Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #29
October 21, 2009

To Fulfill the Requirements Set Forth in Order 5.A. of the Ohio EPA Director's Findings and Orders Dated March 28, 2007

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Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #29

Monitoring Events #137 through #141

October 21, 2009

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Monitoring Events #137 through #141

1.0 INTRODUCTION

1.1 Current Activities

As described in Section 1.2 below, beginning on Monday May 21, 2007, ambient air sampling is being conducted every six days as mandated by Order 5.A. of the Ohio EPA Director's Findings and Orders dated March 28, 2007. This report covers the analytical results from the following Community Monitoring Events.

Event #137: Thursday August 20 to Friday August 21
Event #138: Wednesday August 26 to Thursday August 27
Event #139: Tuesday September 1 to Wednesday September 2
Event #140: Monday September 7 to Tuesday September 8
Event #141: Sunday September 13 to Monday September 14

Previous Monthly Reports describe modifications that have been made to the sampling apparatus and sampling protocol to minimize/eliminate sources of variability. No other modifications have been made to the system during the time period reflected in this Monthly Report.

1.2 Background

As specified by the Ohio EPA in Bryan Zima's March 28, 2007, letter to Jason Perdion of Baker & Hostetler, air samples were analyzed for the following groups of compounds:

- Volatile Organic Compounds (VOCs): EPA Method TO-15 modified with Tentatively Identified Compounds (TICs)
- Sulfur Compounds: EPA Method TO-15 modified
- Aldehydes and Ketones: EPA Method TO-11A
- Hydrogen Fluoride and Hydrogen Chloride: NIOSH Method 7903

VOCs were analyzed by TestAmerica Inc., 5815 Middlebrook Pike, Knoxville, TN 37921. The analyses for aldehydes (EPA Method TO-11A) and hydrogen fluoride / hydrogen chloride (NIOSH Method 7903) were performed by TestAmerica Inc. Phoenix, 4625 E. Cotton Center Blvd, Suite 189, Phoenix, AZ 85040. Prior to April 2009, analyses for aldehydes and hydrogen fluoride/hydrogen chloride were performed by Integrated Analytical Laboratory (IAL), Randolph, NJ.

In order to identify conditions that may be of concern, results from the community monitoring are compared to conservative risk-based concentrations for compounds in air in non-occupational settings. The most conservative (lowest) comparison is the USEPA

Region 9 Preliminary Remediation Goals (PRGs). Where available, we have compared the results to the Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs). The differences between these screening levels are briefly discussed below.

The USEPA Region 9 PRG is the concentration of a compound in the ambient air that is estimated to be without significant risk to a person who would breathe that level of compound continuously over many decades. The Region 9 PRGs are derived using conservative mathematical formulas and do not represent the level of a compound in the air (or other environmental media) where health effects are likely to occur. Region 9 PRGs are generally accepted as extremely conservative screening values even over a lifetime of exposure, such that if the concentration of a compound in the air is less than the corresponding PRG, most public health officials and regulators are confident that there is no risk to human health. On the other hand, an analytical result that exceeds the corresponding PRG does not mean that there is an unacceptable risk to public health.

Many of the compounds that are detected in these Monitoring Events are commonly found at low levels in ambient air. For some compounds such as benzene, the mathematically-derived Region 9 PRG (0.25 ug/m^3) is lower than the laboratory reporting limit (0.64 ug/m^3) and lower than the average background concentration of 1.96 ug/m^3 in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). Consequently, finding certain compounds in ambient air at levels above PRGs is not uncommon and may simply reflect fluctuations in background sources. Additionally, not all of the compounds found in the air samples have corresponding PRGs.

Analytical results are also compared to the ATSDR Acute and Chronic Minimal Risk Levels (MRLs) where available. An MRL is an estimate of the daily human exposure to a hazardous substance that is likely to be without appreciable risk of adverse non-cancer health effects over a specified duration of exposure. PRGs and MRLs are useful screening levels that assist risk assessors in identifying those compounds that may pose a health concern. Neither PRGs nor MRLs represent levels of exposure that have been documented to cause actual health effects.

Most of the compounds that were either not detected or detected at levels below PRGs or MRLs will not be discussed unless those particular results help to explain other findings.

Ambient environmental/climate conditions are discussed in Section 2.0. Results of the monitoring are discussed in Section 3.0 and summarized in Section 4.0 of this report. Analytical results from the laboratory are provided in the Appendices.

2.0 AMBIENT CONDITIONS

The descriptions of ambient conditions are taken from the Akron-Canton Regional Airport.

Event #137: Thursday August 20 to Friday August 21
August 20: Average temperature in degrees F: 76, Max. 84, Min. 67.
Winds were 1 mph with a max speed of 8 mph out of SSW directions.
Average relative humidity 83% with 1.3 inches of precipitation recorded.
Complaints:
August 21: Average temperature in degrees F: 73, Max. 84, Min. 65
Winds were 1 mph with a max speed of 25 mph out of the SW.
Average relative humidity 69% with 0.01 inches of precipitation recorded.
Complaints:

Event #138: Wednesday August 26 to Thursday August 27
August 26: Average temperature in degrees F: 71, Max. 81, Min. 61.
Winds were 2 mph with a max speed of 15 mph out of the W.
Average relative humidity 74% with trace precipitation recorded.
Complaints:
August 27: Average temperature in degrees F: 69, Max. 75, Min. 62.
Winds were 4 mph with a max speed of 9 mph out of the NNE.
Average relative humidity 74% with no precipitation recorded.
Complaints:

Event #139 Tuesday September 1 to Wednesday September 2
September 1: Average temperature in degrees F: 59, Max. 71, Min. 46.
Winds were 2 mph with max gusts of 14 mph out of the NE.
Average relative humidity 66% with no precipitation recorded.
Complaints: There were no odor complaints during this time.
September 2: Average temperature in degrees F: 62, Max. 75, Min. 48
Winds were calm with a max speed of 13 mph out of the ENE.
Average relative humidity 67% with no precipitation recorded.

Event #140: Monday September 7 to Tuesday September 8
September 7: Average temperature in degrees F: 71, Max. 77, Min. 64.
Winds were 3 mph with a max speed of 13 mph out of the SE.
Average relative humidity 79% with no precipitation recorded.
Complaints:
September 8: Average temperature in degrees F: 69, Max. 75, Min. 63.
Winds were 1 mph with max gusts of 13 mph out of the ESE.
Average relative humidity 81% with 0.08 in. precipitation recorded.

Event #141: Sunday September 13 to Monday September 14
September 13: Average temperature in degrees F: 64, Max. 77, Min. 50.
Winds were 5 mph with a max speed of 15 mph out of the NNW.
Average relative humidity 73% with no precipitation recorded.

September 14: Average temperature in degrees F: 69, Max. 80, Min. 57.
Winds were 3 mph with a max speed of 14 mph out of the WNW.
Average relative humidity 72% with no precipitation recorded.

3.0 ANALYTICAL RESULTS

The laboratory analyzed the air samples for a large number of compounds. Only those results that exceeded Region 9 PRGs and/or ATSDR MRLs will be discussed in the body of this report (see Section 1.0). Other compounds may have been detected in a sample, but were quantified at concentrations below the respective PRG. Analytical results from the laboratory are provided in the Appendices.

The prevailing wind direction for each monitoring station relative to the landfill is designated as:

C: Crosswind
D: Downwind
U: Upwind
V: Variable

Wind direction is indicated for the first and second days of the regularly scheduled monitoring event separated by a right slash ("/").

3.1 Volatile Organic Compounds

Compounds detected by Method TO-15 modified (TO-15M) are summarized in Tables 1 through 5. TO-15M analyzes air samples collected in a SUMMA® canister for the presence of an extensive list of volatile organic compounds. In addition to a "standard analyte" list, the laboratory tentatively identifies and estimate the concentration of numerous compounds that are not on the "standard" list. These Tentatively Identified Compounds (TICs) include some compounds for which there are other specific analytical methods, such as acetaldehyde which is a target analyte for EPA Method TO-11A (TO-11A). All of the TO-15M analyses presented in this monthly report were performed by TestAmerica Inc., Knoxville, TN. Laboratory data reports are provided in the Appendices. The QA/QC packages from Test America are not included in the Appendices because of their large size but can be made available upon request.

Analytical results for the routinely detected compounds, benzene and carbon tetrachloride, are presented in Tables 1 through 5, below. Additional compounds, which exceeded their respective PRGs, were detected during the sampling events covered by this report. However, our review of these analytes indicated that they were infrequently detected, not associated with landfill gas, or not highly associated with the sampling locations relative position to the landfill and/or the analyte(s) were common laboratory contaminants (i.e. methylene chloride); therefore, after careful review, the landfill was determined not to be the source and these compounds were not evaluated further. Nevertheless, these constituents will be monitored in future events to identify any emerging trends.

None of the concentrations of the detected VOC analytes exceeded their respective acute or chronic MRL, where applicable.

Event #137: Thursday August 20 to Friday August 21
Analytical results are summarized in Table 1 and provided in Appendix A.

Table 1. Event #137: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound	**Acute MRL**	**Chronic MRL**	**PRG**	**School**	**Cell Tower**	**Campground**		**Wetland**
						Co-located		
		Prevailing wind direction		U/U	U/U	D/D		C/C
Benzene	29	10	0.25	2.7J, est	0.42J	0.39J	0.34J	0.54J
Carbon tetrachloride	188	188	0.13	ND	1.1J	1.0J	1.1J	1.1J

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #138: Wednesday August 26 to Thursday August 27
Analytical results are summarized in Table 2 and provided in Appendix B.

Table 2. Event #138: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound	Acute MRL	Chronic MRL	PRG	School	Cell Tower	Camp-ground	Wetland	
							Co-located	
		Prevailing wind direction		C/D	C/D	C/U	D/C	
Benzene	29	10	0.25	0.73	0.56J	N/S	0.42J	0.53J
Carbon tetrachloride	188	188	0.13	0.49J	0.43J	NS	0.30J	0.43J

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #139: Tuesday September 1 to Wednesday September 2
Analytical results are summarized in Table 3 and provided in Appendix C.

Table 3. Event #139: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound	Acute MRL	Chronic MRL	PRG	School	Cell Tower*		Camp-ground	Wetland
					Co-located			
		Prevailing wind direction		D/D	D/D		U/U	C/C
Benzene	29	10	0.25	1.4	0.79	0.74	1.6	0.61J
Carbon tetrachloride	188	188	0.13	0.90J	0.88J	0.76J	0.90J	ND

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #140: Monday September 7 to Tuesday September 8
Analytical results are summarized in Table 4 and provided in Appendix D.

Table 4. Event #140: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound	Acute MRL	Chronic MRL	PRG	School		Cell Tower	Camp ground	Wetland
				Co-located				
Prevailing wind direction				C/C		C/C	C/C	U/U
Benzene	29	10	0.25	1.4	1.6	1.5	1.8	1.3
Carbon tetrachloride	188	188	0.13	0.80J	0.87J	0.88J	0.98J	0.85J

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #141: Sunday September 13 to Monday September 14
Analytical results are summarized in Table 5 and provided in Appendix E.

Table 5. Event #141: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound	Acute MRL	Chronic MRL	PRG	School	Cell Tower	Campground		Wetland
						Co-located		
Prevailing wind direction				C/C	C/C	D/D		C/C
Benzene	29	10	0.25	1.6	0.57J	0.63	0.71	0.43J
Carbon tetrachloride	188	188	0.13	0.74J	0.55J	0.52J	0.37J	0.35J

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

3.2 Sulfur Compounds

Carbon disulfide was the only sulfur compound detected during the five sampling events reviewed in this report for which Method TO-15M was performed. When detected, the concentrations of carbon disulfide were extremely low and well below the Region 9 PRG PRG. All detections are included on the TO-15M Summary Tables.

3.3 Aldehydes and Ketones

In order to obtain a continuous 24 hours of data, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8-hours each. Consequently, there are three separate sample results for each location for each monitoring event. These three sample results can then be combined to calculate a 24-hour average concentration. Analyses for aldehydes and ketones by method TO-11A were conducted by TestAmerica Inc., Phoenix Arizona.

Although Method TO-11A analyzes for a number of carbonyl compounds, formaldehyde and acetaldehyde are most frequently detected and are the aldehyde compounds of greatest potential concern from a public health standpoint. In addition to formaldehyde and acetaldehyde, several carbonyl compounds were occasionally detected in the samples summarized in this Monthly Report #29. The results for these compounds are included on the laboratory reporting sheets found in the Appendices. Only results for formaldehyde and acetaldehyde are summarized in the tables below.

During the sampling event on August 26th to 27th the pump at the Cell Tower location failed during the sampling cycle. The pump has been replaced with a new pump. Due to battery failure at the Campground location the sampling unit did not properly run and thus sampling times could not be determined so samples were not sent for analysis.

Event #137: Thursday August 20 to Friday August 21
The laboratory report is in Appendix A.

Table 6. Event #137: Aldehydes Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				U/U			U/U			D/D			C/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	NA	NA	0.87	33.9	6.3	16.3	31.6	11.4	24.3	22.6	9.6	14.1	26.1	7.6	21.4
Formaldehyde	50	10	0.15	14.6	4.9	7.0	13.8	7.2	9.7	11.6	6.6	7.3	12.5	5.2	8.7

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #138: Wednesday August 26 to Thursday August 27
The laboratory report is in Appendix B.

Table 7. Event #138: Aldehydes Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/D			C/D			C/U			D/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	NA	NA	0.87	52.2	8.5	13.6	NA	NA	NA	NA	NA	NA	36.1	8.8	18.0
Formaldehyde	50	10	0.15	15.5	4.7	6.1	NA	NA	NA	NA	NA	NA	12.3	4.1	7.6

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #139: Tuesday September 1 to Wednesday September 2
The laboratory report is in Appendix C.

Table 8. Event #139: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				D/D			D/D			U/U			C/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	NA	NA	0.87	NA	NA	NA	17.7	5.6	16.5	23.8	14.5	29.3	17.5	3.7	20.9
Formaldehyde	50	10	0.15	NA	NA	NA	8.5	3.2	6.4	13.9	7.6	12.2	8.8	2.1	8.7

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #140: Monday September 7 to Tuesday September 8
The laboratory report is in Appendix D.

Table 9. Event #140: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/C			C/C			C/C			U/U		
				1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	NA	NA	0.87	58.6	9.7	27.1	26.0	11.0	16.1	1.0	9.2	14.1	32.3	11.7	16.6
Formaldehyde	50	10	0.15	13.1	3.8	10.4	8.7	4.7	6.0	2.3	2.1	6.4	9.3	4.6	7.2

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #141: Sunday September 13 to Monday September 14
Analytical results are provided in Appendix E.

Table 10. Event #141: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/C			C/C			D/D			C/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	NA	NA	0.87	66.1	9.1	34.6	33.3	10.6	22.5	44.6	15.7	31.6	36.4	7.7	25.8
Formaldehyde	50	10	0.15	14.7	2.7	10.9	10.9	4.1	8.0	18.7	7.7	14.3	11.9	29.5	9.9

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

3.4 Hydrogen Chloride and Hydrogen Fluoride

As with the aldehyde and ketone samples, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8-hours each. Consequently there are three separate sample results for each location for each monitoring event. The concentrations of HF and HCl in the air are quantified based on the mass of fluoride and chloride ion captured on the gel inside the tubes and the volume of air that was passed through the tube.

The majority of samples collected from mid-August through mid-September had no detectable amounts of either HF or HCl. Hydrochloric acid was detected on occasion: events #137, 138, 139, 140. These detections were noted in only one tube for at a different location each time except for event #139. Event #137 was mid-day at the Campground; Event #138 was late afternoon at the Wetland; Event #139 late day at the Cell Tower and late day at the Wetland; and midday at the Wetland. The highly conservative Region 9 PRG screening value for HCl (21 ug/m^3) is for essentially constant exposure over many years. The HCL detections above the PRG may be attributable, in part, to moisture in the sorbent tube (as noted by the analytical laboratory).

None of the sorbent tubes had detectable amounts of HF; thus, none of the samples had concentrations above the HF MRL. There is no Region 9 PRG for hydrogen fluoride.

The HCl and HF results are summarized in the tables below.

Table 11. Event #137: Thursday August 20 to Friday August 21

Concentrations in ug/m^3

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			U/U			U/U			D/D			C/C		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	21	ND	ND	ND	ND	ND	ND	ND	0.034	ND	ND	ND	ND

1.ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
*Indicates possible break-through from front to back of sorbent tube.
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Table 12. Event #138: Wednesday August 26 to Thursday August 27

Concentrations in ug/m^3

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			C/D			C/D			C/U			D/C		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
HCl	NA	21	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.092	ND	ND

1.ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
*Indicates possible break-through from front to back of sorbent tube.
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Table 13. Event #139: Tuesday September 1 to Wednesday September 2

Concentrations in ug/m^3

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			D/D			D/D			U/U			C/C		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	21	NA	NA	NA	0.015	ND	ND	ND	ND	ND	0.017	ND	ND

1.ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
*Indicates possible break-through from front to back of sorbent tube.
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Table 14. Event #140: Monday September 7 to Tuesday September 8

Concentrations in ug/m^3

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			C/C			C/C			C/C			U/U		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.8	ND

1.ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
*Indicates possible break-through from front to back of sorbent tube.
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Table 15. Event #141: Sunday September 13 to Monday September14

Concentrations in ug/m^3

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			C/C			C/C			D/D			C/C		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1.ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
*Indicates possible break-through from front to back of sorbent tube.
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

The laboratory analytical results for HF and HCl are included in Appendices A through E of this Report #29.

