	0	0	--	--	--	--	--	--	
MP-6	-0.07	NA	657	NA	0	0	--	--	--	--	--	--	
MP-7	-0.03	NA	66	NA	0	0	--	--	--	--	--	--	
MP-8	-0.12	NA	110	NA	0	0	--	--	--	--	--	--	
IMP-1	-0.03	NA	56	NA	0	0	--	--	--	--	--	--	
IMP-2	-0.01	NA	214	NA	0	0	--	--	--	--	--	--	
IMP-3	-0.02	NA	256	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 1	-2.70	2331	201	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 2	-2.50	1309	25	NA	0	0	--	--	--	--	--	--	
Roof-Top Fan 3	-3.00	2657	66	NA	0	0	--	--	--	--	--	--	
Ambient Outdoor Air	NA	NA	0	NA	0	0	--	--	--	--	--	--	

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

**Table 1: Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - April 2013**

Volatile Organic Compounds via TO-15	Sample Date	CT Draft Proposed Indoor Residential Target Air Concentrations/Interim RIDEM-Approved Action Level	Kitchen Storage Rm	Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Cntr (Rm 145)		Room 152		Room 149		Room 234		Ambient Outdoor						
				Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual				
Chlorobenzene	8-Feb-08	37.0	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U	0.090	U					0.090	U				
	Chloroethane		8-Feb-08	500.0	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U					0.050	U		
			Chloroform		8-Feb-08	0.5	0.110		0.110		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U					0.100	U

Table 1: Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School Project - Volatile Organic Compounds February 2008 - April 2013

Table with 23 columns: Volatile Organic Compounds via TO-15, Sample Date, CT Draft Proposed Indoor Residential Target Air Concentrations/Interim RIDEM-Approved Action Level, Kitchen Storage Rm, Cafeteria, Gymnasium, Elevator Hallway, Room 118, Room 110, Media Cntr (Rm 145), Room 152, Room 149, Room 234, and Ambient Outdoor. Rows include data for Methyl tert butyl ether (MTBE), Methylene chloride, and 4-Methyl-2-pentanone from February 2008 to April 2013.

Table 1: Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - April 2013

Volatile Organic Compounds via TO-15	Sample Date	CT Draft Proposed Indoor Residential Target Air Concentrations/Interim RIDEM-Approved Action Level	Kitchen Storage Rm		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Cntr (Rm 145)		Room 152		Room 149		Room 234		Ambient Outdoor							
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual					
Styrene	8-Feb-08	52.0	0.710		0.130		0.090		0.090		0.090		0.090		0.090		0.090		0.090		0.090			0.090	U					
	1,1,1,2-Tetrachloroethane		8-Feb-08	0.082/0.14	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U		
			1,1,2,2-Tetrachloroethane		8-Feb-08	0.011/0.14	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U	0.140	U

May 9, 2013

Paul Theroux
EA Engineering Science & Tech. - RI
2374 Post Road, Suite 102
Warwick, RI 02886

Project Location: Alvarez High School, Providence, RI
Client Job Number:
Project Number: 14687.01
Laboratory Work Order Number: 13D1166

Enclosed are results of analyses for samples received by the laboratory on April 30, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager



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

EA Engineering Science & Tech. - RI
2374 Post Road, Suite 102
Warwick, RI 02886
ATTN: Paul Theroux

REPORT DATE: 5/9/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 14687.01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13D1166

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

PROJECT LOCATION: Alvarez High School, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Gymnasium	13D1166-01	Indoor air		EPA TO-15	
Cafeteria	13D1166-02	Indoor air		EPA TO-15	
Kitchen Storage Area	13D1166-03	Indoor air		EPA TO-15	
Elevator Hallway	13D1166-04	Indoor air		EPA TO-15	
Room 145	13D1166-05	Indoor air		EPA TO-15	
Room 152	13D1166-06	Indoor air		EPA TO-15	
Room 118	13D1166-07	Indoor air		EPA TO-15	
Room 110	13D1166-08	Indoor air		EPA TO-15	
Ambient	13D1166-09	Ambient Air		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Acrylonitrile
B072487-BS1

EPA TO-15

Initial and continuing calibrations met all required performance standards for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative.

Laboratory control sample recoveries and sample replicate RPDs were all within limits specified by the method for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative. Recovery limits of 50-150% are used for propene, acetone, ethanol, isopropanol, ethyl acetate, tetrahydrofuran, cyclohexane, heptane, 2-hexanone, 4-ethyltoluene, n-butylbenzene, sec-butylbenzene, 4-isopropyltoluene, and 1,1,1,2-tetrachloroethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

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



Michael A. Erickson
Laboratory Director

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Gymnasium
Sample ID: 13D1166-01
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1924
 Canister Size: 6 liter
 Flow Controller ID: 4174
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -1.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	9.3	0.80		22	1.9	0.4	5/1/13 20:22	WSD	
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/1/13 20:22	WSD	
Benzene	0.28	0.020		0.90	0.064	0.4	5/1/13 20:22	WSD	
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/1/13 20:22	WSD	
Bromoform	ND	0.020		ND	0.21	0.4	5/1/13 20:22	WSD	
2-Butanone (MEK)	1.2	0.80		3.6	2.4	0.4	5/1/13 20:22	WSD	
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/1/13 20:22	WSD	
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/1/13 20:22	WSD	
Carbon Tetrachloride	0.086	0.010		0.54	0.063	0.4	5/1/13 20:22	WSD	
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/1/13 20:22	WSD	
Chloroethane	ND	0.040		ND	0.11	0.4	5/1/13 20:22	WSD	
Chloroform	0.025	0.010		0.12	0.049	0.4	5/1/13 20:22	WSD	
Chloromethane	0.61	0.040		1.3	0.083	0.4	5/1/13 20:22	WSD	
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/1/13 20:22	WSD	
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/1/13 20:22	WSD	
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 20:22	WSD	
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 20:22	WSD	
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 20:22	WSD	
Dichlorodifluoromethane (Freon 12)	0.48	0.020		2.4	0.099	0.4	5/1/13 20:22	WSD	
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/1/13 20:22	WSD	
1,2-Dichloroethane	0.023	0.010		0.094	0.040	0.4	5/1/13 20:22	WSD	
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 20:22	WSD	
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/1/13 20:22	WSD	
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 20:22	WSD	
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/1/13 20:22	WSD	
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/1/13 20:22	WSD	
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 20:22	WSD	
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 20:22	WSD	
Ethylbenzene	0.12	0.020		0.52	0.087	0.4	5/1/13 20:22	WSD	
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/1/13 20:22	WSD	
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/1/13 20:22	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/1/13 20:22	WSD	
Methylene Chloride	0.28	0.20		0.97	0.69	0.4	5/1/13 20:22	WSD	
4-Methyl-2-pentanone (MIBK)	0.10	0.020		0.41	0.082	0.4	5/1/13 20:22	WSD	
Styrene	0.047	0.020		0.20	0.085	0.4	5/1/13 20:22	WSD	
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/1/13 20:22	WSD	
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/1/13 20:22	WSD	

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Gymnasium
Sample ID: 13D1166-01
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1924
 Canister Size: 6 liter
 Flow Controller ID: 4174
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -1.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Tetrachloroethylene	0.078	0.020		0.53	0.14	0.4	5/1/13 20:22	WSD
Toluene	0.74	0.020		2.8	0.075	0.4	5/1/13 20:22	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 20:22	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 20:22	WSD
Trichloroethylene	0.022	0.010		0.12	0.054	0.4	5/1/13 20:22	WSD
Trichlorofluoromethane (Freon 11)	0.27	0.020		1.5	0.11	0.4	5/1/13 20:22	WSD
1,2,4-Trimethylbenzene	0.098	0.020		0.48	0.098	0.4	5/1/13 20:22	WSD
1,3,5-Trimethylbenzene	0.036	0.020		0.18	0.098	0.4	5/1/13 20:22	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/1/13 20:22	WSD
m&p-Xylene	0.27	0.040		1.2	0.17	0.4	5/1/13 20:22	WSD
o-Xylene	0.095	0.020		0.41	0.087	0.4	5/1/13 20:22	WSD

Surrogates	% Recovery	% REC Limits	Date/Time Analyzed
4-Bromofluorobenzene (1)	93.5	70-130	5/1/13 20:22
4-Bromofluorobenzene (2)	85.2	70-130	5/1/13 20:22

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Cafeteria
Sample ID: 13D1166-02
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:46

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1955
 Canister Size: 6 liter
 Flow Controller ID: 4175
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -1
 Receipt Vacuum(in Hg): -0.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Acetone	9.7	0.80		23	1.9	0.4	5/1/13 21:11	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/1/13 21:11	WSD
Benzene	0.29	0.020		0.92	0.064	0.4	5/1/13 21:11	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/1/13 21:11	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/1/13 21:11	WSD
2-Butanone (MEK)	1.2	0.80		3.5	2.4	0.4	5/1/13 21:11	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/1/13 21:11	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/1/13 21:11	WSD
Carbon Tetrachloride	0.084	0.010		0.53	0.063	0.4	5/1/13 21:11	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/1/13 21:11	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/1/13 21:11	WSD
Chloroform	0.029	0.010		0.14	0.049	0.4	5/1/13 21:11	WSD
Chloromethane	0.65	0.040		1.3	0.083	0.4	5/1/13 21:11	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/1/13 21:11	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/1/13 21:11	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 21:11	WSD
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 21:11	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 21:11	WSD
Dichlorodifluoromethane (Freon 12)	0.52	0.020		2.6	0.099	0.4	5/1/13 21:11	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/1/13 21:11	WSD
1,2-Dichloroethane	0.024	0.010		0.099	0.040	0.4	5/1/13 21:11	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 21:11	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/1/13 21:11	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 21:11	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/1/13 21:11	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/1/13 21:11	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 21:11	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 21:11	WSD
Ethylbenzene	0.12	0.020		0.54	0.087	0.4	5/1/13 21:11	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/1/13 21:11	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/1/13 21:11	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/1/13 21:11	WSD
Methylene Chloride	0.27	0.20		0.95	0.69	0.4	5/1/13 21:11	WSD
4-Methyl-2-pentanone (MIBK)	0.071	0.020		0.29	0.082	0.4	5/1/13 21:11	WSD
Styrene	0.054	0.020		0.23	0.085	0.4	5/1/13 21:11	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/1/13 21:11	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/1/13 21:11	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Cafeteria
Sample ID: 13D1166-02
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:46

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1955
 Canister Size: 6 liter
 Flow Controller ID: 4175
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -1
 Receipt Vacuum(in Hg): -0.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Tetrachloroethylene	0.083	0.020		0.56	0.14	0.4	5/1/13 21:11	WSD
Toluene	0.83	0.020		3.1	0.075	0.4	5/1/13 21:11	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 21:11	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 21:11	WSD
Trichloroethylene	0.020	0.010		0.11	0.054	0.4	5/1/13 21:11	WSD
Trichlorofluoromethane (Freon 11)	0.29	0.020		1.6	0.11	0.4	5/1/13 21:11	WSD
1,2,4-Trimethylbenzene	0.11	0.020		0.54	0.098	0.4	5/1/13 21:11	WSD
1,3,5-Trimethylbenzene	0.036	0.020		0.18	0.098	0.4	5/1/13 21:11	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/1/13 21:11	WSD
m&p-Xylene	0.30	0.040		1.3	0.17	0.4	5/1/13 21:11	WSD
o-Xylene	0.11	0.020		0.46	0.087	0.4	5/1/13 21:11	WSD

Surrogates	% Recovery	% REC Limits	Date/Time Analyzed
4-Bromofluorobenzene (1)	102	70-130	5/1/13 21:11
4-Bromofluorobenzene (2)	97.8	70-130	5/1/13 21:11

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Kitchen Storage Area
Sample ID: 13D1166-03
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:47

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1937
 Canister Size: 6 liter
 Flow Controller ID: 4178
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -6
 Receipt Vacuum(in Hg): -5.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Acetone	11	0.80		26	1.9	0.4	5/1/13 22:05	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/1/13 22:05	WSD
Benzene	0.30	0.020		0.96	0.064	0.4	5/1/13 22:05	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/1/13 22:05	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/1/13 22:05	WSD
2-Butanone (MEK)	1.7	0.80		5.1	2.4	0.4	5/1/13 22:05	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/1/13 22:05	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/1/13 22:05	WSD
Carbon Tetrachloride	0.086	0.010		0.54	0.063	0.4	5/1/13 22:05	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/1/13 22:05	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/1/13 22:05	WSD
Chloroform	0.037	0.010		0.18	0.049	0.4	5/1/13 22:05	WSD
Chloromethane	0.62	0.040		1.3	0.083	0.4	5/1/13 22:05	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/1/13 22:05	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/1/13 22:05	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 22:05	WSD
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 22:05	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 22:05	WSD
Dichlorodifluoromethane (Freon 12)	0.49	0.020		2.4	0.099	0.4	5/1/13 22:05	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/1/13 22:05	WSD
1,2-Dichloroethane	0.023	0.010		0.094	0.040	0.4	5/1/13 22:05	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 22:05	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/1/13 22:05	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 22:05	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/1/13 22:05	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/1/13 22:05	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 22:05	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 22:05	WSD
Ethylbenzene	0.18	0.020		0.76	0.087	0.4	5/1/13 22:05	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/1/13 22:05	WSD
p-Isopropyltoluene (p-Cymene)	0.088	0.046		0.48	0.25	0.4	5/1/13 22:05	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/1/13 22:05	WSD
Methylene Chloride	0.41	0.20		1.4	0.69	0.4	5/1/13 22:05	WSD
4-Methyl-2-pentanone (MIBK)	0.71	0.020		2.9	0.082	0.4	5/1/13 22:05	WSD
Styrene	0.37	0.020		1.6	0.085	0.4	5/1/13 22:05	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/1/13 22:05	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/1/13 22:05	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Kitchen Storage Area
Sample ID: 13D1166-03
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:47

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1937
 Canister Size: 6 liter
 Flow Controller ID: 4178
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -6
 Receipt Vacuum(in Hg): -5.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.090	0.020		0.61	0.14	0.4	5/1/13	22:05	WSD
Toluene	1.0	0.020		3.9	0.075	0.4	5/1/13	22:05	WSD
1,1,1-Trichloroethane	ND	0.020		ND	0.11	0.4	5/1/13	22:05	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13	22:05	WSD
Trichloroethylene	0.022	0.010		0.12	0.054	0.4	5/1/13	22:05	WSD
Trichlorofluoromethane (Freon 11)	0.26	0.020		1.4	0.11	0.4	5/1/13	22:05	WSD
1,2,4-Trimethylbenzene	0.20	0.020		0.99	0.098	0.4	5/1/13	22:05	WSD
1,3,5-Trimethylbenzene	0.052	0.020		0.25	0.098	0.4	5/1/13	22:05	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/1/13	22:05	WSD
m&p-Xylene	0.38	0.040		1.7	0.17	0.4	5/1/13	22:05	WSD
o-Xylene	0.14	0.020		0.59	0.087	0.4	5/1/13	22:05	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	98.2	70-130	5/1/13 22:05
4-Bromofluorobenzene (2)	98.1	70-130	5/1/13 22:05

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Elevator Hallway
Sample ID: 13D1166-04
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:52

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1951
 Canister Size: 6 liter
 Flow Controller ID: 4179
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Acetone	8.9	0.80		21	1.9	0.4	5/1/13 23:53	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/1/13 23:53	WSD
Benzene	0.29	0.020		0.93	0.064	0.4	5/1/13 23:53	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/1/13 23:53	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/1/13 23:53	WSD
2-Butanone (MEK)	1.3	0.80		3.8	2.4	0.4	5/1/13 23:53	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/1/13 23:53	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/1/13 23:53	WSD
Carbon Tetrachloride	0.081	0.010		0.51	0.063	0.4	5/1/13 23:53	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/1/13 23:53	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/1/13 23:53	WSD
Chloroform	0.032	0.010		0.16	0.049	0.4	5/1/13 23:53	WSD
Chloromethane	0.58	0.040		1.2	0.083	0.4	5/1/13 23:53	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/1/13 23:53	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/1/13 23:53	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 23:53	WSD
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 23:53	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 23:53	WSD
Dichlorodifluoromethane (Freon 12)	0.48	0.020		2.4	0.099	0.4	5/1/13 23:53	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/1/13 23:53	WSD
1,2-Dichloroethane	0.024	0.010		0.096	0.040	0.4	5/1/13 23:53	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 23:53	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/1/13 23:53	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 23:53	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/1/13 23:53	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/1/13 23:53	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 23:53	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 23:53	WSD
Ethylbenzene	0.13	0.020		0.54	0.087	0.4	5/1/13 23:53	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/1/13 23:53	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/1/13 23:53	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/1/13 23:53	WSD
Methylene Chloride	0.36	0.20		1.2	0.69	0.4	5/1/13 23:53	WSD
4-Methyl-2-pentanone (MIBK)	0.10	0.020		0.42	0.082	0.4	5/1/13 23:53	WSD
Styrene	0.048	0.020		0.20	0.085	0.4	5/1/13 23:53	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/1/13 23:53	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/1/13 23:53	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Elevator Hallway
Sample ID: 13D1166-04
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 08:52

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1951
 Canister Size: 6 liter
 Flow Controller ID: 4179
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Tetrachloroethylene	0.092	0.020		0.63	0.14	0.4	5/1/13 23:53	WSD
Toluene	0.81	0.020		3.1	0.075	0.4	5/1/13 23:53	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 23:53	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 23:53	WSD
Trichloroethylene	0.021	0.010		0.11	0.054	0.4	5/1/13 23:53	WSD
Trichlorofluoromethane (Freon 11)	0.25	0.020		1.4	0.11	0.4	5/1/13 23:53	WSD
1,2,4-Trimethylbenzene	0.10	0.020		0.51	0.098	0.4	5/1/13 23:53	WSD
1,3,5-Trimethylbenzene	0.036	0.020		0.18	0.098	0.4	5/1/13 23:53	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/1/13 23:53	WSD
m&p-Xylene	0.29	0.040		1.3	0.17	0.4	5/1/13 23:53	WSD
o-Xylene	0.10	0.020		0.45	0.087	0.4	5/1/13 23:53	WSD

Surrogates	% Recovery	% REC Limits	Date/Time Analyzed
4-Bromofluorobenzene (1)	94.7	70-130	5/1/13 23:53
4-Bromofluorobenzene (2)	98.4	70-130	5/1/13 23:53

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 145
Sample ID: 13D1166-05
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1939
 Canister Size: 6 liter
 Flow Controller ID: 4180
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	11	0.80		27	1.9	0.4	5/2/13	0:45	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13	0:45	WSD
Benzene	0.29	0.020		0.94	0.064	0.4	5/2/13	0:45	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13	0:45	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13	0:45	WSD
2-Butanone (MEK)	1.4	0.80		4.1	2.4	0.4	5/2/13	0:45	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13	0:45	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13	0:45	WSD
Carbon Tetrachloride	0.078	0.010		0.49	0.063	0.4	5/2/13	0:45	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13	0:45	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13	0:45	WSD
Chloroform	0.029	0.010		0.14	0.049	0.4	5/2/13	0:45	WSD
Chloromethane	0.65	0.040		1.3	0.083	0.4	5/2/13	0:45	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13	0:45	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13	0:45	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	0:45	WSD
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	0:45	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	0:45	WSD
Dichlorodifluoromethane (Freon 12)	0.48	0.020		2.4	0.099	0.4	5/2/13	0:45	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13	0:45	WSD
1,2-Dichloroethane	0.022	0.010		0.091	0.040	0.4	5/2/13	0:45	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	0:45	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13	0:45	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	0:45	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13	0:45	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13	0:45	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	0:45	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	0:45	WSD
Ethylbenzene	0.36	0.020		1.6	0.087	0.4	5/2/13	0:45	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13	0:45	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13	0:45	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13	0:45	WSD
Methylene Chloride	0.40	0.20		1.4	0.69	0.4	5/2/13	0:45	WSD
4-Methyl-2-pentanone (MIBK)	0.11	0.020		0.45	0.082	0.4	5/2/13	0:45	WSD
Styrene	0.12	0.020		0.52	0.085	0.4	5/2/13	0:45	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13	0:45	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13	0:45	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 145
Sample ID: 13D1166-05
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1939
 Canister Size: 6 liter
 Flow Controller ID: 4180
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.095	0.020		0.65	0.14	0.4	5/2/13	0:45	WSD
Toluene	1.3	0.020		5.0	0.075	0.4	5/2/13	0:45	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	0:45	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	0:45	WSD
Trichloroethylene	0.020	0.010		0.11	0.054	0.4	5/2/13	0:45	WSD
Trichlorofluoromethane (Freon 11)	0.24	0.020		1.4	0.11	0.4	5/2/13	0:45	WSD
1,2,4-Trimethylbenzene	0.12	0.020		0.58	0.098	0.4	5/2/13	0:45	WSD
1,3,5-Trimethylbenzene	0.038	0.020		0.19	0.098	0.4	5/2/13	0:45	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13	0:45	WSD
m&p-Xylene	0.55	0.040		2.4	0.17	0.4	5/2/13	0:45	WSD
o-Xylene	0.21	0.020		0.91	0.087	0.4	5/2/13	0:45	WSD

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	95.0	70-130	5/2/13	0:45
4-Bromofluorobenzene (2)	101	70-130	5/2/13	0:45

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 152
Sample ID: 13D1166-06
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:03

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1938
 Canister Size: 6 liter
 Flow Controller ID: 4181
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	15	0.80		35	1.9	0.4	5/2/13	1:38	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13	1:38	WSD
Benzene	0.26	0.020		0.84	0.064	0.4	5/2/13	1:38	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13	1:38	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13	1:38	WSD
2-Butanone (MEK)	1.1	0.80		3.3	2.4	0.4	5/2/13	1:38	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13	1:38	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13	1:38	WSD
Carbon Tetrachloride	0.077	0.010		0.48	0.063	0.4	5/2/13	1:38	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13	1:38	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13	1:38	WSD
Chloroform	0.028	0.010		0.14	0.049	0.4	5/2/13	1:38	WSD
Chloromethane	0.62	0.040		1.3	0.083	0.4	5/2/13	1:38	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13	1:38	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13	1:38	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	1:38	WSD
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	1:38	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	1:38	WSD
Dichlorodifluoromethane (Freon 12)	0.48	0.020		2.4	0.099	0.4	5/2/13	1:38	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13	1:38	WSD
1,2-Dichloroethane	0.023	0.010		0.092	0.040	0.4	5/2/13	1:38	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	1:38	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13	1:38	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	1:38	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13	1:38	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13	1:38	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	1:38	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	1:38	WSD
Ethylbenzene	0.12	0.020		0.53	0.087	0.4	5/2/13	1:38	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13	1:38	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13	1:38	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13	1:38	WSD
Methylene Chloride	0.33	0.20		1.1	0.69	0.4	5/2/13	1:38	WSD
4-Methyl-2-pentanone (MIBK)	0.099	0.020		0.40	0.082	0.4	5/2/13	1:38	WSD
Styrene	0.048	0.020		0.21	0.085	0.4	5/2/13	1:38	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13	1:38	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13	1:38	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 152
Sample ID: 13D1166-06
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:03

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1938
 Canister Size: 6 liter
 Flow Controller ID: 4181
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.086	0.020		0.58	0.14	0.4	5/2/13	1:38	WSD
Toluene	0.69	0.020		2.6	0.075	0.4	5/2/13	1:38	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	1:38	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	1:38	WSD
Trichloroethylene	0.020	0.010		0.11	0.054	0.4	5/2/13	1:38	WSD
Trichlorofluoromethane (Freon 11)	0.24	0.020		1.3	0.11	0.4	5/2/13	1:38	WSD
1,2,4-Trimethylbenzene	0.089	0.020		0.44	0.098	0.4	5/2/13	1:38	WSD
1,3,5-Trimethylbenzene	0.031	0.020		0.15	0.098	0.4	5/2/13	1:38	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13	1:38	WSD
m&p-Xylene	0.27	0.040		1.2	0.17	0.4	5/2/13	1:38	WSD
o-Xylene	0.099	0.020		0.43	0.087	0.4	5/2/13	1:38	WSD

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	96.2	70-130	5/2/13	1:38
4-Bromofluorobenzene (2)	101	70-130	5/2/13	1:38

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 118
Sample ID: 13D1166-07
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1936
 Canister Size: 6 liter
 Flow Controller ID: 4196
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	12	0.80		28	1.9	0.4	5/2/13 2:29	WSD	
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13 2:29	WSD	
Benzene	0.24	0.020		0.76	0.064	0.4	5/2/13 2:29	WSD	
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13 2:29	WSD	
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13 2:29	WSD	
2-Butanone (MEK)	1.6	0.80		4.8	2.4	0.4	5/2/13 2:29	WSD	
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13 2:29	WSD	
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13 2:29	WSD	
Carbon Tetrachloride	0.078	0.010		0.49	0.063	0.4	5/2/13 2:29	WSD	
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13 2:29	WSD	
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13 2:29	WSD	
Chloroform	0.030	0.010		0.14	0.049	0.4	5/2/13 2:29	WSD	
Chloromethane	0.85	0.040		1.8	0.083	0.4	5/2/13 2:29	WSD	
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13 2:29	WSD	
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13 2:29	WSD	
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 2:29	WSD	
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 2:29	WSD	
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 2:29	WSD	
Dichlorodifluoromethane (Freon 12)	0.49	0.020		2.4	0.099	0.4	5/2/13 2:29	WSD	
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13 2:29	WSD	
1,2-Dichloroethane	0.039	0.010		0.16	0.040	0.4	5/2/13 2:29	WSD	
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 2:29	WSD	
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13 2:29	WSD	
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 2:29	WSD	
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13 2:29	WSD	
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13 2:29	WSD	
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 2:29	WSD	
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 2:29	WSD	
Ethylbenzene	0.16	0.020		0.67	0.087	0.4	5/2/13 2:29	WSD	
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13 2:29	WSD	
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13 2:29	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13 2:29	WSD	
Methylene Chloride	0.34	0.20		1.2	0.69	0.4	5/2/13 2:29	WSD	
4-Methyl-2-pentanone (MIBK)	0.12	0.020		0.51	0.082	0.4	5/2/13 2:29	WSD	
Styrene	0.17	0.020		0.74	0.085	0.4	5/2/13 2:29	WSD	
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13 2:29	WSD	
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13 2:29	WSD	

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 118
Sample ID: 13D1166-07
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:05

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1936
 Canister Size: 6 liter
 Flow Controller ID: 4196
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.13	0.020		0.88	0.14	0.4	5/2/13	2:29	WSD
Toluene	0.71	0.020		2.7	0.075	0.4	5/2/13	2:29	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	2:29	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	2:29	WSD
Trichloroethylene	0.024	0.010		0.13	0.054	0.4	5/2/13	2:29	WSD
Trichlorofluoromethane (Freon 11)	0.25	0.020		1.4	0.11	0.4	5/2/13	2:29	WSD
1,2,4-Trimethylbenzene	0.14	0.020		0.70	0.098	0.4	5/2/13	2:29	WSD
1,3,5-Trimethylbenzene	0.052	0.020		0.25	0.098	0.4	5/2/13	2:29	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13	2:29	WSD
m&p-Xylene	0.28	0.040		1.2	0.17	0.4	5/2/13	2:29	WSD
o-Xylene	0.10	0.020		0.45	0.087	0.4	5/2/13	2:29	WSD

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	96.5	70-130	5/2/13	2:29
4-Bromofluorobenzene (2)	102	70-130	5/2/13	2:29

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 110
Sample ID: 13D1166-08
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:06

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1932
 Canister Size: 6 liter
 Flow Controller ID: 4195
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -3
 Final Vacuum(in Hg): -2.5
 Receipt Vacuum(in Hg): -2.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	13	0.80		32	1.9	0.4	5/2/13 3:20	WSD	
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13 3:20	WSD	
Benzene	0.22	0.020		0.71	0.064	0.4	5/2/13 3:20	WSD	
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13 3:20	WSD	
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13 3:20	WSD	
2-Butanone (MEK)	1.2	0.80		3.6	2.4	0.4	5/2/13 3:20	WSD	
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13 3:20	WSD	
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13 3:20	WSD	
Carbon Tetrachloride	0.075	0.010		0.47	0.063	0.4	5/2/13 3:20	WSD	
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13 3:20	WSD	
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13 3:20	WSD	
Chloroform	0.024	0.010		0.12	0.049	0.4	5/2/13 3:20	WSD	
Chloromethane	0.56	0.040		1.1	0.083	0.4	5/2/13 3:20	WSD	
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13 3:20	WSD	
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13 3:20	WSD	
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 3:20	WSD	
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 3:20	WSD	
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 3:20	WSD	
Dichlorodifluoromethane (Freon 12)	0.47	0.020		2.3	0.099	0.4	5/2/13 3:20	WSD	
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13 3:20	WSD	
1,2-Dichloroethane	0.024	0.010		0.099	0.040	0.4	5/2/13 3:20	WSD	
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 3:20	WSD	
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13 3:20	WSD	
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 3:20	WSD	
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13 3:20	WSD	
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13 3:20	WSD	
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 3:20	WSD	
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 3:20	WSD	
Ethylbenzene	0.099	0.020		0.43	0.087	0.4	5/2/13 3:20	WSD	
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13 3:20	WSD	
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13 3:20	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13 3:20	WSD	
Methylene Chloride	0.32	0.20		1.1	0.69	0.4	5/2/13 3:20	WSD	
4-Methyl-2-pentanone (MIBK)	0.078	0.020		0.32	0.082	0.4	5/2/13 3:20	WSD	
Styrene	0.036	0.020		0.15	0.085	0.4	5/2/13 3:20	WSD	
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13 3:20	WSD	
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13 3:20	WSD	

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Room 110
Sample ID: 13D1166-08
 Sample Matrix: Indoor air
 Sampled: 4/29/2013 09:06

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1932
 Canister Size: 6 liter
 Flow Controller ID: 4195
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -3
 Final Vacuum(in Hg): -2.5
 Receipt Vacuum(in Hg): -2.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.068	0.020		0.46	0.14	0.4	5/2/13	3:20	WSD
Toluene	0.58	0.020		2.2	0.075	0.4	5/2/13	3:20	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	3:20	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	3:20	WSD
Trichloroethylene	0.022	0.010		0.12	0.054	0.4	5/2/13	3:20	WSD
Trichlorofluoromethane (Freon 11)	0.23	0.020		1.3	0.11	0.4	5/2/13	3:20	WSD
1,2,4-Trimethylbenzene	0.065	0.020		0.32	0.098	0.4	5/2/13	3:20	WSD
1,3,5-Trimethylbenzene	0.026	0.020		0.13	0.098	0.4	5/2/13	3:20	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13	3:20	WSD
m&p-Xylene	0.21	0.040		0.92	0.17	0.4	5/2/13	3:20	WSD
o-Xylene	0.076	0.020		0.33	0.087	0.4	5/2/13	3:20	WSD

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	96.8	70-130	5/2/13	3:20
4-Bromofluorobenzene (2)	102	70-130	5/2/13	3:20

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Ambient
Sample ID: 13D1166-09
 Sample Matrix: Ambient Air
 Sampled: 4/29/2013 11:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1929
 Canister Size: 6 liter
 Flow Controller ID: 4019
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -6
 Receipt Vacuum(in Hg): -5.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Acetone	7.7	0.80		18	1.9	0.4	5/1/13 22:59	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/1/13 22:59	WSD
Benzene	0.094	0.020		0.30	0.064	0.4	5/1/13 22:59	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/1/13 22:59	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/1/13 22:59	WSD
2-Butanone (MEK)	1.5	0.80		4.5	2.4	0.4	5/1/13 22:59	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/1/13 22:59	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/1/13 22:59	WSD
Carbon Tetrachloride	0.079	0.010		0.50	0.063	0.4	5/1/13 22:59	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/1/13 22:59	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/1/13 22:59	WSD
Chloroform	0.017	0.010		0.082	0.049	0.4	5/1/13 22:59	WSD
Chloromethane	0.53	0.040		1.1	0.083	0.4	5/1/13 22:59	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/1/13 22:59	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/1/13 22:59	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 22:59	WSD
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 22:59	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/1/13 22:59	WSD
Dichlorodifluoromethane (Freon 12)	0.49	0.020		2.4	0.099	0.4	5/1/13 22:59	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/1/13 22:59	WSD
1,2-Dichloroethane	0.021	0.010		0.084	0.040	0.4	5/1/13 22:59	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 22:59	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/1/13 22:59	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/1/13 22:59	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/1/13 22:59	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/1/13 22:59	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 22:59	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/1/13 22:59	WSD
Ethylbenzene	0.035	0.020		0.15	0.087	0.4	5/1/13 22:59	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/1/13 22:59	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/1/13 22:59	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/1/13 22:59	WSD
Methylene Chloride	0.45	0.20		1.5	0.69	0.4	5/1/13 22:59	WSD
4-Methyl-2-pentanone (MIBK)	0.096	0.020		0.39	0.082	0.4	5/1/13 22:59	WSD
Styrene	ND	0.020		ND	0.085	0.4	5/1/13 22:59	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/1/13 22:59	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/1/13 22:59	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: Ambient
Sample ID: 13D1166-09
 Sample Matrix: Ambient Air
 Sampled: 4/29/2013 11:12

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1929
 Canister Size: 6 liter
 Flow Controller ID: 4019
 Sample Type: 30 min

Work Order: 13D1166
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -6
 Receipt Vacuum(in Hg): -5.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Tetrachloroethylene	0.047	0.020		0.32	0.14	0.4	5/1/13 22:59	WSD
Toluene	0.18	0.020		0.69	0.075	0.4	5/1/13 22:59	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 22:59	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/1/13 22:59	WSD
Trichloroethylene	ND	0.010		ND	0.054	0.4	5/1/13 22:59	WSD
Trichlorofluoromethane (Freon 11)	0.25	0.020		1.4	0.11	0.4	5/1/13 22:59	WSD
1,2,4-Trimethylbenzene	0.026	0.020		0.13	0.098	0.4	5/1/13 22:59	WSD
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	5/1/13 22:59	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/1/13 22:59	WSD
m&p-Xylene	0.074	0.040		0.32	0.17	0.4	5/1/13 22:59	WSD
o-Xylene	0.028	0.020		0.12	0.087	0.4	5/1/13 22:59	WSD

Surrogates	% Recovery	% REC Limits	Date/Time Analyzed
4-Bromofluorobenzene (1)	97.8	70-130	5/1/13 22:59
4-Bromofluorobenzene (2)	101	70-130	5/1/13 22:59

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13D1166-01 [Gymnasium]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-02 [Cafeteria]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-03 [Kitchen Storage Area]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-04 [Elevator Hallway]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-05 [Room 145]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-06 [Room 152]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-07 [Room 118]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-08 [Room 110]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1166-09 [Ambient]	B072487	1	1	N/A	1000	400	1000	05/01/13

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B072487 - TO-15 Prep

Blank (B072487-BLK1)

Prepared & Analyzed: 05/01/13

Acetone	ND	0.80
Acrylonitrile	ND	0.12
Benzene	ND	0.020
Bromodichloromethane	ND	0.010
Bromoform	ND	0.020
2-Butanone (MEK)	ND	0.80
n-Butylbenzene	ND	0.058
sec-Butylbenzene	ND	0.046
Carbon Tetrachloride	ND	0.010
Chlorobenzene	ND	0.010
Chloroethane	ND	0.040
Chloroform	ND	0.010
Chloromethane	ND	0.040
Dibromochloromethane	ND	0.010
1,2-Dibromoethane (EDB)	ND	0.010
1,2-Dichlorobenzene	ND	0.020
1,3-Dichlorobenzene	ND	0.020
1,4-Dichlorobenzene	ND	0.020
Dichlorodifluoromethane (Freon 12)	ND	0.020
1,1-Dichloroethane	ND	0.020
1,2-Dichloroethane	ND	0.010
1,1-Dichloroethylene	ND	0.010
cis-1,2-Dichloroethylene	ND	0.020
trans-1,2-Dichloroethylene	ND	0.010
1,2-Dichloropropane	ND	0.010
1,3-Dichloropropane	ND	0.054
cis-1,3-Dichloropropene	ND	0.010
trans-1,3-Dichloropropene	ND	0.010
Ethylbenzene	ND	0.020
Isopropylbenzene (Cumene)	ND	0.051
p-Isopropyltoluene (p-Cymene)	ND	0.046
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Methylene Chloride	ND	0.20
4-Methyl-2-pentanone (MIBK)	ND	0.020
Styrene	ND	0.020
1,1,1,2-Tetrachloroethane	ND	0.036
1,1,2,2-Tetrachloroethane	ND	0.010
Tetrachloroethylene	ND	0.020
Toluene	ND	0.020
1,1,1-Trichloroethane	ND	0.010
1,1,2-Trichloroethane	ND	0.010
Trichloroethylene	ND	0.010
Trichlorofluoromethane (Freon 11)	ND	0.020
1,2,4-Trimethylbenzene	ND	0.020
1,3,5-Trimethylbenzene	ND	0.020
Vinyl Chloride	ND	0.010

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		

Batch B072487 - TO-15 Prep

Blank (B072487-BLK1)

Prepared & Analyzed: 05/01/13

m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	7.30				8.00		91.3	70-130			
<i>Surrogate: 4-Bromofluorobenzene (2)</i>	6.64				8.00		83.0	70-130			

LCS (B072487-BS1)

Prepared & Analyzed: 05/01/13

Acetone	6.14				5.00		123	70-130			
Acrylonitrile	2.69				2.88		93.3	70-130			V-06
Benzene	4.78				5.00		95.7	70-130			
Bromodichloromethane	5.39				5.00		108	70-130			
Bromoform	6.08				5.00		122	70-130			
2-Butanone (MEK)	5.91				5.00		118	70-130			
n-Butylbenzene	1.09				1.14		96.0	70-130			
sec-Butylbenzene	0.997				1.14		87.5	70-130			
Carbon Tetrachloride	5.54				5.00		111	70-130			
Chlorobenzene	5.29				5.00		106	70-130			
Chloroethane	4.44				5.00		88.8	70-130			
Chloroform	4.89				5.00		97.8	70-130			
Chloromethane	3.98				5.00		79.5	70-130			
Dibromochloromethane	5.94				5.00		119	70-130			
1,2-Dibromoethane (EDB)	5.34				5.00		107	70-130			
1,2-Dichlorobenzene	6.05				5.00		121	70-130			
1,3-Dichlorobenzene	6.03				5.00		121	70-130			
1,4-Dichlorobenzene	5.98				5.00		120	70-130			
Dichlorodifluoromethane (Freon 12)	5.05				5.00		101	70-130			
1,1-Dichloroethane	4.68				5.00		93.7	70-130			
1,2-Dichloroethane	5.04				5.00		101	70-130			
1,1-Dichloroethylene	4.74				5.00		94.8	70-130			
cis-1,2-Dichloroethylene	4.86				5.00		97.3	70-130			
trans-1,2-Dichloroethylene	4.84				5.00		96.9	70-130			
1,2-Dichloropropane	4.69				5.00		93.8	70-130			
1,3-Dichloropropane	1.30				1.35		96.7	70-130			
cis-1,3-Dichloropropene	5.48				5.00		110	70-130			
trans-1,3-Dichloropropene	5.84				5.00		117	70-130			
Ethylbenzene	5.75				5.00		115	70-130			
Isopropylbenzene (Cumene)	1.09				1.27		86.1	70-130			
p-Isopropyltoluene (p-Cymene)	1.00				1.14		88.1	70-130			
Methyl tert-Butyl Ether (MTBE)	5.22				5.00		104	70-130			
Methylene Chloride	4.41				5.00		88.1	70-130			
4-Methyl-2-pentanone (MIBK)	5.76				5.00		115	70-130			
Styrene	6.07				5.00		121	70-130			
1,1,1,2-Tetrachloroethane	0.861				0.910		94.6	70-130			
1,1,2,2-Tetrachloroethane	5.24				5.00		105	70-130			
Tetrachloroethylene	5.52				5.00		110	70-130			
Toluene	5.43				5.00		109	70-130			
1,1,1-Trichloroethane	5.33				5.00		107	70-130			
1,1,2-Trichloroethane	5.17				5.00		103	70-130			

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	Limit	

Batch B072487 - TO-15 Prep

LCS (B072487-BS1)

Prepared & Analyzed: 05/01/13

Trichloroethylene	5.02				5.00		100	70-130		
Trichlorofluoromethane (Freon 11)	5.30				5.00		106	70-130		
1,2,4-Trimethylbenzene	6.18				5.00		124	70-130		
1,3,5-Trimethylbenzene	6.25				5.00		125	70-130		
Vinyl Chloride	4.50				5.00		90.1	70-130		
m&p-Xylene	12.2				10.0		122	70-130		
o-Xylene	5.84				5.00		117	70-130		
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.94</i>				<i>8.00</i>		<i>99.2</i>	<i>70-130</i>		
<i>Surrogate: 4-Bromofluorobenzene (2)</i>	<i>6.81</i>				<i>8.00</i>		<i>85.1</i>	<i>70-130</i>		

Duplicate (B072487-DUP1)

Source: 13D1166-08

Prepared: 05/01/13 Analyzed: 05/02/13

Acetone	15	0.80	35	1.9		13		9.02	25	
Acrylonitrile	ND	0.12	ND	0.25		ND			25	
Benzene	0.22	0.020	0.71	0.064		0.22		0.00	25	
Bromodichloromethane	ND	0.010	ND	0.067		ND			25	
Bromoform	ND	0.010	ND	0.10		ND			25	
2-Butanone (MEK)	1.2	0.80	3.6	2.4		1.2		0.755	25	
n-Butylbenzene	ND	0.058	ND	0.32		ND			25	
sec-Butylbenzene	ND	0.046	ND	0.25		ND			25	
Carbon Tetrachloride	0.075	0.010	0.47	0.063		0.075		0.00	25	
Chlorobenzene	ND	0.010	ND	0.046		ND			25	
Chloroethane	ND	0.040	ND	0.11		ND			25	
Chloroform	0.025	0.010	0.12	0.049		0.024		4.96	25	
Chloromethane	0.62	0.040	1.3	0.083		0.56		10.9	25	
Dibromochloromethane	ND	0.010	ND	0.085		ND			25	
1,2-Dibromoethane (EDB)	ND	0.010	ND	0.077		ND			25	
1,2-Dichlorobenzene	ND	0.020	ND	0.12		ND			25	
1,3-Dichlorobenzene	ND	0.020	ND	0.12		ND			25	
1,4-Dichlorobenzene	0.010	0.020	0.060	0.12		0.0096		4.08	25	
Dichlorodifluoromethane (Freon 12)	0.48	0.020	2.4	0.099		0.47		1.68	25	
1,1-Dichloroethane	ND	0.020	ND	0.081		ND			25	
1,2-Dichloroethane	0.021	0.010	0.084	0.040		0.024		15.9	25	
1,1-Dichloroethylene	ND	0.010	ND	0.040		ND			25	
cis-1,2-Dichloroethylene	ND	0.020	ND	0.079		ND			25	
trans-1,2-Dichloroethylene	ND	0.010	ND	0.040		ND			25	
1,2-Dichloropropane	ND	0.010	ND	0.046		ND			25	
1,3-Dichloropropane	ND	0.054	ND	0.25		ND			25	
cis-1,3-Dichloropropene	ND	0.010	ND	0.045		ND			25	
trans-1,3-Dichloropropene	ND	0.010	ND	0.045		ND			25	
Ethylbenzene	0.099	0.020	0.43	0.087		0.099		0.00	25	
Isopropylbenzene (Cumene)	ND	0.051	ND	0.25		ND			25	
p-Isopropyltoluene (p-Cymene)	0.020	0.046	0.11	0.25		0.020		1.98	25	
Methyl tert-Butyl Ether (MTBE)	ND	0.020	ND	0.072		ND			25	
Methylene Chloride	0.33	0.20	1.1	0.69		0.32		2.71	25	
4-Methyl-2-pentanone (MIBK)	0.075	0.020	0.31	0.082		0.078		4.70	25	
Styrene	0.035	0.020	0.15	0.085		0.036		2.25	25	
1,1,1,2-Tetrachloroethane	ND	0.036	ND	0.25		ND			25	

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	RPD Limit	Flag
	Results	RL	Results	RL	ppbv	Result	%REC Limits	RPD		
Batch B072487 - TO-15 Prep										
Duplicate (B072487-DUP1)		Source: 13D1166-08				Prepared: 05/01/13 Analyzed: 05/02/13				
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.069		ND			25	
Tetrachloroethylene	0.069	0.020	0.47	0.14		0.068		0.583	25	
Toluene	0.58	0.010	2.2	0.038		0.58		0.207	25	
1,1,1-Trichloroethane	ND	0.010	ND	0.055		ND			25	
1,1,2-Trichloroethane	ND	0.010	ND	0.055		ND			25	
Trichloroethylene	0.022	0.010	0.12	0.054		0.022		3.64	25	
Trichlorofluoromethane (Freon 11)	0.25	0.020	1.4	0.11		0.23		8.44	25	
1,2,4-Trimethylbenzene	0.068	0.020	0.33	0.098		0.065		4.23	25	
1,3,5-Trimethylbenzene	0.025	0.020	0.12	0.098		0.026		1.57	25	
Vinyl Chloride	ND	0.010	ND	0.026		ND			25	
m&p-Xylene	0.21	0.040	0.92	0.17		0.21		0.188	25	
o-Xylene	0.074	0.020	0.32	0.087		0.076		1.60	25	
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.70</i>					<i>8.00</i>		<i>96.2</i>	<i>70-130</i>	
<i>Surrogate: 4-Bromofluorobenzene (2)</i>	<i>8.14</i>					<i>8.00</i>		<i>102</i>	<i>70-130</i>	

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY
Acrylonitrile	AIHA,NJ
Benzene	AIHA,FL,NJ,NY,VA
Bromodichloromethane	AIHA,NJ,NY,VA
Bromoform	AIHA,NJ,NY,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,VA
n-Butylbenzene	AIHA
sec-Butylbenzene	AIHA
Carbon Tetrachloride	AIHA,FL,NJ,NY,VA
Chlorobenzene	AIHA,FL,NJ,NY,VA
Chloroethane	AIHA,FL,NJ,NY,VA
Chloroform	AIHA,FL,NJ,NY,VA
Chloromethane	AIHA,FL,NJ,NY,VA
Dibromochloromethane	AIHA,NY
1,2-Dibromoethane (EDB)	AIHA,NJ,NY
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,VA
1,3-Dichlorobenzene	AIHA,NJ,NY
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY
1,1-Dichloroethane	AIHA,FL,NJ,NY,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,VA
1,3-Dichloropropane	AIHA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,VA
trans-1,3-Dichloropropene	AIHA,NY
Ethylbenzene	AIHA,FL,NJ,NY,VA
Isopropylbenzene (Cumene)	AIHA,NJ,NY
p-Isopropyltoluene (p-Cymene)	AIHA
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA
Methylene Chloride	AIHA,FL,NJ,NY,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY
Styrene	AIHA,FL,NJ,NY,VA
1,1,1,2-Tetrachloroethane	AIHA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,VA
Tetrachloroethylene	AIHA,FL,NJ,NY,VA
Toluene	AIHA,FL,NJ,NY,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,VA
Trichloroethylene	AIHA,FL,NJ,NY,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY
1,2,4-Trimethylbenzene	AIHA,NJ,NY
1,3,5-Trimethylbenzene	AIHA,NJ,NY
Vinyl Chloride	AIHA,FL,NJ,NY,VA
m&p-Xylene	AIHA,FL,NJ,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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EPA TO-15 in Air

o-Xylene AIHA,FL,NJ,NY,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



Phone: 413-525-2332
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 www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

13D1166

39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Company Name: EA Engineering
 Address: 2374 Post Rd, Suite 102
Warwick, RI 02886

Telephone: (401) 736-3440
 Project # 14687.01
 Client PO # _____

Attention: Paul Theroux

Project Location: Alvarez High School, Providence, RI
 Sampled By: P. Theroux & M. Travers

Proposal Provided? (For Billing purposes)

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #: _____
 Email: atheroux@east.com
 Format: EXCEL PDF GIS KEY OTHER _____

Field ID	Sample Description	Media	Lab #
	Gymnasium	S	01
	Cafeteria		02
	Kitchen Storage Room		03
	Eventr Hallway		04
	Room 145		05
	Room 152		06
	Room 118		07
	Room 110		08

Laboratory Comments:

CLIENT COMMENTS:

Date	Start Time	Stop Time	Total	Flow Rate	Volume	Matrix
Date	Time	Date	Minutes Sampled	M ³ /Min. or L/Min.	Liters or M ³	Code*
4/24/13	0821	4/24/13	0951			1A
	0818		0846			
	0819		0847			
	0822		0852			
	0832		0902			
	0833		0903			
	0835		0905			
	0836		0906			

ANALYSIS REQUESTED	"Hg"	Summa Canister ID	Flow Control ID
	11	1424	417
	12	1455	417
	13	1437	4178
	14	1451	4179
	15	1439	4190
	16	1438	4181
	17	1436	4196
	18	1432	4195

Relinquished by: (signature)	Date/Time:
<u>[Signature]</u>	<u>4-30-13</u>
<u>[Signature]</u>	<u>4-30-13</u>
<u>[Signature]</u>	<u>4-30-13</u>
<u>[Signature]</u>	<u>4-30-13</u>

Turnaround **
 7-Day
 10-Day
 Other _____
RUSH *
 *24-Hr *48-Hr
 *72-Hr *4-Day
 Approval Required

Special Requirements
 Regulations: _____
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N
 (Surcharge Applies)
 Required Detection Limits: per contract
 Other: _____

**Matrix Code:
 SG= SOIL GAS
 IA= INDOOR AIR
 AMB=AMBIENT
 SS= SUB SLAB
 D= DUP
 BL= BLANK
 O= other

**Media Codes:
 S=summa can
 TB=tetlar bag
 P=PUF
 T=tube
 F= filter
 C=cassette
 O= Other

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



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

AIR SAMPLE CHAIN OF CUSTODY RECORD
 39 SPRUCE ST
 EAST LONGMEADOW, MA 01028
 13D1166

Company Name: EA Engineering
 Address: 2374 Post Road, Suite 102
Warwick, RI 02886
Paul Therox
 Attention:

Project Location: Alvarez HS, Providence, RI
 Sampled By: Therox & M. Travis

Proposal Provided? (For Billing purposes)
 yes no
 Proposal date: _____

Telephone: (401) 736-3440
 Project # 14657.01
 Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #: _____
 Email: therox@east.com
 Format: EXCEL PDF GIS KEY OTHER _____

Date Sampled	ONLY USE WHEN USING PUMPS		
	Start	Stop	Total
Date Time	Date Time	Minutes Sampled	Flow Rate
4/24/13 1042	4/24/13 1112		N ³ /Min. or L / Min.

Field ID	Sample Description	Media	Lab #	Date Time	Date Time	Minutes Sampled	Flow Rate	Volume	Matrix Code*	"Hg	LAB	Summa Canister ID	Flow Cont ID

ANALYSIS REQUESTED

"Hg

LAB

Summa canisters w/ flow controllers returned within 14 days after receipt or rental will apply.

Summa canisters retained for a minimum of 14 days after sampling date prior cleaning.