4.0 SUMMARY

4.1 Volatile Organic Compounds

All of the reported benzene concentrations were within the range of background levels reported in the literature and by other investigators. The concentration of benzene detected from all samples conducted from mid-August to mid-September ranged from 0.34 ug/m^3 to 1.6 ug/m^3 (average 0.83 ug/m^3); these concentrations are well below the average background concentration (1.96 ug/m^3) in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). There was no apparent correlation of concentrations with the sampling site relative position to the landfill.

As mentioned in previous Monthly Reports, there are numerous local and area sources of benzene and related compounds, including lawn mowing, emissions from the heavy equipment working on the nearby expansion area of the landfill, motor vehicles on nearby roads and Interstate 77, the Marathon refinery on the south side of Canton, and the landfill. The sources of carbon tetrachloride are not known, but the consistently low concentrations of this environmentally persistent compound across all monitoring locations (irrespective of wind direction) indicate that, like benzene, it is present in background air not related to the landfill.

Note: The two compounds, benzene and carbon tetrachloride, that were measured at concentrations (or estimated concentrations as designated by a "J" qualifier) above their Region 9 PRGs (0.25 ug/m^3 and 0.13 ug/m^3, respectively) have PRGs that are below the reporting limit (0.64 ug/m^3 and 1.3 ug/m^3, respectively) for the analytical laboratory. Consequently, any quantifiable detection of these compounds will exceed the highly conservative Region 9 PRG. Therefore, the ATSDR MRLs provide a more realistic basis of comparison, since all of the MRLs are above the range of laboratory reporting limits. Neither benzene nor carbon tetrachloride concentrations in any sample exceeded or even approached their respective acute or chronic ATSDR MRL.

4.2 Aldehydes (Carbonyl Compounds)

Formaldehyde and acetaldehyde were detected at all community sampling locations. The Region 9 PRGs for formaldehyde and acetaldehyde (0.15 ug/m^3 and 0.87 ug/$m^{3,}$ respectively) are very close to the laboratory reporting limits for these compounds. Consequently, almost any measurable levels of formaldehyde and acetaldehyde will exceed the respective Region 9 PRG. Therefore, the ATSDR Acute and Chronic MRLs for formaldehyde are more relevant guidelines for interpreting the analytical results. ATSDR MRL standards for acetaldehyde are not available.

The ATSDR Acute MRL value for formaldehyde (50 ug/m^3), which is a guideline for exposures lasting 1 to 14 days, was not exceeded in any sample covered in this report. The ATSDR Chronic MRL *value* (10 ug/m^3) for formaldehyde was exceeded in one or more samples during each sampling events covered in this report. However, the ATSDR chronic MRL is intended as a guideline for the assessment of long term exposure (greater than 365 days). A review of the historical data collected at the Countywide Recycling & Disposal Facility (May 21, 2007 to August 14, 2009) yields an average formaldehyde concentration which is well below both the ATSDR acute and chronic MRL values.

Additionally, there are no apparent correlations between the sampling location's orientation to the landfill and prevailing wind (upwind, downwind or crosswind) and the concentration of either formaldehyde or acetaldehyde. This suggests that the concentrations of these compounds may be derived from other common sources, such as vehicle exhaust.

As noted in previous reports, the first and third sorbent tubes tend to capture the highest concentrations of aldehydes. The first sorbent tube is programmed to turn on at 3:00 PM and run until 11:00 PM; the second tube samples air from 11:00 PM to 7:00 AM; and the third tube samples air form 7:00 AM to 3:00 PM. Thus, the first and third tubes are drawing air samples during the evening and morning rush hours, respectively. Again, this suggests that the density of motor vehicle traffic may help explain the observed increased levels of aldehydes in sorbent tubes #1 and #3.

4.3 Hydrogen Fluoride and Hydrogen Chloride

Hydrogen fluoride was not detected in any sample taken from mid-August to mid-September. Hydrogen chloride was detected at very low levels during monitoring events # 137, 138, 139 and 140. The 24 hour average HCL concentrations did not exceed the conservative Region 9 PRG (21.0 ug/m^3) in any sampling event covered in this report. Additionally, there are no apparent associations between the sampling location's orientation to the landfill and prevailing wind (upwind, downwind or crosswind) and the concentration of HCL. This suggests that concentrations of this compound may be present in ambient air from other sources.

<u>Note</u>: It should be recognized that NIOSH Method 7903 for inorganic acids was designed for industrial-not ambient environmental applications. The methodology appears to be sensitive to changes in ambient conditions, particularly moisture. HF and HCl were

either not present or were only detected at very low levels in the majority of samples that have been collected since the initiation of this monitoring program in May 2007. Even those results that appear to be outside of the "typical range" for this program are extremely low concentrations that do not present a risk to public health.

4.4 Laboratory Issues

No major laboratory issues have been identified as of the date of this report that would alter the conclusions based upon the monitoring results presented here. Results from the co-located (duplicate) TO-15 samples were similar for all locations and events.

4.5 Conclusions

No significant concentrations of any VOC, including benzene, have been reported in the months since alterations were made to the sampling apparatus. This is still the case for the monitoring events presented in this Monthly Report #29.

Our specific conclusions are summarized below:

- The levels of benzene recorded at the community monitoring locations during mid-July through mid-August were very low and well within Ohio background as reported by Ohio EPA (Portsmouth Ohio Air Quality Study, 2003).
- Because there are numerous local and regional sources of VOCs, it is expected that many of these compounds will continue to be detected at low levels as the community monitoring program moves forward.
- Concentrations of formaldehyde and acetaldehyde from mid-August through mid-September were comparable to the values observed in previous months. The ATSDR Acute MRL value for formaldehyde ($50ug/m^3$) was not exceeded in any sample covered in this report. The 24-hour average concentrations of formaldehyde occasionally exceeded the ASTDR chronic MRL value; however, the historical average level of formaldehyde recorded from all locations from May 21, 2007 through August 14, 2009 is well below the acute and chronic ATSDR MRL values.
- The results from HCl and HF sampling continue to show no indication of any threat from these constituents; thus, sampling for hydrogen fluoride and hydrogen chloride should be eliminated.
- There are no clear trends with regard to the specific compounds or the concentrations of those compounds detected with respect to whether the monitoring location was upwind or downwind of the landfill during the monitoring event.
- The results presented in this Monthly Report #29 continue to support our conclusions that the occurrence of low levels of VOCs, aldehydes, and inorganic acids in the air of the community surrounding Countywide reflect local and regional sources; and that the levels of these compounds in the ambient air do not represent either an immediate or long-term threat to public health.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 1: Event #137: August 20/21, 2009

Analyte				Monitoring Location				
				***School	Cell Tower	Campground		Wetland
						Co-Located		
	Prevailing Wind Direction			U/U	U/U	D/D		C/C
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	240 EST	14	14	12	32
Benzene	29	10	**0.25**	**2.7 J-EST**	**0.42J**	**0.34J**	**0.39J**	**0.54J**
Bromomethane	194	19	5.2	ND	ND	ND	ND	0.20J
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	4.2 J-EST	0.20J	0.25J	0.23J	0.49J
Carbon disulfide	NA	934	730	0.95 J-EST	ND	0.12J	0.10J	0.27J
Carbon tetrachloride	188	188	**0.13**	ND	**1.1J**	**1.0J**	**1.1J**	**1.1J**
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	1.8 J-EST	ND	ND	ND	0.34J
Chloroform	488	98	**0.083**	ND	**0.46J**	**0.36J**	**0.40J**	**0.42J**
Chloromethane	1033	103	95	7.9 EST	1.1	1.0	1.1	1.6
Cyclohexane	NA	NA	6200	2.6 J-EST	0.28J	0.90J	0.20J	6.9
1,2-Dichlorobenzene	NA	NA	210	ND	ND	ND	ND	ND
1,4- Dichlorobenzene	12020	60	0.31	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	210	4.9 EST	2.9	3.0	3.2	3.3
1,1-Dichloroethane	NA	NA	520	ND	ND	ND	ND	ND
1,2-Dichloroethane	NA	2428	**0.0074**	ND	ND	ND	ND	**0.26J**
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	ND	ND	ND	ND	0.77J
4-Ethyltoluene	NA	NA	NA	ND	ND	ND	ND	ND
Heptane	NA	NA	NA	3.3 J-EST	0.45	0.70J	0.49J	2.8
Hexane	NA	2115	210	5.4 J-EST	0.47	0.66J	0.49J	2.5
Methyl ethyl ketone	NA	NA	5100	37 J-EST	1.8	1.9J	1.6J	5.7
Methyl isobutyl ketone	NA	NA	3100	2.1 J-EST	ND	ND	ND	0.36
Methylene chloride	2084	1042	**4.1**	11 EST	0.83J	1.9	0.64J	**14**
Styrene	8520	852	1100	1.3 J-EST	ND	0.39J	ND	0.76J
Tetrachloroethene	1356	271	0.32	340 EST	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	ND
Toluene	3768	301	400	8.9 EST	0.69	1.2	1.2	3.9
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND
Trichloroethene	10920	546	**0.017**	**0.93 J-EST**	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	1.4 J-EST	0.59	0.65J	0.60J	0.59J
Trichlorofluoromethane	NA	NA	730	5.9 EST	1.7	2.1	1.6	5.2
1,2,4-Trimethylbenzene	NA	NA	6.2	1.5 J-EST	ND	ND	ND	0.57J
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	NA	NA	NA	ND	ND	ND	ND	0.32J
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	2.8 J-EST	ND	0.76J	0.64J	2.1
o-Xylene	8687	8687	110	ND	ND	0.35J	0.27J	0.73J

*****School summa ground-wire was loose, problem was addressed and summa sample began running at 13:32 (8-21-09) and finished at 15:00 (8-21-09). The concentration was then estimated due to pressurization diluting sample, thus resulting in higher reporting limits.**

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = No Sample
ND = Not Detected
NA = Not Available
Y = TIC present
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.
EST= Estimated concentration due to pressurization diluting sample resulting in higher reporting limits.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 2: Event #138: August 26/27, 2009

Analyte				Monitoring Location				
				School	***Cell Tower***	******Campground***	***Wetland***	
							Co-Located	
	Prevailing Wind Direction			**C/D**	**C/D**	**C/U**	**D/C**	
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	38	13	NS	28	33
Benzene	29	10	**0.25**	**0.73**	**0.56J**	NS	**0.42J**	**0.53J**
Bromomethane	194	19	5.2	ND	ND	NS	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	NS	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.67J	0.19J	NS	0.44J	0.91J
Carbon disulfide	NA	934	730	1.4JB	0.41JB	NS	0.39JB	0.50JB
Carbon tetrachloride	188	188	**0.13**	**0.49J**	**0.43J**	NS	**0.30J**	**0.43J**
Chlorobenzene	NA	NA	62	ND	ND	NS	ND	ND
Chloroethane	39583	NA	2.3	0.16J	ND	NS	0.11J	ND
Chloroform	488	98	**0.083**	**0.20J**	ND	NS	ND	ND
Chloromethane	1033	103	95	1.2	0.82J	NS	0.86J	1.2
Cyclohexane	NA	NA	6200	0.17J	0.14J	NS	0.18J	0.17J
1,2-Dichlorobenzene	NA	NA	210	ND	ND	NS	ND	ND
1,4- Dichlorobenzene	12020	60	0.31	ND	ND	NS	ND	ND
Dichlorodifluoromethane	NA	NA	210	1.9	2.0	NS	2.0	2.6
1,1-Dichloroethane	NA	NA	520	ND	ND	NS	ND	ND
1,2-Dichloroethane	NA	2428	0.0074	ND	ND	NS	ND	ND
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	NS	ND	ND
trans-1,2-Dichloroethene	793	793	210	ND	ND	NS	ND	ND
Ethylbenzene	43419	1303	1100	0.33J	ND	NS	0.30J	0.34J
4-Ethyltoluene	NA	NA	NA	ND	ND	NS	ND	ND
Heptane	NA	NA	NA	0.40J	0.40J	NS	0.43J	0.42J
Hexane	NA	2115	210	0.82J	1.5J	NS	0.67J	0.98J
Methyl ethyl ketone	NA	NA	5100	7.6	1.7J	NS	5.4	5.5
Methyl isobutyl ketone	NA	NA	3100	0.61J	0.20J	NS	0.47J	0.40J
Methylene chloride	2084	1042	**4.1**	**5.8B**	**29B**	NS	**6.0B**	**7.4B**
Styrene	8520	852	1100	ND	ND	NS	ND	ND
Tetrachloroethene	1378	276	0.32	ND	ND	NS	ND	ND
Tetrahydrofuran	NA	NA	0.99	0.53J	ND	NS	ND	0.38J
Toluene	3768	301	400	1.7	2.0	NS	1.3	1.9
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	NS	0.21J	ND
Trichloroethene	10920	546	0.017	ND	ND	NS	0.56J	0.27J
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.41J	0.43J	NS	0.85J	0.62J
Trichlorofluoromethane	NA	NA	730	1.2	2.1	NS	1.3	1.9
1,2,4-Trimethylbenzene	NA	NA	6.2	0.56J	0.36J	NS	0.80J	0.87J
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	NS	ND	0.39J
2,2,4-Trimethylpentane	NA	NA	NA	0.28J	0.18J	NS	ND	0.23J
Vinyl Chloride	1278	77	0.11	ND	ND	NS	ND	ND
m/p-Xylene	8687	8687	110	0.86	0.66J	NS	0.93	1.00
o-Xylene	8687	8687	110	0.37J	ND	NS	0.52J	0.41J

***Campground sample unit did not run due to battery failure.

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = No Sample
ND = Not Detected
NA = Not Available
Y = TIC present
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.
EST= Estimated concentration due to pressurization diluting sample resulting in higher reporting limits.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 3: Event #139: September 1/2, 2009

Analyte				Monitoring Location				
				School	***Cell Tower***		***Campground***	***Wetland***
					Co-Located			
	Prevailing Wind Direction			**D/D**	**D/D**		**U/U**	**C/C**
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	15	19	14	26	27
Benzene	29	10	**0.25**	**1.4**	**0.79**	**0.74**	**1.6**	**0.61J**
Bromomethane	194	19	5.2	ND	ND	ND	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.29J	0.41J	0.27J	0.42J	ND
Carbon disulfide	NA	934	730	0.12J	ND	ND	2.0	0.18J
Carbon tetrachloride	188	188	**0.13**	**0.90J**	**0.88J**	**0.76J**	**0.90J**	ND
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	ND	ND	ND	ND	ND
Chloroform	488	98	0.083	ND	ND	ND	ND	ND
Chloromethane	1033	103	95	1.4	1.2	1.3	0.95J	1.4
Cyclohexane	NA	NA	6200	0.39J	0.20J	ND	0.51J	ND
1,4- Dichlorobenzene	12020	60	0.31	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	210	3.1	2.9	3.1	2.9	3.1
1,1-Dichloroethane	NA	NA	520	ND	ND	ND	ND	0.12J
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	0.53J	ND	0.35J	0.81J	ND
4-Ethyltoluene	NA	NA	NA	ND	ND	ND	ND	ND
Heptane	NA	NA	NA	1.3J	0.59J	0.73J	1.6J	ND
Hexane	NA	2115	210	1.3J	0.82J	0.88J	2.0	ND
Methyl ethyl ketone	NA	NA	5100	2.0J	2.5J	1.6J	5.6	2.3J
Methyl isobutyl ketone	NA	NA	3100	ND	ND	ND	0.61J	ND
Methylene chloride	2084	1042	**4.1**	**4.9**	**8.3**	**8.5**	**6.7**	**5.0**
Styrene	8520	852	1100	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	**0.99**	ND	ND	ND	ND	**1.2J**
Toluene	3768	301	400	2.6	1.4	1.2	3.9	0.21J
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.63J	0.63J	0.61J	0.64J	0.49J
Trichlorofluoromethane	NA	NA	730	1.8	1.9	2.2	1.7	1.5
1,2,4-Trimethylbenzene	NA	NA	6.2	0.62J	0.57J	1.1	1.1	ND
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	ND	0.34J	ND
2,2,4-Trimethylpentane	NA	NA	NA	0.48J	0.26J	0.24J	1.2J	ND
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	1.5	0.92	0.88	2.8	ND
o-Xylene	8687	8687	110	0.60J	0.34J	0.35J	0.99	ND

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = No Sample
ND = Not Detected
NA = Not Available
Y = TIC present
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.
EST= Estimated concentration due to pressurization diluting sample resulting in higher reporting limits.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 4: Event #140: September 7/8, 2009

Analyte				Monitoring Location				
				School		***Cell Tower***	***Campground***	***Wetland***
				Co-Located				
	Prevailing Wind Direction			**C/C**		**C/C**	**C/C**	**U/U**
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	34	21	13	36	38
Benzene	29	10	**0.25**	**1.4**	**1.6**	**1.5**	**1.8**	**1.3**
Bromomethane	194	19	5.2	ND	ND	0.25J	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.77J	9.9	0.38J	0.51J	0.62J
Carbon disulfide	NA	934	730	0.24J	ND	ND	0.12J	0.19J
Carbon tetrachloride	188	188	**0.13**	**0.80J**	**0.87J**	**0.88J**	**0.98J**	**0.85J**
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	ND	ND	ND	ND	ND
Chloroform	488	98	0.083	ND	ND	ND	ND	ND
Chloromethane	1033	103	95	1.3	1.2	0.99J	1.2	1.2
Cyclohexane	NA	NA	6200	0.32J	0.23J	0.17J	0.22J	0.33J
1,4- Dichlorobenzene	12020	60	0.31	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	210	3.1	2.8	3.0	3.1	3.0
1,2-Dichloroethane	NA	2428	0.0074	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	ND	0.39J	ND	0.31J	ND
4-Ethyltoluene	NA	NA	NA	ND	ND	ND	ND	ND
Heptane	NA	NA	NA	0.59J	0.73J	0.57J	0.63J	0.40J
Hexane	NA	2115	210	0.98J	1.0J	0.82J	0.94J	0.88J
Methyl ethyl ketone	NA	NA	5100	5.7	1.9J	1.4J	7.7	7.1
Methyl isobutyl ketone	NA	NA	3100	0.33J	ND	ND	0.27J	0.26J
Methylene chloride	2084	1042	**4.1**	0.78J	1.9	0.71J	0.86J	0.83J
Styrene	8520	852	1100	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	ND
Tetrachloroethene	1356	271	**0.32**	ND	ND	ND	ND	ND
Toluene	3768	301	400	2.1	2.9	1.9	2.3	1.9
Trichloroethene	10920	546	0.017	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.58J	0.63J	0.62J	0.68J	0.58J
Trichlorofluoromethane	NA	NA	730	1.7	1.9	1.8	1.9	1.8
1,2,4-Trimethylbenzene	NA	NA	6.2	ND	0.68J	0.33J	0.45J	0.39J
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	NA	NA	NA	0.32J	0.35J	0.24J	0.32J	0.24J
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	0.73J	1.2	0.71J	0.88	0.81J
o-Xylene	8687	8687	110	ND	0.40J	ND	0.35J	0.31J

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = No Sample
ND = Not Detected
NA = Not Available
Y = TIC present
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.
EST= Estimated concentration due to pressurization diluting sample resulting in higher reporting limits.

Countywide Recycling & Disposal Facility								
EPA Method TO-15 Modified: Volatile Organic Compounds								
Table 5: Event #141: September 13/14, 2009								
Analyte				**Monitoring Location**				
				School	***Cell Tower***	***Campground***		***Wetland***
						Co-Located		
	Prevailing Wind Direction			**C/C**	**C/C**	**D/D**		**C/C**
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	36	22	18	42	35
Benzene	29	10	**0.25**	**1.6**	**0.57J**	**0.71**	**0.63**	**0.43J**
Bromomethane	194	19	5.2	0.13J	ND	ND	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.42JB	0.23JB	0.28JB	0.46JB	0.43JB
Carbon disulfide	NA	934	730	0.37JB	0.36JB	0.29JB	0.32JB	0.59JB
Carbon tetrachloride	188	188	**0.13**	**0.74J**	**0.55J**	**0.52J**	**0.37J**	**0.35J**
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	0.22J	ND	ND	ND	0.10J
Chloroform	488	98	0.083	ND	ND	ND	ND	ND
Chloromethane	1033	103	95	2.6	0.92J	1.1	1.1	0.83J
Cyclohexane	NA	NA	6200	0.47J	0.15J	0.16J	0.19J	ND
1,4- Dichlorobenzene	12020	60	0.31	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	210	2.1	2.3	2.7	2.4	2.0
1,2-Dichloroethane	NA	2428	0.0074	ND	ND	ND	ND	0.31J
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	2.3	0.33J	0.32J	ND	ND
4-Ethyltoluene	NA	NA	NA	ND	ND	ND	ND	ND
Heptane	NA	NA	NA	2.4	0.48J	0.50J	0.52J	0.35J
Hexane	NA	2115	210	2.5	1.3J	1.1J	1.0J	0.69J
Methyl ethyl ketone	NA	NA	5100	7.1	3.3	1.9J	8.7	6.6
Methyl isobutyl ketone	NA	NA	3100	0.50J	0.33J	0.27J	0.53J	0.48J
Methylene chloride	2084	1042	**4.1**	3.3B	**5.1J**	**4.3B**	3.1B	2.2B
Styrene	8520	852	1100	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	ND
Tetrachloroethene	1356	271	**0.32**	**0.69J**	ND	ND	ND	ND
Toluene	3768	301	400	13	1.7	1.9	1.6	1.4
Trichloroethene	10920	546	0.017	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.43J	0.46J	0.54J	0.54J	0.43J
Trichlorofluoromethane	NA	NA	730	1.2	1.2	1.5	1.4	1.2
1,2,4-Trimethylbenzene	NA	NA	6.2	0.39J	0.92J	0.57J	ND	ND
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	0.40J	ND	ND	ND
2,2,4-Trimethylpentane	NA	NA	NA	1.3J	0.23JB	0.28J	0.26J	ND
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	4.8	0.93	0.96	0.53J	ND
o-Xylene	8687	8687	110	1.1	0.44J	0.42J	0.27J	ND
*Prevailing Wind Direction with respect to the landfill								
U: Upwind								
D: Downwind								
C: Crosswind								
V: Variable								
NS = No Sample								
ND = Not Detected								
NA = Not Available								
Y = TIC present								
Bold indicates result exceeds Region 9 PRG								
Shading indicates result exceeds ATSDR MRL								
Laboratory Data Qualifiers:								
B = Compound present in blank								
J = Estimated concentration below laboratory reporting limit								
D = Dilution								
E = Exceeds calibration range of instrument								
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.								
EST= Estimated concentration due to pressurization diluting sample resulting in higher reporting limits.								

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #29

October 21, 2009

APPENDIX A. Laboratory Analytical Results from Event #137:
Thursday, August 20, 2009 to Friday, August 21, 2009

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H9H250168

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LJPJ8	001	SU-C082009	08/20/09	
LJPKJ	002	SU-G082009	08/20/09	
LJPKL	003	SU-S082009	08/20/09	
LJPKM	004	SU-W082009	08/20/09	
LJPKQ	005	SU-COG082009	08/20/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H9H250168

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 08/26/09 exhibited a % difference of > 30% for tert-butanol, the results were within the LCS acceptance limits.

Sample SU-S082009 was received with a pressure of – 26 or lower inches of mercury. Flow controllers are set to take approximately 4 to 5 liters of sample. This would result in an ending pressure of approximately – 5 inches of Hg. In order to proceed with analysis, the canister was pressurized due to insufficient sample. This pressurization (dilution) may result in higher reporting limits than desired. All flow controllers are cleaned and verified to be in good working condition prior to being sent to the field. The flow controller was also checked upon receipt and was confirmed to be working properly.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H9H250168

After consultation with the client, the sample was analyzed and the data was reported. Due to the uncertainty of the dilution factor resulting from the low pressure, the results are considered estimated and flagged with "EST".

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C082009

GC/MS Volatiles

Lot-Sample #	H9H250168 - 001	**Work Order #**	LJPJ81AA	**Matrix.....:**	AIR

Date Sampled...:	08/20/2009	**Date Received..:**	08/25/2009
Prep Date.....:	08/26/2009	**Analysis Date...**	08/26/2009
Prep Batch #.....:	9239135		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**6.0**	**5.0**	**14**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.30**	**0.20**	**1.7**		**1.1**
n-Heptane	**0.11**	**0.50**	**0.45**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.13**	**0.50**	**0.47**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.065**	**2.0**	**0.20**	**J**	**6.1**
Methylene chloride	**0.24**	**0.50**	**0.83**	**J**	**1.7**
Benzene	**0.13**	**0.20**	**0.42**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.18**	**0.20**	**0.69**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.077**	**0.20**	**0.59**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.63**	**1.0**	**1.8**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.18**	**0.20**	**1.1**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 001 **Work Order #** LJPJ81AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	**0.094**	**0.20**	**0.46**	**J**	**0.98**
Chloromethane	**0.54**	**0.50**	**1.1**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.082**	**0.50**	**0.28**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.59**	**0.20**	**2.9**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-G082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 002 **Work Order #** LJPKJ1AA **Matrix.....:** AIR

Date Sampled...: 08/20/2009 **Date Received..:** 08/25/2009
Prep Date.....: 08/26/2009 **Analysis Date...** 08/26/2009
Prep Batch #.....: 9239135
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**5.8**	**5.0**	**14**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.37**	**0.20**	**2.1**		**1.1**
n-Heptane	**0.17**	**0.50**	**0.70**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.19**	**0.50**	**0.66**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.083**	**2.0**	**0.25**	**J**	**6.1**
Methylene chloride	**0.54**	**0.50**	**1.9**		**1.7**
Benzene	**0.11**	**0.20**	**0.34**	**J**	**0.64**
Styrene	**0.091**	**0.20**	**0.39**	**J**	**0.85**
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.32**	**0.20**	**1.2**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.085**	**0.20**	**0.65**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.081**	**0.20**	**0.35**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.17**	**0.20**	**0.76**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.63**	**1.0**	**1.9**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.037**	**0.50**	**0.12**	**J**	**1.6**
Carbon tetrachloride	**0.16**	**0.20**	**1.0**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 002 **Work Order #** LJPKJ1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	**0.074**	**0.20**	**0.36**	**J**	**0.98**
Chloromethane	**0.51**	**0.50**	**1.0**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.26**	**0.50**	**0.90**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.61**	**0.20**	**3.0**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	94	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 003 **Work Order #** LJPKL1AA **Matrix.....:** AIR

Date Sampled...: 08/20/2009 **Date Received..:** 08/25/2009
Prep Date.....: 08/26/2009 **Analysis Date...** 08/26/2009
Prep Batch #.....: 9239135
Dilution Factor.: 4.55 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.91	ND		4.1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.91	ND		6.4
Acetone	**100**	**23**	**240**	**est**	**54**
Ethylbenzene	ND	0.91	ND		4.0
Trichlorofluoromethane	**1.1**	**0.91**	**5.9**	**est**	**5.1**
n-Heptane	**0.82**	**2.3**	**3.3**	**J est**	**9.3**
Hexachlorobutadiene	ND	4.6	ND		49
n-Hexane	**1.5**	**2.3**	**5.4**	**J est**	**8.0**
2,2,4-Trimethylpentane	ND	2.3	ND		11
tert-Butyl alcohol	**1.4**	**9.1**	**4.2**	**J est**	**28**
Methylene chloride	**3.3**	**2.3**	**11**	**est**	**7.9**
Benzene	**0.85**	**0.91**	**2.7**	**J est**	**2.9**
Styrene	**0.30**	**0.91**	**1.3**	**J est**	**3.9**
1,1,2,2-Tetrachloroethane	ND	0.91	ND		6.2
Tetrachloroethene	**50**	**0.91**	**340**	**est**	**6.2**
Tetrahydrofuran	ND	4.6	ND		13
Toluene	**2.4**	**0.91**	**8.9**	**est**	**3.4**
1,2,4-Trichlorobenzene	ND	4.6	ND		34
1,1,1-Trichloroethane	ND	0.91	ND		5.0
1,1,2-Trichloroethane	ND	0.91	ND		5.0
Trichloroethene	**0.17**	**0.91**	**0.93**	**J est**	**4.9**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.18**	**0.91**	**1.4**	**J est**	**7.0**
1,2,4-Trimethylbenzene	**0.32**	**0.91**	**1.5**	**J est**	**4.5**
1,3,5-Trimethylbenzene	ND	0.91	ND		4.5
Vinyl chloride	ND	0.91	ND		2.3
o-Xylene	ND	0.91	ND		4.0
Methyl tert-butyl ether	ND	4.6	ND		16
m-Xylene & p-Xylene	**0.64**	**0.91**	**2.8**	**J est**	**4.0**
Bromodichloromethane	ND	0.91	ND		6.1
1,2-Dibromoethane (EDB)	ND	0.91	ND		7.0
2-Butanone (MEK)	**13**	**4.6**	**37**	**est**	**13**
4-Methyl-2-pentanone (MIBK)	**0.51**	**2.3**	**2.1**	**J est**	**9.3**
Vinyl bromide	ND	0.91	ND		4.0
Bromoform	ND	0.91	ND		9.4
Bromomethane	ND	0.91	ND		3.5
1,3-Butadiene	ND	1.8	ND		4.0
4-Ethyltoluene	ND	1.8	ND		8.9
Carbon disulfide	**0.30**	**2.3**	**0.95**	**J est**	**7.1**
Carbon tetrachloride	ND	0.91	ND	est	5.7

Lawhon & Associates, Inc.

Client Sample ID: SU-S082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 003 **Work Order #** LJPKL1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.91	ND		4.2
Dibromochloromethane	ND	0.91	ND		7.8
Chloroethane	**0.69**	**0.91**	**1.8**	**J est**	**2.4**
Chloroform	ND	0.91	ND		4.4
Chloromethane	**3.8**	**2.3**	**7.9**	**est**	**4.7**
3-Chloropropene	ND	0.91	ND		2.8
2-Chlorotoluene	ND	1.8	ND		9.4
Cyclohexane	**0.76**	**2.3**	**2.6**	**J est**	**7.8**
1,2-Dichlorobenzene	ND	0.91	ND		5.5
1,3-Dichlorobenzene	ND	0.91	ND		5.5
1,4-Dichlorobenzene	ND	0.91	ND		5.5
Dichlorodifluoromethane	**0.98**	**0.91**	**4.9**	**est**	**4.5**
1,1-Dichloroethane	ND	0.91	ND		3.7
1,2-Dichloroethane	ND	0.91	ND		3.7
1,1-Dichloroethene	ND	0.91	ND		3.6
cis-1,2-Dichloroethene	ND	0.91	ND		3.6
trans-1,2-Dichloroethene	ND	0.91	ND		3.6
1,2-Dichloropropane	ND	0.91	ND		4.2
cis-1,3-Dichloropropene	ND	0.91	ND		4.1

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	91	60 - 140

Qualifiers

est	Estimated value. See narrative for details.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 004 **Work Order #** LJPKM1AA **Matrix.....:** AIR

Date Sampled...: 08/20/2009 **Date Received..:** 08/25/2009
Prep Date.....: 08/26/2009 **Analysis Date...** 08/26/2009
Prep Batch #.....: 9239135
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**13**	**5.0**	**32**		**12**
Ethylbenzene	**0.18**	**0.20**	**0.77**	**J**	**0.87**
Trichlorofluoromethane	**0.93**	**0.20**	**5.2**		**1.1**
n-Heptane	**0.69**	**0.50**	**2.8**		**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.72**	**0.50**	**2.5**		**1.8**
2,2,4-Trimethylpentane	**0.069**	**0.50**	**0.32**	**J**	**2.3**
tert-Butyl alcohol	**0.16**	**2.0**	**0.49**	**J**	**6.1**
Methylene chloride	**4.1**	**0.50**	**14**		**1.7**
Benzene	**0.17**	**0.20**	**0.54**	**J**	**0.64**
Styrene	**0.18**	**0.20**	**0.76**	**J**	**0.85**
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**1.0**	**0.20**	**3.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.078**	**0.20**	**0.59**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.57**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.17**	**0.20**	**0.73**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.48**	**0.20**	**2.1**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.9**	**1.0**	**5.7**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.089**	**0.50**	**0.36**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	**0.052**	**0.20**	**0.20**	**J**	**0.78**
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.086**	**0.50**	**0.27**	**J**	**1.6**
Carbon tetrachloride	**0.17**	**0.20**	**1.1**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 004 Work Order # LJPKM1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	**0.13**	**0.20**	**0.34**	**J**	**0.53**
Chloroform	**0.086**	**0.20**	**0.42**	**J**	**0.98**
Chloromethane	**0.77**	**0.50**	**1.6**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**2.0**	**0.50**	**6.9**		**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.67**	**0.20**	**3.3**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.064**	**0.20**	**0.26**	**J**	**0.81**
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COG082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 005 **Work Order #** LJPKQ1AA **Matrix.....:** AIR

Date Sampled...: 08/20/2009 **Date Received..:** 08/25/2009
Prep Date.....: 08/26/2009 **Analysis Date...** 08/26/2009
Prep Batch #.....: 9239135
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**5.2**	**5.0**	**12**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.29**	**0.20**	**1.6**		**1.1**
n-Heptane	**0.12**	**0.50**	**0.49**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.49**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.077**	**2.0**	**0.23**	**J**	**6.1**
Methylene chloride	**0.19**	**0.50**	**0.64**	**J**	**1.7**
Benzene	**0.12**	**0.20**	**0.39**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.31**	**0.20**	**1.2**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.078**	**0.20**	**0.60**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.061**	**0.20**	**0.27**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.15**	**0.20**	**0.64**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.53**	**1.0**	**1.6**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.033**	**0.50**	**0.10**	**J**	**1.6**
Carbon tetrachloride	**0.17**	**0.20**	**1.1**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COG082009