Flow Cont ID

CLIENT COMMENTS:

Turnaround **

- 7-Day
- 10-Day
- Other _____
- RUSH ***
- *24-Hr *48-Hr
- *72-Hr *4-Day

Special Requirements

Regulations: _____

Data Enhancement/RCP? Y N

Enhanced Data Package Y N

(Surcharge Applies)

Required Detection Limits: pP contract

Other: _____

*Matrix Code:

- SG= SOIL GAS
- IA= INDOOR AIR
- AMB= AMBIENT
- SS= SUB SLAB
- D= DUP
- BL= BLANK
- O= other _____

**Media Codes:

- S= summa can
- TB= tediard bag
- P= PUF
- T= tube
- F= filter
- C= cassette
- O= Other _____

Reinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: 4:30

Relinquished by: (signature) _____ Date/Time: 4:50

Received by: (signature) _____ Date/Time: 4:30

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



39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: EA Eng RECEIVED BY: WF DATE: 4/30/13

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 2) Does the chain agree with the samples?
If not, explain: Yes No
- 3) Are all the samples in good condition?
If not, explain: Yes No
- 4) Are there any samples "On Hold"? Yes No Stored where:
- 5) Are there any RUSH or SHORT HOLDING TIME samples?
Who was notified _____ Date _____ Time _____ Yes No

6) Location where samples are stored: Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test		
	# of Containers	Types (Size, Duration)
Summa Cans	9	6L
Tedlar Bags		
Tubes		
Regulators	9	30 MIN
Restrictors		
Tubing		
Other		

Unused Summas:

Unused Regulators:

- 1) Was all media (used & unused checked into the WASP?
- 2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1924 1955 1937 4174 4175 4178 4179
1951 1929 1928 1926 1922 4180 4181 4196 4195
1929 4019

APPENDIX C

Subslab Vapor Analytical Summary and Lab Report

**Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013**

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Acetone	8-Feb-08	17.200		NS		NS		NS		4.750		NS		NS		NS		5.620		11.400		NS	
	27-Mar-08	NS		28.700		NS		NS		NS	U	NS		NS		NS		NS		217.000		12.400	
	25-Apr-08	NS		NS		188.000		NS		NS		NS		513.000		NS		34.000		NS		33.900	
	29-May-08	NS		NS		NS		NS		NS		NS		NS		NS		9.820		16.400		NS	
	27-Jun-08	107.000		NS		NS		40.900		NS		NS		NS		NS		NS		20.400		9.730	
	31-Jul-08	NS		101.000		NS		NS		NS		NS		NS		NS		14.400		NS		18.100	
	28-Aug-08	NS		NS		1130.000		NS		NS		NS		NS		NS		NS		NS		NS	
	30-Sep-08	NS		NS		NS		32.800		NS		NS		NS		NS		44.100		NS		NS	
	27-Oct-08	19.600		NS		NS		NS		15.000		NS		NS		NS		NS		17.900		NS	
	25-Nov-08	NS		148.000		NS		NS		NS		183.000		NS		NS		NS		13.000		24.700	
	18-Dec-08	NS		NS		856.000		NS		NS		NS		NS		10.400		NS		NS		37.200	
	21-Jan-09	NS		NS		NS		19.100		NS		NS		NS		NS		6.100		U		2.400	
	25-Feb-09	28.600		NS		NS		NS		60.900		NS		NS		NS		NS		9.500		8.300	
	26-Mar-09	NS		102.000		NS		NS		NS		47.500		U		NS		NS		NS		50.600	
	29-Apr-09	NS		NS		1980.000		NS		NS		NS		NS		23.300		NS		5.150		NS	
	22-Jul-09	58.500		NS		NS		148.000		NS		87.800		NS		NS		NS		96.000		88.100	
	9-Oct-09	NS		25.700		NS		NS		49.700		NS		NS		9.200		11100.000		6.510		NS	
	15-Jan-10	33.600		NS		NS		22.800		NS		26.300		NS		NS		NS		12.500		11.200	
	21-Apr-10	NS		21.900		NS		NS		206.000		NS		NS		263.000		2870.000		72.800		NS	
	16-Jul-10	654.000		NS		4800.000		202.000		NS		11400.000		NS		NS		NS		8.340		21.100	
	15-Oct-10	NS		11.300		NS		NS		26.000		NS		NS		10.200		18.300		7.030		NS	
	26-Jan-11	114.000		26.800		NS		54.400		NS		34.400		NS		NS		35.400		25.300		33.300	
	28-Feb-11	NS		NS		80.800		NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		106.000		NS		NS		NS		255.000		NS		NS		227.000		17.800		NS	
	26-Jul-11	76.200		NS		120.000		154.000		E		NS		2730		NS		NS		12.800		23.800	
	28-Oct-11	NS		48.000		U		NS		48.000		U		NS		48.000		48.000		U		51.000	
	23-Jan-12	37.000		NS		36.000		19.000		NS		28.000		NS		NS		NS		NS		29.000	
	13-Apr-12	NS		32.000		NS		NS		70.000		NS		NS		32.000		83.000		NS		54.000	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		48.000	
	23-Jun-12	21.000		NS		30.000		370.000		NS		NS		1600.000		NS		NS		43.000		21.000	
	1-Nov-12	NS		41.000		NS		NS		NS		52.000		NS		75.000		44.000		NS		NS	
1-Feb-13	17.000		NS		12.000		25.000		NS		NS		36.000		NS		NS		NS		16.000		
29-Apr-13	NS		45		NS		NS		NS		100.000		NS		68.000		62.000		33.000		NS		
Acrylonitrile	8-Feb-08	1.080	U	NS		NS		NS		1.080	U	NS		NS		NS		1.080	U	1.080		NS	
	27-Mar-08	NS		1.080		NS	U	NS		NS		NS		NS		NS		NS		1.080		U	1.080
	25-Apr-08	NS		NS		1.080		NS	U	NS		NS		1.080		NS	U	1.080		NS		1.080	U
	29-May-08	NS		NS		NS		1.080		NS	U	NS		NS		NS		NS		1.080		U	1.080
	27-Jun-08	1.690		NS		NS		NS		1.080		NS		NS		NS		NS		NS		1.080	U
	31-Jul-08	NS		1.080		NS		NS		NS		NS		NS		NS		NS		1.080	U	NS	U
	28-Aug-08	NS		NS		1.080		NS		NS		NS		1.080		NS		NS		NS		NS	U
	30-Sep-08	NS		NS		NS		2.200		NS	U	NS		NS		2.200		NS		NS		2.200	U
	27-Oct-08	2.200		NS		NS		NS		2.200		NS		NS		NS		NS		2.200		NS	U
	25-Nov-08	NS		2.200		NS		NS		NS		2.200		NS		NS		NS		2.200	U	NS	U
	18-Dec-08	NS		NS		2.200		NS		NS		NS		2.200		NS		NS		NS		2.200	U
	21-Jan-09	NS		NS		NS		2.200		NS		NS		NS		NS		2.200		NS		2.200	U
	25-Feb-09	2.200		NS		NS		NS		2.200		NS		NS		NS		NS		2.200	U	NS	U
	26-Mar-09	NS		5.420		NS		NS		NS		10.800		NS		NS		NS		NS		1.080	U
	29-Apr-09	NS		NS		1.080		NS		NS		NS		1.080		NS		NS		1.080		NS	U
	22-Jul-09	5.420		NS		5.420		10.800		NS		NS		NS		NS		NS		1.080		1.080	U
	9-Oct-09	NS		0.051		NS		NS		1.080		NS		NS		NS		226.000		1.080		NS	U
	15-Jan-10	1.080		NS		1.080		NS	U	NS		NS		NS		NS		NS		1.080		NS	U
	21-Apr-10	NS		1.080		NS		NS		5.420		NS		NS		5.420		NS		1.080		NS	U
	16-Jul-10	1.080		NS		1.080		NS		NS		8.190		NS		NS		NS		1.080		NS	U
	15-Oct-10	NS		1.080		NS		NS		1.080		NS		NS		NS		NS		1.080		NS	U
	26-Jan-11	10.800		NS		NS		1.080		NS		NS		NS		5.420		NS		5.420		NS	U
	28-Feb-11	NS		NS		10.800		NS		NS		NS		NS		NS		NS		NS		NS	U
27-Apr-11	NS		1.080		NS		NS		1.080		NS		NS		NS		NS		NS		NS	U	
26-Jul-11	3.620		NS		3.620		1.080		NS		NS		NS		NS		NS		1.080		NS	U	
28-Oct-11	NS		NS		NS		NS		6.200		NS		6.200		6.200		6.200		6.200		NS	U	
23-Jan-12	1.200		NS		1.200		1.200		NS		NS		NS		NS		NS		NS		1.200	U	
13-Apr-12	NS		1.200		NS		NS		1.200		NS		NS		1.200		NS		NS		1.200	U	
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		6.200	U	
23-Jun-12	1.200		NS		1.200		1.200		NS		NS		NS		NS		NS		NS		1.200	U	
1-Nov-12	NS		0.250		NS		NS		0.250		NS		NS		0.250		NS		NS		NS	U	
1-Feb-13	0.250		NS		0.250		NS		NS		NS		NS		NS		NS		NS		NS	U	
29-Apr-13	NS		0.62		NS		NS		NS		0.250		NS		0.250		NS		NS		NS	U	
Benzene	8-Feb-08	0.920		NS		NS		NS		0.980		NS		NS		NS		0.540		0.850		NS	
	27-Mar-08	NS		0.540		NS		NS		NS		0.462		NS		NS		NS		0.788		0.635	
	25-Apr-08	NS		NS		0.584		NS		NS		NS		0.745		NS		0.428		NS		0.536	
	29-May-08	NS		NS		NS		0.730		NS		NS		NS		1.030		NS		0.610		NS	
	27-Jun-08	0.626		NS		NS		NS		0.468													

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		IMP-1		IMP-2		IMP-3		
		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Bromodichloromethane	8-Feb-08	0.130		NS		NS		NS		0.130		NS		NS		NS		0.130		NS		NS		NS
	27-Mar-08	NS	U	0.134	U	NS	U	NS	U	NS	U	0.134	U	NS	U	NS	U	0.134	U	0.134	U	0.134	U	0.134
	25-Apr-08	NS		NS		0.134		NS		NS		NS		0.134		NS		0.130		NS		0.130		0.134
	29-May-08	NS		NS		NS		NS		0.130		NS		NS		0.130		0.130		NS		0.130		NS
	27-Jun-08	0.209	U	NS		NS		NS		NS		0.134		NS		NS		NS		NS		0.134		0.134
	31-Jul-08	NS		0.134	U	NS		NS		NS		NS		NS		NS		0.134		NS		0.134		NS
	28-Aug-08	NS		NS		0.134		NS		NS		NS		0.134		NS		0.134		NS		0.134		NS
	30-Sep-08	NS		NS		NS		0.520		NS		NS		NS		0.130		NS		0.130		0.230		0.130
	27-Oct-08	0.130	U	NS		NS		NS		NS		1.070		NS		NS		NS		0.130		NS		0.130
	25-Nov-08	NS		0.130	U	NS		NS		NS		0.130		NS		NS		0.130		NS		3.000		NS
	18-Dec-08	NS		NS		0.130		NS		NS		NS		0.130		NS		NS		0.130		0.130		0.130
	21-Jan-09	NS		NS		NS		0.130		NS		NS		NS		0.130		NS		0.130		NS		0.130
	25-Feb-09	0.130	U	NS		NS		NS		NS		0.130		NS		NS		0.130		NS		0.130		NS
	26-Mar-09	NS		0.670	U	NS		NS		NS		1.340		NS		NS		NS		0.130		0.134		0.134
	29-Apr-09	NS		NS		0.134		NS		NS		NS		0.134		NS		NS		0.134		NS		0.134
	22-Jul-09	0.670	U	NS		27.300		NS		1.340		NS		0.670		NS		NS		0.134		0.134		NS
	9-Oct-09	NS		0.134	U	NS		NS		NS		0.134		NS		NS		28.000		0.134		NS		0.134
	15-Jan-10	0.134	U	NS		0.134		NS		0.134		NS		0.134		NS		NS		0.134		0.134		NS
	21-Apr-10	NS		0.134	U	NS		NS		NS		0.670		NS		0.670		NS		0.134		NS		0.134
	16-Jul-10	0.134	U	NS		0.134		NS		NS		NS		0.134		NS		NS		0.134		0.134		NS
	15-Oct-10	NS		0.134	U	NS		NS		NS		0.134		NS		0.134		0.134		NS		NS		0.134
	26-Jan-11	1.340	U	0.134	U	NS		NS		0.134		NS		0.670		NS		0.670		0.134		0.670		NS
	28-Feb-11	NS		NS		1.340		NS		NS		NS		NS		NS		NS		NS		NS		NS
	27-Apr-11	NS		0.134	U	NS		NS		NS		0.134		NS		0.134		NS		0.134		NS		0.134
	26-Jul-11	0.447	U	NS		0.447		NS		0.134		NS		0.670		NS		NS		0.134		0.670		NS
	28-Oct-11	NS		3.400	U	NS		NS		NS		3.400		NS		3.400		3.400		3.400		NS		3.400
	23-Jan-12	0.670	U	NS		0.670		NS		0.670		NS		0.670		NS		NS		0.670		NS		NS
	13-Apr-12	NS		0.340	U	NS		NS		NS		0.340		NS		0.340		0.340		0.670		NS		0.340
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		1.700		NS	
23-Jun-12	0.670	U	NS		0.670		NS		NS		0.670		NS		NS		NS		0.670		0.670		NS	
1-Nov-12	NS		0.067	U	NS		NS		NS		0.067		NS		0.067		0.067		0.067		NS		0.067	
1-Feb-13	0.067	U	NS		0.067		NS		0.067		NS		NS		NS		NS		0.067		NS		NS	
29-Apr-13	NS		0.160	U	NS		NS		NS		0.067		NS		0.670		0.067		NS		NS		0.067	
Bromoform	8-Feb-08	0.210	U	NS		NS		NS		0.210		NS		NS		NS		0.210		0.210		NS		NS
	27-Mar-08	NS		0.206	U	NS		NS		0.206		NS		NS		NS		NS		0.206		0.206		0.206
	25-Apr-08	NS		NS		0.206		NS		NS		NS		0.206		NS		NS		NS		NS		0.206
	29-May-08	NS		NS		NS		0.210		NS		NS		NS		0.210		NS		0.210		NS		NS
	27-Jun-08	0.322	U	NS		NS		NS		NS		0.206		NS		NS		NS		NS		0.206		0.206
	31-Jul-08	NS		0.206	U	NS		NS		NS		NS		NS		NS		NS		0.206		NS		0.206
	28-Aug-08	NS		NS		0.206		NS		NS		NS		0.206		NS		NS		0.206		NS		0.206
	30-Sep-08	NS		NS		NS		0.410		NS		NS		NS		0.410		NS		0.410		NS		0.410
	27-Oct-08	0.410	U	NS		NS		NS		NS		0.410		NS		NS		NS		NS		NS		0.410
	25-Nov-08	NS		0.140	U	NS		NS		NS		0.410		NS		NS		NS		0.410		NS		NS
	18-Dec-08	NS		NS		0.410		NS		NS		NS		0.410		NS		NS		NS		NS		0.410
	21-Jan-09	NS		NS		NS		0.410		NS		NS		NS		0.410		NS		NS		NS		0.410
	25-Feb-09	0.410	U	NS		NS		NS		NS		0.140		NS		NS		NS		0.410		NS		NS
	26-Mar-09	NS		1.030	U	NS		NS		NS		2.060		NS		NS		NS		NS		0.206		0.206
	29-Apr-09	NS		NS		0.206		NS		NS		NS		NS		NS		NS		0.206		NS		0.206
	22-Jul-09	1.030	U	NS		42.000		NS		2.060		NS		NS		NS		NS		0.206		NS		NS
	9-Oct-09	NS		0.206	U	NS		NS		NS		0.206		NS		0.206		43.100		0.206		NS		0.206
	15-Jan-10	0.206	U	NS		0.206		NS		NS		NS		0.206		NS		NS		0.206		NS		NS
	21-Apr-10	NS		0.206	U	NS		NS		NS		1.030		NS		0.206		NS		0.206		NS		NS
	16-Jul-10	0.206	U	NS		0.206		NS		NS		NS		1.560		NS		NS		0.206		NS		NS
	15-Oct-10	NS		0.206	U	NS		NS		NS		0.206		NS		0.206		NS		NS		NS		0.206
	26-Jan-11	2.060	U	NS		NS		NS		NS		1.030		NS		1.030		NS		0.206		NS		NS
	28-Feb-11	NS		NS		2.060		NS		NS		NS		NS		NS		NS		NS		NS		NS
	27-Apr-11	NS		0.206	U	NS		NS		NS		0.206		NS		0.206		NS		NS		NS		NS
	26-Jul-11	0.690	U	NS		0.690		0.207		NS		1.030		NS		NS		NS		0.207		NS		NS
	28-Oct-11	NS		5.200	U	NS		NS		NS		5.200		NS		5.200		5.200		5.200		NS		5.200
	23-Jan-12	1.000	U	NS		1.000		NS		NS		1.000		NS		NS		NS		1.000		NS		NS
	13-Apr-12	NS		1.000	U	NS		NS		NS		1.000		NS		1.000		1.000		1.000		NS		1.000
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		5.200		NS	
23-Jun-12	1.000	U	NS		1.000		NS		NS		1.000		NS		NS		NS		1.000		NS		NS	
1-Nov-12	NS		0.210	U	NS		NS		NS		0.210		NS		0.210		NS		0.210		NS		NS	
1-Feb-13	0.210	U	NS		0.210		NS		NS		0.210		NS		NS		NS		0.210		NS		NS	
29-Apr-13	NS		0.520	U	NS		NS		NS		0.210		NS		0.210		0.210		0.210		NS		0.210	
2-Butanone	8-Feb-08	126.000		NS		NS		NS		1.470		NS		NS		NS		3.080		10.600		NS		NS
	27-Mar-08	NS		226.000		NS		NS																

**Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013**

Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		IMP-1		IMP-2		IMP-3		
		Qual	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	
n-Butylbenzene	8-Feb-08		2.740	U	NS		NS		NS		2.740		NS		NS		NS		2.740		2.740		NS	
	27-Mar-08		NS		2.740	U	NS		NS		NS		NS		NS		NS		NS	U	2.740	U	2.740	U
	25-Apr-08		NS		NS		2.740	U	NS		NS		NS	U	NS		NS		NS	U	NS	U	NS	U
	29-May-08		NS		NS		NS		2.740	U	NS		NS		NS		NS		NS	U	NS	U	NS	U
	27-Jun-08		4.270	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	31-Jul-08		NS		2.740	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	28-Aug-08		NS		NS		2.740	U	NS		NS		NS		NS	U	NS		NS	U	NS	U	NS	U
	30-Sep-08		NS		NS		NS		NS		5.500	U	NS		NS		NS		NS	U	NS	U	NS	U
	27-Oct-08		22.100		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	25-Nov-08		NS		5.500	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	18-Dec-08		NS		NS		5.500	U	NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	21-Jan-09		NS		NS		NS		5.500	U	NS		NS		NS		NS		NS	U	NS	U	NS	U
	25-Feb-09		5.500	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	26-Mar-09		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	29-Apr-09		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	22-Jul-09		13.700	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	9-Oct-09		NS		1.080	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	15-Jan-10		2.740	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	21-Apr-10		NS		2.740	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	16-Jul-10		2.740	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	15-Oct-10		NS		2.740	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	26-Jan-11		27.400	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	28-Feb-11		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	27-Apr-11		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	26-Jul-11		9.170	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	28-Oct-11		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	23-Jan-12		1.600	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	13-Apr-12		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	2-Jul-12 (resample)		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	23-Jun-12		1.600	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
1-Nov-12		NS		0.320	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U	
1-Feb-13		0.320	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U	
29-Apr-13		NS		0.790	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U	
sec-Butylbenzene	8-Feb-08		2.740	U	NS		NS		NS		2.740		NS		NS		NS		2.740	U	2.740	U	NS	U
	27-Mar-08		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	25-Apr-08		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	29-May-08		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	27-Jun-08		4.270	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	31-Jul-08		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	28-Aug-08		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	27-Oct-08		NS		NS		NS		NS		5.500	U	NS		NS		NS		NS	U	NS	U	NS	U
	27-Oct-08		5.500	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	25-Nov-08		NS		5.500	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	18-Dec-08		NS		NS		5.500	U	NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	21-Jan-09		NS		NS		NS		5.500	U	NS		NS		NS		NS		NS	U	NS	U	NS	U
	25-Feb-09		5.500	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	26-Mar-09		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	29-Apr-09		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	22-Jul-09		13.700	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	9-Oct-09		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	15-Jan-10		2.740	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	21-Apr-10		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	16-Jul-10		2.740	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	15-Oct-10		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	26-Jan-11		27.400	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	28-Feb-11		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	27-Apr-11		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	26-Jul-11		9.170	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	28-Oct-11		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	23-Jan-12		1.300	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	13-Apr-12		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	2-Jul-12 (resample)		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
	23-Jun-12		1.300	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U
1-Nov-12		NS		0.250	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U	
1-Feb-13		0.250	U	NS		NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U	
29-Apr-13		NS		0.630	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	NS	U	
Carbon tetrachloride	8-Feb-08		0.440		NS		NS		NS		0.460		NS		NS		NS		0.530		0.450		NS	
	27-Mar-08		NS		0.539		NS		NS		NS		NS		NS		NS		NS		0.576		NS	
	25-Apr-08		NS		NS		0.417		NS		NS		NS		NS		NS		NS		NS		NS	
	29-May-08		NS		NS		NS		0.460		NS		NS		NS		NS		NS		0.470		NS	
	27-Jun-08		0.478		NS		NS		NS		0.506		NS		NS		NS		NS		NS		0.533	
	31-Jul-08		NS		NS		NS																	

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual	
Chlorobenzene	8-Feb-08	0.090		NS		NS		NS		0.090		NS		NS		NS		0.090		0.090		NS		
	27-Mar-08	NS	U	0.052	U	NS		NS		NS	U	0.092	U	NS		NS		NS	U	0.092	U	0.092	U	
	25-Apr-08	NS		NS		0.092	U	NS		NS		NS		0.092	U	NS		NS		NS		0.092	U	
	29-May-08	NS		NS		NS		0.090	U	NS		NS		NS		0.090	U	NS		0.090	U	NS	U	
	27-Jun-08	0.207		NS		NS		NS		0.092	U	NS		NS		NS		NS		NS	U	0.092	U	
	31-Jul-08	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS	U	0.092	U	
	28-Aug-08	NS		NS		0.092	U	NS		NS		NS		0.092	U	NS		NS		0.092	U	NS	U	
	30-Sep-08	NS		NS		NS		2.300	U	NS		NS		NS		2.300	U	NS		2.300	U	NS	U	
	27-Oct-08	2.300	U	NS		NS		NS		2.300	U	NS		NS		NS		2.300		NS	U	NS	U	
	25-Nov-08	NS		2.300	U	NS		NS		2.300	U	NS		NS		NS		2.300		NS	U	NS	U	
	18-Dec-08	NS		NS		2.300	U	NS		NS		NS		2.300	U	NS		NS		2.300	U	NS	U	
	21-Jan-09	NS		NS		2.300	U	NS		NS		NS		NS		2.300	U	NS		2.300	U	NS	U	
	25-Feb-09	2.300	U	NS		NS		NS		2.300	U	NS		NS		NS		2.300		NS	U	NS	U	
	26-Mar-09	NS		0.460	U	NS		NS		NS		0.920	U	NS		NS		NS		NS	U	0.092	U	
	29-Apr-09	NS		NS		0.092	U	NS		NS		NS		0.092	U	NS		NS		0.092	U	NS	U	
	22-Jul-09	0.460	U	NS		18.800	U	0.920	U	NS		0.460	U	NS		NS		0.092		NS	U	0.092	U	
	9-Oct-09	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	19.200	U	NS		0.092	U	NS	U	
	15-Jan-10	0.092	U	NS		0.092	U	NS		NS		0.092		NS		NS		NS		NS	U	0.092	U	
	21-Apr-10	NS		0.092	U	NS		NS		0.460	U	NS		0.460	U	0.460	U	NS		NS	U	0.092	U	
	16-Jul-10	0.092	U	NS		0.092	U	0.212	U	NS		0.695	U	NS		NS		NS		NS	U	0.092	U	
	15-Oct-10	NS		0.092	U	NS		NS		0.129	U	NS		0.106	U	0.101	U	NS		NS	U	NS	U	
	26-Jan-11	0.920	U	0.092	U	NS		0.092	U	NS		0.460	U	NS		0.460	U	NS		NS	U	NS	U	
	28-Feb-11	NS		NS		0.920	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	
	27-Apr-11	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	0.092	U	NS		NS	U	NS	U	
	26-Jul-11	0.307	U	NS		0.307	U	0.092	U	NS		0.460	U	NS		NS		NS		0.092	U	NS	U	
	28-Oct-11	NS		2.300	U	NS		NS		2.300	U	NS		2.300	U	2.300	U	NS		NS	U	NS	U	
	23-Jan-12	0.460	U	NS		0.460	U	0.460	U	NS		0.460	U	NS		NS		NS		NS	U	12.000	U	
	13-Apr-12	NS		0.460	U	NS		NS		NS		NS		0.460	U	NS		NS		NS	U	NS	U	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	2.300	U	
23-Jun-12	0.460	U	NS		0.460	U	0.460	U	NS		NS		NS		NS		NS		NS	U	0.460	U		
1-Nov-12	NS		0.092	U	NS		NS		0.092	U	NS		0.160	U	0.092	U	NS		NS	U	NS	U		
1-Feb-13	0.092	U	NS		0.092	U	NS		NS		0.092	U	NS		NS		NS		NS	U	NS	U		
29-Apr-13	NS		0.120	U	NS		NS		NS		0.046	U	NS		0.046	U	NS		NS	U	NS	U		
Chloroethane	8-Feb-08	0.050	U	NS		NS		NS		0.050	U	NS		NS		NS		0.050	U	0.050	U	NS	U	
	27-Mar-08	NS		0.053	U	NS		NS		NS		0.053	U	NS		NS		NS		NS	U	0.053	U	
	25-Apr-08	NS		NS		0.053	U	NS		NS		0.139	U	NS		NS		0.053		NS	U	NS	U	
	29-May-08	NS		NS		NS		0.110	U	NS		NS		NS		0.100		0.070		NS	U	NS	U	
	27-Jun-08	0.082	U	NS		NS		NS		0.132	U	NS		NS		NS		NS		NS	U	0.053	U	
	31-Jul-08	NS		0.053	U	NS		NS		NS		NS		NS		NS		NS		NS	U	0.053	U	
	28-Aug-08	NS		NS		0.053	U	NS		NS		NS		0.153	U	NS		NS		NS	U	NS	U	
	30-Sep-08	NS		NS		NS		1.300	U	NS		NS		NS		1.300	U	NS		NS	U	1.300	U	
	27-Oct-08	1.300	U	NS		NS		NS		1.300	U	NS		NS		NS		1.300		NS	U	NS	U	
	25-Nov-08	NS		1.300	U	NS		NS		NS		1.300	U	NS		NS		1.300		NS	U	NS	U	
	18-Dec-08	NS		NS		1.300	U	NS		NS		NS		1.300	U	NS		NS		NS	U	1.300	U	
	21-Jan-09	NS		NS		NS		1.300	U	NS		NS		NS		1.300	U	NS		NS	U	1.300	U	
	25-Feb-09	1.300	U	NS		NS		NS		1.300	U	NS		NS		NS		1.300		NS	U	NS	U	
	26-Mar-09	NS		0.264	U	NS		NS		NS		0.527	U	NS		NS		NS		NS	U	0.121	U	
	29-Apr-09	NS		NS		0.137	U	NS		NS		NS		0.063	U	NS		NS		NS	U	NS	U	
	22-Jul-09	0.264	U	NS		10.800	U	0.527	U	NS		NS		0.277	U	NS		NS		NS	U	0.061	U	
	9-Oct-09	NS		0.053	U	NS		NS		0.058	U	NS		0.406	U	11.000	U	NS		0.053	U	NS	U	
	15-Jan-10	0.053	U	NS		0.074	U	0.066	U	NS		0.053		NS		NS		NS		NS	U	0.053	U	
	21-Apr-10	NS		0.074	U	NS		NS		0.264	U	NS		0.303	U	0.303	U	NS		NS	U	NS	U	
	16-Jul-10	0.100	U	NS		2.550	U	0.166	U	NS		0.398	U	NS		NS		NS		NS	U	0.087	U	
	15-Oct-10	NS		0.053	U	NS		NS		0.082	U	NS		NS		0.071	U	NS		NS	U	NS	U	
	26-Jan-11	0.527	U	0.053	U	NS		0.077	U	NS		0.264	U	NS		NS		0.264		NS	U	0.264	U	
	28-Feb-11	NS		NS		0.527	U	NS		NS		NS		NS		NS		NS		NS	U	NS	U	
	27-Apr-11	NS		0.053	U	NS		NS		0.079	U	NS		NS		0.082	U	0.053	U	NS	U	NS	U	
	26-Jul-11	0.176	U	NS		0.176	U	0.116	U	NS		0.264	U	NS		NS		NS		NS	U	0.264	U	
	28-Oct-11	NS		1.300	U	NS		NS		1.300	U	NS		1.300	U	1.300	U	NS		NS	U	NS	U	
	23-Jan-12	0.260	U	NS		0.260	U	0.260	U	NS		0.260	U	NS		NS		NS		NS	U	0.260	U	
	13-Apr-12	NS		0.260	U	NS		NS		NS		0.260	U	NS		NS		NS		NS	U	NS	U	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	1.300	U	
23-Jun-12	0.260	U	NS		0.260	U	0.260	U	NS		0.260	U	NS		NS		NS		NS	U	0.260	U		
1-Nov-12	NS		0.053	U	NS		NS		0.085	U	NS		0.080	U	0.053	U	NS		NS	U	NS	U		
1-Feb-13	0.082	U	NS		0.053	U	0.110	U	NS		0.053	U	NS		NS		NS		NS	U	0.053	U		
29-Apr-13	NS		0.400	U	NS		NS		0.110	U	NS		0.110	U	0.110	U	NS		NS	U	0.110	U		
Chloroform	8-Feb-08	0.100	U	NS	</																			