GC/MS Volatiles

Lot-Sample # H9H250168 - 005 **Work Order #** LJPKQ1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	**0.083**	**0.20**	**0.40**	**J**	**0.98**
Chloromethane	**0.53**	**0.50**	**1.1**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.059**	**0.50**	**0.20**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.64**	**0.20**	**3.2**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	94	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H9H270000 - 135B	**Work Order #**	LJVJE1AA	**Matrix.....:**	AIR
	08/20/2009	**Date Received..:**	08/25/2009		
Prep Date.....:	08/26/2009	**Analysis Date...**	08/26/2009		
Prep Batch #.....:	9239135				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Acetone	ND	5.0	ND	12
Ethylbenzene	ND	0.20	ND	0.87
Trichlorofluoromethane	ND	0.20	ND	1.1
n-Heptane	ND	0.50	ND	2.0
Hexachlorobutadiene	ND	1.0	ND	11
n-Hexane	ND	0.50	ND	1.8
2,2,4-Trimethylpentane	ND	0.50	ND	2.3
tert-Butyl alcohol	ND	2.0	ND	6.1
Methylene chloride	ND	0.50	ND	1.7
Benzene	ND	0.20	ND	0.64
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
Tetrachloroethene	ND	0.20	ND	1.4
Tetrahydrofuran	ND	1.0	ND	2.9
Toluene	ND	0.20	ND	0.75
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
1,1,1-Trichloroethane	ND	0.20	ND	1.1
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Trichloroethene	ND	0.20	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
Vinyl chloride	ND	0.20	ND	0.51
o-Xylene	ND	0.20	ND	0.87
Methyl tert-butyl ether	ND	1.0	ND	3.6
m-Xylene & p-Xylene	ND	0.20	ND	0.87
Bromodichloromethane	ND	0.20	ND	1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
2-Butanone (MEK)	ND	1.0	ND	2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND	2.0
Vinyl bromide	ND	0.20	ND	0.87
Bromoform	ND	0.20	ND	2.1
Bromomethane	ND	0.20	ND	0.78
1,3-Butadiene	ND	0.40	ND	0.88
4-Ethyltoluene	ND	0.40	ND	2.0
Carbon disulfide	ND	0.50	ND	1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9H270000 - 135B **Work Order #** LJVJE1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	86	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9H270000 - 135C **Work Order #** LJVJE1AC **Matrix.....:** AIR

	08/20/2009	**Date Received..:**	08/25/2009
Prep Date.....:	08/26/2009	**Analysis Date...**	08/26/2009
Prep Batch #.....:	9239135		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	2.50	2.25	11	10	90	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.50	1.99	17	14	80	60 - 140
Acetone	2.50	2.94	5.9	7.0	118	60 - 140
Ethylbenzene	2.50	2.55	11	11	102	70 - 130
Trichlorofluoromethane	2.50	2.98	14	17	119	60 - 140
n-Heptane	2.50	2.22	10	9.1	89	70 - 130
Hexachlorobutadiene	2.50	2.70	27	29	108	60 - 140
n-Hexane	2.50	2.38	8.8	8.4	95	70 - 130
2,2,4-Trimethylpentane	2.50	2.59	12	12	104	70 - 130
tert-Butyl alcohol	2.50	2.13	7.6	6.5	85	60 - 140
Methylene chloride	2.50	2.44	8.7	8.5	98	70 - 130
Benzene	2.50	2.63	8.0	8.4	105	70 - 130
Styrene	2.50	2.56	11	11	102	70 - 130
1,1,2,2-Tetrachloroethane	2.50	2.49	17	17	100	70 - 130
Tetrachloroethene	2.50	2.57	17	17	103	70 - 130
Tetrahydrofuran	2.50	1.97	7.4	5.8	79	70 - 130
Toluene	2.50	2.37	9.4	8.9	95	70 - 130
1,2,4-Trichlorobenzene	2.50	2.12	19	16	85	60 - 140
1,1,1-Trichloroethane	2.50	3.16	14	17	126	70 - 130
1,1,2-Trichloroethane	2.50	2.39	14	13	96	70 - 130
Trichloroethene	2.50	2.74	13	15	109	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.70	19	21	108	70 - 130
1,2,4-Trimethylbenzene	2.50	2.71	12	13	109	70 - 130
1,3,5-Trimethylbenzene	2.50	2.60	12	13	104	70 - 130
Vinyl chloride	2.50	2.38	6.4	6.1	95	70 - 130
o-Xylene	2.50	2.68	11	12	107	70 - 130
Methyl tert-butyl ether	2.50	2.44	9.0	8.8	98	60 - 140
m-Xylene & p-Xylene	5.00	5.39	22	23	108	70 - 130
Bromodichloromethane	2.50	2.68	17	18	107	70 - 130
1,2-Dibromoethane (EDB)	2.50	2.46	19	19	98	70 - 130
2-Butanone (MEK)	2.50	2.32	7.4	6.8	93	60 - 140
4-Methyl-2-pentanone (MIBK)	2.50	1.81	10	7.4	72	60 - 140
Vinyl bromide	2.50	2.59	11	11	104	60 - 140
Bromoform	2.50	2.03	26	21	81	70 - 130
Bromomethane	2.50	2.70	9.7	10	108	70 - 130
1,3-Butadiene	2.50	2.23	5.5	4.9	89	60 - 140
4-Ethyltoluene	2.50	2.68	12	13	107	70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9H270000 - 135C Work Order # LJVJE1AC Matrix.....: AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	2.50	2.43	7.8	7.6	97	70 - 130
Carbon tetrachloride	2.50	2.76	16	17	111	70 - 130
Chlorobenzene	2.50	2.38	12	11	95	70 - 130
Dibromochloromethane	2.50	2.68	21	23	107	70 - 130
Chloroethane	2.50	2.41	6.6	6.4	96	70 - 130
Chloroform	2.50	2.87	12	14	115	70 - 130
Chloromethane	2.50	2.36	5.2	4.9	95	60 - 140
3-Chloropropene	2.50	2.48	7.8	7.7	99	70 - 130
2-Chlorotoluene	2.50	2.56	13	13	102	70 - 130
Cyclohexane	2.50	2.50	8.6	8.6	100	70 - 130
1,2-Dichlorobenzene	2.50	2.34	15	14	93	70 - 130
1,3-Dichlorobenzene	2.50	2.31	15	14	93	70 - 130
1,4-Dichlorobenzene	2.50	2.32	15	14	93	70 - 130
Dichlorodifluoromethane	2.50	2.65	12	13	106	60 - 140
1,1-Dichloroethane	2.50	2.68	10	11	107	70 - 130
1,2-Dichloroethane	2.50	2.94	10	12	118	70 - 130
1,1-Dichloroethene	2.50	2.45	9.9	9.7	98	70 - 130
cis-1,2-Dichloroethene	2.50	2.70	9.9	11	108	70 - 130
trans-1,2-Dichloroethene	2.50	2.56	9.9	10	102	70 - 130
1,2-Dichloropropane	2.50	2.13	12	9.9	85	70 - 130
cis-1,3-Dichloropropene	2.50	2.27	11	10	91	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

975 ~~929~~ Eastwind Drive, Suite 190 ~~211~~
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

2115 Freeman Avenue
Cleveland, OH 44113
Phone: (216) 737-0100
Fax: (216) 737-0109

H9H250168

№ 8482

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7468
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, (O) Other AIR

Containers Intact: At L&A (Y)/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi / Tony Noxon

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time (min)	Sample Location	Number of Containers	Turn Around/Requirements	Method TO-15	Analysis VOC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C082009				8/20/09	1440	Cell Tower	1			X			6645
SU-G082009				8/20/09	1440	Campground	1			X			S-1549
SU-S082009				8/20/09	*88	School	1			X			6523
SU-W082009				8/20/09	1440	Wetland	1			X			1119
SU-CUG082009				8/20/09	1440	Co-Located Campground	1			X			12257

1 Box Rec'd @ ambient
Fed Ex # 8694 2482 7468
Custody seal intact
6 cans
6 flows

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	8/24/09 1600	[signature]	8/25/09 9:50				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments:
*School summa ground wire was loose and did not begin sampling until 13:32 (8/21/09). The sample then ran until 15:00 (8/21/09).

Distributor: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
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Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr. Suite 190
City/State/Zip Westerville, Ohio 43081
Phone: 614-818-5200
FAX: 614-818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Sampled By: Nick Iannaggi and Tony Noxon

2 of 2 COCs

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-CØ82ØØ9	8/20/09	15:00	15:00	-28.5	-6.0	K428	6645	X											
SU-GØ82ØØ9	↓	15:00	15:00	-28.5	-2.5	K113	S-1549	X											
*SU-SØ82ØØ9		*13:32 8/21/09	15:00	-28.5	-27.5	K107	6523	X											
SU-WØ82ØØ9		15:00	15:00	-28.5	-5.5	K326	1119	X											
SU-COGØ82ØØ9	↓	15:00	15:00	-28.5	-5.5	K219	12257	X											

Sampled by :

Temperature (Fahrenheit)

	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)

	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
*School summa ground wire was loose and did not begin sampling until 13:32 (8/21/09). The sample then ran until 15:00 (08/21/09)

*Return Can #6623, did not use.

Canisters Shipped by:	Date/Time:	Canisters Received by:	
Samples Relinquished by:	Date/Time: 8/24/09 1600	Received by:	
Relinquished by:	Date/Time:	Received by:	

TG 8/25/09 @ 9:50

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September 10, 2009

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order:	PSH1306
Project Name:	Countywide - Ambient Air
Project Number:	Countywide / 07-0082
Date Received:	08/25/09

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 12.9°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

N-1 = The concentration of Hydrochloric acid found on the back section of sample PSH1306-05 was greater than that found on the front section. The sample sections were checked at the time of extraction, loading and removal from autosampler. At each place, the sample section was verified to be in the correct loading positions.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

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Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PSH1306
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 08/25/09
Reported: 09/10/09 09:47

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C082009-01H	PSH1306-01	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
C082009-02H	PSH1306-02	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
C082009-03H	PSH1306-03	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
G082009-01H	PSH1306-04	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
G082009-02H	PSH1306-05	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
G082009-03H	PSH1306-06	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
S082009-01H	PSH1306-07	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
S082009-02H	PSH1306-08	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
S082009-03H	PSH1306-09	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
W082009-01H	PSH1306-10	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
W082009-02H	PSH1306-11	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
W082009-03H	PSH1306-12	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
082009A-H	PSH1306-13	08/20/09	Silica Gel tube, 200/400 mg Specially cleaned
C082009-01A	PSH1306-14	08/20/09	DNPH Silica Gel Tube, 450 mg
C082009-02A	PSH1306-15	08/20/09	DNPH Silica Gel Tube, 450 mg
C082009-03A	PSH1306-16	08/20/09	DNPH Silica Gel Tube, 450 mg
G082009-01A	PSH1306-17	08/20/09	DNPH Silica Gel Tube, 450 mg
G082009-02A	PSH1306-18	08/20/09	DNPH Silica Gel Tube, 450 mg
G082009-03A	PSH1306-19	08/20/09	DNPH Silica Gel Tube, 450 mg
S082009-01A	PSH1306-20	08/20/09	DNPH Silica Gel Tube, 450 mg
S082009-02A	PSH1306-21	08/20/09	DNPH Silica Gel Tube, 450 mg
S082009-03A	PSH1306-22	08/20/09	DNPH Silica Gel Tube, 450 mg
W082009-01A	PSH1306-23	08/20/09	DNPH Silica Gel Tube, 450 mg
W082009-02A	PSH1306-24	08/20/09	DNPH Silica Gel Tube, 450 mg
W082009-03A	PSH1306-25	08/20/09	DNPH Silica Gel Tube, 450 mg
082009A-A	PSH1306-26	08/20/09	DNPH Silica Gel Tube, 450 mg

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSH1306 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 08/25/09 Reported: 09/10/09 09:47	

ANALYTICAL REPORT

Aldehydes and Ketones by EPA TO-11A (Modified)

Sample ID: PSH1306-14 (C082009-01A) **Filter** **Sample Air Volume:158.4L** **Sampled: 08/20/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001894	<0.00003451	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.01	0.03163	0.01756	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.409	0.002582	0.001433	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.60	0.02904	0.01612	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	0.557	0.003516	0.00148	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001894	<0.0000826	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.361	0.002279	0.0005251	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.22	0.007702	0.002611	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001894	<0.00006607	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.19	0.01383	0.01126	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0534	0.0003371	0.0002745	IH11	9/2/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.14	0.01351	0.011	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.38	0.01503	0.003668	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001894	<0.00005376	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.119	0.0007513	0.0001529	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.237	0.001496	0.0003045	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.03	0.006503	0.002737	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0456	0.0002879	0.0001212	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.981	0.006193	0.002607	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001894	<0.00003854	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.807	0.005095	0.001446	IH10	9/3/2009	zn	0.0300	EPA TO-11A

Sample ID: PSH1306-15 (C082009-02A) **Filter** **Sample Air Volume:137.28L** **Sampled: 08/20/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002185	<0.00003982	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.57	0.01144	0.006348	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.126	0.0009178	0.0005094	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.44	0.01049	0.005822	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	0.335	0.00244	0.001027	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002185	<0.0000953	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.168	0.001224	0.000282	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.383	0.00279	0.000946	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002185	<0.00007623	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.993	0.007233	0.005889	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0483	0.0003518	0.0002865	IH11	9/2/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.945	0.006884	0.005605	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.795	0.005791	0.001414	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002185	<0.00006204	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0590	0.0004298	0.00008746	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.124	0.0009033	0.0001838	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.330	0.002404	0.001012	IH10	9/3/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSH1306 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 08/25/09 Reported: 09/10/09 09:47	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSH1306-15 (C082009-02A) - cont.	**Filter**		**Sample Air Volume:137.28L**				**Sampled: 08/20/09**	
	ug, Total	mg/m3	ppm				ug, Total	
p-Tolualdehyde	<0.0300	<0.0002185	<0.00004447	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.404	0.002943	0.0008354	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Sample ID: PSH1306-16 (C082009-03A)	**Filter**		**Sample Air Volume:166.56L**				**Sampled: 08/20/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001801	<0.00003282	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.04	0.02426	0.01346	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.116	0.0006964	0.0003866	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.92	0.02354	0.01306	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	1.56	0.009366	0.003943	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.311	0.001867	0.000786	IH11	9/2/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.25	0.007505	0.003159	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001801	<0.00007855	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.258	0.001549	0.0003569	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.06	0.006364	0.002158	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001801	<0.00006283	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.61	0.009666	0.00787	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0534	0.0003206	0.000261	IH11	9/2/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.56	0.009366	0.007626	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.31	0.007865	0.00192	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001801	<0.00005113	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0618	0.000371	0.0000755	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.172	0.001033	0.0002101	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.694	0.004167	0.001754	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001801	<0.00003665	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.493	0.00296	0.0008402	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Sample ID: PSH1306-17 (G082009-01A)	**Filter**		**Sample Air Volume:133.44L**				**Sampled: 08/20/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002248	<0.00004097	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.02	0.02263	0.01256	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.353	0.002645	0.001468	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.67	0.02001	0.01111	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	0.386	0.002893	0.001218	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002248	<0.00009805	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.328	0.002458	0.0005663	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.712	0.005336	0.001809	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002248	<0.00007843	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.55	0.01162	0.009457	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0532	0.0003987	0.0003246	IH11	9/2/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.50	0.01124	0.009152	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.92	0.01439	0.003512	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002248	<0.00006382	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.137	0.001027	0.0002089	IH10	9/3/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSH1306 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 08/25/09 Reported: 09/10/09 09:47	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSH1306-17 (G082009-01A) - cont.		**Filter**	**Sample Air Volume:133.44L**					**Sampled: 08/20/09**
	ug, Total	mg/m3	ppm				ug, Total	
o-Tolualdehyde	0.277	0.002076	0.0004224	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.598	0.004481	0.001887	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0502	0.0003762	0.0001584	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.548	0.004107	0.001729	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002248	<0.00004575	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.773	0.005793	0.001644	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Sample ID: PSH1306-18 (G082009-02A)		**Filter**	**Sample Air Volume:126.24L**					**Sampled: 08/20/09**
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002376	<0.0000433	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.21	0.009585	0.00532	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.142	0.001125	0.0006243	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.07	0.008476	0.004705	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.002376	<0.001	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002376	<0.0001036	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.233	0.001846	0.0004252	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.325	0.002574	0.0008729	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0310	0.0002456	0.00008326	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	0.294	0.002329	0.0007896	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002376	<0.0000829	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.828	0.006559	0.00534	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0462	0.000366	0.000298	IH11	9/2/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.782	0.006195	0.005044	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.758	0.006004	0.001466	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002376	<0.00006746	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0447	0.0003541	0.00007206	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.119	0.0009426	0.0001918	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.244	0.001933	0.0008137	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002376	<0.00004836	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.344	0.002725	0.0007735	IH10	9/3/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Sample ID: PSH1306-19 (G082009-03A) **Filter** **Sample Air Volume:164.16L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001827	<0.0000333	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.32	0.01413	0.007844	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.129	0.0007858	0.0004362	IH10	9/2/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.19	0.01334	0.007405	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	0.556	0.003387	0.001426	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001827	<0.0000797	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.263	0.001602	0.0003691	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.498	0.003034	0.001029	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001827	<0.00006375	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.20	0.00731	0.005952	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0475	0.0002894	0.0002356	IH11	9/2/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.15	0.007005	0.005704	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.942	0.005738	0.001401	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001827	<0.00005188	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0637	0.000388	0.00007896	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.156	0.0009503	0.0001934	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.396	0.002412	0.001016	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001827	<0.00003719	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.396	0.002412	0.0006848	IH10	9/3/2009	zn	0.0300	EPA TO-11A