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual	
1,2-Dichlorobenzene	8-Feb-08	0.120	U	NS		NS		NS		0.120		NS		NS		NS		0.120	U	0.550		NS		
	27-Mar-08	NS		0.120	U	NS		NS		NS		0.120	U	NS		NS		NS		0.120	U	0.120	U	
	25-Apr-08	NS		NS		NS	U	NS		NS		NS		0.120	U	NS		0.120	U	NS		0.120	U	
	29-May-08	NS		NS		NS		0.120	U	NS		NS		NS		0.120	U	0.120	U	NS		0.120	U	
	27-Jun-08	0.187	U	NS		NS		NS		NS		NS		NS		NS		NS		0.120	U	0.120	U	
	31-Jul-08	NS		0.120	U	NS		NS		NS		NS		NS		NS		0.120	U	NS		0.120	U	
	28-Aug-08	NS		NS		0.120	U	NS		NS		NS		0.120	U	NS		0.120	U	0.120		NS		
	30-Sep-08	NS		NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		3.000	U	3.000	U	
	27-Oct-08	3.000	U	NS		NS		NS		NS		NS		NS		NS		NS		3.000	U	NS		
	25-Nov-08	NS		3.000	U	NS		NS		NS		3.000	U	NS		NS		3.000	U	3.000		NS		
	18-Dec-08	NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		NS		3.000	U	3.000	U	
	21-Jan-09	NS		NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		3.000	U	NS		
	25-Feb-09	3.000	U	NS		NS		NS		NS		3.000	U	NS		NS		3.000	U	3.000		NS		
	26-Mar-09	NS		0.601	U	NS		NS		NS		1.200	U	NS		NS		NS		0.120	U	0.120	U	
	29-Apr-09	NS		NS		0.120	U	NS		NS		NS		0.120	U	NS		0.120	U	NS		0.120	U	
	22-Jul-09	0.601	U	NS		24.000	U	1.200	U	NS		0.601	U	NS		NS		NS		0.120	U	0.120	U	
	9-Oct-09	NS		0.120	U	NS		NS		NS		0.120	U	NS		NS		25.100	U	0.120	U	NS		
	15-Jan-10	0.120	U	NS		0.120	U	NS		NS		0.120	U	NS		NS		NS		0.120	U	0.120	U	
	21-Apr-10	NS		0.120	U	NS		NS		0.601	U	NS		0.601	U	0.601	U	0.601	U	0.120	U	NS		
	16-Jul-10	0.120	U	NS		0.120	U	NS		NS		0.907	U	NS		NS		NS		0.120	U	1.200	U	
	15-Oct-10	NS		0.120	U	NS		NS		0.120	U	NS		0.120	U	0.120	U	0.120	U	0.120	U	NS		
	26-Jan-11	1.200	U	NS		NS		NS		NS		0.601	U	NS		0.601	U	0.601	U	0.601	U	0.601	U	
	28-Feb-11	NS		NS		1.200	U	NS		NS		NS		NS		NS		NS		NS		NS		
	27-Apr-11	NS		0.120	U	NS		NS		NS		0.120	U	NS		0.120	U	0.120	U	0.120	U	NS		
	26-Jul-11	0.401	U	NS		0.401	U	0.120	U	NS		0.601	U	NS		NS		NS		0.120	U	0.601	U	
	28-Oct-11	NS		3.000	U	NS		NS		3.000	U	NS		3.000	U	3.000	U	3.000	U	3.000	U	NS		
	23-Jan-12	0.600	U	NS		0.600	U	0.100	U	NS		0.600	U	NS		NS		NS		0.600	U	7.500	U	
	13-Apr-12	NS		0.600	U	NS		NS		NS		0.600	U	NS		0.600	U	0.600	U	0.600	U	NS		
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		3.000	U		
23-Jun-12	0.600	U	NS		0.600	U	0.600	U	NS		0.600	U	NS		NS		NS		0.600	U	0.600	U		
1-Nov-12	NS		0.120	U	NS		NS		NS		0.120	U	NS		0.120	U	0.120	U	0.120	U	NS			
1-Feb-13	0.120	U	NS		0.120	U	NS		NS		0.120	U	NS		NS		NS		0.120	U	0.120	U		
29-Apr-13	NS		0.300	U	NS		NS		NS		0.120	U	NS		0.120	U	0.120	U	NS		0.120	U		
1,3-Dichlorobenzene	8-Feb-08	0.120	U	NS		NS		NS		0.120		NS		NS		NS		0.120	U	0.120		NS		
	27-Mar-08	NS		0.120	U	NS		0.600		NS		0.120	U	NS		NS		NS		0.120	U	0.120	U	
	25-Apr-08	NS		NS		NS	U	NS		NS		NS		0.120	U	NS		0.120	U	NS		0.120	U	
	29-May-08	NS		NS		NS		1.180		NS		NS		NS		3.470		0.620		NS		0.220		
	27-Jun-08	0.187	U	NS		NS		NS		0.257		NS		NS		NS		NS		0.120	U	0.120	U	
	31-Jul-08	NS		0.822		NS		NS		NS		NS		NS		NS		0.136		NS		0.120	U	
	28-Aug-08	NS		NS		0.120	U	NS		NS		NS		0.120	U	NS		0.120	U	0.120		NS		
	30-Sep-08	NS		NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		3.000	U	3.000	U	
	27-Oct-08	3.000	U	NS		NS		NS		NS		NS		NS		NS		NS		3.000	U	NS		
	25-Nov-08	NS		3.000	U	NS		NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		
	18-Dec-08	NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		NS		3.000	U	3.000	U	
	21-Jan-09	NS		NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		3.000	U	NS		
	25-Feb-09	3.000	U	NS		NS		NS		NS		3.000	U	NS		NS		NS		3.000	U	NS		
	26-Mar-09	NS		0.601	U	NS		NS		NS		1.200	U	NS		NS		NS		0.120	U	0.120	U	
	29-Apr-09	NS		NS		0.120	U	NS		NS		NS		0.120	U	NS		NS		0.120	U	NS		
	22-Jul-09	0.601	U	NS		24.500	U	1.200	U	NS		0.601	U	NS		NS		NS		0.120	U	0.360	U	
	9-Oct-09	NS		0.120	U	NS		NS		NS		0.120	U	NS		NS		25.100	U	0.120	U	NS		
	15-Jan-10	0.120	U	NS		0.120	U	NS		NS		0.120	U	NS		NS		NS		0.120	U	0.120	U	
	21-Apr-10	NS		0.120	U	NS		NS		0.601	U	NS		0.601	U	0.601	U	0.601	U	0.120	U	NS		
	16-Jul-10	0.595	U	NS		0.685		1.990		NS		0.907	U	NS		NS		NS		0.132		0.162		
	15-Oct-10	NS		0.120	U	NS		NS		0.120	U	NS		0.120	U	0.120	U	0.120	U	0.120	U	NS		
	26-Jan-11	1.200	U	NS		NS		0.120	U	NS		0.601	U	NS		0.601	U	0.601	U	0.601	U	0.601	U	
	28-Feb-11	NS		NS		1.200	U	NS		NS		NS		NS		NS		NS		NS		NS		
	27-Apr-11	NS		0.120	U	NS		NS		0.420		NS		0.156		0.120	U	0.120	U	NS		0.120	U	
	26-Jul-11	0.401	U	NS		0.401	U	0.120	U	NS		0.601	U	NS		NS		NS		0.120	U	0.601	U	
	28-Oct-11	NS		3.000	U	NS		NS		3.000	U	NS		3.000	U	3.000	U	3.000	U	3.000	U	NS		
	23-Jan-12	1.600	U	NS		1.800		2.300		NS		1.600	U	NS		NS		NS		1.900	U	2.700	U	
	13-Apr-12	NS		0.600	U	NS		NS		0.600	U	NS		0.600	U	2.000		0.600	U	NS		NS		
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		3.000	U		
23-Jun-12	0.600	U	NS		0.600	U	0.600	U	NS		0.600	U	NS		NS		NS		0.600	U	0.600	U		
1-Nov-12	NS		1.200		NS		NS		2.600		NS		6.000		2.200		NS		0.180		NS			
1-Feb-13	0.180	U	NS		0.340		0.560		NS		0.440		NS		NS		NS		0.170	U	0.120	U		
29-Apr-13	NS		1.300		NS		NS		4.500		NS		6.500		6.000		0.120	U	NS		0.140	U		
1,4-Dichlorobenzene	8-Feb-08	1.560																						

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual		
Dichlorodifluoromethane	8-Feb-08	2.000		NS		NS		NS		2.030		NS		NS		NS		1.920		2.000		NS			
	27-Mar-08	NS		2.290		NS		NS		NS		2.150		NS		NS		NS		2.720		4.140			
	25-Apr-08	NS		NS		2.010		NS		NS		NS		2.110		NS		2.040		NS		2.160			
	29-May-08	NS		NS		NS		1.630		NS		NS		NS		1.620		1.680		NS		NS			
	27-Jun-08	2.030		NS		NS		NS		2.520		NS		NS		NS		NS		2.270		2.480			
	31-Jul-08	NS		1.900		NS		NS		NS		NS		NS		NS		NS		1.810		NS			
	28-Aug-08	NS		NS		3.130		NS		NS		NS		2.800		NS		2.750		2.880		NS			
	30-Sep-08	NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		2.500		NS	U		
	27-Oct-08	2.500	U	NS		NS		NS		2.500	U	NS		NS		NS		2.500		NS		NS		U	
	25-Nov-08	NS		215.000		NS		NS		NS		11.700		NS		NS		2.500	U	NS		5.100		NS	
	18-Dec-08	NS		NS		25.000		NS		NS		NS		2.500	U	NS		NS		2.500		NS		NS	U
	21-Jan-09	NS		NS		NS		2.500	U	NS		NS		NS		5.800		2.500		NS	U	NS		2.500	U
	25-Feb-09	2.500	U	NS		NS		NS		19.400		NS		NS		NS		2.500	U	NS		3.400		NS	
	26-Mar-09	NS		2.550		NS		NS		NS		2.480		NS		NS		NS		NS		2.460		2.410	
	29-Apr-09	NS		NS		2.410		NS		NS		NS		3.780		NS		2.260		NS		NS		2.400	
	22-Jul-09	2.420		NS		2.420		2.720		NS		2.500		NS		NS		NS		2.370		NS		2.480	
	9-Oct-09	NS		2.730		NS		NS		2.770		NS		3.670		51.600	U	2.640		NS		NS		2.790	
	15-Jan-10	2.500		NS		3.570		2.520		NS		2.610		NS		NS		2.290		NS		2.250		NS	
	21-Apr-10	NS		0.568		NS		NS		2.200		NS		2.590		2.200		2.640		NS		NS		2.430	
	16-Jul-10	3.360		NS		2.610		2.550		NS		2.980		NS		NS		3.150		NS		3.290		NS	
	15-Oct-10	NS		3.130		NS		NS		2.670		NS		2.430		2.410		2.460		NS		NS		2.430	
	26-Jan-11	2.470	U	NS		2.200		2.640	U	NS		1.980		NS		2.570		3.310		NS		NS		NS	
	28-Feb-11	NS		NS		2.470		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		2.180		NS		NS		2.270		NS		2.260		2.500		2.320		NS		NS		2.310	
	26-Jul-11	2.410		NS		2.290		2.280		NS		2.080		NS		NS		2.440		NS		2.300		NS	
	28-Oct-11	NS		2.700		NS		NS		2.700		NS		2.700		2.700		2.900		NS		NS		3.100	
	23-Jan-12	2.500		NS		2.600		2.600		NS		2.700		NS		NS		2.600		NS		2.600		NS	
	13-Apr-12	NS		2.500		NS		NS		2.900		NS		2.400		3.200		2.500		NS		NS		2.800	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		2.800		NS	
23-Jun-12	2.600		NS		2.300		2.500		NS		2.300		NS		NS		2.300		NS		2.300		NS		
1-Nov-12	NS		1.800		NS		NS		1.800		NS		2.000		1.900		2.000		NS		NS		1.900		
1-Feb-13	1.400		NS		1.400		NS		1.500		NS		NS		NS		1.600		NS		NS		NS		
29-Apr-13	NS		2.600		NS		NS		2.300		NS		2.200		2.200		2.300		NS		NS		2.300		
1,1-Dichloroethane	8-Feb-08	0.080	U	NS		NS		NS		0.080	U	NS		NS		NS		0.080	U	0.080		NS	U		
	27-Mar-08	NS		0.081	U	NS		NS		NS		0.081	U	NS		NS		NS		0.081		U	0.081	U	
	25-Apr-08	NS		NS		0.081	U	NS		NS		NS		0.081	U	NS		0.081		NS		U	0.081	U	
	29-May-08	NS		NS		NS		0.080	U	NS		NS		NS		0.080	U	0.080		NS		U	NS	U	
	27-Jun-08	0.126	U	NS		NS		NS		0.081	U	NS		NS		NS		NS		0.081		U	0.081	U	
	31-Jul-08	NS		0.081	U	NS		NS		NS		NS		NS		NS		0.081	U	NS		U	0.081	U	
	28-Aug-08	NS		NS		0.081	U	NS		NS		NS		0.081	U	NS		0.081		U		U	0.081	U	
	27-Oct-08	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	NS		NS		U	2.000	U	
	27-Oct-08	2.000	U	NS		NS		NS		2.000	U	NS		NS		NS		2.000		U		U	2.000	U	
	25-Nov-08	NS		2.000	U	NS		NS		NS		2.000	U	NS		NS		2.000		U		U	2.000	U	
	18-Dec-08	NS		NS		2.000	U	NS		NS		NS		2.000	U	NS		NS		2.000		U	2.000	U	
	21-Jan-09	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	NS		2.000		U	2.000	U	
	25-Feb-09	2.000	U	NS		NS		NS		2.000	U	NS		NS		NS		2.000		U		U	NS	U	
	26-Mar-09	NS		0.404	U	NS		NS		NS		0.809	U	NS		NS		NS		NS		U	0.081	U	
	29-Apr-09	NS		NS		0.190		NS		NS		NS		0.081	U	NS		0.121		NS		U	0.081	U	
	22-Jul-09	0.404	U	NS		16.500	U	0.801	U	NS		0.404	U	NS		NS		0.081	U	0.081		U	NS	U	
	9-Oct-09	NS		0.081	U	NS		NS		0.081	U	NS		0.081	U	16.900	U	0.081		U		U	0.081	U	
	15-Jan-10	0.137	U	NS		0.081	U	0.801	U	NS		0.081	U	NS		NS		0.081		U		U	0.081	U	
	21-Apr-10	NS		0.081	U	NS		NS		0.404	U	NS		0.404	U	0.404	U	0.081		U		U	0.081	U	
	16-Jul-10	0.081	U	NS		2.480		0.081	U	NS		0.611	U	NS		NS		0.081		U		U	0.081	U	
	15-Oct-10	NS		0.081	U	NS		NS		0.081	U	NS		0.081	U	0.081	U	0.081		U		U	0.081	U	
	26-Jan-11	0.809	U	NS		NS		NS		NS		7.370	U	NS		0.404	U	0.404		U		U	0.404	U	
	28-Feb-11	NS		NS		0.809	U	NS		NS		NS		NS		NS		NS		NS		U	NS	U	
	27-Apr-11	NS		0.081	U	NS		NS		0.081	U	NS		0.081	U	0.081	U	0.081		U		U	NS	U	
	26-Jul-11	0.270	U	NS		0.270	U	0.081	U	NS		0.405	U	NS		NS		0.081		U		U	0.405	U	
	28-Oct-11	NS		2.000	U	NS		NS		2.000	U	NS		2.000	U	2.000	U	2.000		U		U	NS	U	
	23-Jan-12	0.400	U	NS		0.400	U	0.400	U	NS		0.400	U	NS		NS		0.400		U		U	NS	U	
	13-Apr-12	NS		NS		NS		NS		0.200	U	NS		0.200	U	0.200	U	0.200		U		U	NS	U	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		U		U	1.000	U	
23-Jun-12	0.400	U	NS		0.400	U	0.400	U	NS		0.400	U	NS		NS		0.400		U		U	0.400	U		
1-Nov-12	NS		0.040	U	NS		NS		0.040	U	NS		0.040	U	0.040	U	0.040		U		U	NS	U		
1-Feb-13	0.040	U	NS		0.040	U	0.040	U	NS		0.040	U	NS		NS		0.040		U		U	NS	U		
29-Apr-13	NS		0.200	U	NS		NS		NS		0.081	U	NS		0.081	U	0.081								

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15		MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		IMP-1		IMP-2		IMP-3		
	Sample Date		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual	
1,1-Dichloroethene	8-Feb-08	0.080	U	NS		NS		NS		0.080	U	NS		NS		NS		0.080	U	0.080	U	NS		
	27-Mar-08	NS		0.079	U	NS		NS		NS	U	0.079	U	NS		NS		NS	U	0.079	U	0.079	U	
	25-Apr-08	NS		NS		0.079	U	NS		NS		NS		0.079	U	NS		NS	U	NS	U	0.079	U	
	29-May-08	NS		NS		NS		0.080	U	NS		NS		NS		0.080	U	NS	U	0.080	U	NS		
	27-Jun-08	0.123	U	NS		NS		NS		0.079	U	NS		NS		NS		NS	U	0.079	U	0.079	U	
	31-Jul-08	NS		0.079	U	NS		NS		NS		NS		NS		NS		NS	U	0.079	U	0.079	U	
	28-Aug-08	NS		NS		0.079	U	NS		NS		NS		0.079	U	NS		NS	U	0.079	U	NS		
	30-Sep-08	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	NS	U	2.000	U	2.000	U	
	27-Oct-08	2.000	U	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	NS	U	2.000	U	
	25-Nov-08	NS		2.000	U	NS		NS		NS		2.000	U	NS		NS		2.000	U	NS	U	2.000	U	
	18-Dec-08	NS		NS		2.000	U	NS		NS		NS		2.000	U	NS		NS	U	2.000	U	2.000	U	
	21-Jan-09	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	NS	U	2.000	U	2.000	U	
	25-Feb-09	2.000	U	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	2.000	U	NS		
	26-Mar-09	NS		0.396	U	NS		NS		NS		0.792	U	NS		NS		NS	U	0.079	U	0.079	U	
	29-Apr-09	NS		NS		0.079	U	NS		NS		NS		0.079	U	NS		NS	U	NS	U	0.079	U	
	22-Jul-09	0.396	U	NS		16.200	U	0.792	U	NS		0.396	U	NS		NS		0.079	U	0.079	U	NS		
	9-Oct-09	NS		0.079	U	NS		NS		0.079	U	NS		0.079	U	16.500	U	0.079	U	NS	U	0.079	U	
	15-Jan-10	0.137	U	NS		0.079	U	NS		0.079	U	NS		0.079	U	NS		0.079	U	NS	U	0.079	U	
	21-Apr-10	NS		0.079	U	NS		NS		0.396	U	NS		0.396	U	0.396	U	0.079	U	NS	U	0.079	U	
	16-Jul-10	0.079	U	NS		0.206	U	0.079	U	NS		0.598	U	NS		NS		0.079	U	0.079	U	NS		
	15-Oct-10	NS		0.079	U	NS		NS		0.079	U	NS		0.079	U	0.079		0.079	U	NS	U	0.079	U	
	26-Jan-11	0.792	U	NS		0.079	U	NS		0.079	U	NS		0.396	U	3.960	U	0.396	U	0.396	U	0.396	U	NS
	28-Feb-11	NS		NS		0.792	U	NS		NS		NS		NS		NS		NS	U	NS	U	NS		
	27-Apr-11	NS		0.079	U	NS		NS		0.079	U	NS		0.079	U	0.079		NS	U	NS	U	0.079	U	
	26-Jul-11	0.264	U	NS		0.264	U	0.079	U	NS		0.396	U	NS		NS		0.079	U	0.396	U	NS		
	28-Oct-11	NS		2.000	U	NS		NS		2.000	U	NS		2.000	U	2.000	U	2.000	U	NS	U	2.000	U	
	23-Jan-12	0.400	U	NS		0.400	U	0.400	U	NS		0.400	U	NS		NS		0.400	U	0.400	U	NS		
	13-Apr-12	NS		0.200	U	NS		NS		0.200	U	NS		0.200	U	0.200	U	0.200	U	NS	U	0.200	U	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS	U	0.990	U	NS		
23-Jun-12	0.400	U	NS		0.400	U	0.400	U	NS		0.400	U	NS		NS		0.400	U	0.400	U	NS			
1-Nov-12	NS		0.040	U	NS		NS		0.040	U	NS		0.040	U	0.040		0.040	U	NS	U	0.040	U		
1-Feb-13	0.040	U	NS		0.040	U	NS		0.040	U	NS		0.040	U	NS		0.040	U	NS	U	0.040	U		
29-Apr-13	NS		0.099	U	NS		NS		NS		0.040	U	NS		0.040		0.040	U	NS	U	0.040	U		
cis-1,2-Dichloroethene*	8-Feb-08	0.080	U	NS		NS		NS		0.080	U	NS		NS		NS		0.080	U	0.080	U	NS		
	27-Mar-08	NS		0.079	U	NS		NS		NS	U	0.079	U	NS		NS		NS	U	0.079	U	0.079	U	
	25-Apr-08	NS		NS		0.079	U	NS		NS		NS		0.079	U	NS		NS	U	NS	U	0.079	U	
	29-May-08	NS		NS		NS		0.080	U	NS		NS		NS		0.080	U	NS	U	0.080	U	NS		
	27-Jun-08	0.123	U	NS		NS		NS		0.079	U	NS		NS		NS		NS	U	0.079	U	0.079	U	
	31-Jul-08	NS		0.079	U	NS		NS		NS		NS		NS		NS		0.079	U	NS	U	0.079	U	
	28-Aug-08	NS		NS		0.079	U	NS		NS		NS		0.079	U	NS		NS	U	0.079	U	NS		
	30-Sep-08	NS		NS		NS		5.900	U	NS		NS		NS		5.900	U	NS	U	5.900	U	5.900	U	
	27-Oct-08	2.000	U	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	NS	U	2.000	U	
	25-Nov-08	NS		2.000	U	NS		NS		NS		2.000	U	NS		NS		2.000	U	NS	U	2.000	U	
	18-Dec-08	NS		NS		2.000	U	NS		NS		NS		2.000	U	NS		NS	U	2.000	U	2.000	U	
	21-Jan-09	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	NS	U	2.000	U	2.000	U	
	25-Feb-09	2.000	U	NS		NS		NS		2.000	U	NS		NS		NS		2.000	U	2.000	U	NS		
	26-Mar-09	NS		0.396	U	NS		NS		NS		0.792	U	NS		NS		NS	U	0.079	U	0.079	U	
	29-Apr-09	NS		NS		0.079	U	NS		NS		NS		0.079	U	NS		NS	U	NS	U	0.079	U	
	22-Jul-09	0.396	U	NS		595.000	U	0.792	U	NS		0.396	U	NS		NS		0.079	U	0.079	U	NS		
	9-Oct-09	NS		0.079	U	NS		NS		0.079	U	NS		0.079	U	16.500	U	0.079	U	NS	U	0.079	U	
	15-Jan-10	0.079	U	NS		0.079	U	NS		NS		0.079	U	NS		NS		0.079	U	NS	U	0.079	U	
	21-Apr-10	NS		0.079	U	NS		NS		0.396	U	NS		0.396	U	0.396	U	0.079	U	NS	U	0.079	U	
	16-Jul-10	0.079	U	NS		0.079	U	NS		0.079	U	NS		0.598	U	NS		0.079	U	0.079	U	NS		
	15-Oct-10	NS		0.079	U	NS		NS		0.079	U	NS		0.079	U	0.079		0.079	U	NS	U	0.079	U	
	26-Jan-11	0.792	U	NS		NS		0.079	U	NS		0.396	U	NS		0.396	U	0.396	U	0.396	U	0.396	U	
	28-Feb-11	NS		NS		0.792	U	NS		NS		NS		NS		NS		NS	U	NS	U	NS		
	27-Apr-11	NS		0.079	U	NS		NS		0.079	U	NS		0.079	U	0.079		NS	U	NS	U	0.079	U	
	26-Jul-11	0.264	U	NS		0.264	U	0.079	U	NS		0.396	U	NS		NS		0.079	U	0.396	U	NS		
	28-Oct-11	NS		2.000	U	NS		NS		2.000	U	NS		2.000	U	2.000	U	2.000	U	NS	U	2.000	U	
	23-Jan-12	0.400	U	NS		0.400	U	0.400	U	NS		0.400	U	NS		NS		0.400	U	0.530	U	NS		
	13-Apr-12	NS		0.200	U	NS		NS		0.200	U	NS		0.200	U	0.200	U	0.200	U	NS	U	0.200	U	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS	U	0.990	U	NS		
23-Jun-12	0.400	U	NS		0.400	U	0.400	U	NS		0.400	U	NS		NS		0.400	U	0.400	U	NS			
1-Nov-12	NS		0.040	U	NS		NS		0.040	U	NS		0.040	U	0.040		0.040	U	NS	U	0.040	U		
1-Feb-13	0.040	U	NS		0.040	U	NS		0.040	U	NS		0.040	U	NS		0.040	U	NS	U	0.040	U		
29-Apr-13	NS		0.200	U	NS		NS		NS		0.079	U	NS		0.079		0.079	U	NS	U	0.079	U		
trans-1,2																								

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
1,2-Dichloropropane	8-Feb-08	0.090	U	NS	U	NS	U	NS	U	0.090	U	NS	U	NS	U	NS	U	0.090	U	0.090	U	NS	U
	27-Mar-08	NS		0.092	U	NS	U	NS	U	NS	U	0.092	U	NS	U	NS	U	NS	U	0.092	U	0.092	U
	25-Apr-08	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	29-May-08	NS		NS		0.092	U	NS		NS		0.092	U	NS		NS		0.090	U	0.090	U	NS	U
	27-Jun-08	0.144	U	NS		NS		NS	U	NS		NS	U	NS		NS		NS		NS		0.092	U
	31-Jul-08	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS		0.092	U
	28-Aug-08	NS		NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS	
	30-Sep-08	NS		NS		NS		0.090	U	NS		NS		NS		NS		NS		NS		NS	
	27-Oct-08	0.090	U	NS		NS		NS		0.090	U	NS		NS		NS		NS		NS		NS	
	25-Nov-08	NS		0.090	U	NS		NS		NS		0.090	U	NS		NS		NS		NS		NS	
	18-Dec-08	NS		NS		0.090	U	NS		NS		NS		0.090	U	NS		NS		NS		NS	
	21-Jan-09	NS		NS		NS		0.090	U	NS		NS		NS		NS		NS		NS		NS	
	25-Feb-09	0.090	U	NS		NS		NS		0.090	U	NS		NS		NS		NS		NS		NS	
	26-Mar-09	NS		0.462	U	NS		NS		NS		0.924	U	NS		NS		NS		NS		0.092	U
	29-Apr-09	NS		NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS	
	22-Jul-09	0.462	U	NS		18.800	U	0.924	U	NS		NS		0.462	U	NS		NS		NS		NS	
	9-Oct-09	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	15-Jan-10	0.092	U	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS	
	21-Apr-10	NS		0.092	U	NS		NS		0.462	U	NS		NS		0.462	U	NS		NS		NS	
	16-Jul-10	0.092	U	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS	
	15-Oct-10	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	26-Jan-11	0.924	U	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS	
	28-Feb-11	NS		NS		0.924	U	NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	26-Jul-11	0.308	U	NS		0.308	U	0.092	U	NS		0.462	U	NS		NS		NS		NS		0.462	U
	28-Oct-11	NS		NS		2.300	U	NS		2.300	U	NS		2.300	U	2.300	U	2.300	U	NS		NS	
	23-Jan-12	0.230	U	NS		0.230	U	0.230	U	NS		0.230	U	NS		NS		0.230	U	NS		0.230	U
	13-Apr-12	NS		0.460	U	NS		NS		NS		0.460	U	NS		NS		NS		NS		NS	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		1.200	U
23-Jun-12	0.460	U	NS		0.460	U	NS		NS		0.460	U	NS		NS		NS		NS		NS		
1-Nov-12	NS		0.046	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		
1-Feb-13	0.092	U	NS		0.092	U	NS		NS		NS		NS		NS		NS		NS		NS		
29-Apr-13	NS		0.120	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		
cis-1,3-Dichloropropene	8-Feb-08	0.090	U	NS	U	NS	U	NS	U	0.090	U	NS	U	NS	U	NS	U	0.090	U	0.090	U	NS	U
	27-Mar-08	NS		0.091	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	0.091	U
	25-Apr-08	NS		NS		0.091	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	29-May-08	NS		NS		NS		0.090	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	27-Jun-08	0.141	U	NS		NS		NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	31-Jul-08	NS		0.091	U	NS		NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	28-Aug-08	NS		NS		0.091	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	27-Oct-08	NS		NS		NS		0.180	U	NS		NS		NS		NS		NS		NS		0.180	U
	27-Oct-08	0.180	U	NS		NS		NS		0.180	U	NS		NS		NS		NS		NS		NS	
	25-Nov-08	NS		0.180	U	NS		NS		NS		0.180	U	NS		NS		NS		NS		NS	
	18-Dec-08	NS		NS		0.180	U	NS		NS		NS		0.180	U	NS		NS		NS		NS	
	21-Jan-09	NS		NS		NS		0.180	U	NS		NS		NS		NS		NS		NS		NS	
	25-Feb-09	0.180	U	NS		NS		NS		0.180	U	NS		NS		NS		NS		NS		NS	
	26-Mar-09	NS		0.453	U	NS		NS		NS		0.907	U	NS		NS		NS		NS		NS	
	29-Apr-09	NS		NS		0.091	U	NS		NS		NS		NS		NS		NS		NS		NS	
	22-Jul-09	0.453	U	NS		18.500	U	0.907	U	NS		NS		NS		NS		NS		NS		NS	
	9-Oct-09	NS		0.091	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	15-Jan-10	0.091	U	NS		0.091	U	NS		NS		NS		NS		NS		NS		NS		NS	
	21-Apr-10	NS		0.091	U	NS		NS		0.453	U	NS		NS		NS		NS		NS		NS	
	16-Jul-10	0.091	U	NS		0.091	U	NS		NS		NS		NS		NS		NS		NS		NS	
	15-Oct-10	NS		0.091	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	26-Jan-11	0.907	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	28-Feb-11	NS		NS		0.907	U	NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	26-Jul-11	0.303	U	NS		0.303	U	0.091	U	NS		0.454	U	NS		NS		NS		NS		NS	
	28-Oct-11	NS		NS		2.300	U	NS		NS		2.300	U	NS		2.300	U	2.300	U	NS		NS	
	23-Jan-12	0.450	U	NS		0.450	U	0.450	U	NS		0.450	U	NS		NS		NS		NS		NS	
	13-Apr-12	NS		0.200	U	NS		NS		NS		0.230	U	NS		NS		NS		NS		NS	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		1.100	U
23-Jun-12	0.450	U	NS		0.450	U	NS		NS		0.450	U	NS		NS		NS		NS		NS		
1-Nov-12	NS		0.045	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		
1-Feb-13	0.045	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		
29-Apr-13	NS		0.110	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		
trans-1,3-Dichloropropene	8-Feb-08	0.090	U	NS	U	NS	U	NS	U	0.090	U	NS	U	NS	U	NS	U	0.090	U	0.090	U	NS	U
	27-Mar-08	NS		0.091	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	0.091	U
	25-Apr-08	NS		NS		0.091	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	29-May-08	NS		NS		NS		0.090	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	27-Jun-08	0.141	U	NS		NS		NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U
	31-Jul-08	NS		0.091	U	NS		NS	U	NS	U	NS											

**Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013**

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual		
Ethylbenzene	8-Feb-08	0.210		NS		NS		NS		0.230		NS		NS		NS		0.330		4.890		NS			
	27-Mar-08	NS		0.295		NS		NS		NS		0.157		NS		NS		NS		0.645		0.372			
	25-Apr-08	NS		NS		0.291		NS		NS		0.320		NS		NS		NS		NS		0.565			
	29-May-08	NS		NS		NS		1.490		NS		NS		0.320		2.200		2.820		1.010		NS			
	27-Jun-08	4.340		NS		NS		NS		0.472		NS		NS		NS		NS		0.606		0.699			
	31-Jul-08	NS		+		NS		NS		NS		NS		NS		NS		NS		0.758		NS			
	28-Aug-08	NS		NS		0.830		NS		NS		NS		0.482		NS		0.711		0.666		NS			
	30-Sep-08	NS		NS		NS		2.200	U	NS		NS		NS		2.200	U	NS		2.200		2.200	U	U	
	27-Oct-08	18.400		NS		NS		NS		2.200	U	NS		NS		NS		2.200		NS		NS		U	
	25-Nov-08	NS		2.200		NS	U	NS		NS		2.200	U	NS		NS		2.300		2.200		NS		U	
	18-Dec-08	NS		NS		2.200	U	NS		NS		NS		2.200		NS		NS		2.200		2.200		U	U
	21-Jan-09	NS		NS		NS		2.200	U	NS		NS		NS		2.200	U	2.200		2.200		NS		U	U
	25-Feb-09	10.800		NS		NS		NS		2.200	U	NS		NS		NS		2.200		2.200		2.200		U	NS
	26-Mar-09	NS		0.516		NS		NS		NS		0.868		U		NS		NS		NS		0.845		1.180	
	29-Apr-09	NS		NS		0.190		NS		NS		NS		NS		NS		NS		0.304		NS		0.325	
	22-Jul-09	11.700		NS		11.700		0.868	U	NS		1.150		NS		NS		38.200		1.040		NS		NS	
	9-Oct-09	NS		0.564		NS		NS		0.560		NS		0.291		18.100		U		0.542		NS		0.542	
	15-Jan-10	6.950		NS		0.568		NS		0.542		NS		0.659		NS		NS		0.712		0.720		NS	
	21-Apr-10	NS		0.304		NS		NS		NS		1.340		NS		1.800		NS		1.760		NS		1.560	
	16-Jul-10	8.230		NS		2.400		1.800		NS		NS		1.440		NS		NS		1.510		1.420		NS	
	15-Oct-10	NS		0.534		NS		NS		NS		0.625		NS		0.521		0.573		1.070		NS		0.833	
	26-Jan-11	1.260		1.620		NS		1.660		NS		NS		1.260		NS		1.210		4.140		4.680		NS	
	28-Feb-11	NS		NS		0.868		NS	U	NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		0.243		NS		NS		0.239		NS		NS		0.286		3.860		0.364		NS		0.508	
	26-Jul-11	3.910		NS		0.942		0.339		NS		0.434		U		NS		NS		0.304		0.434		NS	
	28-Oct-11	NS		2.200		NS		NS		2.200	U	NS		NS		2.200	U	2.200		3.800		NS		2.200	U
	23-Jan-12	3.000		NS		0.790		0.560		NS		0.820		NS		NS		NS		1.700		12.000		NS	
	13-Apr-12	NS		0.430		NS		NS		0.430	U	NS		0.430		U		0.430	U	1.500		NS		0.430	U
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		2.200		NS	
	23-Jun-12	5.100		NS		0.530		0.430		U		NS		0.470		NS		NS		0.760		0.460		NS	
1-Nov-12	NS		0.550		NS		NS		NS		0.570		NS		0.800		0.750		0.870		NS		1.300		
1-Feb-13	1.300		NS		0.180		0.150		NS		NS		0.230		NS		NS		0.540		0.520		NS		
29-Apr-13	NS		0.330		NS		NS		NS		0.390		NS		0.370		0.490		0.630		NS		0.800		
Isopropylbenzene	8-Feb-08	2.460	U	NS		NS		NS		2.460	U	NS		NS		NS		2.460	U	2.460		NS		U	
	27-Mar-08	NS		2.460	U	NS		NS		NS		NS		NS		NS		NS		2.460		2.460		U	
	25-Apr-08	NS		NS		2.460	U	NS		NS		NS		2.460	U	NS		2.460		NS		2.460		U	
	29-May-08	NS		NS		NS		2.460	U	NS		NS		NS		2.460	U	2.460		NS		2.460		U	
	27-Jun-08	3.830	U	NS		NS		NS		2.460	U	NS		NS		NS		NS		2.460		2.460		U	
	31-Jul-08	NS		2.460		NS		NS		NS		NS		NS		NS		2.460	U	NS		2.460		U	
	28-Aug-08	NS		NS		2.460		NS		NS		NS		2.460		NS		2.460	U	2.460		NS		U	
	30-Sep-08	NS		NS		NS		4.900	U	NS		NS		NS		4.900	U	NS		4.900		4.900		U	
	27-Oct-08	5.200		NS		NS		NS		4.900	U	NS		NS		NS		4.900		NS		NS		U	
	25-Nov-08	NS		4.900		NS		NS		NS		4.900		U		NS		5.900	U	4.900		NS		U	
	18-Dec-08	NS		NS		4.900		NS		NS		NS		4.900	U	NS		NS		4.900		4.900		U	
	21-Jan-09	NS		NS		NS		4.900	U	NS		NS		NS		4.900	U	NS		4.900		NS		U	
	25-Feb-09	4.900	U	NS		NS		NS		4.900	U	NS		NS		NS		4.900	U	4.900		NS		U	
	26-Mar-09	NS		12.300		NS		NS		NS		24.600	U	NS		NS		NS		NS		2.460		U	
	29-Apr-09	NS		NS		2.460		NS		NS		NS		2.460	U	NS		NS		2.460		NS		U	
	22-Jul-09	12.300	U	NS		12.300	U	24.600	U	NS		12.300	U	NS		NS		3.780		2.460		NS		U	
	9-Oct-09	NS		2.740		NS		NS		2.460	U	NS		2.460	U	NS		513.000	U	2.460		NS		2.460	U
	15-Jan-10	2.460	U	NS		2.460	U	2.460	U	NS		2.460	U	NS		NS		NS		2.460		NS		NS	
	21-Apr-10	NS		2.460	U	NS		NS		12.300	U	NS		NS		12.300	U	NS		2.460		NS		2.460	U
	16-Jul-10	2.460	U	NS		2.660		2.460	U	NS		18.500	U	NS		NS		NS		2.460		NS		NS	
	15-Oct-10	NS		2.460	U	NS		NS		2.460	U	NS		NS		2.460	U	NS		2.460		NS		2.460	U
	26-Jan-11	24.600	U	2.460	U	NS		2.460	U	NS		12.300	U	NS		12.300	U	NS		12.300		NS		NS	
	28-Feb-11	NS		NS		24.600		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		2.460	U	NS		NS		2.460	U	NS		2.460	U	2.460	U	2.460		2.460		NS		2.460	U
	26-Jul-11	8.210	U	NS		8.210		2.460	U	NS		12.300		U		NS		NS		2.460		12.300		NS	
	28-Oct-11	NS		6.200		NS		NS		6.200	U	NS		U		6.200	U	6.200	U	6.200		NS		6.200	U
	23-Jan-12	1.200	U	NS		1.200		0.250	U	NS		1.200		U		NS		NS		1.200		1.400		NS	
	13-Apr-12	NS		1.200		NS		NS		NS		1.200	U	NS		1.200	U	1.200	U	1.200		NS		1.200	U
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		6.200		NS	
	23-Jun-12	1.200	U	NS		1.200	U	1.200	U	NS		1.200	U	NS		NS		NS		1.200	U	1.200		NS	
1-Nov-12	NS		0.250		NS		NS		0.250	U	NS		U		0.250	U	0.250	U	0.250		NS		0.250	U	
1-Feb-13	0.250	U	NS		0.250	U	NS		NS		0.250	U	NS		NS		NS		0.250		NS		NS		
29-Apr-13	NS		0.620	U	NS		NS		NS																

**Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013**

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual		
Styrene	8-Feb-08	0.090	U	NS		NS		NS		0.090	U	NS		NS		NS		0.300		3.150		NS			
	27-Mar-08	NS		0.100		NS		NS		NS	U	0.177		NS		NS		NS		0.206		0.404			
	25-Apr-08	NS		NS		0.244	U	NS		NS		NS		1.070		NS		NS		0.559		NS			
	29-May-08	NS		NS		NS		0.170		NS		NS		NS		0.300		0.360		0.270		NS			
	27-Jun-08	0.732		NS		NS		NS		0.354		NS		NS		NS		NS		0.598		0.590			
	31-Jul-08	NS		0.276		NS		NS		NS		NS		NS		NS		0.255		NS		0.170			
	28-Aug-08	NS		NS		1.220		NS		NS		NS		NS		0.754		NS		1.020		1.010			
	30-Sep-08	NS		NS		NS		2.100	U	NS		NS		NS		NS	U	2.100		NS		2.100	U		
	27-Oct-08	2.100	U	NS		NS		NS		2.100	U	NS		NS		NS		2.100		NS		NS		2.100	U
	25-Nov-08	NS		2.100	U	NS		NS		NS		2.100	U	NS		NS		2.100	U	NS		2.100	U	NS	
	18-Dec-08	NS		NS		2.100	U	NS		NS		NS		2.100	U	NS		NS		NS		2.100	U	NS	
	21-Jan-09	NS		NS		NS		2.100	U	NS		NS		NS		NS		2.100	U	NS		2.100	U	NS	
	25-Feb-09	2.100	U	NS		NS		NS		2.100	U	NS		NS		NS		2.100	U	NS		2.100	U	NS	
	26-Mar-09	NS		0.851	U	NS		NS		NS		1.700	U	NS		NS		NS		NS		0.292		0.361	
	29-Apr-09	NS		NS		0.174		NS		NS		NS		0.085	U	NS		NS		0.098		NS		0.243	
	22-Jul-09	0.426	U	NS		0.426	U	0.851	U	NS		0.426	U	NS		0.085	U	NS		0.600		0.149		NS	
	9-Oct-09	NS		0.085	U	NS		NS		0.098		0.085		0.085	U	17.800	U	NS		0.153		NS		0.204	
	15-Jan-10	0.106		NS		0.119		NS		0.089		NS		0.098		NS		NS		0.128		0.221		NS	
	21-Apr-10	NS		0.085	U	NS		NS		0.426	U	NS		0.426	U	0.426		NS		0.481		NS		0.579	
	16-Jul-10	0.570		NS		0.911		0.660		NS		0.643	U	NS		NS		NS		0.340		0.864		NS	
	15-Oct-10	NS		0.698		NS		NS		1.120		NS		0.779		0.919		NS		0.877		NS		1.520	
	26-Jan-11	0.851	U	NS		0.162		NS		0.179		NS		0.426	U	NS		NS		0.426		0.617		NS	
	28-Feb-11	NS		NS		0.851	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		0.311		NS		NS		0.302		NS		0.366		0.400		NS		0.753		NS		NS	
	26-Jul-11	0.724		NS		0.779		0.888		NS		0.788	U	NS		NS		NS		1.230		0.681		NS	
	28-Oct-11	NS		2.100	U	NS		NS		2.100	U	NS		2.100	U	2.100	U	NS		2.100	U	NS		2.100	U
	23-Jan-12	0.840		NS		0.430	U	0.430	U	NS		0.430	U	NS		NS		NS		0.460		16.000		NS	
	13-Apr-12	NS		0.430	U	NS		NS		0.430	U	NS		0.430	U	NS	U	NS		0.430	U	NS		0.430	U
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		2.100	U	NS		
23-Jun-12	1.700		NS		1.400		NS		1.900		NS		1.900		NS		NS		2.400		2.600		NS		
1-Nov-12	NS		0.140		NS		NS		NS		0.150		NS		0.460		0.170		0.300		NS		0.340		
1-Feb-13	0.085	U	NS		0.085		NS	U	NS		NS		NS		NS		NS		0.220		NS		NS		
29-Apr-13	NS		0.220		NS		NS		NS		0.270		NS		0.300		0.360		0.530		NS		0.530		
1,1,1,2-Tetrachloroethane	8-Feb-08	0.140	U	NS		NS		NS		0.140	U	NS		NS		NS		0.140	U	0.140		NS		U	
	27-Mar-08	NS		0.137	U	NS		NS		0.137		NS	U	NS		NS		NS		0.137		0.137		U	
	25-Apr-08	NS		NS		0.137	U	NS		NS		NS		0.137	U	NS		NS		0.137		NS		0.137	U
	29-May-08	NS		NS		NS		0.140	U	NS		NS		NS		0.140	U	NS		0.140		NS		0.137	U
	27-Jun-08	0.214	U	NS		NS		NS		0.137	U	NS		NS		NS		NS		0.137		0.137		NS	U
	31-Jul-08	NS		0.137	U	NS		NS		NS		NS		NS		NS		NS		0.137	U	NS		0.137	U
	28-Aug-08	NS		NS		0.137	U	NS		NS		NS		NS		0.137	U	NS		0.137		0.137		NS	U
	30-Sep-08	NS		NS		NS		0.140	U	NS		NS		NS		NS	U	NS		0.140		0.140		NS	U
	27-Oct-08	0.140	U	NS		NS		NS		0.140	U	NS		NS		NS		NS		0.140		NS		0.140	U
	25-Nov-08	NS		0.140	U	NS		NS		NS		0.140	U	NS		NS		NS		0.140	U	NS		0.140	U
	18-Dec-08	NS		NS		0.140	U	NS		NS		NS		0.140	U	NS		NS		0.140	U	NS		0.140	U
	21-Jan-09	NS		NS		NS		0.190		NS		NS		NS		0.140	U	NS		0.140		NS		0.140	U
	25-Feb-09	0.140	U	NS		NS		NS		0.140	U	NS		NS		NS		NS		0.140	U	NS		NS	U
	26-Mar-09	NS		0.686	U	NS		NS		NS		1.370	U	NS		NS		NS		NS		0.137		NS	U
	29-Apr-09	NS		NS		0.137	U	NS		NS		NS		0.137	U	NS		NS		0.137		NS		0.137	U
	22-Jul-09	0.686	U	NS		28.000	U	1.370	U	NS		0.686	U	NS		NS		NS		0.137	U	NS		NS	U
	9-Oct-09	NS		0.137	U	NS		NS		0.137	U	NS		0.137	U	28.600	U	NS		0.137	U	NS		0.137	U
	15-Jan-10	0.109	U	NS		0.137	U	1.370	U	NS		0.137	U	NS		NS		NS		0.137		NS		NS	U
	21-Apr-10	NS		0.137	U	NS		NS		0.686	U	NS		0.686	U	0.686	U	NS		0.137	U	NS		0.137	U
	16-Jul-10	0.137	U	NS		0.137	U	NS	U	NS		1.040	U	NS		NS		NS		0.137	U	NS		NS	U
	15-Oct-10	NS		0.137	U	NS		NS		0.137	U	NS		0.137	U	0.137	U	NS		0.137		NS		0.137	U
	26-Jan-11	1.370	U	NS		0.137	U	NS		0.137	U	NS		0.686	U	NS		0.686		0.686	U	NS		NS	U
	28-Feb-11	NS		NS		1.370	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		0.137	U	NS		NS		0.137	U	NS		NS		0.137	U	NS		0.137		NS		NS	U
	26-Jul-11	0.458	U	NS		0.458	U	0.137	U	NS		0.687	U	NS		NS		NS		0.137		0.687		NS	U
	28-Oct-11	NS		6.200	U	NS		NS		6.200	U	NS		6.200	U	6.200	U	NS		6.200	U	NS		6.200	U
	23-Jan-12	1.200	U	NS		1.200	U	NS	U	NS		1.200	U	NS		NS		NS		1.200	U	NS		1.200	U
	13-Apr-12	NS		NS	U	NS		NS		NS		1.200	U	NS		1.200	U	NS		1.200	U	NS		1.200	U
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		6.200	U	NS	U	
23-Jun-12	1.200	U	NS		1.200	U	NS	U	NS		1.200	U	NS		NS		NS		1.200	U	NS		NS	U	
1-Nov-12	NS		0.250	U	NS		NS		0.250	U	NS		NS		0.250	U	NS		0.250	U	NS		0.250	U	
1-Feb-13	0.250	U	NS		0.250	U</																			