Sample ID: PSH1306-20 (S082009-01A) **Filter** **Sample Air Volume:118.08L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002541	<0.0000463	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.00	0.03388	0.0188	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.223	0.001889	0.001048	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.78	0.03201	0.01777	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	1.02	0.008638	0.003636	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.372	0.00315	0.001326	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.645	0.005462	0.0023	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002541	<0.0001108	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.243	0.002058	0.0004741	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.04	0.008808	0.002986	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002541	<0.00008863	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.72	0.01457	0.01186	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0577	0.0004887	0.0003979	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.66	0.01406	0.01145	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.75	0.01482	0.003618	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002541	<0.00007212	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0882	0.000747	0.000152	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.233	0.001973	0.0004015	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.824	0.006978	0.002938	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002541	<0.0000517	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.597	0.005056	0.001435	IH10	9/3/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Sample ID: PSH1306-21 (S082009-02A) **Filter** **Sample Air Volume:240L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000125	<0.00002278	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.51	0.006292	0.003492	IH11, IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.184	0.0007667	0.0004255	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.33	0.005542	0.003076	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	0.390	0.001625	0.0006841	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000125	<0.00005451	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.232	0.0009667	0.0002227	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.442	0.001842	0.0006244	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000125	<0.0000436	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.17	0.004875	0.003969	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0565	0.0002354	0.0001917	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.11	0.004625	0.003766	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.948	0.00395	0.0009642	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000125	<0.00003548	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0868	0.0003617	0.0000736	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.219	0.0009125	0.0001857	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.410	0.001708	0.0007192	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0329	0.0001371	0.00005771	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.377	0.001571	0.0006613	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000125	<0.00002544	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.518	0.002158	0.0006127	IH10	9/3/2009	zn	0.0300	EPA TO-11A

Sample ID: PSH1306-22 (S082009-03A) **Filter** **Sample Air Volume:245.76L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001221	<0.00002224	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.01	0.01632	0.009057	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.140	0.0005697	0.0003162	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.87	0.01575	0.00874	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	1.39	0.005656	0.002381	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001221	<0.00005324	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.218	0.000887	0.0002044	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001221	<0.00004139	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001221	<0.00004258	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.72	0.006999	0.005698	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0658	0.0002677	0.000218	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.65	0.006714	0.005466	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.34	0.005452	0.001331	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001221	<0.00003465	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0542	0.0002205	0.00004488	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.245	0.0009969	0.0002029	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.703	0.002861	0.001204	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001221	<0.00002484	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.435	0.00177	0.0005025	IH10	9/3/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Sample ID: PSH1306-23 (W082009-01A) **Filter** **Sample Air Volume:192.48L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001559	<0.0000284	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.03	0.02613	0.0145	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.304	0.001579	0.0008766	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.73	0.02457	0.01364	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	1.19	0.006182	0.002603	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.494	0.002567	0.00108	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.700	0.003637	0.001531	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001559	<0.00006797	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.345	0.001792	0.000413	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.37	0.007118	0.002413	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001559	<0.00005437	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.41	0.01252	0.01019	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0573	0.0002977	0.0002424	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.35	0.01221	0.00994	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.47	0.01283	0.003133	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001559	<0.00004424	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0907	0.0004712	0.00009589	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.274	0.001424	0.0002897	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.05	0.005455	0.002296	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001559	<0.00003172	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.733	0.003808	0.001081	IH10	9/3/2009	zn	0.0300	EPA TO-11A

Sample ID: PSH1306-24 (W082009-02A) **Filter** **Sample Air Volume:194.88L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001539	<0.00002805	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.49	0.007646	0.004244	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.186	0.0009544	0.0005298	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.30	0.006671	0.003703	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	0.384	0.00197	0.0008295	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001539	<0.00006713	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.240	0.001232	0.0002837	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.450	0.002309	0.0007829	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001539	<0.0000537	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.14	0.00585	0.004763	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0535	0.0002745	0.0002235	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.09	0.005593	0.004554	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.02	0.005234	0.001278	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001539	<0.0000437	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0932	0.0004782	0.00009732	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.159	0.0008159	0.000166	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.354	0.001817	0.0007647	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001539	<0.00003133	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.519	0.002663	0.000756	IH10	9/3/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Sample ID: PSH1306-25 (W082009-03A) **Filter** **Sample Air Volume:188.64L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000159	<0.00002898	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.03	0.02136	0.01186	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0964	0.000511	0.0002836	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.93	0.02083	0.01156	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	1.47	0.007793	0.00328	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000159	<0.00006936	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.244	0.001293	0.000298	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.12	0.005937	0.002013	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000159	<0.00005548	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.64	0.008694	0.007078	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0548	0.0002905	0.0002365	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.59	0.008429	0.006863	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.37	0.007263	0.001773	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0745	0.0003949	0.0001121	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0547	0.00029	0.00005901	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.228	0.001209	0.000246	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.694	0.003679	0.001549	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000159	<0.00003236	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.451	0.002391	0.0006787	IH10	9/3/2009	zn	0.0300	EPA TO-11A

Sample ID: PSH1306-26 (082009A-A) **Filter** **Sample Air Volume:L** **Sampled: 08/20/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.0343	--	--	IH10, IH11	9/3/2009	zn	0.0300	EPA TO-11A
Acetone	0.833	--	--	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.308	--	--	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.525	--	--	IH11	9/3/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.134	--	--	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0438	--	--	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0898	--	--	IH11	9/3/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	9/3/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSH1306 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 08/25/09 Reported: 09/10/09 09:47	

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSH1306-01 (C082009-01H)	**Filter**		**Sample Air Volume:90.24L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.02349	<0.01575	IH10	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02416	<0.02952	IH10	9/2/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-02 (C082009-02H)	**Filter**		**Sample Air Volume:100.32L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.02113	<0.01417	IH10	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02173	<0.02655	IH10	9/2/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-03 (C082009-03H)	**Filter**		**Sample Air Volume:93.12L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.02277	<0.01527	IH10	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02341	<0.02861	IH10	9/2/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-04 (G082009-01H)	**Filter**		**Sample Air Volume:111.84L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.01896	<0.01271	IH10	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01949	<0.02382	IH10	9/2/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-05 (G082009-02H)	**Filter**		**Sample Air Volume:106.56L**				**Sampled: 08/20/09**	
Hydrochloric Acid	3.60	0.03378	0.02266	IH10	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrochloric Acid - Back (e)	3.60	0.03378	0.02266	IH10,N1	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrochloric Acid - Front	<2.12	<0.01989	<0.01334	IH10,N1	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02046	<0.025	IH10	9/2/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-06 (G082009-03H)	**Filter**		**Sample Air Volume:105.12L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.02017	<0.01352	IH10	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02074	<0.02534	IH10	9/2/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-07 (S082009-01H)	**Filter**		**Sample Air Volume:141.12L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.01502	<0.01007	IH10	9/2/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01545	<0.01888	IH10	9/2/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-08 (S082009-02H)	**Filter**		**Sample Air Volume:173.76L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.0122	<0.008182	IH10	9/3/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01255	<0.01533	IH10	9/3/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-09 (S082009-03H)	**Filter**		**Sample Air Volume:155.52L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.01363	<0.009141	IH10	9/3/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01402	<0.01713	IH10	9/3/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-10 (W082009-01H)	**Filter**		**Sample Air Volume:114.72L**				**Sampled: 08/20/09**	

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Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSH1306-10 (W082009-01H) - cont.		**Filter**	**Sample Air Volume:114.72L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.01848	<0.01239	IH10	9/3/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.019	<0.02322	IH10	9/3/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-11 (W082009-02H)		**Filter**	**Sample Air Volume:115.68L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.01833	<0.01229	IH10	9/3/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01885	<0.02303	IH10	9/3/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-12 (W082009-03H)		**Filter**	**Sample Air Volume:108.48L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	<0.01954	<0.01311	IH10	9/3/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.0201	<0.02455	IH10	9/3/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSH1306-13 (082009A-H)		**Filter**	**Sample Air Volume:L**				**Sampled: 08/20/09**	
Hydrochloric Acid	<2.12	--	--	IH10	9/3/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	--	--	IH10	9/3/2009	AY	2.18	NIOSH 7903 (MOD)

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
P9I0109-BLK1							
Formaldehyde	0.1012		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Formaldehyde - Back	0.04658		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Acetaldehyde	0.03920		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Acetaldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Acrolein	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Acrolein - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Acetone	1.046		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Acetone - Back	0.5032		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Propionaldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Crotonaldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Butyraldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Benzaldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Isovaleraldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Valeraldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
o-Tolualdehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
m-Tolualdehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
p-Tolualdehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Hexaldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9I0109		P9I0109-BLK1	09-02-2009
Inorganic Acids by NIOSH 7903 (Modified)							
P9I0217-BLK1							
Hydrochloric Acid	<2.12	IH10	ug, Total	P9I0217		P9I0217-BLK1	09-02-2009
Hydrochloric Acid - Back	<2.12	IH10	ug, Total	P9I0217		P9I0217-BLK1	09-02-2009
Hydrofluoric Acid	<2.18	IH10	ug, Total	P9I0217		P9I0217-BLK1	09-02-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)							
P9I0217-BLK1							
Hydrofluoric Acid - Back	<2.18	IH10	ug, Total	P9I0217		P9I0217-BLK1	09-02-2009

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9I0109-DUP1									
Formaldehyde	2.140	2.177	IH11	ug, Total	1.71	10	P9I0109	PSH1306-14	09-03-2009
Acetaldehyde	4.600	4.694	IH11	ug, Total	2.02	10	P9I0109	PSH1306-14	09-03-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-14	09-03-2009
Acetone	0.5570	0.5618	IH11	ug, Total	0.858	10	P9I0109	PSH1306-14	09-03-2009
Propionaldehyde	0.9810	0.9870	IH10	ug, Total	0.61	10	P9I0109	PSH1306-14	09-03-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-14	09-03-2009
Butyraldehyde	1.220	1.244	IH10	ug, Total	1.95	10	P9I0109	PSH1306-14	09-03-2009
Benzaldehyde	0.3610	0.3664	IH10	ug, Total	1.48	10	P9I0109	PSH1306-14	09-03-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-14	09-03-2009
Valeraldehyde	0.8070	0.8155	IH10	ug, Total	1.05	10	P9I0109	PSH1306-14	09-03-2009
o-Tolualdehyde	0.2370	0.2456	IH10	ug, Total	3.56	10	P9I0109	PSH1306-14	09-03-2009
m-Tolualdehyde	0.1190	0.1219	IH10	ug, Total	2.41	10	P9I0109	PSH1306-14	09-03-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-14	09-03-2009
Hexaldehyde	2.380	2.429	IH10	ug, Total	2.04	10	P9I0109	PSH1306-14	09-03-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-14	09-03-2009
P9I0109-DUP2									
Formaldehyde	1.090	1.079	IH11	ug, Total	1.01	10	P9I0109	PSH1306-24	09-03-2009
Acetaldehyde	1.300	1.291	IH11	ug, Total	0.695	10	P9I0109	PSH1306-24	09-03-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-24	09-03-2009
Acetone	0.3840	0.3825	IH11	ug, Total	0.391	10	P9I0109	PSH1306-24	09-03-2009
Propionaldehyde	0.3540	0.3520	IH10	ug, Total	0.567	10	P9I0109	PSH1306-24	09-03-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-24	09-03-2009
Butyraldehyde	0.4500	0.4481	IH10	ug, Total	0.423	10	P9I0109	PSH1306-24	09-03-2009
Benzaldehyde	0.2400	0.2398	IH10	ug, Total	0.0834	10	P9I0109	PSH1306-24	09-03-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-24	09-03-2009
Valeraldehyde	0.5190	0.5141	IH10	ug, Total	0.949	10	P9I0109	PSH1306-24	09-03-2009
o-Tolualdehyde	0.1590	0.1625	IH10	ug, Total	2.18	10	P9I0109	PSH1306-24	09-03-2009
m-Tolualdehyde	0.09320	0.09418	IH10	ug, Total	1.05	10	P9I0109	PSH1306-24	09-03-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-24	09-03-2009
Hexaldehyde	1.020	1.007	IH10	ug, Total	1.28	10	P9I0109	PSH1306-24	09-03-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0109	PSH1306-24	09-03-2009

LCS

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PSH1306
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 08/25/09
Reported: 09/10/09 09:47

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9I0109-BS1								
Formaldehyde	0.45	0.5083	IH11	ug, Total	113%	22-134	P9I0109	09-02-2009
Acetaldehyde	0.45	0.4596	IH11	ug, Total	102%	51-142	P9I0109	09-02-2009
Acrolein	0.45	0.2362	IH10, L2	ug, Total	53%	75-125	P9I0109	09-02-2009
Acetone	0.45	0.9366	IH11, L1	ug, Total	208%	75-125	P9I0109	09-02-2009
Propionaldehyde	0.45	0.6406	IH10	ug, Total	142%	67-145	P9I0109	09-02-2009
Crotonaldehyde	0.45	0.3596	IH10	ug, Total	80%	66-146	P9I0109	09-02-2009
Butyraldehyde	0.45	0.4832	IH10	ug, Total	107%	56-141	P9I0109	09-02-2009
Benzaldehyde	0.45	0.4239	IH10	ug, Total	94%	57-142	P9I0109	09-02-2009
Isovaleraldehyde	0.45	0.4281	IH10	ug, Total	95%	66-144	P9I0109	09-02-2009
Valeraldehyde	0.45	0.4505	IH10	ug, Total	100%	66-144	P9I0109	09-02-2009
o-Tolualdehyde	0.45	0.4591	IH10	ug, Total	102%	39-130	P9I0109	09-02-2009
m-Tolualdehyde	0.45	0.4276	IH10	ug, Total	95%	73-143	P9I0109	09-02-2009
p-Tolualdehyde	0.45	0.4145	IH10	ug, Total	92%	66-147	P9I0109	09-02-2009
Hexaldehyde	0.45	0.4437	IH10	ug, Total	99%	65-145	P9I0109	09-02-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4183	IH10	ug, Total	93%	75-144	P9I0109	09-02-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9I0217-BS1								
Hydrochloric Acid	10.3	12.48	IH10	ug, Total	121%	70-130	P9I0217	09-02-2009
Hydrofluoric Acid	10.5	10.51	IH10	ug, Total	100%	70-130	P9I0217	09-02-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9I0109-BSD1												
Formaldehyde		0.5099	IH11	ug, Total	0.45	113%	22-134	0.314	20	P9I0109		09-02-2009
Acetaldehyde		0.4618	IH11	ug, Total	0.45	103%	51-142	0.478	20	P9I0109		09-02-2009
Acrolein		0.2411	IH10, L2	ug, Total	0.45	54%	75-125	2.05	20	P9I0109		09-02-2009
Acetone		0.9339	IH11, L1	ug, Total	0.45	208%	75-125	0.289	20	P9I0109		09-02-2009
Propionaldehyde		0.6328	IH10	ug, Total	0.45	141%	67-145	1.23	20	P9I0109		09-02-2009
Crotonaldehyde		0.3659	IH10	ug, Total	0.45	81%	66-146	1.74	20	P9I0109		09-02-2009
Butyraldehyde		0.4861	IH10	ug, Total	0.45	108%	56-141	0.598	20	P9I0109		09-02-2009
Benzaldehyde		0.4349	IH10	ug, Total	0.45	97%	57-142	2.56	20	P9I0109		09-02-2009
Isovaleraldehyde		0.4243	IH10	ug, Total	0.45	94%	66-144	0.892	20	P9I0109		09-02-2009
Valeraldehyde		0.4487	IH10	ug, Total	0.45	100%	66-144	0.4	20	P9I0109		09-02-2009
o-Tolualdehyde		0.4567	IH10	ug, Total	0.45	101%	39-130	0.524	20	P9I0109		09-02-2009
m-Tolualdehyde		0.4270	IH10	ug, Total	0.45	95%	73-143	0.14	20	P9I0109		09-02-2009
p-Tolualdehyde		0.4123	IH10	ug, Total	0.45	92%	66-147	0.532	20	P9I0109		09-02-2009
Hexaldehyde		0.4405	IH10	ug, Total	0.45	98%	65-145	0.724	20	P9I0109		09-02-2009
2,5-Dimethyl Benzaldehyde		0.4196	IH10	ug, Total	0.45	93%	75-144	0.31	20	P9I0109		09-02-2009
Inorganic Acids by NIOSH 7903 (Modified)												
P9I0217-BSD1												

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSH1306 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 08/25/09 Reported: 09/10/09 09:47	

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9I0217-BSD1												
Hydrochloric Acid		12.74	IH10	ug, Total	10.3	124%	70-130	2.06	30	P9I0217		09-02-2009
Hydrofluoric Acid		10.74	IH10	ug, Total	10.5	102%	70-130	2.16	30	P9I0217		09-02-2009

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSH1306 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 08/25/09 Reported: 09/10/09 09:47	

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSH1306 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 08/25/09 Reported: 09/10/09 09:47	

DATA QUALIFIERS AND DEFINITIONS

IH10	Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.
IH11	Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
N1	See case narrative.