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15		MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Tetrachloroethene*	8-Feb-08	0.350		NS		NS		NS		0.140		NS		NS		NS		0.530		5.050		NS	
	27-Mar-08	NS		0.888		NS		NS		NS	U	0.875		NS		NS		NS		6.990		5.250	
	25-Apr-08	NS		NS		0.322		NS		NS		NS		0.990		NS		NS		0.830		NS	
	29-May-08	NS		NS		NS		1.360		NS		NS		NS		0.240		0.300		3.210		NS	
	27-Jun-08	1.320		NS		NS		NS		29.600		NS		NS		NS		NS		5.080		1.800	
	31-Jul-08	NS		0.667		NS		NS		NS		NS		NS		NS		0.618		NS		0.572	
	28-Aug-08	NS		NS		1.550		NS		NS		NS		NS		1.520		NS		6.260		NS	
	30-Sep-08	NS		NS		NS		3.400		NS		NS		NS		NS		NS		6.100		3.400	
	27-Oct-08	4.200	U	NS		NS		NS		10.000		NS		NS		NS		4.200		NS		4.200	
	25-Nov-08	NS		21.300		NS		NS		NS		4.600		NS		NS		NS		8.900		NS	
	18-Dec-08	NS		NS		3.400	U	NS		NS		NS		NS		3.400		NS		NS		3.400	
	21-Jan-09	NS		NS		NS		3.400	U	NS		NS		NS		NS		NS		NS		3.400	
	25-Feb-09	3.400	U	NS		NS		NS		8.300		NS		NS		NS		NS		NS		NS	
	26-Mar-09	NS		1.280		NS		NS		NS		1.360		NS	U	NS		NS		NS		3.700	
	29-Apr-09	NS		NS		0.271		NS		NS		NS		NS		0.305		NS		0.237		NS	
	22-Jul-09	1.630		NS		1.630		2.100		NS		3.080		NS		NS		NS		11.800		3.250	
	9-Oct-09	NS		0.556		NS		NS		2.070		NS		NS		0.678		28.300	U	1.170		NS	
	15-Jan-10	1.310		NS		0.644		1.350		NS		0.691		NS		NS		NS		0.447		0.501	
	21-Apr-10	NS		7.200		NS		NS		31.400		NS		NS		35.500		36.800		62.100		NS	
	16-Jul-10	12.400		NS		12.700		10.900		NS		10.000		NS		NS		NS		15.400		19.200	
	15-Oct-10	NS		21.900		NS		NS		37.600		NS		NS		21.300		21.800		22.100		NS	
	26-Jan-11	1.360	U	0.691		NS		1.270		NS		0.678		NS	U	0.813		NS		2.130		8.300	
	28-Feb-11	NS		NS		1.360		NS	U	NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		1.440		NS		NS		7.220		NS		NS		1.530		1.560		1.460		NS	
	26-Jul-11	3.340		NS		0.834		2.590		NS		9.290		NS		NS		NS		0.976		6.780	
	28-Oct-11	NS		3.400		NS		NS		8.500		NS		NS		3.400		NS		NS	U	NS	
	23-Jan-12	1.000		NS	U	0.680		1.700		NS		5.300		NS		NS		NS		0.760		26.000	
	13-Apr-12	NS		19.000		NS		NS		18.000		NS		NS		18.000		NS		18.000		NS	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		9.600	
23-Jun-12	1.500		NS		0.680		3.500		NS		0.800		NS		NS		NS		0.680	U	8.900		
1-Nov-12	NS		7.400		NS		NS		11.000		NS		NS		0.780		0.570		1.300		NS		
1-Feb-13	1.800		NS		0.760		0.990		NS		4.500		NS		NS		NS		1.800		7.700		
29-Apr-13	NS		8.100		NS		NS		4.700		NS		NS		1.100		1.000		1.300		NS		
Toluene	8-Feb-08	1.630		NS		NS		NS		1.800		NS		NS		NS		2.720		455.000		NS	
	27-Mar-08	NS		2.240		NS		NS		1.450		NS		NS		NS		NS		11.300		16.100	
	25-Apr-08	NS		NS		1.390		NS		NS		NS		1.340		NS		NS		11.200		21.800	
	29-May-08	NS		NS		NS		7.740		NS		NS		NS		11.600		NS		21.000		NS	
	27-Jun-08	14.700		NS		NS		NS		2.330		NS		NS		NS		NS		NS		10.600	
	31-Jul-08	NS		4.150		NS		NS		NS		NS		NS		NS		NS		10.200		6.110	
	28-Aug-08	NS		NS		6.480		NS		NS		NS		NS		3.440		NS		10.000		NS	
	30-Sep-08	NS		NS		NS		1.900		NS	U	NS		NS		6.100		NS		7.500		8.600	
	27-Oct-08	56.300		NS		NS		NS		3.200		NS		NS		NS		NS		6.600		NS	
	25-Nov-08	NS		7.800		NS		NS		NS		7.800		NS		NS		NS		29.900		18.600	
	18-Dec-08	NS		NS		2.000		NS		NS		NS		NS		1.900		NS		NS		4.800	
	21-Jan-09	NS		NS		NS		1.900		NS	U	NS		NS		1.900		NS	U	1.900		NS	
	25-Feb-09	7.000		NS		NS		NS		1.900		NS		NS		NS		NS		NS	U	13.800	
	26-Mar-09	NS		3.530		NS		NS		NS		3.920		NS		NS		NS		NS		7.230	
	29-Apr-09	NS		NS		1.990		NS		NS		NS		NS		0.651		NS		0.149		NS	
	22-Jul-09	38.700		NS		38.700		2.220		NS		4.710		NS		NS		NS		80.100		5.320	
	9-Oct-09	NS		3.530		NS		NS		3.060		NS		NS		1.070		23.600		3.120		NS	
	15-Jan-10	12.800		NS		4.170		4.330		NS		5.810		NS		NS		NS		4.810		NS	
	21-Apr-10	NS		0.900		NS		NS		2.970		NS		NS		3.750		5.200		2.840		NS	
	16-Jul-10	22.200		NS		17.900		5.980		NS		5.540		NS		NS		NS		5.770		NS	
	15-Oct-10	NS		1.670		NS		NS		2.100		NS		NS		1.720		3.370		2.230		NS	
	26-Jan-11	6.060		6.820		NS		6.820		NS		4.740		NS		5.950		NS		12.100		11.900	
	28-Feb-11	NS		NS		1.880		NS		NS		NS		NS		NS		NS		NS		NS	
	27-Apr-11	NS		0.836		NS		NS		0.682		NS		NS		1.250		3.620		2.080		NS	
	26-Jul-11	8.290		NS		3.960		1.150		NS		1.620		NS		NS		NS		2.310		1.680	
	28-Oct-11	NS		1.900		NS	U	NS		1.900		NS	U	NS		1.900		3.300		4.700		NS	
	23-Jan-12	7.900		NS		3.800		1.900		NS		3.400		NS		NS		NS		5.200		15.000	
	13-Apr-12	NS		0.750		NS		NS		0.380		NS	U	NS		0.380		1.300		2.400		NS	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
23-Jun-12	8.500		NS		3.500		1.500		NS		2.500		NS		NS		NS		2.400		1.900	U	
1-Nov-12	NS		2.000		NS		NS		1.700		NS		NS		2.300		2.800		2.800		NS		
1-Feb-13	2.400		NS		0.690		0.690		NS		0.710		NS		NS		NS		1.400		NS		
29-Apr-13	NS		1.700		NS		NS		1.300		NS		NS		1.700		2.100		3.100		NS		
1,1,1-Trichloroethane*	8-Feb-08	0.110	U	NS		NS		NS		0.110	U	NS		NS		NS		0.110	U	0.560		NS	
	27-Mar-08	NS		0.109	U	NS		NS		0.109		NS		NS		NS		NS		0.522		0.266	
	25-Apr-08	NS		NS		0.109	U	NS		NS		NS		0.109	U	NS		NS		NS		0.119	
	29-May-08	NS		NS		NS		0.120		NS		NS		NS		0.110		NS		0.540		NS	
	27-Jun-08	0.170	U	NS		NS		NS		0.458		NS		NS		NS		NS		NS		0.377	
	31-Jul-08	NS																					

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
 February 2008 - February 2013

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual	
1,1,2-Trichloroethane	8-Feb-08	0.110	U	NS		NS		NS		0.110		NS		NS		NS		0.110		0.110		NS		
	27-Mar-08	NS		0.109	U	NS		NS		NS		0.109	U	NS		NS		NS		0.109	U	0.109	U	
	25-Apr-08	NS		NS		0.109	U	NS		NS		NS		0.109	U	NS		0.109		NS		0.109	U	
	29-May-08	NS		NS		NS		0.110	U	NS		NS		NS		0.110	U	0.110		NS		0.110	U	
	27-Jun-08	0.170	U	NS		NS		NS		0.109	U	NS		NS		NS		NS		0.109	U	0.109	U	
	31-Jul-08	NS		0.109	U	NS		NS		NS		NS		NS		NS		0.109	U	NS		0.109	U	
	28-Aug-08	NS		NS		0.109	U	NS		NS		NS		0.109	U	NS		0.109		NS		0.109	U	
	30-Sep-08	NS		NS		NS		0.110	U	NS		NS		NS		0.110	U	NS		0.110	U	0.110	U	
	27-Oct-08	0.110	U	NS		NS		NS		0.110	U	NS		NS		NS		0.110	U	NS		0.110	U	
	25-Nov-08	NS		0.110	U	NS		NS		0.110	U	NS		NS		NS		0.110	U	NS		0.110	U	
	18-Dec-08	NS		NS		0.110	U	NS		NS		NS		0.110	U	NS		NS		0.110	U	0.110	U	
	21-Jan-09	NS		NS		NS		0.110	U	NS		NS		NS		0.110	U	0.110	U	NS		0.110	U	
	25-Feb-09	0.110	U	NS		NS		NS		0.110	U	NS		NS		NS		0.110	U	0.110	U	NS	U	
	26-Mar-09	NS		0.545	U	NS		NS		NS		1.090	U	NS		NS		NS		0.109	U	0.109	U	
	29-Apr-09	NS		NS		0.109	U	NS		NS		NS		0.109	U	NS		0.109		NS		0.109	U	
	22-Jul-09	0.545	U	NS		22.200	U	1.090	U	NS		0.545	U	NS		NS		0.109	U	0.109		0.109	U	
	9-Oct-09	NS		0.109	U	NS		NS		0.109	U	NS		0.109	U	22.800	U	0.109	U	NS		0.109	U	
	15-Jan-10	0.109	U	NS		0.109	U	0.090	U	NS		0.081	U	NS		NS		0.109	U	0.109		NS	U	
	21-Apr-10	NS		0.109	U	NS		NS		0.545	U	NS		0.545	U	0.545	U	0.109	U	NS		0.109	U	
	16-Jul-10	0.109	U	NS		0.109	U	0.109	U	NS		0.824	U	NS		1.090	U	0.109	U	0.109		NS	U	
	15-Oct-10	NS		0.109	U	NS		NS		0.109	U	NS		0.109	U	0.109	U	0.109	U	NS		NS	U	
	26-Jan-11	1.090	U	NS		0.109	U	NS		0.109	U	NS		0.545	U	NS		0.547	U	0.545		NS	U	
	28-Feb-11	NS		NS		1.090	U	NS		NS		NS		NS		NS		NS		NS		NS	U	
	27-Apr-11	NS		0.109	U	NS		0.109	U	NS		0.109	U	NS		0.109	U	0.109	U	0.109		NS	U	
	26-Jul-11	0.364	U	NS		0.364	U	0.109	U	NS		0.546	U	NS		NS		0.109	U	0.546		NS	U	
	28-Oct-11	NS		NS		2.700	U	NS		2.700	U	NS		2.700	U	2.700	U	2.700	U	NS		2.700	U	
	23-Jan-12	0.550	U	NS		0.550	U	0.550	U	NS		0.550	U	NS		NS		0.550	U	4.200		NS	U	
	13-Apr-12	NS		0.270	U	NS		NS		0.270	U	NS		0.270	U	0.270	U	0.270	U	NS		0.270	U	
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		1.400		NS	U	
	23-Jun-12	0.550	U	NS		0.550	U	0.550	U	NS		0.500	U	NS		NS		0.550	U	0.550		NS	U	
	1-Nov-12	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055	U	0.055	U	NS		NS	U	
1-Feb-13	0.055	U	NS		0.055	U	NS		0.055	U	NS		0.055	U	NS		0.055	U	NS		NS	U		
29-Apr-13	NS		0.140	U	NS		NS		0.055	U	NS		0.055	U	0.055	U	0.055	U	NS		NS	U		
Trichloroethene*	8-Feb-08	0.120		NS		NS		NS		0.110	U	NS		NS		NS		0.200		19.600		NS		
	27-Mar-08	NS		0.107	U	NS		NS		0.152		NS		NS		NS		NS		13.400		5.340		
	25-Apr-08	NS		NS		0.199		NS		NS		1.350		NS		NS		0.668		NS		3.390		
	29-May-08	NS		NS		NS		26.500		NS		NS		0.150		NS		0.370		13.600		NS		
	27-Jun-08	0.408		NS		NS		NS		258.000		NS		NS		NS		NS		13.600		6.560		
	31-Jul-08	NS		1.240		NS		NS		NS		NS		NS		NS		0.126		NS		3.260		
	28-Aug-08	NS		NS		0.558		NS		NS		3.560		NS		NS		0.432		18.400		NS		
	30-Sep-08	NS		NS		NS		56.200		NS		NS		0.800	U	NS		22.700		NS		3.950		
	27-Oct-08	0.800	U	NS		NS		NS		117.000		NS		NS		NS		2.990		NS		0.800		U
	25-Nov-08	NS		2.920		NS		NS		1.890		NS		NS		NS		0.540	U	39.800		NS		
	18-Dec-08	NS		NS		0.540	U	NS		NS		0.540	U	NS		NS		NS		4.560		2.480		
	21-Jan-09	NS		NS		NS		19.600		NS		NS		0.540	U	NS		0.540	U	NS		4.990		
	25-Feb-09	0.440		NS		NS		NS		99.500		NS		NS		NS		0.560		10.700		NS		
	26-Mar-09	NS		9.200		NS		NS		3.880		NS		NS		NS		NS		25.100		5.490		
	29-Apr-09	NS		NS		0.220		NS		NS		1.200		NS		NS		0.392		NS		2.960		
	22-Jul-09	0.537	U	NS		0.537	U	12.700		NS		3.190		NS		NS		0.354		10.300		NS		
	9-Oct-09	NS		0.091	U	NS		NS		26.000		NS		1.240		22.400	U	0.182		NS		3.260		
	15-Jan-10	0.591		NS		0.242		17.700		NS		0.172		NS		NS		0.107	U	18.500		NS		
	21-Apr-10	NS		0.107	U	NS		NS		34.000		NS		0.940		0.537	U	0.891		NS		2.010		
	16-Jul-10	0.333		NS		0.333		8.140		NS		0.811	U	NS		NS		0.107		27.800		NS		
	15-Oct-10	NS		2.260		NS		NS		129.000		NS		1.920		0.177		0.317		NS		1.300		
	26-Jan-11	1.070	U	NS		NS		9.940		NS		0.537	U	NS		0.617		1.230		27.100		NS		
	28-Feb-11	NS		NS		1.070	U	NS		NS		NS		NS		NS		NS		NS		NS		
	27-Apr-11	NS		0.231		NS		NS		78.100		NS		0.891		0.107	U	0.107	U	NS		1.560		
	26-Jul-11	1.180		NS		0.358	U	29.600		NS		10.500		NS		NS		0.247		20.500		NS		
	28-Oct-11	NS		2.700	U	NS		NS		110.000		NS		2.700	U	2.700	U	2.700	U	NS		2.700	U	
	23-Jan-12	0.880		NS		0.540	U	6.800		NS		7.800		NS		NS		0.540	U	44.000		NS		
	13-Apr-12	NS		0.270	U	NS		NS		83.000		NS		1.500		0.270	U	0.270	U	NS		4.100		
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		32.000		NS		
	23-Jun-12	1.100		NS		0.540	U	92.000		NS		0.750		NS		NS		0.540	U	35.000		NS		
	1-Nov-12	NS		2.400		NS		NS		92.000		NS		1.900		0.320		0.280		NS		6.900		
1-Feb-13	0.850		NS		0.064		21.000		NS		5.600		NS		NS		0.077		20.000		NS			
29-Apr-13	NS		1.700		NS		NS		46.000		NS		0.840											

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15		MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual	
1,2,4-Trimethylbenzene	8-Feb-08	0.210		NS		NS		NS		0.230		NS		NS		NS		0.690		1.930		NS		NS
	27-Mar-08	NS		0.304		NS		NS		NS		0.152		NS		NS		NS		0.958		0.681		NS
	25-Apr-08	NS		NS		NS		NS		NS		NS		0.644		NS		0.517		NS		0.338		NS
	29-May-08	NS		NS		1.720		NS		NS		NS		NS		NS		1.260		0.480		NS		NS
	27-Jun-08	7.460		NS		NS		0.600		NS		NS		NS		1.000		NS		0.638		0.736		NS
	31-Jul-08	NS		1.860		NS		NS		NS		NS		NS		NS		NS		0.885		NS		0.685
	28-Aug-08	NS		NS		0.838		NS		NS		NS		NS		NS		0.669		0.653		NS		NS
	30-Sep-08	NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		2.500		U
	27-Oct-08	11.400		NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		2.900		NS
	25-Nov-08	NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		6.400		5.200		NS		NS
	18-Dec-08	NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		2.500	U	2.500		U
	21-Jan-09	NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		2.500		U
	25-Feb-09	17.500		NS		NS		NS		4.000		NS		NS		NS		6.200		2.900		NS		NS
	26-Mar-09	NS		0.491	U	NS		NS		0.982	U	NS		NS		NS		NS		1.090		1.550		NS
	29-Apr-09	NS		NS		0.265		NS		NS		0.378		NS		NS		0.707		NS		0.801		NS
	22-Jul-09	3.490		NS		20.000	U	0.982	U	NS		0.737		NS		NS		56.400		0.860		NS		NS
	9-Oct-09	NS		0.707		NS		NS		0.781		NS		0.648		20.500	U	1.360		NS		0.584		NS
	15-Jan-10	2.870		NS		0.354		0.290		NS		0.314		NS		NS		1.060		1.170		NS		NS
	21-Apr-10	NS		0.211		NS		NS		0.933		NS		1.420		1.130		0.653		NS		0.702		NS
	16-Jul-10	8.300		NS		8.230		8.090		NS		6.270		NS		NS		4.280		5.050		NS		NS
	15-Oct-10	NS		1.290		NS		NS		1.610		NS		1.100		1.380		1.860		NS		2.350		NS
	26-Jan-11	1.230		NS		1.400		1.600		NS		0.491	U	NS		1.350		6.930		10.400		NS		NS
	28-Feb-11	NS		NS		0.982	U	NS		NS		NS		NS		NS		NS		NS		NS		NS
	27-Apr-11	NS		0.845		NS		NS		0.855		NS		1.240		1.060		2.060		NS		1.090		NS
	26-Jul-11	1.290		NS		2.670		0.610		NS		0.541		NS		NS		2.480		0.541		NS		NS
	28-Oct-11	NS		2.500	U	NS		NS		2.500	U	NS		2.500	U	2.500	U	3.700		NS		3.100		NS
	23-Jan-12	3.000		NS		0.760		0.490		NS	U	0.710		NS		NS		2.700		2.800		NS		NS
	13-Apr-12	NS		0.490	U	NS		NS		0.490	U	NS		0.490	U	1.100		3.900		NS		1.300		NS
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		2.500	U	NS		NS	
23-Jun-12	4.100		NS		1.300		1.200		NS		1.100		NS		NS		2.100		NS		NS		NS	
1-Nov-12	NS		1.700		NS		NS		2.500		NS		3.100		3.000		3.200		NS		3.300		NS	
1-Feb-13	1.200		NS		0.230		0.210		NS		0.300		NS		NS		1.000		0.860		NS		NS	
29-Apr-13	NS		0.540		NS		NS		0.740		NS		0.660		0.830		1.000		NS		0.840		NS	
1,3,5-Trimethylbenzene	8-Feb-08	0.100	U	NS		NS		NS		0.100	U	NS		NS		NS		0.470		0.660		NS		NS
	27-Mar-08	NS		0.140		NS		NS		0.098	U	NS		NS		NS		NS		0.349		0.275		NS
	25-Apr-08	NS		NS		1.600		NS		NS		0.228		NS		NS		0.192		NS		0.134		NS
	29-May-08	NS		NS		NS		0.180		NS		NS		NS		0.320		0.430		0.150		NS		NS
	27-Jun-08	5.160		NS		NS		NS		0.463		NS		NS		NS		NS		0.236		0.250		NS
	31-Jul-08	NS		0.713		NS		NS		NS		NS		NS		NS		0.276		NS		0.224		NS
	28-Aug-08	NS		NS		0.497		NS		NS		NS		0.215		NS		0.248		0.233		NS		NS
	30-Sep-08	NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		2.500		2.500		U
	27-Oct-08	7.800		NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		2.500		U
	25-Nov-08	NS		2.500	U	NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		U
	18-Dec-08	NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		NS		2.500		U
	21-Jan-09	NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		2.500		U
	25-Feb-09	9.100		NS		NS		NS		2.500	U	NS		NS		NS		2.500	U	NS		NS		U
	26-Mar-09	NS		0.491	U	NS		NS		NS		0.982	U	NS		NS		NS		0.337		0.425		NS
	29-Apr-09	NS		NS		0.147		NS		NS		NS		0.128		NS		0.211		NS		0.241		NS
	22-Jul-09	3.000		NS		20.000	U	0.982	U	NS		0.491	U	NS		NS		22.700		0.275		NS		NS
	9-Oct-09	NS		0.216		NS		NS		0.241		NS		0.187		20.500	U	0.388		NS		0.226		NS
	15-Jan-10	2.150		NS		0.118		0.098	U	NS		0.108		NS		NS		0.290		0.334		NS		NS
	21-Apr-10	NS		0.098	U	NS		NS		0.491	U	NS		0.491	U	0.491		0.177		NS		0.206		NS
	16-Jul-10	2.760		NS		1.880		1.810		NS		1.670		NS		NS		1.080		1.250		NS		NS
	15-Oct-10	NS		0.418		NS		NS		0.383		NS		0.275		0.324		0.545		NS		0.540		NS
	26-Jan-11	0.982	U	NS		0.437		NS		0.472		NS		0.491	U	NS		1.990		2.870		NS		NS
	28-Feb-11	NS		NS		0.982	U	NS		NS		NS		NS		NS		NS		NS		NS		NS
	27-Apr-11	NS		0.255		NS		NS		0.270		NS		0.368		0.329		0.599		NS		0.354		NS
	26-Jul-11	0.688		NS		0.885		0.182		NS		0.492	U	NS		NS		0.664		0.492		NS		NS
	28-Oct-11	NS		2.500	U	NS		NS		2.500	U	NS		2.500	U	2.500	U	2.500	U	NS		2.500		U
	23-Jan-12	0.990		NS		0.490		0.490		NS	U	0.490	U	NS		NS		0.710		0.830		NS		NS
	13-Apr-12	NS		0.490	U	NS		NS		0.490	U	NS		0.490	U	0.490	U	1.100		NS		0.490		U
2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		2.500	U	NS		NS	
23-Jun-12	1.600		NS		0.490		0.490	U	NS		0.490	U	NS		NS		0.490		0.490		NS		NS	
1-Nov-12	NS		0.250		NS		NS		0.390		NS		0.530		0.500		0.560		NS		0.630		NS	
1-Feb-13	0.420		NS		0.098	U	NS		0.098	U	NS		NS		NS		0.300		0.240		NS		NS	
29-Apr-13	NS		0.250	U	NS		NS		NS		0.220		NS		0.220		0.300		NS		0.270		NS	
Vinyl chloride*	8-Feb-08	0.050	U	NS		NS		NS		0.050	U	NS		NS		NS		0.050	U	0.050	U	NS		U
	27-Mar-08	NS		0.05																				

Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds
February 2008 - February 2013

Volatile Organic Compounds via TO-15		MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual	
p/m-Xylene	8-Feb-08	0.550		NS		NS		NS		0.630		NS		NS		NS		1.040		18.300		NS		
	27-Mar-08	NS		0.893		NS		NS		NS		0.389		NS		NS		NS		2.170		1.330		
	25-Apr-08	NS		NS		0.815		NS		NS		NS		0.970		NS		NS		2.540		NS		1.810
	29-May-08	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS
	27-Jun-08	12.600		NS		NS		NS		1.500		NS		NS		NS		NS		10.100		3.340		2.330
	31-Jul-08	NS		2.400		NS		NS		NS		NS		NS		NS		NS		2.080		NS		1.550
	28-Aug-08	NS		NS		2.330		NS		NS		NS		NS		NS		NS		NS		NS		NS
	30-Sep-08	NS		NS		NS		4.300	U	NS		NS		NS		NS		NS		2.130		NS		NS
	27-Oct-08	41.600		NS		NS		NS		4.300	U	NS		NS		NS		NS		NS		NS		NS
	25-Nov-08	NS		4.700		NS		NS		NS		4.300	U	NS		NS		NS		NS		NS		NS
	18-Dec-08	NS		NS		4.300	U	NS		NS		NS		4.300	U	NS		NS		NS		NS		NS
	21-Jan-09	NS		NS		NS		4.300	U	NS		NS		NS		NS		NS		NS		NS		NS
	25-Feb-09	37.600		NS		NS		NS		4.300	U	NS		NS		NS		NS		NS		NS		NS
	26-Mar-09	NS		1.350		NS		NS		NS		1.740	U	NS		NS		NS		NS		NS		NS
	29-Apr-09	NS		NS		0.468		NS		NS		NS		0.516		NS		NS		NS		NS		NS
	22-Jul-09	25.600		NS		25.600		1.740	U	NS		3.880		NS		NS		NS		NS		NS		NS
	9-Oct-09	NS		1.620		NS		NS		1.630		NS		0.915		NS		NS		NS		NS		NS
	15-Jan-10	18.400		NS		1.520		1.480		NS		1.760		NS		NS		NS		NS		NS		NS
	21-Apr-10	NS		0.703		NS		NS		3.280		NS		4.580		NS		NS		NS		NS		NS
	16-Jul-10	21.800		NS		7.010		6.360		NS		4.820		NS		NS		NS		NS		NS		NS
	15-Oct-10	NS		1.810		NS		NS		2.180		NS		1.700		NS		NS		NS		NS		NS
	26-Jan-11	3.080		NS		NS		4.370		NS		3.060		NS		NS		NS		NS		NS		NS
	28-Feb-11	NS		NS		1.740		NS	U	NS		NS		NS		NS		NS		NS		NS		NS
	27-Apr-11	NS		0.694		NS		NS		0.707		NS		0.889		NS		NS		NS		NS		NS
	26-Jul-11	9.990		NS		3.960		1.020		NS		0.999		NS		NS		NS		NS		NS		NS
	28-Oct-11	NS		4.300		NS		NS		4.300	U	NS		4.300	U	NS		NS		NS		NS		NS
	23-Jan-12	7.900		NS		2.000		1.300		NS		2.000		NS		NS		NS		NS		NS		NS
	13-Apr-12	NS		0.870		NS		NS		0.870	U	NS		0.870	U	NS		NS		NS		NS		NS
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS
	23-Jun-12	12.000		NS		1.100		0.870		NS	U	NS		0.940		NS		NS		NS		NS		NS
1-Nov-12	NS		2.100		NS		NS		2.400		NS		3.300		NS		NS		NS		NS		NS	
1-Feb-13	3.400		NS		0.440		0.380		NS		0.590		NS		NS		NS		NS		NS		NS	
29-Apr-13	NS		1.000		NS		NS		NS		1.200		NS		NS		NS		NS		NS		NS	
o-Xylene	8-Feb-08	0.200		NS		NS		NS		0.230		NS		NS		NS		0.480		7.730		NS		
	27-Mar-08	NS		0.273		NS		NS		NS		0.142		NS		NS		NS		NS		0.844		0.478
	25-Apr-08	NS		NS		0.370		NS		NS		NS		0.406		NS		NS		NS		NS		0.620
	29-May-08	NS		NS		NS		1.480		NS		NS		NS		NS		NS		2.840		1.020		NS
	27-Jun-08	4.120		NS		NS		NS		0.550		NS		NS		NS		NS		NS		NS		0.794
	31-Jul-08	NS		0.835		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.564
	28-Aug-08	NS		NS		0.804		NS		NS		NS		NS		NS		NS		NS		NS		NS
	30-Sep-08	NS		NS		NS		2.200	U	NS		NS		NS		NS		NS		NS		NS		NS
	27-Oct-08	9.800		NS		NS		NS		2.200	U	NS		NS		NS		NS		NS		NS		NS
	25-Nov-08	NS		2.200		NS		NS		NS		2.200	U	NS		NS		NS		NS		NS		NS
	18-Dec-08	NS		NS		2.200	U	NS		NS		NS		2.200	U	NS		NS		NS		NS		NS
	21-Jan-09	NS		NS		NS		2.200	U	NS		NS		NS		NS		NS		NS		NS		NS
	25-Feb-09	8.900		NS		NS		NS		2.200	U	NS		NS		NS		NS		NS		NS		NS
	26-Mar-09	NS		0.486		NS		NS		NS		0.868	U	NS		NS		NS		NS		NS		NS
	29-Apr-09	NS		NS		0.174		NS		NS		NS		0.208		NS		NS		NS		NS		NS
	22-Jul-09	5.340		NS		5.340		0.868	U	NS		1.390		NS		NS		NS		NS		NS		NS
	9-Oct-09	NS		0.542		NS		NS		0.586		NS		0.343		NS		NS		NS		NS		NS
	15-Jan-10	4.510		NS		0.490		NS		NS		0.560		NS		NS		NS		NS		NS		NS
	21-Apr-10	NS		0.256		NS		NS		1.170		NS		1.560		NS		NS		NS		NS		NS
	16-Jul-10	5.070		NS		2.840		2.630		NS		2.100		NS		NS		NS		NS		NS		NS
	15-Oct-10	NS		0.672		NS		NS		0.837		NS		NS		NS		NS		NS		NS		NS
	26-Jan-11	1.080		NS		NS		1.540		NS		1.110		NS		NS		NS		NS		NS		NS
	28-Feb-11	NS		NS		0.868		NS	U	NS		NS		NS		NS		NS		NS		NS		NS
	27-Apr-11	NS		0.286		NS		NS		0.286		NS		0.369		NS		NS		NS		NS		NS
	26-Jul-11	1.870		NS		1.450		0.334		NS		0.434	U	NS		NS		NS		NS		NS		NS
	28-Oct-11	NS		NS		NS		NS		2.200	U	NS		2.200	U	NS		NS		NS		NS		NS
	23-Jan-12	2.300		NS		0.760		0.540		NS		0.790		NS		NS		NS		NS		NS		NS
	13-Apr-12	NS		0.430		NS		NS		0.430	U	NS		0.430	U	NS		NS		NS		NS		NS
	2-Jul-12 (resample)	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS
	23-Jun-12	3.000		NS		0.430		0.430	U	NS		0.430	U	NS		NS		NS		NS		NS		NS
1-Nov-12	NS		0.720		NS		NS		0.850		NS		1.100		NS		NS		NS		NS		NS	
1-Feb-13	1.000		NS		0.190		0.170		NS		0.240		NS		NS		NS		NS		NS		NS	
29-Apr-13	NS		0.430		NS		NS		NS		0.460		NS		NS		NS		NS		NS		NS	

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 data column.
 NS: not sampled.
 * = Site Specific Compound of Concern per ATSDR Health Consultation, December 4, 2006.