ADDITIONAL COMMENTS

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

975 ~~929~~ Eastwind Drive, Suite 190 ~~211~~
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Fax: (614) 818-5219

~~2115 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

№ 8484

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7479
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SW-Surface Water, GW-Groundwater, SD-Sediment, WW-Wastewater, O-Other AIR

Containers Intact: At L&A Y/N, At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iamaggi / Tony Noxon

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis HF	HCl	NIOSH 7903									Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C082009-01H				8/20/09	480	Cell Tower	1			X	X	X				PS1-1506-1							0.188 l/min
C082009-02H				8/20/09	480	Cell Tower	1			X	X	X				-2							0.209 "
C082009-03H				8/20/09	480	Cell Tower	1			X	X	X				-3							0.194 "
G082009-01H				8/20/09	480	Campground	1			X	X	X				-4							0.233 l/min
G082009-02H				8/20/09	480	Campground	1			X	X	X				-5							0.222 "
G082009-03H				8/20/09	480	Campground	1			X	X	X				-6							0.219 "
S082009-01H				8/20/09	480	School	1			X	X	X				-7							0.294 l/min
S082009-02H				8/20/09	480	School	1			X	X	X				-8							0.362 "
S082009-03H				8/20/09	480	School	1			X	X	X				-9							0.324 "
W082009-01H				8/20/09	480	Wetland	1			X	X	X				-10							0.239 l/min
W082009-02H				8/20/09	480	Wetland	1			X	X	X				-11							0.241 "
W082009-03H				8/20/09	480	Wetland	1			X	X	X				-12							0.226 "
082009A-H				8/20/09		Field Blank	1			X	X	X				-13							No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	8/24/09 1600						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
							8/25/09 0950

Comments:

17.9°C
Custody Seal
ICE

Distributor: White - File; Yellow - Lab

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

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№ 8485

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7479

Page 2 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SW-Surface Water, GW-Groundwater, SD-Sediment, WW-Wastewater, O-Other AIR

Containers Intact: At L&A Y/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi / Tony Nixon

Signature: [signature]

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method	Aldehyde TO-11	Ketone TO-11	Carbonyl TO-11										Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C082009-01A				8/20/09	480	Cell Tower	1				X	X	X			PSH1306		-14							0.330 l/min
C082009-02A				8/20/09	480	Cell Tower	1				X	X	X					-15							0.286 "
C082009-03A				8/20/09	480	Cell Tower	1				X	X	X					-16							0.347 "
G082009-01A				8/20/09	480	Campground	1				X	X	X					-17							0.278 l/min
G082009-02A				8/20/09	480	Campground	1				X	X	X					-18							0.263 "
G082009-03A				8/20/09	480	Campground	1				X	X	X					-19							0.342 "
S082009-01A				8/20/09	480	School	1				X	X	X					-20							0.246 l/min
S082009-02A				8/20/09	480	School	1				X	X	X					-21							0.500 "
S082009-03A				8/20/09	480	School	1				X	X	X					-22							0.512 "
W082009-01A				8/20/09	480	Wetland	1				X	X	X					-23							0.401 l/min
W082009-02A				8/20/09	480	Wetland	1				X	X	X					-24							0.406 "
W082009-03A				8/20/09	480	Wetland	1				X	X	X					-25							0.393 "
082009A-A				8/20/09		Field Blank	1				X	X	X					-26							No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	8/24/09 1600						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
						[signature]	8/25/09 0930

Comments: 17.9°C
ICE
Custody Seal

Distributor: White - File; Yellow - Lab

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #29

October 21, 2009

APPENDIX B. Laboratory Analytical Results from Event #138:
Wednesday, August 26, 2009 to Thursday, August 27, 2009

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H9I010186

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LJ5G0	001	SU-C082609	08/26/09	
LJ5G3	002	SU-S082609	08/26/09	
LJ5G4	003	SU-W082609	08/26/09	
LJ5G5	004	SU-COW082609	08/26/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H9I010186

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 09/01/09 exhibited a % difference of > 30% for acetone, the results were within the LCS acceptance limits.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C082609

GC/MS Volatiles

Lot-Sample #	H91010186 - 001	Work Order #	LJ5G01AA	Matrix.....:	AIR

Date Sampled...:	08/26/2009	Date Received..:	09/01/2009
Prep Date.....:	09/01/2009	Analysis Date...	09/01/2009
Prep Batch #.....:	9245221		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**5.5**	**5.0**	**13**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.38**	**0.20**	**2.1**		**1.1**
n-Heptane	**0.097**	**0.50**	**0.40**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.42**	**0.50**	**1.5**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.039**	**0.50**	**0.18**	**J**	**2.3**
tert-Butyl alcohol	**0.064**	**2.0**	**0.19**	**J**	**6.1**
Methylene chloride	**8.4**	**0.50**	**29**	**B**	**1.7**
Benzene	**0.18**	**0.20**	**0.56**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.54**	**0.20**	**2.0**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.056**	**0.20**	**0.43**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.073**	**0.20**	**0.36**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.15**	**0.20**	**0.66**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.57**	**1.0**	**1.7**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.048**	**0.50**	**0.20**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.13**	**0.50**	**0.41**	**J B**	**1.6**
Carbon tetrachloride	**0.068**	**0.20**	**0.43**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C082609

GC/MS Volatiles

Lot-Sample # H9I010186 - 001 Work Order # LJ5G01AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.40**	**0.50**	**0.82**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.042**	**0.50**	**0.14**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.40**	**0.20**	**2.0**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	94	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S082609

GC/MS Volatiles

Lot-Sample #	H9I010186 - 002	Work Order #	LJ5G31AA	Matrix.....:	AIR

Date Sampled...:	08/26/2009	Date Received..:	09/01/2009
Prep Date.....:	09/01/2009	Analysis Date...	09/02/2009
Prep Batch #.....:	9245221		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**16**	**5.0**	**38**		**12**
Ethylbenzene	**0.076**	**0.20**	**0.33**	**J**	**0.87**
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.099**	**0.50**	**0.40**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.23**	**0.50**	**0.82**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.059**	**0.50**	**0.28**	**J**	**2.3**
tert-Butyl alcohol	**0.22**	**2.0**	**0.67**	**J**	**6.1**
Methylene chloride	**1.7**	**0.50**	**5.8**	**B**	**1.7**
Benzene	**0.23**	**0.20**	**0.73**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	**0.18**	**1.0**	**0.53**	**J**	**2.9**
Toluene	**0.44**	**0.20**	**1.7**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.054**	**0.20**	**0.41**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.11**	**0.20**	**0.56**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.085**	**0.20**	**0.37**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.20**	**0.20**	**0.86**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.6**	**1.0**	**7.6**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.15**	**0.50**	**0.61**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.45**	**0.50**	**1.4**	**J B**	**1.6**
Carbon tetrachloride	**0.078**	**0.20**	**0.49**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S082609

GC/MS Volatiles

Lot-Sample # H9I010186 - 002 Work Order # LJ5G31AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	**0.061**	**0.20**	**0.16**	**J**	**0.53**
Chloroform	**0.040**	**0.20**	**0.20**	**J**	**0.98**
Chloromethane	**0.59**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.049**	**0.50**	**0.17**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.38**	**0.20**	**1.9**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	92	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W082609

GC/MS Volatiles

Lot-Sample # H9I010186 - 003 Work Order # LJ5G41AA Matrix.....: AIR

Date Sampled...: 08/26/2009 Date Received..: 09/01/2009
Prep Date.....: 09/01/2009 Analysis Date... 09/02/2009
Prep Batch #.....: 9245221
Dilution Factor.: 1 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**12**	**5.0**	**28**		**12**
Ethylbenzene	**0.069**	**0.20**	**0.30**	**J**	**0.87**
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.10**	**0.50**	**0.43**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.19**	**0.50**	**0.67**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.15**	**2.0**	**0.44**	**J**	**6.1**
Methylene chloride	**1.7**	**0.50**	**6.0**	**B**	**1.7**
Benzene	**0.13**	**0.20**	**0.42**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.35**	**0.20**	**1.3**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	**0.038**	**0.20**	**0.21**	**J**	**1.1**
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	**0.10**	**0.20**	**0.56**	**J**	**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.11**	**0.20**	**0.85**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.16**	**0.20**	**0.80**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.12**	**0.20**	**0.52**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.21**	**0.20**	**0.93**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.8**	**1.0**	**5.4**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.11**	**0.50**	**0.47**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.12**	**0.50**	**0.39**	**J B**	**1.6**
Carbon tetrachloride	**0.048**	**0.20**	**0.30**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W082609

GC/MS Volatiles

Lot-Sample # H9I010186 - 003 Work Order # LJ5G41AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	**0.042**	**0.20**	**0.11**	**J**	**0.53**
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.42**	**0.50**	**0.86**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.052**	**0.50**	**0.18**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.40**	**0.20**	**2.0**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COW082609

GC/MS Volatiles

Lot-Sample # H9I010186 - 004 Work Order # LJ5G51AA Matrix.....: AIR

Date Sampled...: 08/26/2009 Date Received..: 09/01/2009
Prep Date.....: 09/01/2009 Analysis Date... 09/02/2009
Prep Batch #.....: 9245221
Dilution Factor.: 1 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**0.035**	**0.20**	**0.24**	**J**	**1.4**
Acetone	**14**	**5.0**	**33**		**12**
Ethylbenzene	**0.079**	**0.20**	**0.34**	**J**	**0.87**
Trichlorofluoromethane	**0.35**	**0.20**	**1.9**		**1.1**
n-Heptane	**0.10**	**0.50**	**0.42**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.28**	**0.50**	**0.98**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.048**	**0.50**	**0.23**	**J**	**2.3**
tert-Butyl alcohol	**0.30**	**2.0**	**0.91**	**J**	**6.1**
Methylene chloride	**2.1**	**0.50**	**7.4**	**B**	**1.7**
Benzene	**0.16**	**0.20**	**0.53**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	**0.13**	**1.0**	**0.38**	**J**	**2.9**
Toluene	**0.49**	**0.20**	**1.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	**0.050**	**0.20**	**0.27**	**J**	**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.081**	**0.20**	**0.62**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.18**	**0.20**	**0.87**	**J**	**0.98**
1,3,5-Trimethylbenzene	**0.080**	**0.20**	**0.39**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.093**	**0.20**	**0.41**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.23**	**0.20**	**1.00**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.9**	**1.0**	**5.5**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.099**	**0.50**	**0.40**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.16**	**0.50**	**0.50**	**J B**	**1.6**
Carbon tetrachloride	**0.069**	**0.20**	**0.43**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COW082609

GC/MS Volatiles

Lot-Sample # H9I010186 - 004 Work Order # LJ5G51AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.58**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.051**	**0.50**	**0.17**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.53**	**0.20**	**2.6**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H9I020000 - 221B	**Work Order #**	LJ65Q1AA	**Matrix.....:**	AIR
	08/26/2009	**Date Received..:**	09/01/2009		
Prep Date.....:	09/01/2009	**Analysis Date...**	09/01/2009		
Prep Batch #.....:	9245221				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	ND	5.0	ND		12
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	ND	0.20	ND		1.1
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	ND	0.50	ND		1.8
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.17**	**0.50**	**0.60**	**J**	**1.7**
Benzene	ND	0.20	ND		0.64
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	ND	0.20	ND		0.75
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND		1.5
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.054**	**0.50**	**0.17**	**J**	**1.6**

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9I020000 - 221B Work Order # LJ65Q1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9I020000 - 221C **Work Order #** LJ65Q1AC **Matrix.....:** AIR

	08/26/2009	**Date Received..:**	09/01/2009
Prep Date.....:	09/01/2009	**Analysis Date...**	09/01/2009
Prep Batch #.....:	9245221		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	12.5	11.3	57	51	91	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	12.5	12.6	87	88	101	60 - 140
Acetone	12.5	7.50	30	18	60	60 - 140
Ethylbenzene	12.5	10.4	54	45	83	70 - 130
Trichlorofluoromethane	12.5	12.1	70	68	97	60 - 140
n-Heptane	12.5	9.96	51	41	80	70 - 130
Hexachlorobutadiene	12.5	9.44	130	100	75	60 - 140
n-Hexane	12.5	11.8	44	42	94	70 - 130
2,2,4-Trimethylpentane	12.5	10.7	58	50	86	70 - 130
tert-Butyl alcohol	12.5	11.4	38	35	92	60 - 140
Methylene chloride	12.5	10.6	43	37	84	70 - 130
Benzene	12.5	11.4	40	36	91	70 - 130
Styrene	12.5	11.2	53	47	89	70 - 130
1,1,2,2-Tetrachloroethane	12.5	10.6	86	73	85	70 - 130
Tetrachloroethene	12.5	11.0	85	75	88	70 - 130
Tetrahydrofuran	12.5	8.69	37	26	70	70 - 130
Toluene	12.5	10.2	47	38	81	70 - 130
1,2,4-Trichlorobenzene	12.5	9.41	93	70	75	60 - 140
1,1,1-Trichloroethane	12.5	10.3	68	56	82	70 - 130
1,1,2-Trichloroethane	12.5	10.9	68	60	87	70 - 130
Trichloroethene	12.5	10.8	67	58	86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	12.5	12.0	96	92	96	70 - 130
1,2,4-Trimethylbenzene	12.5	11.3	61	56	90	70 - 130
1,3,5-Trimethylbenzene	12.5	11.2	61	55	89	70 - 130
Vinyl chloride	12.5	12.4	32	32	99	70 - 130
o-Xylene	12.5	10.5	54	46	84	70 - 130
Methyl tert-butyl ether	12.5	8.70	45	31	70	60 - 140
m-Xylene & p-Xylene	25.0	20.0	110	87	80	70 - 130
Bromodichloromethane	12.5	11.4	84	77	91	70 - 130
1,2-Dibromoethane (EDB)	12.5	11.8	96	91	94	70 - 130
2-Butanone (MEK)	12.5	8.73	37	26	70	60 - 140
4-Methyl-2-pentanone (MIBK)	12.5	10.2	51	42	82	60 - 140
Vinyl bromide	12.5	12.2	55	53	98	60 - 140
Bromoform	12.5	13.4	130	140	107	70 - 130
Bromomethane	12.5	12.1	49	47	97	70 - 130
1,3-Butadiene	12.5	12.0	28	27	96	60 - 140
4-Ethyltoluene	12.5	11.2	61	55	89	70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H91020000 - 221C Work Order # LJ65Q1AC Matrix.....: AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	12.5	11.7	39	36	93	70 - 130
Carbon tetrachloride	12.5	11.3	79	71	91	70 - 130
Chlorobenzene	12.5	11.2	58	51	89	70 - 130
Dibromochloromethane	12.5	13.6	110	120	109	70 - 130
Chloroethane	12.5	12.1	33	32	97	70 - 130
Chloroform	12.5	10.2	61	50	82	70 - 130
Chloromethane	12.5	11.4	26	24	91	60 - 140
3-Chloropropene	12.5	11.8	39	37	95	70 - 130
2-Chlorotoluene	12.5	10.0	65	52	80	70 - 130
Cyclohexane	12.5	11.3	43	39	90	70 - 130
1,2-Dichlorobenzene	12.5	9.88	75	59	79	70 - 130
1,3-Dichlorobenzene	12.5	9.35	75	56	75	70 - 130
1,4-Dichlorobenzene	12.5	9.44	75	57	76	70 - 130
Dichlorodifluoromethane	12.5	13.1	62	65	104	60 - 140
1,1-Dichloroethane	12.5	11.0	51	45	88	70 - 130
1,2-Dichloroethane	12.5	11.4	51	46	91	70 - 130
1,1-Dichloroethene	12.5	11.4	50	45	91	70 - 130
cis-1,2-Dichloroethene	12.5	11.0	50	44	88	70 - 130
trans-1,2-Dichloroethene	12.5	11.3	50	45	91	70 - 130
1,2-Dichloropropane	12.5	10.3	58	48	83	70 - 130
cis-1,3-Dichloropropene	12.5	11.0	57	50	88	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	92	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

149I 010186

№ 8486

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~929~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2116 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7550
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other Air

Containers Intact: At L&A (Y/N), At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ Min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method TO-15	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C082609				8/26/09	1440	Cell Tower	1		VOC X				12266
SU-S082609				8/26/09	1440	School	1		X				6614
SU-W082609				8/26/09	1440	Wetland	1		X				92068
SU-CoW082609				8/26/09	1440	Co-located Wetland	1		X				6689
*SU-G082609				8/26/09	NA*	Campground	1	DO NOT ANALYZE					93268

Rec'd ambient
1 Box / FedEx # 8694 2482 7550
6 Cans
6 flows
Custody seal intact

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	8/31/09 1600	Galbraith	9/1/09 9:45				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments:
* Campground Unit did not run. please do not analyze; return and clean.

Distributor: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

179ID10186

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
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Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr., Suite 190
City/State/Zip: Westerville, Ohio 43081
Phone: 614-818-5200
FAX: 614-818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Sampled By: Nick Iannaggi

2 of 2 COCs

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Kept	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C082609	8/26/09	15:00	15:00	-29.0	-6.5	K378	12266	X											
SU-S082609	↓	↓	↓	-29.0	-5.0	K314	6616	X											
SU-W082609	↓	↓	↓	-29.0	-7.0	K131	92068	X											
SU-COW082609	↓	↓	↓	-29.0	-6.0	K397	6689	X											
X SU-G082609	8/26/09	N/A	→			→	93268	DO NOT ANALYZE											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
X Campground unit did not run. Please return and clean; DO NOT Analyze
- Return Can #04397 did not use.

Canisters Shipped by: [signature]	Date/Time:	Canisters Received by:
Samples Relinquished by: [signature]	Date/Time: 8/31/09 16:00	Received by:
Relinquished by:	Date/Time:	Received by:

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4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

September 15, 2009

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order: PSI0013
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 09/01/09

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 13.4°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

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Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PSI0013
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 09/01/09
Reported: 09/15/09 14:49

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
S082609-01H	PSI0013-01	08/26/09	Silica Gel tube, 200/400 mg Specially cleaned
S082609-02H	PSI0013-02	08/26/09	Silica Gel tube, 200/400 mg Specially cleaned
S082609-03H	PSI0013-03	08/26/09	Silica Gel tube, 200/400 mg Specially cleaned
W082609-01H	PSI0013-04	08/26/09	Silica Gel tube, 200/400 mg Specially cleaned
W082609-02H	PSI0013-05	08/26/09	Silica Gel tube, 200/400 mg Specially cleaned
W082609-03H	PSI0013-06	08/26/09	Silica Gel tube, 200/400 mg Specially cleaned
082609-H	PSI0013-07	08/26/09	Silica Gel tube, 200/400 mg Specially cleaned
S082609-01A	PSI0013-08	08/26/09	DNPH Silica Gel Tube, 450 mg
S082609-02A	PSI0013-09	08/26/09	DNPH Silica Gel Tube, 450 mg
S082609-03A	PSI0013-10	08/26/09	DNPH Silica Gel Tube, 450 mg
W082609-01A	PSI0013-11	08/26/09	DNPH Silica Gel Tube, 450 mg
W082609-02A	PSI0013-12	08/26/09	DNPH Silica Gel Tube, 450 mg
W082609-03A	PSI0013-13	08/26/09	DNPH Silica Gel Tube, 450 mg
082609-A	PSI0013-14	08/26/09	DNPH Silica Gel Tube, 450 mg

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0013 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/01/09 Reported: 09/15/09 14:49	

ANALYTICAL REPORT

Aldehydes and Ketones by EPA TO-11A (Modified)

Sample ID: PSI0013-08 (S082609-01A) **Tube** **Sample Air Volume:112.32L** **Sampled: 08/26/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002671	<0.00004867	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.86	0.05217	0.02896	IH10, IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.148	0.001318	0.0007314	IH10	9/9/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	5.71	0.05084	0.02822	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetone	1.83	0.01629	0.006859	IH10, IH11	9/10/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.707	0.006295	0.00265	IH10	9/9/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.12	0.009972	0.004198	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002671	<0.0001165	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.161	0.001433	0.0003303	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.21	0.01077	0.003653	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002671	<0.00009317	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.74	0.01549	0.01261	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0637	0.0005671	0.0004617	IH11	9/9/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.68	0.01496	0.01218	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.54	0.01371	0.003347	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002671	<0.00007582	IH10	9/10/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002671	<0.00005435	IH10	9/10/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.165	0.001469	0.0002989	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.827	0.007363	0.0031	IH10	9/10/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002671	<0.00005435	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.461	0.004104	0.001165	IH10	9/10/2009	zn	0.0300	EPA TO-11A

Sample ID: PSI0013-09 (S082609-02A) **Tube** **Sample Air Volume:227.04L** **Sampled: 08/26/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001321	<0.00002408		9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.94	0.008545	0.004743	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.212	0.0009338	0.0005183	IH10	9/9/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.73	0.00762	0.004229	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetone	0.389	0.001713	0.0007213	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001321	<0.00005763	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.189	0.0008325	0.0001918		9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.447	0.001969	0.0006676		9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back	0.0326	0.0001436	0.00004869	IH10	9/9/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	0.414	0.001823	0.0006183	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001321	<0.00004609		9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.06	0.004669	0.003801	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0554	0.000244	0.0001987	IH11	9/9/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.00	0.004405	0.003586	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.829	0.003651	0.0008913	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001321	<0.00003751	IH10	9/10/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0534	0.0002352	0.00004786	IH10	9/10/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0013 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/01/09 Reported: 09/15/09 14:49	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSI0013-09 (S082609-02A) - cont.	**Tube**		**Sample Air Volume:227.04L**				**Sampled: 08/26/09**	
	ug, Total	mg/m3	ppm				ug, Total	
o-Tolualdehyde	0.192	0.0008457	0.0001721	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.369	0.001625	0.0006842	IH10	9/10/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001321	<0.00002689	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.276	0.001216	0.0003451	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0013-10 (S082609-03A)	**Tube**		**Sample Air Volume:230.88L**				**Sampled: 08/26/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001299	<0.00002368		9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.15	0.01364	0.007573	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.134	0.0005804	0.0003221	IH10	9/9/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.02	0.01308	0.00726	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetone	1.05	0.004548	0.001915	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001299	<0.00005667	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.197	0.0008533	0.0001966		9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.772	0.003344	0.001134		9/10/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001299	<0.00004533		9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.41	0.006107	0.004972	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0582	0.0002521	0.0002052	IH11	9/9/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.35	0.005847	0.004761	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.06	0.004591	0.001121		9/10/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001299	<0.00003689		9/10/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0690	0.0002989	0.00006082		9/10/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.193	0.0008359	0.0001701		9/10/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.559	0.002421	0.001019	IH10	9/10/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001299	<0.00002644	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.355	0.001538	0.0004365	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0013-11 (W082609-01A)	**Tube**		**Sample Air Volume:177.12L**				**Sampled: 08/26/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001694	<0.00003086		9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	6.40	0.03613	0.02006	IH11, RL7	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.243	0.001372	0.0007615	IH10	9/9/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	6.16	0.03478	0.0193	IH11, RL7	9/10/2009	zn	0.300	EPA TO-11A
Acetone	1.93	0.0109	0.004587	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.788	0.004449	0.001873	IH10	9/9/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.14	0.006436	0.00271	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001694	<0.00007387	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.300	0.001694	0.0003902		9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.29	0.007283	0.002469		9/10/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001694	<0.00005908		9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.18	0.01231	0.01002	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0631	0.0003563	0.0002901	IH11	9/9/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.12	0.01197	0.009745	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.85	0.01044	0.00255	IH10	9/10/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0013 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/01/09 Reported: 09/15/09 14:49	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSI0013-11 (W082609-01A) - cont.	**Tube**		**Sample Air Volume:177.12L**				**Sampled: 08/26/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Isovaleraldehyde	<0.0300	<0.0001694	<0.00004808	IH10	9/10/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0411	0.000232	0.00004722	IH10	9/10/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.173	0.0009767	0.0001988	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.915	0.005166	0.002175	IH10	9/10/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001694	<0.00003447	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.581	0.00328	0.0009312	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0013-12 (W082609-02A)	**Tube**		**Sample Air Volume:176.64L**				**Sampled: 08/26/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001698	<0.00003095		9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.55	0.008775	0.004871	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.184	0.001042	0.0005782	IH10, IH11	9/9/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.37	0.007756	0.004305	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001698	<0.000715	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001698	<0.00007407	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.160	0.0009058	0.0002087		9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.308	0.001744	0.0005912		9/10/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001698	<0.00005925		9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.719	0.00407	0.003314	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0478	0.0002706	0.0002203	IH11	9/9/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.671	0.003799	0.003093	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.663	0.003753	0.0009162	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001698	<0.00004821	IH10	9/10/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0423	0.0002395	0.00004873	IH10	9/10/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0848	0.0004801	0.00009769	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.258	0.001461	0.0006149	IH10	9/10/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001698	<0.00003456	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.300	0.001698	0.0004821	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0013-13 (W082609-03A)	**Tube**		**Sample Air Volume:173.28L**				**Sampled: 08/26/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001731	<0.00003155		9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.12	0.01801	0.009994	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0642	0.0003705	0.0002056	IH10	9/9/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.06	0.01766	0.009802	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetone	1.15	0.006637	0.002794	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001731	<0.0000755	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.192	0.001108	0.0002553		9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001731	<0.0000587		9/10/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001731	<0.00006039		9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.32	0.007618	0.006202	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0571	0.0003295	0.0002683	IH11	9/9/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.26	0.007271	0.00592	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.965	0.005569	0.001359	IH10	9/10/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSI0013-13 (W082609-03A) - cont.		**Tube**		**Sample Air Volume:173.28L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Isovaleraldehyde	<0.0300	<0.0001731	<0.00004915	IH10	9/10/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001731	<0.00003523	IH10	9/10/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.177	0.001021	0.0002079	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.522	0.003012	0.001268	IH10	9/10/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001731	<0.00003523	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.337	0.001945	0.0005521	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0013-14 (082609-A)		**Tube**		**Sample Air Volume:L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--		9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.0321	--	--	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Acetone	0.421	--	--	IH11	9/10/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--		9/10/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--		9/10/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--		9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.144	--	--	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0456	--	--		9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0983	--	--	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	9/10/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	9/10/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--		9/10/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	9/10/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	9/10/2009	zn	0.0300	EPA TO-11A

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSI0013-01 (S082609-01H)		**Tube**		**Sample Air Volume:138.24L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<2.12	<0.01534	<0.01028	IH10	9/10/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01577	<0.01927	IH10	9/10/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0013-02 (S082609-02H)		**Tube**		**Sample Air Volume:211.68L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<2.12	<0.01002	<0.006716	IH10	9/10/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.0103	<0.01258	IH10	9/10/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0013-03 (S082609-03H)		**Tube**		**Sample Air Volume:158.88L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<2.12	<0.01334	<0.008948	IH10	9/10/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01372	<0.01677	IH10	9/10/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0013-04 (W082609-01H)		**Tube**		**Sample Air Volume:140.64L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	

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Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSI0013-04 (W082609-01H) - cont.		**Tube**		**Sample Air Volume:140.64L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	13.0	0.09243	0.06199	IH10	9/10/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.0155	<0.01894	IH10	9/10/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0013-05 (W082609-02H)		**Tube**		**Sample Air Volume:141.60L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<2.12	<0.01497	<0.01004	IH10	9/10/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.0154	<0.01881	IH10	9/10/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0013-06 (W082609-03H)		**Tube**		**Sample Air Volume:128.16L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<2.12	<0.01654	<0.01109	IH10	9/10/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01701	<0.02078	IH10	9/10/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0013-07 (082609-H)		**Tube**		**Sample Air Volume:L**				**Sampled: 08/26/09**
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<2.12	--	--	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	--	--	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
P9I0908-BLK1							
Formaldehyde	0.09586		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Formaldehyde - Back	0.04678		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetaldehyde	0.03676		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acrolein	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acrolein - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetone	0.4046		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetone - Back	<0.300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Propionaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Crotonaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Butyraldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Benzaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Isovaleraldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Valeraldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
o-Tolualdehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
m-Tolualdehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
p-Tolualdehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Hexaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Inorganic Acids by NIOSH 7903 (Modified)							
P9I1026-BLK1							
Hydrochloric Acid	<2.12	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009
Hydrochloric Acid - Back	<2.12	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009
Hydrofluoric Acid	<2.18	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)							
P9I1026-BLK1							
Hydrofluoric Acid - Back	<2.18	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9I0908-DUP1									
Formaldehyde	1.680	1.680	IH11	ug, Total	0.00000312	10	P9I0908	PSI0013-08	09-10-2009
Acetaldehyde	5.710	5.687	IH11	ug, Total	0.404	10	P9I0908	PSI0013-08	09-10-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Acetone	1.120	1.119	IH11	ug, Total	0.0893	10	P9I0908	PSI0013-08	09-10-2009
Propionaldehyde	0.8270	0.8219	IH10	ug, Total	0.619	10	P9I0908	PSI0013-08	09-10-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Butyraldehyde	1.210	1.207	IH10	ug, Total	0.248	10	P9I0908	PSI0013-08	09-10-2009
Benzaldehyde	0.1610	0.1644	IH10	ug, Total	2.09	10	P9I0908	PSI0013-08	09-10-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Valeraldehyde	0.4610	0.4538	IH10	ug, Total	1.57	10	P9I0908	PSI0013-08	09-10-2009
o-Tolualdehyde	0.1650	0.1625	IH10	ug, Total	1.53	10	P9I0908	PSI0013-08	09-10-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Hexaldehyde	1.540	1.534	IH10	ug, Total	0.39	10	P9I0908	PSI0013-08	09-10-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
P9I0908-DUP2									
Formaldehyde	1.740	1.753	IH11	ug, Total	0.744	10	P9I0908	PSI0323-11	09-11-2009
Acetaldehyde	3.680	3.678	IH11	ug, Total	0.0544	10	P9I0908	PSI0323-11	09-11-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Acetone	2.300	2.295	IH11	ug, Total	0.218	10	P9I0908	PSI0323-11	09-11-2009
Propionaldehyde	0.6570	0.6639	IH10	ug, Total	1.04	10	P9I0908	PSI0323-11	09-11-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Benzaldehyde	0.2470	0.2504	IH10	ug, Total	1.37	10	P9I0908	PSI0323-11	09-11-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Valeraldehyde	0.4930	0.4825	IH10	ug, Total	2.15	10	P9I0908	PSI0323-11	09-11-2009
o-Tolualdehyde	0.1970	0.1930	IH10	ug, Total	2.05	10	P9I0908	PSI0323-11	09-11-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Hexaldehyde	1.680	1.682	IH10	ug, Total	0.119	10	P9I0908	PSI0323-11	09-11-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009

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LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9I0908-BS1								
Formaldehyde	0.45	0.4938	IH11	ug, Total	110%	22-134	P9I0908	09-09-2009
Acetaldehyde	0.45	0.4407	IH11	ug, Total	98%	51-142	P9I0908	09-09-2009
Acrolein	0.45	0.2718	IH10, L2	ug, Total	60%	75-125	P9I0908	09-09-2009
Acetone	0.45	0.8665	IH11, L1	ug, Total	193%	75-125	P9I0908	09-09-2009
Propionaldehyde	0.45	0.5533	IH10	ug, Total	123%	67-145	P9I0908	09-09-2009
Crotonaldehyde	0.45	0.3594	IH10	ug, Total	80%	66-146	P9I0908	09-09-2009
Butyraldehyde	0.45	0.4707	IH10	ug, Total	105%	56-141	P9I0908	09-09-2009
Benzaldehyde	0.45	0.4402	IH10	ug, Total	98%	57-142	P9I0908	09-09-2009
Isovaleraldehyde	0.45	0.4153	IH10	ug, Total	92%	66-144	P9I0908	09-09-2009
Valeraldehyde	0.45	0.4358	IH10	ug, Total	97%	66-144	P9I0908	09-09-2009
o-Tolualdehyde	0.45	0.4421	IH10	ug, Total	98%	39-130	P9I0908	09-09-2009
m-Tolualdehyde	0.45	0.4178	IH10	ug, Total	93%	73-143	P9I0908	09-09-2009
p-Tolualdehyde	0.45	0.4143	IH10	ug, Total	92%	66-147	P9I0908	09-09-2009
Hexaldehyde	0.45	0.4287	IH10	ug, Total	95%	65-145	P9I0908	09-09-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4131	IH10	ug, Total	92%	75-144	P9I0908	09-09-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9I1026-BS1								
Hydrochloric Acid	10.3	11.68	IH10	ug, Total	113%	70-130	P9I1026	09-10-2009
Hydrofluoric Acid	10.5	9.701	IH10	ug, Total	92%	70-130	P9I1026	09-10-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9I0908-BSD1												
Formaldehyde		0.5090	IH11	ug, Total	0.45	113%	22-134	3.03	20	P9I0908		09-09-2009
Acetaldehyde		0.4508	IH11	ug, Total	0.45	100%	51-142	2.27	20	P9I0908		09-09-2009
Acrolein		0.2642	IH10, L2	ug, Total	0.45	59%	75-125	2.84	20	P9I0908		09-09-2009
Acetone		0.8088	IH11, L1	ug, Total	0.45	180%	75-125	6.89	20	P9I0908		09-09-2009
Propionaldehyde		0.5831	IH10	ug, Total	0.45	130%	67-145	5.24	20	P9I0908		09-09-2009
Crotonaldehyde		0.3612	IH10	ug, Total	0.45	80%	66-146	0.5	20	P9I0908		09-09-2009
Butyraldehyde		0.4680	IH10	ug, Total	0.45	104%	56-141	0.575	20	P9I0908		09-09-2009
Benzaldehyde		0.4304	IH10	ug, Total	0.45	96%	57-142	2.25	20	P9I0908		09-09-2009
Isovaleraldehyde		0.4164	IH10	ug, Total	0.45	93%	66-144	0.265	20	P9I0908		09-09-2009
Valeraldehyde		0.4405	IH10	ug, Total	0.45	98%	66-144	1.07	20	P9I0908		09-09-2009
o-Tolualdehyde		0.4459	IH10	ug, Total	0.45	99%	39-130	0.856	20	P9I0908		09-09-2009
m-Tolualdehyde		0.4201	IH10	ug, Total	0.45	93%	73-143	0.549	20	P9I0908		09-09-2009
p-Tolualdehyde		0.4152	IH10	ug, Total	0.45	92%	66-147	0.217	20	P9I0908		09-09-2009
Hexaldehyde		0.4346	IH10	ug, Total	0.45	97%	65-145	1.37	20	P9I0908		09-09-2009
2,5-Dimethyl Benzaldehyde		0.4193	IH10	ug, Total	0.45	93%	75-144	1.49	20	P9I0908		09-09-2009
Inorganic Acids by NIOSH 7903 (Modified)												