May 9, 2013

Paul Theroux
EA Engineering Science & Tech. - RI
2374 Post Road, Suite 102
Warwick, RI 02886

Project Location: Alvarez High School, Providence, RI
Client Job Number:
Project Number: 14687.01
Laboratory Work Order Number: 13D1164

Enclosed are results of analyses for samples received by the laboratory on April 30, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager



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

EA Engineering Science & Tech. - RI
2374 Post Road, Suite 102
Warwick, RI 02886
ATTN: Paul Theroux

REPORT DATE: 5/9/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 14687.01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13D1164

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

PROJECT LOCATION: Alvarez High School, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP-2	13D1164-01	Sub Slab		EPA TO-15	
MP-5	13D1164-02	Sub Slab		EPA TO-15	
MP-7	13D1164-03	Sub Slab		EPA TO-15	
MP-8	13D1164-04	Sub Slab		EPA TO-15	
1MP-1	13D1164-05	Sub Slab		EPA TO-15	
1MP-3	13D1164-06	Sub Slab		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

Elevated reporting limit due to high concentration of an interfering analyte(s). Requested reporting limit not met.

Analyte & Samples(s) Qualified:

13D1164-01[MP-2]

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Acrylonitrile
B072487-BS1

EPA TO-15

Initial and continuing calibrations met all required performance standards for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative.

Laboratory control sample recoveries and sample replicate RPDs were all within limits specified by the method for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative. Recovery limits of 50-150% are used for propene, acetone, ethanol, isopropanol, ethyl acetate, tetrahydrofuran, cyclohexane, heptane, 2-hexanone, 4-ethyltoluene, n-butylbenzene, sec-butylbenzene, 4-isopropyltoluene, and 1,1,1,2-tetrachloroethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

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



Michael A. Erickson
Laboratory Director

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: MP-2
Sample ID: 13D1164-01
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1463
 Canister Size: 6 liter
 Flow Controller ID: 4177
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -0.5
 Receipt Vacuum(in Hg): -0.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: RL-10

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	19	2.0		45	4.8	1	5/2/13	5:39	WSD
Acrylonitrile	ND	0.29		ND	0.62	1	5/2/13	5:39	WSD
Benzene	0.13	0.050		0.41	0.16	1	5/2/13	5:39	WSD
Bromodichloromethane	ND	0.025		ND	0.17	1	5/2/13	5:39	WSD
Bromoform	ND	0.050		ND	0.52	1	5/2/13	5:39	WSD
2-Butanone (MEK)	58	2.0		170	5.9	1	5/2/13	5:39	WSD
n-Butylbenzene	ND	0.14		ND	0.79	1	5/2/13	5:39	WSD
sec-Butylbenzene	ND	0.11		ND	0.63	1	5/2/13	5:39	WSD
Carbon Tetrachloride	0.066	0.025		0.42	0.16	1	5/2/13	5:39	WSD
Chlorobenzene	ND	0.025		ND	0.12	1	5/2/13	5:39	WSD
Chloroethane	0.15	0.10		0.40	0.26	1	5/2/13	5:39	WSD
Chloroform	0.030	0.025		0.15	0.12	1	5/2/13	5:39	WSD
Chloromethane	ND	0.10		ND	0.21	1	5/2/13	5:39	WSD
Dibromochloromethane	ND	0.025		ND	0.21	1	5/2/13	5:39	WSD
1,2-Dibromoethane (EDB)	ND	0.025		ND	0.19	1	5/2/13	5:39	WSD
1,2-Dichlorobenzene	ND	0.050		ND	0.30	1	5/2/13	5:39	WSD
1,3-Dichlorobenzene	0.21	0.050		1.3	0.30	1	5/2/13	5:39	WSD
1,4-Dichlorobenzene	ND	0.050		ND	0.30	1	5/2/13	5:39	WSD
Dichlorodifluoromethane (Freon 12)	0.52	0.050		2.6	0.25	1	5/2/13	5:39	WSD
1,1-Dichloroethane	ND	0.050		ND	0.20	1	5/2/13	5:39	WSD
1,2-Dichloroethane	0.048	0.025		0.19	0.10	1	5/2/13	5:39	WSD
1,1-Dichloroethylene	ND	0.025		ND	0.099	1	5/2/13	5:39	WSD
cis-1,2-Dichloroethylene	ND	0.050		ND	0.20	1	5/2/13	5:39	WSD
trans-1,2-Dichloroethylene	ND	0.025		ND	0.099	1	5/2/13	5:39	WSD
1,2-Dichloropropane	ND	0.025		ND	0.12	1	5/2/13	5:39	WSD
1,3-Dichloropropane	ND	0.14		ND	0.62	1	5/2/13	5:39	WSD
cis-1,3-Dichloropropene	ND	0.025		ND	0.11	1	5/2/13	5:39	WSD
trans-1,3-Dichloropropene	ND	0.025		ND	0.11	1	5/2/13	5:39	WSD
Ethylbenzene	0.077	0.050		0.33	0.22	1	5/2/13	5:39	WSD
Isopropylbenzene (Cumene)	ND	0.13		ND	0.62	1	5/2/13	5:39	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.11		ND	0.63	1	5/2/13	5:39	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.050		ND	0.18	1	5/2/13	5:39	WSD
Methylene Chloride	ND	0.50		ND	1.7	1	5/2/13	5:39	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.050		ND	0.20	1	5/2/13	5:39	WSD
Styrene	0.051	0.050		0.22	0.21	1	5/2/13	5:39	WSD
1,1,1,2-Tetrachloroethane	ND	0.091		ND	0.62	1	5/2/13	5:39	WSD
1,1,2,2-Tetrachloroethane	ND	0.025		ND	0.17	1	5/2/13	5:39	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
 Field Sample #: MP-2
 Sample ID: 13D1164-01
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1463
 Canister Size: 6 liter
 Flow Controller ID: 4177
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -0.5
 Receipt Vacuum(in Hg): -0.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: RL-10

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	1.2	0.050		8.1	0.34	1	5/2/13	5:39	WSD
Toluene	0.45	0.050		1.7	0.19	1	5/2/13	5:39	WSD
1,1,1-Trichloroethane	0.028	0.025		0.15	0.14	1	5/2/13	5:39	WSD
1,1,2-Trichloroethane	ND	0.025		ND	0.14	1	5/2/13	5:39	WSD
Trichloroethylene	0.31	0.025		1.7	0.13	1	5/2/13	5:39	WSD
Trichlorofluoromethane (Freon 11)	0.46	0.050		2.6	0.28	1	5/2/13	5:39	WSD
1,2,4-Trimethylbenzene	0.11	0.050		0.54	0.25	1	5/2/13	5:39	WSD
1,3,5-Trimethylbenzene	ND	0.050		ND	0.25	1	5/2/13	5:39	WSD
Vinyl Chloride	0.16	0.025		0.41	0.064	1	5/2/13	5:39	WSD
m&p-Xylene	0.23	0.10		1.0	0.43	1	5/2/13	5:39	WSD
o-Xylene	0.098	0.050		0.43	0.22	1	5/2/13	5:39	WSD

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	97.8	70-130	5/2/13	5:39
4-Bromofluorobenzene (2)	104	70-130	5/2/13	5:39

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: MP-5
Sample ID: 13D1164-02
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:34

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1296
 Canister Size: 6 liter
 Flow Controller ID: 4073
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	42	0.80		100	1.9	0.4	5/2/13 12:35	WSD	
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13 12:35	WSD	
Benzene	0.12	0.020		0.38	0.064	0.4	5/2/13 12:35	WSD	
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13 12:35	WSD	
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13 12:35	WSD	
2-Butanone (MEK)	37	0.80		110	2.4	0.4	5/2/13 12:35	WSD	
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13 12:35	WSD	
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13 12:35	WSD	
Carbon Tetrachloride	0.070	0.010		0.44	0.063	0.4	5/2/13 12:35	WSD	
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13 12:35	WSD	
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13 12:35	WSD	
Chloroform	0.038	0.010		0.19	0.049	0.4	5/2/13 12:35	WSD	
Chloromethane	ND	0.040		ND	0.083	0.4	5/2/13 12:35	WSD	
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13 12:35	WSD	
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13 12:35	WSD	
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 12:35	WSD	
1,3-Dichlorobenzene	0.75	0.020		4.5	0.12	0.4	5/2/13 12:35	WSD	
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 12:35	WSD	
Dichlorodifluoromethane (Freon 12)	0.47	0.020		2.3	0.099	0.4	5/2/13 12:35	WSD	
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13 12:35	WSD	
1,2-Dichloroethane	0.015	0.010		0.060	0.040	0.4	5/2/13 12:35	WSD	
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 12:35	WSD	
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13 12:35	WSD	
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 12:35	WSD	
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13 12:35	WSD	
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13 12:35	WSD	
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 12:35	WSD	
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 12:35	WSD	
Ethylbenzene	0.090	0.020		0.39	0.087	0.4	5/2/13 12:35	WSD	
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13 12:35	WSD	
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13 12:35	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13 12:35	WSD	
Methylene Chloride	0.42	0.20		1.4	0.69	0.4	5/2/13 12:35	WSD	
4-Methyl-2-pentanone (MIBK)	0.051	0.020		0.21	0.082	0.4	5/2/13 12:35	WSD	
Styrene	0.063	0.020		0.27	0.085	0.4	5/2/13 12:35	WSD	
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13 12:35	WSD	
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13 12:35	WSD	

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
 Field Sample #: MP-5
 Sample ID: 13D1164-02
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:34

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1296
 Canister Size: 6 liter
 Flow Controller ID: 4073
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Tetrachloroethylene	0.69	0.020		4.7	0.14	0.4	5/2/13 12:35	WSD
Toluene	0.34	0.020		1.3	0.075	0.4	5/2/13 12:35	WSD
1,1,1-Trichloroethane	0.014	0.010		0.076	0.055	0.4	5/2/13 12:35	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13 12:35	WSD
Trichloroethylene	8.6	0.010		46	0.054	0.4	5/2/13 12:35	WSD
Trichlorofluoromethane (Freon 11)	1.5	0.020		8.3	0.11	0.4	5/2/13 12:35	WSD
1,2,4-Trimethylbenzene	0.15	0.020		0.74	0.098	0.4	5/2/13 12:35	WSD
1,3,5-Trimethylbenzene	0.045	0.020		0.22	0.098	0.4	5/2/13 12:35	WSD
Vinyl Chloride	0.018	0.010		0.045	0.026	0.4	5/2/13 12:35	WSD
m&p-Xylene	0.28	0.040		1.2	0.17	0.4	5/2/13 12:35	WSD
o-Xylene	0.11	0.020		0.46	0.087	0.4	5/2/13 12:35	WSD

Surrogates	% Recovery	% REC Limits	Date/Time Analyzed
4-Bromofluorobenzene (1)	94.3	70-130	5/2/13 12:35
4-Bromofluorobenzene (2)	101	70-130	5/2/13 12:35

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: MP-7
Sample ID: 13D1164-03
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:29

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1807
 Canister Size: 6 liter
 Flow Controller ID: 4074
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -5.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	29	0.80		68	1.9	0.4	5/2/13 11:35	WSD	
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13 11:35	WSD	
Benzene	0.13	0.020		0.41	0.064	0.4	5/2/13 11:35	WSD	
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13 11:35	WSD	
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13 11:35	WSD	
2-Butanone (MEK)	2.1	0.80		6.1	2.4	0.4	5/2/13 11:35	WSD	
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13 11:35	WSD	
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13 11:35	WSD	
Carbon Tetrachloride	0.067	0.010		0.42	0.063	0.4	5/2/13 11:35	WSD	
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13 11:35	WSD	
Chloroethane	0.041	0.040		0.11	0.11	0.4	5/2/13 11:35	WSD	
Chloroform	0.027	0.010		0.13	0.049	0.4	5/2/13 11:35	WSD	
Chloromethane	ND	0.040		ND	0.083	0.4	5/2/13 11:35	WSD	
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13 11:35	WSD	
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13 11:35	WSD	
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 11:35	WSD	
1,3-Dichlorobenzene	1.1	0.020		6.5	0.12	0.4	5/2/13 11:35	WSD	
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 11:35	WSD	
Dichlorodifluoromethane (Freon 12)	0.44	0.020		2.2	0.099	0.4	5/2/13 11:35	WSD	
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13 11:35	WSD	
1,2-Dichloroethane	ND	0.010		ND	0.040	0.4	5/2/13 11:35	WSD	
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 11:35	WSD	
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13 11:35	WSD	
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 11:35	WSD	
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13 11:35	WSD	
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13 11:35	WSD	
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 11:35	WSD	
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 11:35	WSD	
Ethylbenzene	0.084	0.020		0.37	0.087	0.4	5/2/13 11:35	WSD	
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13 11:35	WSD	
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13 11:35	WSD	
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13 11:35	WSD	
Methylene Chloride	0.27	0.20		0.93	0.69	0.4	5/2/13 11:35	WSD	
4-Methyl-2-pentanone (MIBK)	0.052	0.020		0.21	0.082	0.4	5/2/13 11:35	WSD	
Styrene	0.071	0.020		0.30	0.085	0.4	5/2/13 11:35	WSD	
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13 11:35	WSD	
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13 11:35	WSD	

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
 Field Sample #: MP-7
 Sample ID: 13D1164-03
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:29

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1807
 Canister Size: 6 liter
 Flow Controller ID: 4074
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -5.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.16	0.020		1.1	0.14	0.4	5/2/13	11:35	WSD
Toluene	0.44	0.020		1.7	0.075	0.4	5/2/13	11:35	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	11:35	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	11:35	WSD
Trichloroethylene	0.16	0.010		0.84	0.054	0.4	5/2/13	11:35	WSD
Trichlorofluoromethane (Freon 11)	0.55	0.020		3.1	0.11	0.4	5/2/13	11:35	WSD
1,2,4-Trimethylbenzene	0.13	0.020		0.66	0.098	0.4	5/2/13	11:35	WSD
1,3,5-Trimethylbenzene	0.036	0.020		0.18	0.098	0.4	5/2/13	11:35	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13	11:35	WSD
m&p-Xylene	0.28	0.040		1.2	0.17	0.4	5/2/13	11:35	WSD
o-Xylene	0.094	0.020		0.41	0.087	0.4	5/2/13	11:35	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.1	70-130	5/2/13 11:35
4-Bromofluorobenzene (2)	105	70-130	5/2/13 11:35

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: MP-8
Sample ID: 13D1164-04
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:23

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1810
 Canister Size: 6 liter
 Flow Controller ID: 4075
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -4.5
 Receipt Vacuum(in Hg): -5.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	26	0.80		62	1.9	0.4	5/2/13	8:49	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13	8:49	WSD
Benzene	0.15	0.020		0.47	0.064	0.4	5/2/13	8:49	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13	8:49	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13	8:49	WSD
2-Butanone (MEK)	2.4	0.80		7.0	2.4	0.4	5/2/13	8:49	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13	8:49	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13	8:49	WSD
Carbon Tetrachloride	0.077	0.010		0.48	0.063	0.4	5/2/13	8:49	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13	8:49	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13	8:49	WSD
Chloroform	0.026	0.010		0.13	0.049	0.4	5/2/13	8:49	WSD
Chloromethane	ND	0.040		ND	0.083	0.4	5/2/13	8:49	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13	8:49	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13	8:49	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	8:49	WSD
1,3-Dichlorobenzene	1.0	0.020		6.0	0.12	0.4	5/2/13	8:49	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	8:49	WSD
Dichlorodifluoromethane (Freon 12)	0.45	0.020		2.2	0.099	0.4	5/2/13	8:49	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13	8:49	WSD
1,2-Dichloroethane	0.020	0.010		0.081	0.040	0.4	5/2/13	8:49	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	8:49	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13	8:49	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	8:49	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13	8:49	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13	8:49	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	8:49	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	8:49	WSD
Ethylbenzene	0.11	0.020		0.49	0.087	0.4	5/2/13	8:49	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13	8:49	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13	8:49	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13	8:49	WSD
Methylene Chloride	0.52	0.20		1.8	0.69	0.4	5/2/13	8:49	WSD
4-Methyl-2-pentanone (MIBK)	ND	0.020		ND	0.082	0.4	5/2/13	8:49	WSD
Styrene	0.085	0.020		0.36	0.085	0.4	5/2/13	8:49	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13	8:49	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13	8:49	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: MP-8
Sample ID: 13D1164-04
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 11:23

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1810
 Canister Size: 6 liter
 Flow Controller ID: 4075
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -4.5
 Receipt Vacuum(in Hg): -5.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.15	0.020		1.0	0.14	0.4	5/2/13	8:49	WSD
Toluene	0.56	0.020		2.1	0.075	0.4	5/2/13	8:49	WSD
1,1,1-Trichloroethane	0.011	0.010		0.061	0.055	0.4	5/2/13	8:49	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	8:49	WSD
Trichloroethylene	0.023	0.010		0.12	0.054	0.4	5/2/13	8:49	WSD
Trichlorofluoromethane (Freon 11)	0.27	0.020		1.5	0.11	0.4	5/2/13	8:49	WSD
1,2,4-Trimethylbenzene	0.17	0.020		0.83	0.098	0.4	5/2/13	8:49	WSD
1,3,5-Trimethylbenzene	0.044	0.020		0.22	0.098	0.4	5/2/13	8:49	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13	8:49	WSD
m&p-Xylene	0.34	0.040		1.5	0.17	0.4	5/2/13	8:49	WSD
o-Xylene	0.12	0.020		0.52	0.087	0.4	5/2/13	8:49	WSD

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	92.2	70-130	5/2/13	8:49
4-Bromofluorobenzene (2)	101	70-130	5/2/13	8:49

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: 1MP-1
Sample ID: 13D1164-05
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 09:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1137
 Canister Size: 6 liter
 Flow Controller ID: 4176
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	14	0.80		33	1.9	0.4	5/2/13	9:42	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13	9:42	WSD
Benzene	0.20	0.020		0.63	0.064	0.4	5/2/13	9:42	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13	9:42	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13	9:42	WSD
2-Butanone (MEK)	2.4	0.80		7.2	2.4	0.4	5/2/13	9:42	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13	9:42	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13	9:42	WSD
Carbon Tetrachloride	0.076	0.010		0.48	0.063	0.4	5/2/13	9:42	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13	9:42	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13	9:42	WSD
Chloroform	0.032	0.010		0.16	0.049	0.4	5/2/13	9:42	WSD
Chloromethane	0.35	0.040		0.73	0.083	0.4	5/2/13	9:42	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13	9:42	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13	9:42	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	9:42	WSD
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	9:42	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13	9:42	WSD
Dichlorodifluoromethane (Freon 12)	0.46	0.020		2.3	0.099	0.4	5/2/13	9:42	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13	9:42	WSD
1,2-Dichloroethane	0.020	0.010		0.079	0.040	0.4	5/2/13	9:42	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	9:42	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13	9:42	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13	9:42	WSD
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	5/2/13	9:42	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13	9:42	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	9:42	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13	9:42	WSD
Ethylbenzene	0.14	0.020		0.63	0.087	0.4	5/2/13	9:42	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13	9:42	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13	9:42	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13	9:42	WSD
Methylene Chloride	0.30	0.20		1.1	0.69	0.4	5/2/13	9:42	WSD
4-Methyl-2-pentanone (MIBK)	0.21	0.020		0.86	0.082	0.4	5/2/13	9:42	WSD
Styrene	0.13	0.020		0.53	0.085	0.4	5/2/13	9:42	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13	9:42	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13	9:42	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: 1MP-1
Sample ID: 13D1164-05
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 09:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1137
 Canister Size: 6 liter
 Flow Controller ID: 4176
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.19	0.020		1.3	0.14	0.4	5/2/13	9:42	WSD
Toluene	0.82	0.020		3.1	0.075	0.4	5/2/13	9:42	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	9:42	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13	9:42	WSD
Trichloroethylene	0.081	0.010		0.44	0.054	0.4	5/2/13	9:42	WSD
Trichlorofluoromethane (Freon 11)	0.29	0.020		1.6	0.11	0.4	5/2/13	9:42	WSD
1,2,4-Trimethylbenzene	0.21	0.020		1.0	0.098	0.4	5/2/13	9:42	WSD
1,3,5-Trimethylbenzene	0.061	0.020		0.30	0.098	0.4	5/2/13	9:42	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13	9:42	WSD
m&p-Xylene	0.43	0.040		1.9	0.17	0.4	5/2/13	9:42	WSD
o-Xylene	0.15	0.020		0.65	0.087	0.4	5/2/13	9:42	WSD

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.4	70-130	5/2/13 9:42
4-Bromofluorobenzene (2)	107	70-130	5/2/13 9:42

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: 1MP-3
Sample ID: 13D1164-06
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 09:45

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1319
 Canister Size: 6 liter
 Flow Controller ID: 4072
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -6.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Acetone	18	0.80		43	1.9	0.4	5/2/13 10:38	WSD
Acrylonitrile	ND	0.12		ND	0.25	0.4	5/2/13 10:38	WSD
Benzene	0.21	0.020		0.67	0.064	0.4	5/2/13 10:38	WSD
Bromodichloromethane	ND	0.010		ND	0.067	0.4	5/2/13 10:38	WSD
Bromoform	ND	0.020		ND	0.21	0.4	5/2/13 10:38	WSD
2-Butanone (MEK)	1.5	0.80		4.5	2.4	0.4	5/2/13 10:38	WSD
n-Butylbenzene	ND	0.058		ND	0.32	0.4	5/2/13 10:38	WSD
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	5/2/13 10:38	WSD
Carbon Tetrachloride	0.073	0.010		0.46	0.063	0.4	5/2/13 10:38	WSD
Chlorobenzene	ND	0.010		ND	0.046	0.4	5/2/13 10:38	WSD
Chloroethane	ND	0.040		ND	0.11	0.4	5/2/13 10:38	WSD
Chloroform	0.083	0.010		0.41	0.049	0.4	5/2/13 10:38	WSD
Chloromethane	0.56	0.040		1.2	0.083	0.4	5/2/13 10:38	WSD
Dibromochloromethane	ND	0.010		ND	0.085	0.4	5/2/13 10:38	WSD
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	5/2/13 10:38	WSD
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 10:38	WSD
1,3-Dichlorobenzene	0.023	0.020		0.14	0.12	0.4	5/2/13 10:38	WSD
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	5/2/13 10:38	WSD
Dichlorodifluoromethane (Freon 12)	0.46	0.020		2.3	0.099	0.4	5/2/13 10:38	WSD
1,1-Dichloroethane	ND	0.020		ND	0.081	0.4	5/2/13 10:38	WSD
1,2-Dichloroethane	0.023	0.010		0.094	0.040	0.4	5/2/13 10:38	WSD
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 10:38	WSD
cis-1,2-Dichloroethylene	ND	0.020		ND	0.079	0.4	5/2/13 10:38	WSD
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	5/2/13 10:38	WSD
1,2-Dichloropropane	0.021	0.010		0.098	0.046	0.4	5/2/13 10:38	WSD
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	5/2/13 10:38	WSD
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 10:38	WSD
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	5/2/13 10:38	WSD
Ethylbenzene	0.18	0.020		0.80	0.087	0.4	5/2/13 10:38	WSD
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	5/2/13 10:38	WSD
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	5/2/13 10:38	WSD
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	5/2/13 10:38	WSD
Methylene Chloride	0.39	0.20		1.4	0.69	0.4	5/2/13 10:38	WSD
4-Methyl-2-pentanone (MIBK)	0.19	0.020		0.78	0.082	0.4	5/2/13 10:38	WSD
Styrene	0.12	0.020		0.53	0.085	0.4	5/2/13 10:38	WSD
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	5/2/13 10:38	WSD
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	5/2/13 10:38	WSD

ANALYTICAL RESULTS

Project Location: Alvarez High School, Providence
 Date Received: 4/30/2013
Field Sample #: 1MP-3
Sample ID: 13D1164-06
 Sample Matrix: Sub Slab
 Sampled: 4/29/2013 09:45

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1319
 Canister Size: 6 liter
 Flow Controller ID: 4072
 Sample Type: 30 min

Work Order: 13D1164
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -6.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Tetrachloroethylene	0.27	0.020		1.8	0.14	0.4	5/2/13 10:38	WSD
Toluene	1.0	0.020		3.9	0.075	0.4	5/2/13 10:38	WSD
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13 10:38	WSD
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	5/2/13 10:38	WSD
Trichloroethylene	0.36	0.010		1.9	0.054	0.4	5/2/13 10:38	WSD
Trichlorofluoromethane (Freon 11)	0.47	0.020		2.7	0.11	0.4	5/2/13 10:38	WSD
1,2,4-Trimethylbenzene	0.17	0.020		0.84	0.098	0.4	5/2/13 10:38	WSD
1,3,5-Trimethylbenzene	0.054	0.020		0.27	0.098	0.4	5/2/13 10:38	WSD
Vinyl Chloride	ND	0.010		ND	0.026	0.4	5/2/13 10:38	WSD
m&p-Xylene	0.56	0.040		2.4	0.17	0.4	5/2/13 10:38	WSD
o-Xylene	0.20	0.020		0.86	0.087	0.4	5/2/13 10:38	WSD

Surrogates	% Recovery	% REC Limits	Date/Time Analyzed
4-Bromofluorobenzene (1)	96.1	70-130	5/2/13 10:38
4-Bromofluorobenzene (2)	106	70-130	5/2/13 10:38

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
13D1164-01 [MP-2]	B072487	1	1	N/A	1000	400	400	05/01/13
13D1164-02 [MP-5]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1164-03 [MP-7]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1164-04 [MP-8]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1164-05 [1MP-1]	B072487	1	1	N/A	1000	400	1000	05/01/13
13D1164-06 [1MP-3]	B072487	1	1	N/A	1000	400	1000	05/01/13

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B072487 - TO-15 Prep

Blank (B072487-BLK1)

Prepared & Analyzed: 05/01/13

Acetone	ND	0.80
Acrylonitrile	ND	0.12
Benzene	ND	0.020
Bromodichloromethane	ND	0.010
Bromoform	ND	0.020
2-Butanone (MEK)	ND	0.80
n-Butylbenzene	ND	0.058
sec-Butylbenzene	ND	0.046
Carbon Tetrachloride	ND	0.010
Chlorobenzene	ND	0.010
Chloroethane	ND	0.040
Chloroform	ND	0.010
Chloromethane	ND	0.040
Dibromochloromethane	ND	0.010
1,2-Dibromoethane (EDB)	ND	0.010
1,2-Dichlorobenzene	ND	0.020
1,3-Dichlorobenzene	ND	0.020
1,4-Dichlorobenzene	ND	0.020
Dichlorodifluoromethane (Freon 12)	ND	0.020
1,1-Dichloroethane	ND	0.020
1,2-Dichloroethane	ND	0.010
1,1-Dichloroethylene	ND	0.010
cis-1,2-Dichloroethylene	ND	0.020
trans-1,2-Dichloroethylene	ND	0.010
1,2-Dichloropropane	ND	0.010
1,3-Dichloropropane	ND	0.054
cis-1,3-Dichloropropene	ND	0.010
trans-1,3-Dichloropropene	ND	0.010
Ethylbenzene	ND	0.020
Isopropylbenzene (Cumene)	ND	0.051
p-Isopropyltoluene (p-Cymene)	ND	0.046
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Methylene Chloride	ND	0.20
4-Methyl-2-pentanone (MIBK)	ND	0.020
Styrene	ND	0.020
1,1,1,2-Tetrachloroethane	ND	0.036
1,1,2,2-Tetrachloroethane	ND	0.010
Tetrachloroethylene	ND	0.020
Toluene	ND	0.020
1,1,1-Trichloroethane	ND	0.010
1,1,2-Trichloroethane	ND	0.010
Trichloroethylene	ND	0.010
Trichlorofluoromethane (Freon 11)	ND	0.020
1,2,4-Trimethylbenzene	ND	0.020
1,3,5-Trimethylbenzene	ND	0.020
Vinyl Chloride	ND	0.010

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		

Batch B072487 - TO-15 Prep

Blank (B072487-BLK1)

Prepared & Analyzed: 05/01/13

m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	7.30				8.00		91.3	70-130			
<i>Surrogate: 4-Bromofluorobenzene (2)</i>	6.64				8.00		83.0	70-130			

LCS (B072487-BS1)

Prepared & Analyzed: 05/01/13

Acetone	6.14				5.00		123	70-130			
Acrylonitrile	2.69				2.88		93.3	70-130			V-06
Benzene	4.78				5.00		95.7	70-130			
Bromodichloromethane	5.39				5.00		108	70-130			
Bromoform	6.08				5.00		122	70-130			
2-Butanone (MEK)	5.91				5.00		118	70-130			
n-Butylbenzene	1.09				1.14		96.0	70-130			
sec-Butylbenzene	0.997				1.14		87.5	70-130			
Carbon Tetrachloride	5.54				5.00		111	70-130			
Chlorobenzene	5.29				5.00		106	70-130			
Chloroethane	4.44				5.00		88.8	70-130			
Chloroform	4.89				5.00		97.8	70-130			
Chloromethane	3.98				5.00		79.5	70-130			
Dibromochloromethane	5.94				5.00		119	70-130			
1,2-Dibromoethane (EDB)	5.34				5.00		107	70-130			
1,2-Dichlorobenzene	6.05				5.00		121	70-130			
1,3-Dichlorobenzene	6.03				5.00		121	70-130			
1,4-Dichlorobenzene	5.98				5.00		120	70-130			
Dichlorodifluoromethane (Freon 12)	5.05				5.00		101	70-130			
1,1-Dichloroethane	4.68				5.00		93.7	70-130			
1,2-Dichloroethane	5.04				5.00		101	70-130			
1,1-Dichloroethylene	4.74				5.00		94.8	70-130			
cis-1,2-Dichloroethylene	4.86				5.00		97.3	70-130			
trans-1,2-Dichloroethylene	4.84				5.00		96.9	70-130			
1,2-Dichloropropane	4.69				5.00		93.8	70-130			
1,3-Dichloropropane	1.30				1.35		96.7	70-130			
cis-1,3-Dichloropropene	5.48				5.00		110	70-130			
trans-1,3-Dichloropropene	5.84				5.00		117	70-130			
Ethylbenzene	5.75				5.00		115	70-130			
Isopropylbenzene (Cumene)	1.09				1.27		86.1	70-130			
p-Isopropyltoluene (p-Cymene)	1.00				1.14		88.1	70-130			
Methyl tert-Butyl Ether (MTBE)	5.22				5.00		104	70-130			
Methylene Chloride	4.41				5.00		88.1	70-130			
4-Methyl-2-pentanone (MIBK)	5.76				5.00		115	70-130			
Styrene	6.07				5.00		121	70-130			
1,1,1,2-Tetrachloroethane	0.861				0.910		94.6	70-130			
1,1,2,2-Tetrachloroethane	5.24				5.00		105	70-130			
Tetrachloroethylene	5.52				5.00		110	70-130			
Toluene	5.43				5.00		109	70-130			
1,1,1-Trichloroethane	5.33				5.00		107	70-130			
1,1,2-Trichloroethane	5.17				5.00		103	70-130			

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	RPD	Limit	Flag
	Results	RL	Results	RL	ppbv	Result	%REC				

Batch B072487 - TO-15 Prep

LCS (B072487-BS1)

Prepared & Analyzed: 05/01/13

Trichloroethylene	5.02				5.00		100			70-130	
Trichlorofluoromethane (Freon 11)	5.30				5.00		106			70-130	
1,2,4-Trimethylbenzene	6.18				5.00		124			70-130	
1,3,5-Trimethylbenzene	6.25				5.00		125			70-130	
Vinyl Chloride	4.50				5.00		90.1			70-130	
m&p-Xylene	12.2				10.0		122			70-130	
o-Xylene	5.84				5.00		117			70-130	
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.94</i>				<i>8.00</i>		<i>99.2</i>			<i>70-130</i>	
<i>Surrogate: 4-Bromofluorobenzene (2)</i>	<i>6.81</i>				<i>8.00</i>		<i>85.1</i>			<i>70-130</i>	

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- RL-10 Elevated reporting limit due to high concentration of an interfering analyte(s). Requested reporting limit not met.
- V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Acetone	AIHA,NY
Acrylonitrile	AIHA,NJ
Benzene	AIHA,FL,NJ,NY,VA
Bromodichloromethane	AIHA,NJ,NY,VA
Bromoform	AIHA,NJ,NY,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,VA
n-Butylbenzene	AIHA
sec-Butylbenzene	AIHA
Carbon Tetrachloride	AIHA,FL,NJ,NY,VA
Chlorobenzene	AIHA,FL,NJ,NY,VA
Chloroethane	AIHA,FL,NJ,NY,VA
Chloroform	AIHA,FL,NJ,NY,VA
Chloromethane	AIHA,FL,NJ,NY,VA
Dibromochloromethane	AIHA,NY
1,2-Dibromoethane (EDB)	AIHA,NJ,NY
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,VA
1,3-Dichlorobenzene	AIHA,NJ,NY
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY
1,1-Dichloroethane	AIHA,FL,NJ,NY,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,VA
1,3-Dichloropropane	AIHA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,VA
trans-1,3-Dichloropropene	AIHA,NY
Ethylbenzene	AIHA,FL,NJ,NY,VA
Isopropylbenzene (Cumene)	AIHA,NJ,NY
p-Isopropyltoluene (p-Cymene)	AIHA
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA
Methylene Chloride	AIHA,FL,NJ,NY,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY
Styrene	AIHA,FL,NJ,NY,VA
1,1,1,2-Tetrachloroethane	AIHA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,VA
Tetrachloroethylene	AIHA,FL,NJ,NY,VA
Toluene	AIHA,FL,NJ,NY,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,VA
Trichloroethylene	AIHA,FL,NJ,NY,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY
1,2,4-Trimethylbenzene	AIHA,NJ,NY
1,3,5-Trimethylbenzene	AIHA,NJ,NY
Vinyl Chloride	AIHA,FL,NJ,NY,VA
m&p-Xylene	AIHA,FL,NJ,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

EPA TO-15 in Air

o-Xylene AIHA,FL,NJ,NY,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



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

AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Company Name: EA Engineering
 Address: 2374 Post Rd, Suite 102
Warwick, RI 02886

Attention: Paul Thomas

Project Location: Alvarez HS, Pawtucket, RI
 Sampled By: P. Theroux & M. Travers

Proposal Provided? (For Billing purposes)

yes no proposal date

Telephone: (401) 736-3440
 Project # 14687.01
 Client PO # _____

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #: _____
 Email: phtheroux@east.com
 Format: EXCEL PDF GIS KEY OTHER _____

ONLY USE WHEN USING PUMPS

Field ID	Sample Description	Media	Lab #	Date Sampled		Total	Flow Rate	Volume	Matrix Code*	Analysis Requested
				Date Time	Date Time					
MP-2		S	01	4/24/13 1045	4/24/13 1115				SS	TO-15 SIM
MP-5			02	1105	1134					
MP-7			03	1054	1124					
MP-8			04	1053	1123					
1MP-1			05	0922	0951					
1MP-3			06	0916	0945					

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: 4-30-13

Relinquished by: (signature) _____ Date/Time: 4-30-13

Received by: (signature) _____ Date/Time: 4/30/13

Turnaround **
 7-Day
 10-Day
 Other _____
RUSH *
 *24-Hr *48-Hr
 *72-Hr *4-Day

Regulations: _____
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N
 Required Detection Limits: _____

*Matrix Code: SG= SOIL GAS IA= INDOOR AIR AMB= AMBIENT SS= SUB SLAB D= DUP BL= BLANK O= other

**Media Codes: S=summa can TB=tedlar bag P=PUF T=tube F=filter C=cassette O= Other

Approval Required

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



www.contestlabs.com



39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: ΣA Eng RECEIVED BY: WF DATE: 4/30/13

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 2) Does the chain agree with the samples?
If not, explain: Yes No
- 3) Are all the samples in good condition?
If not, explain: Yes No
- 4) Are there any samples "On Hold"? Yes No Stored where:
- 5) Are there any RUSH or SHORT HOLDING TIME samples?
Who was notified _____ Date _____ Time _____ Yes No

6) Location where samples are stored: Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans	6	6L
Tedlar Bags		
Tubes		
Regulators	6	30 MIN
Restrictors		
Tubing		
Other		

Unused Summas:

Unused Regulators:

- 1) Was all media (used & unused checked into the WASP?
- 2) Were all returned summa cans, Restrictors, & Regulators documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments: 1463 1296 / 4177 4073
1807 1810 / 4074 4046
1177 1319 / 4176 4072

APPENDIX D

Rooftop Emission Analytical Summary

Alvarez School - Sub Slab Depressurization System Emissions Calculations
20 July and 31 August 2012

Volatile Organic Compounds	ROOFTOP FAN 1				ROOFTOP FAN 2				ROOFTOP FAN 3				CUMULATIVE EMISSIONS (3 fans combined)					
	Measured Flow Speed (fpm): 2743		Measured Flow Rate (cfm): 134.6		Measured Flow Speed (fpm): 2095		Measured Flow Rate (cfm): 102.8		Measured Flow Speed (fpm): 2188		Measured Flow Rate (cfm): 107.4		Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)			
	Concentration (ug/m ³)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)	Concentration (ug/m ³)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)	Concentration (ug/m ³)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)						
Acetone	23.00	1.16E-05	2.78E-04	1.01E-01	17.00	6.54E-06	1.57E-04	5.72E-02	48	U	1.93E-05	4.63E-04	1.69E-01	3.74E-05	8.97E-04	3.27E-01		
Acrylonitrile	1.20	U	6.04E-07	1.45E-05	5.29E-03	1.20	U	4.61E-07	1.11E-05	4.04E-03	6.2	U	2.49E-06	5.97E-05	2.18E-02	3.55E-06	8.53E-05	3.11E-02
Benzene	0.38	U	1.91E-07	4.59E-06	1.68E-03	0.36	U	1.38E-07	3.32E-06	1.21E-03	1.6	U	6.42E-07	1.54E-05	5.63E-03	9.72E-07	2.33E-05	8.52E-03
Bromodichloromethane	0.67	U	3.37E-07	8.09E-06	2.95E-03	0.67	U	2.58E-07	6.18E-06	2.26E-03	3.4	U	1.37E-06	3.28E-05	1.20E-02	1.96E-06	4.70E-05	1.72E-02
Bromoform	1.00	U	5.03E-07	1.21E-05	4.41E-03	1.00	U	3.84E-07	9.23E-06	3.37E-03	5.2	U	2.09E-06	5.01E-05	1.83E-02	2.98E-06	7.14E-05	2.61E-02
2-Butanone	12.00	U	6.04E-06	1.45E-04	5.29E-02	12.00	U	4.61E-06	1.11E-04	4.04E-02	59	U	2.37E-05	5.69E-04	2.08E-01	3.43E-05	8.24E-04	3.01E-01
n-Butylbenzene	1.60	U	8.05E-07	1.93E-05	7.05E-03	1.60	U	6.15E-07	1.48E-05	5.39E-03	7.9	U	3.17E-06	7.61E-05	2.78E-02	4.59E-06	1.10E-04	4.02E-02
sec-Butylbenzene	1.30	U	6.54E-07	1.57E-05	5.73E-03	1.30	U	5.00E-07	1.20E-05	4.38E-03	6.3	U	2.53E-06	6.07E-05	2.22E-02	3.68E-06	8.84E-05	3.23E-02
Carbon Tetrachloride	0.63	U	3.17E-07	7.61E-06	2.78E-03	0.63	U	2.42E-07	5.81E-06	2.12E-03	3.1	U	1.24E-06	2.99E-05	1.09E-02	1.80E-06	4.33E-05	1.58E-02
Chlorobenzene	0.46	U	2.32E-07	5.56E-06	2.03E-03	0.46	U	1.77E-07	4.24E-06	1.55E-03	2.3	U	9.23E-07	2.22E-05	8.09E-03	1.33E-06	3.20E-05	1.17E-02
Chloroethane	0.26	U	1.31E-07	3.14E-06	1.15E-03	0.26	U	1.00E-07	2.40E-06	8.76E-04	1.3	U	5.22E-07	1.25E-05	4.57E-03	7.53E-07	1.81E-05	6.59E-03
Chloroform	0.49	U	2.47E-07	5.92E-06	2.16E-03	0.49	U	1.88E-07	4.52E-06	1.65E-03	2.4	U	9.64E-07	2.31E-05	8.44E-03	1.40E-06	3.36E-05	1.23E-02
Chloromethane	0.21	U	1.06E-07	2.54E-06	9.26E-04	0.21	U	8.07E-08	1.94E-06	7.07E-04	1.0	U	4.01E-07	9.64E-06	3.52E-03	5.88E-07	1.41E-05	5.15E-03
Dibromochloromethane	0.85	U	4.28E-07	1.03E-05	3.75E-03	0.85	U	3.27E-07	7.84E-06	2.86E-03	4.3	U	1.73E-06	4.14E-05	1.51E-02	2.48E-06	5.95E-05	2.17E-02
1,2-Dibromoethane	0.77	U	3.88E-07	9.30E-06	3.40E-03	0.77	U	2.96E-07	7.10E-06	2.59E-03	3.8	U	1.53E-06	3.66E-05	1.34E-02	2.21E-06	5.30E-05	1.94E-02
1,2-Dichlorobenzene	0.60	U	3.02E-07	7.25E-06	2.65E-03	0.60	U	2.31E-07	5.54E-06	2.02E-03	3.0	U	1.20E-06	2.89E-05	1.06E-02	1.74E-06	4.17E-05	1.52E-02
1,3-Dichlorobenzene	0.60	U	3.02E-07	7.25E-06	2.65E-03	0.60	U	2.31E-07	5.54E-06	2.02E-03	3.0	U	1.20E-06	2.89E-05	1.06E-02	1.74E-06	4.17E-05	1.52E-02
1,4-Dichlorobenzene	0.60	U	3.02E-07	7.25E-06	2.65E-03	0.60	U	2.31E-07	5.54E-06	2.02E-03	3.0	U	1.20E-06	2.89E-05	1.06E-02	1.74E-06	4.17E-05	1.52E-02
Dichlorodifluoromethane	2.10	U	1.06E-06	2.54E-05	9.26E-03	2.20	U	8.46E-07	2.03E-05	7.41E-03	2.5	U	1.00E-06	2.41E-05	8.79E-03	2.91E-06	6.98E-05	2.55E-02
1,1-Dichloroethane	0.40	U	2.01E-07	4.83E-06	1.76E-03	0.40	U	1.54E-07	3.69E-06	1.35E-03	2.0	U	8.03E-07	1.93E-05	7.03E-03	1.16E-06	2.78E-05	1.01E-02
1,2-Dichloroethane	0.40	U	2.01E-07	4.83E-06	1.76E-03	0.40	U	1.54E-07	3.69E-06	1.35E-03	2.0	U	8.03E-07	1.93E-05	7.03E-03	1.16E-06	2.78E-05	1.01E-02
1,1-Dichloroethene	0.40	U	2.01E-07	4.83E-06	1.76E-03	0.40	U	1.54E-07	3.69E-06	1.35E-03	2.0	U	8.03E-07	1.93E-05	7.03E-03	1.16E-06	2.78E-05	1.01E-02
cis-1,2-Dichloroethene	0.40	U	2.01E-07	4.83E-06	1.76E-03	0.40	U	1.54E-07	3.69E-06	1.35E-03	2.0	U	8.03E-07	1.93E-05	7.03E-03	1.16E-06	2.78E-05	1.01E-02
trans-1,2-Dichloroethene	0.40	U	2.01E-07	4.83E-06	1.76E-03	0.40	U	1.54E-07	3.69E-06	1.35E-03	2.0	U	8.03E-07	1.93E-05	7.03E-03	1.16E-06	2.78E-05	1.01E-02
1,2-Dichloropropane	0.46	U	2.32E-07	5.56E-06	2.03E-03	0.46	U	1.77E-07	4.24E-06	1.55E-03	2.3	U	9.23E-07	2.22E-05	8.09E-03	1.33E-06	3.20E-05	1.17E-02
cis-1,3-Dichloropropene	0.45	U	2.27E-07	5.44E-06	1.98E-03	0.45	U	1.73E-07	4.15E-06	1.52E-03	6.2	U	2.49E-06	5.97E-05	2.18E-02	2.89E-06	6.93E-05	2.53E-02
trans-1,3-Dichloropropene	0.45	U	2.27E-07	5.44E-06	1.98E-03	0.45	U	1.73E-07	4.15E-06	1.52E-03	2.3	U	9.23E-07	2.22E-05	8.09E-03	1.32E-06	3.18E-05	1.16E-02
Ethylbenzene	0.43	U	2.16E-07	5.19E-06	1.90E-03	0.43	U	1.65E-07	3.97E-06	1.45E-03	2.2	U	8.83E-07	2.12E-05	7.74E-03	1.27E-06	3.04E-05	1.11E-02
Isopropylbenzene	0.25	U	1.26E-07	3.02E-06	1.10E-03	1.20	U	4.61E-07	1.11E-05	4.04E-03	6.2	U	2.49E-06	5.97E-05	2.18E-02	3.08E-06	7.38E-05	2.69E-02
p-Isopropyltoluene	0.23	U	1.16E-07	2.78E-06	1.01E-03	1.30	U	5.00E-07	1.20E-05	4.38E-03	6.3	U	2.53E-06	6.07E-05	2.22E-02	3.14E-06	7.55E-05	2.75E-02
Methyl tert butyl ether	0.36	U	1.81E-07	4.35E-06	1.59E-03	0.36	U	1.38E-07	3.32E-06	1.21E-03	1.8	U	7.23E-07	1.73E-05	6.33E-03	1.04E-06	2.50E-05	9.13E-03
Methylene chloride	3.50	U	1.76E-06	4.23E-05	1.54E-02	3.50	U	1.35E-06	3.23E-05	1.18E-02	17	U	6.83E-06	1.64E-04	5.98E-02	9.93E-06	2.38E-04	8.70E-02
4-Methyl-2-pentanone	0.41	U	2.06E-07	4.95E-06	1.81E-03	0.41	U	1.58E-07	3.78E-06	1.38E-03	2.0	U	8.03E-07	1.93E-05	7.03E-03	1.17E-06	2.80E-05	1.02E-02
Styrene	0.43	U	2.16E-07	5.19E-06	1.90E-03	0.43	U	1.65E-07	3.97E-06	1.45E-03	2.1	U	8.43E-07	2.02E-05	7.39E-03	1.22E-06	2.94E-05	1.07E-02
1,1,1,2-Tetrachloroethane	1.20	U	6.04E-07	1.45E-05	5.29E-03	1.20	U	4.61E-07	1.11E-05	4.04E-03	6.2	U	2.49E-06	5.97E-05	2.18E-02	3.55E-06	8.53E-05	3.11E-02
1,1,2,2-Tetrachloroethane	0.69	U	3.47E-07	8.34E-06	3.04E-03	0.69	U	2.65E-07	6.37E-06	2.32E-03	3.4	U	1.37E-06	3.28E-05	1.20E-02	1.98E-06	4.75E-05	1.73E-02
Tetrachloroethene	30.00	U	1.51E-05	3.62E-04	1.32E-01	14.00	U	5.38E-06	1.29E-04	4.71E-02	42	U	1.69E-05	4.05E-04	1.48E-01	3.73E-05	8.96E-04	3.27E-01
Toluene	1.30	U	6.54E-07	1.57E-05	5.73E-03	0.83	U	3.19E-07	7.66E-06	2.80E-03	1.9	U	7.63E-07	1.83E-05	6.68E-03	1.74E-06	4.17E-05	1.52E-02
1,1,1-Trichloroethane	1.90	U	9.56E-07	2.30E-05	8.38E-03	1.70	U	6.54E-07	1.57E-05	5.72E-03	2.7	U	1.08E-06	2.60E-05	9.50E-03	2.69E-06	6.47E-05	2.36E-02
1,1,2-Trichloroethane	0.55	U	2.77E-07	6.64E-06	2.43E-03	0.55	U	2.11E-07	5.07E-06	1.85E-03	2.7	U	1.08E-06	2.60E-05	9.50E-03	1.57E-06	3.77E-05	1.38E-02
Trichloroethene	89.00	U	4.48E-05	1.08E-03	3.92E-01	100.00	U	3.84E-05	9.23E-04	3.37E-01	18	U	7.23E-06	1.73E-04	6.33E-02	9.05E-05	2.17E-03	7.92E-01
Trichlorofluoromethane	38.00	U	1.91E-05	4.59E-04	1.68E-01	93.00	U	3.58E-05	8.58E-04	3.13E-01	13	U	5.22E-06	1.25E-04	4.57E-02	6.01E-05	1.44E-03	5.26E-01
1,2,4-Trimethylbenzene	0.49	U	2.47E-07	5.92E-06	2.16E-03	0.49	U	1.88E-07	4.52E-06	1.65E-03	2.5	U	1.00E-06	2.41E-05	8.79E-03	1.44E-06	3.45E-05	1.26E-02
1,3,5-Trimethylbenzene	0.49	U	2.47E-07	5.92E-06	2.16E-03	0.49	U	1.88E-07	4.52E-06	1.65E-03	2.5	U	1.00E-06	2.41E-05	8.79E-03	1.44E-06	3.45E-05	1.26E-02
Vinyl chloride	0.26	U	1.31E-07	3.14E-06	1.15E-03	0.26	U	1.00E-07	2.40E-06	8.76E-04	1.3	U	5.22E-07	1.25E-05	4.57E-03	7.53E-07	1.81E-05	6.59E-03
p/m-Xylene	0.87	U	4.38E-07	1.05E-05	3.84E-03	0.87	U	3.34E-07	8.03E-06	2.93E-03	4.3	U	1.73E-06	4.14E-05	1.51E-02	2.50E-06	6.00E-05	2.19E-02
o-Xylene	0.43	U	2.16E-07	5.19E-06	1.90E-03	0.43	U	1.65E-07	3.97E-06	1.45E-03	2.2	U	8.83E-07	2.12E-05	7.74E-03	1.27E-06	3.04E-05	1.11E-02
Total VOCs	2.23E+02		1.12E-04	2.69E-03	9.83E-01	2.28E+02		1.03E-04	2.48E-03	9.04E-01	1.64E+02	Not Applicable	Not Applicable	6.64E-01	Not Applicable	Not Applicable	2.12E+00	
RIDEM Air Pollution Control Permit Applicability Thresholds (lbs) *		10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)	Not Applicable	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)	Not Applicable	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)			

U : indicates that chemical was not detected by the laboratory. To be conservative, the reporting limit shown in the concentration column was used in the emissions calculations.

Hourly Emissions (lbs/hour) = VOC concentration (ug/m³) x measured flow rate (cfm) x 0.02832 m³/ft³ x 60 min/hour x 0.001 mg/ug x 0.001 g/mg x 0.0022 lb/g.

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].

APPENDIX E

Laboratory Method Reporting Limits Correspondence



39 Spruce Street
East Longmeadow, MA 01089

July 22, 2013

Mr. Ron Mack
EA Engineering Science & Technology
2350 Post Road
Warwick, RI 02886
RE: CT Remediation Standard Regulations – Work Order 13D1166

Dear Mr. Mack:

This letter is in response to the Residential Target Indoor Air numbers published in the Remediation Standard Regulations. Several of the TAC's, which are calculated based on risk, appear to be beyond the scope of the current methodologies available, as well as, the current analytical instrumentation available for these methods. The following compounds that Con-Test Laboratory had issues meeting the limits are listed below:

Bromodichloromethane
1,1,2,2-Tetrachloroethane
1,1,1,2-Tetrachloroethane
1,2-Dibromoethane

If you have any questions please feel free to call me at (413) 525-2332 ext. 41.

Sincerely,

A handwritten signature in black ink that reads "Tod Kopyscinski". The signature is written in a cursive, flowing style.

Tod Kopyscinski
Air Laboratory Manager