TestAmerica
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4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0013 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/01/09 Reported: 09/15/09 14:49	

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9I1026-BSD1												
Hydrochloric Acid		11.75	IH10	ug, Total	10.3	114%	70-130	0.598	30	P9I1026		09-10-2009
Hydrofluoric Acid		9.861	IH10	ug, Total	10.5	94%	70-130	1.64	30	P9I1026		09-10-2009

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0013 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/01/09 Reported: 09/15/09 14:49	

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0013 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/01/09 Reported: 09/15/09 14:49	

DATA QUALIFIERS AND DEFINITIONS

IH10	Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.
IH11	Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
RL7	Sample required dilution due to high concentration of target analyte.

ADDITIONAL COMMENTS

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~927~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2715 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0700~~
~~Fax: (216) 737-0109~~

№ 8489

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VIA: Fed Ex
Air Bill No.: 8694 2482 7549
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

~~PS0013~~ PSI0013

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SW-Surface Water, GW-Groundwater, SD-Sediment, WW-Wastewater, O-Other Air

Containers Intact: At L&A Y/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method	HF	HCl	NIOSH 7903	Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate	
S082609-01H				8/26/09	480	School	1				X	X	X			0.288 l/min	01
S082609-02H				8/26/09	480	School	1				X	X	X			0.441 "	02
S082609-03H				8/26/09	480	School	1				X	X	X			0.331 "	03
W082609-01H				8/26/09	480	Wetland	1				X	X	X			0.293 l/min	04
W082609-02H				8/26/09	480	Wetland	1				X	X	X			0.295 "	05
W082609-03H				8/26/09	480	Wetland	1				X	X	X			0.267 "	06
082609A-H				8/26/09	—	Field Blank	1				X	X	X			No Flow Field Blank	07

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	8/31/09 1600		9/1/09 1030				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments:

Distributor: White - File; Yellow - Lab

13.4°C Custody Seals

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~925~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2115 Freeman Avenue~~
~~Cleveland, OH 44113~~
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~~Fax: (216) 787-0109~~

№ 8488

Sent To: Test America (Lab Name)
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Air Bill No.: 8694 2482 7549
Page 2 of 2

CHAIN-OF-CUSTODY RECORD

~~PS0013~~ DSH PSI0013

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, Other AIR

Containers Intact: At L&A (Y)/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis: Aldehyde	Analysis: Ketone	Analysis: Carbonyl										Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate	
										TO-11	TO-11	TO-11													
S082609-01A				8/26/09	480	School	1			X	X	X												0.234 l/min	08
S082609-02A				8/26/09	480	School	1			X	X	X												0.473 "	09
S082609-03A				8/26/09	480	School	1			X	X	X												0.481 "	10
W082609-01A				8/26/09	480	Wetland	1			X	X	X												0.369 l/min	11
W082609-02A				8/26/09	480	Wetland	1			X	X	X												0.368 "	12
W082609-03A				8/26/09	480	Wetland	1			X	X	X												0.361 "	13
082609A-A				8/26/09	/	Field Blank	1			X	X	X												NO Flow Field Blank	14

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	8/31/09 1600		9/1/09 10:30				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments:

Distributor: White - File; Yellow - Lab

Custody Seals 13.4°c

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #29

October 21, 2009

APPENDIX C. Laboratory Analytical Results from Event #139:
Tuesday, September 1, 2009 to Wednesday, September 2, 2009

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H9I040216

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LKC77	001	SU-C090109	09/01/09	
LKC8Q	002	SU-G090109	09/01/09	
LKC8R	003	SU-W090109	09/01/09	
LKC8T	004	SU-COC090109	09/01/09	
LKC8V	005	SU-S090109	09/01/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H9I040216

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 09/08/09 exhibited a % difference of > 30% for acetone and hexachlorobutadiene, the results were within the LCS acceptance limits.

Although hexachlorobutadiene is flagged as being outside recovery limits in the laboratory control sample for batch 9252101, the laboratory control sample is in control. The standard operating procedure allows for 3 analytes to be outside the control limits, but within marginal exceedence limit.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C090109

GC/MS Volatiles

Lot-Sample #	H9I040216 - 001	Work Order #	LKC771AA	Matrix.....:	AIR

Date Sampled...:	09/01/2009	Date Received..:	09/04/2009
Prep Date.....:	09/08/2009	Analysis Date...	09/08/2009
Prep Batch #.....:	9252101		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**8.2**	**5.0**	**19**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.33**	**0.20**	**1.9**		**1.1**
n-Heptane	**0.14**	**0.50**	**0.59**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.23**	**0.50**	**0.82**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.056**	**0.50**	**0.26**	**J**	**2.3**
tert-Butyl alcohol	**0.14**	**2.0**	**0.41**	**J**	**6.1**
Methylene chloride	**2.4**	**0.50**	**8.3**		**1.7**
Benzene	**0.25**	**0.20**	**0.79**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.37**	**0.20**	**1.4**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.083**	**0.20**	**0.63**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.57**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.078**	**0.20**	**0.34**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.21**	**0.20**	**0.92**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.86**	**1.0**	**2.5**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.14**	**0.20**	**0.88**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C090109

GC/MS Volatiles

Lot-Sample # H9I040216 - 001 Work Order # LKC771AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.57**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.057**	**0.50**	**0.20**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.59**	**0.20**	**2.9**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	94	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-G090109

GC/MS Volatiles

Lot-Sample #	H9I040216 - 002	Work Order #	LKC8Q1AA	Matrix.....:	AIR

Date Sampled...:	09/01/2009	Date Received..:	09/04/2009
Prep Date.....:	09/08/2009	Analysis Date...	09/08/2009
Prep Batch #.....:	9252101		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**11**	**5.0**	**26**		**12**
Ethylbenzene	**0.19**	**0.20**	**0.81**	**J**	**0.87**
Trichlorofluoromethane	**0.31**	**0.20**	**1.7**		**1.1**
n-Heptane	**0.38**	**0.50**	**1.6**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.57**	**0.50**	**2.0**		**1.8**
2,2,4-Trimethylpentane	**0.25**	**0.50**	**1.2**	**J**	**2.3**
tert-Butyl alcohol	**0.14**	**2.0**	**0.42**	**J**	**6.1**
Methylene chloride	**1.9**	**0.50**	**6.7**		**1.7**
Benzene	**0.50**	**0.20**	**1.6**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**1.0**	**0.20**	**3.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.084**	**0.20**	**0.64**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.23**	**0.20**	**1.1**		**0.98**
1,3,5-Trimethylbenzene	**0.070**	**0.20**	**0.34**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.23**	**0.20**	**0.99**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.64**	**0.20**	**2.8**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.9**	**1.0**	**5.6**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.15**	**0.50**	**0.61**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.63**	**0.50**	**2.0**		**1.6**
Carbon tetrachloride	**0.14**	**0.20**	**0.90**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G090109

GC/MS Volatiles

Lot-Sample # H9I040216 - 002 Work Order # LKC8Q1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.46**	**0.50**	**0.95**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.15**	**0.50**	**0.51**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.58**	**0.20**	**2.9**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W090109

GC/MS Volatiles

Lot-Sample #	H9I040216 - 003	Work Order #	LKC8R1AA	Matrix.....:	AIR

Date Sampled...:	09/01/2009	Date Received..:	09/04/2009
Prep Date.....:	09/08/2009	Analysis Date...	09/08/2009
Prep Batch #.....:	9252101		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**11**	**5.0**	**27**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	ND	0.50	ND		1.8
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**1.4**	**0.50**	**5.0**		**1.7**
Benzene	**0.19**	**0.20**	**0.61**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	**0.41**	**1.0**	**1.2**	**J**	**2.9**
Toluene	**0.056**	**0.20**	**0.21**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**0.20**	**0.49**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.79**	**1.0**	**2.3**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.057**	**0.50**	**0.18**	**J**	**1.6**

Lawhon & Associates, Inc.

Client Sample ID: SU-W090109

GC/MS Volatiles

Lot-Sample # H9I040216 - 003 Work Order # LKC8R1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND		1.3
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.68**	**0.50**	**1.4**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.62**	**0.20**	**3.1**		**0.99**
1,1-Dichloroethane	**0.030**	**0.20**	**0.12**	**J**	**0.81**
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COC090109

GC/MS Volatiles

Lot-Sample # H9I040216 - 004 **Work Order #** LKC8T1AA **Matrix.....:** AIR

Date Sampled...: 09/01/2009 **Date Received..:** 09/04/2009
Prep Date.....: 09/08/2009 **Analysis Date...** 09/08/2009
Prep Batch #.....: 9252101
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**5.7**	**5.0**	**14**		**12**
Ethylbenzene	**0.081**	**0.20**	**0.35**	**J**	**0.87**
Trichlorofluoromethane	**0.40**	**0.20**	**2.2**		**1.1**
n-Heptane	**0.18**	**0.50**	**0.73**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.25**	**0.50**	**0.88**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.051**	**0.50**	**0.24**	**J**	**2.3**
tert-Butyl alcohol	**0.088**	**2.0**	**0.27**	**J**	**6.1**
Methylene chloride	**2.4**	**0.50**	**8.5**		**1.7**
Benzene	**0.23**	**0.20**	**0.74**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.32**	**0.20**	**1.2**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.079**	**0.20**	**0.61**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.22**	**0.20**	**1.1**		**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.081**	**0.20**	**0.35**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.20**	**0.20**	**0.88**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.56**	**1.0**	**1.6**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.12**	**0.20**	**0.76**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COC090109

GC/MS Volatiles

Lot-Sample # H9I040216 - 004 Work Order # LKC8T1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	**0.61**	**0.50**	**1.3**	**1.0**
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	**0.63**	**0.20**	**3.1**	**0.99**
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S090109

GC/MS Volatiles

Lot-Sample #	H91040216 - 005	Work Order #	LKC8V1AA	Matrix.....:	AIR

Date Sampled...:	09/01/2009	Date Received..:	09/04/2009
Prep Date.....:	09/08/2009	Analysis Date...	09/08/2009
Prep Batch #.....:	9252101		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	6.3	5.0	15		12
Ethylbenzene	0.12	0.20	0.53	J	0.87
Trichlorofluoromethane	0.32	0.20	1.8		1.1
n-Heptane	0.32	0.50	1.3	J	2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	0.36	0.50	1.3	J	1.8
2,2,4-Trimethylpentane	0.10	0.50	0.48	J	2.3
tert-Butyl alcohol	0.095	2.0	0.29	J	6.1
Methylene chloride	1.4	0.50	4.9		1.7
Benzene	0.44	0.20	1.4		0.64
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	0.093	0.20	0.63	J	1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	0.69	0.20	2.6		0.75
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.082	0.20	0.63	J	1.5
1,2,4-Trimethylbenzene	0.13	0.20	0.62	J	0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	0.14	0.20	0.60	J	0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	0.34	0.20	1.5		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	0.67	1.0	2.0	J	2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	0.038	0.50	0.12	J	1.6
Carbon tetrachloride	0.14	0.20	0.90	J	1.3

Lawhon & Associates, Inc.

Client Sample ID: SU-S090109

GC/MS Volatiles

Lot-Sample # H9I040216 - 005 **Work Order #** LKC8V1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.70**	**0.50**	**1.4**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.11**	**0.50**	**0.39**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.62**	**0.20**	**3.1**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H9I090000 - 101B	**Work Order #**	LKGRT1AA	**Matrix.....:**	AIR
	09/03/2009	**Date Received..:**	09/04/2009		
Prep Date.....:	09/08/2009	**Analysis Date...**	09/08/2009		
Prep Batch #.....:	9252101				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Acetone	ND	5.0	ND	12
Ethylbenzene	ND	0.20	ND	0.87
Trichlorofluoromethane	ND	0.20	ND	1.1
n-Heptane	ND	0.50	ND	2.0
Hexachlorobutadiene	ND	1.0	ND	11
n-Hexane	ND	0.50	ND	1.8
2,2,4-Trimethylpentane	ND	0.50	ND	2.3
tert-Butyl alcohol	ND	2.0	ND	6.1
Methylene chloride	ND	0.50	ND	1.7
Benzene	ND	0.20	ND	0.64
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
Tetrachloroethene	ND	0.20	ND	1.4
Tetrahydrofuran	ND	1.0	ND	2.9
Toluene	ND	0.20	ND	0.75
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
1,1,1-Trichloroethane	ND	0.20	ND	1.1
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Trichloroethene	ND	0.20	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
Vinyl chloride	ND	0.20	ND	0.51
o-Xylene	ND	0.20	ND	0.87
Methyl tert-butyl ether	ND	1.0	ND	3.6
m-Xylene & p-Xylene	ND	0.20	ND	0.87
Bromodichloromethane	ND	0.20	ND	1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
2-Butanone (MEK)	ND	1.0	ND	2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND	2.0
Vinyl bromide	ND	0.20	ND	0.87
Bromoform	ND	0.20	ND	2.1
Bromomethane	ND	0.20	ND	0.78
1,3-Butadiene	ND	0.40	ND	0.88
4-Ethyltoluene	ND	0.40	ND	2.0
Carbon disulfide	ND	0.50	ND	1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9I090000 - 101B Work Order # LKGRT1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	87	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9I090000 - 101C Work Order # LKGRT1AC Matrix.....: AIR

	09/03/2009	Date Received..:	09/04/2009
Prep Date.....:	09/08/2009	Analysis Date...	09/08/2009
Prep Batch #.....:	9252101		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY		RECOVERY LIMITS
trans-1,3-Dichloropropene	2.50	2.50	11	11	100		70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.50	2.36	17	17	94		60 - 140
Acetone	2.50	3.28	5.9	7.8	131		60 - 140
Ethylbenzene	2.50	2.57	11	11	103		70 - 130
Trichlorofluoromethane	2.50	3.19	14	18	128		60 - 140
n-Heptane	2.50	2.09	10	8.5	83		70 - 130
Hexachlorobutadiene	2.50	3.70	27	39	148	a	60 - 140
n-Hexane	2.50	2.13	8.8	7.5	85		70 - 130
2,2,4-Trimethylpentane	2.50	2.41	12	11	96		70 - 130
tert-Butyl alcohol	2.50	2.23	7.6	6.8	89		60 - 140
Methylene chloride	2.50	2.31	8.7	8.0	92		70 - 130
Benzene	2.50	2.64	8.0	8.4	106		70 - 130
Styrene	2.50	2.42	11	10	97		70 - 130
1,1,2,2-Tetrachloroethane	2.50	2.67	17	18	107		70 - 130
Tetrachloroethene	2.50	2.51	17	17	100		70 - 130
Tetrahydrofuran	2.50	2.01	7.4	5.9	80		70 - 130
Toluene	2.50	2.45	9.4	9.2	98		70 - 130
1,2,4-Trichlorobenzene	2.50	2.88	19	21	115		60 - 140
1,1,1-Trichloroethane	2.50	3.03	14	17	121		70 - 130
1,1,2-Trichloroethane	2.50	2.48	14	14	99		70 - 130
Trichloroethene	2.50	2.53	13	14	101		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.70	19	21	108		70 - 130
1,2,4-Trimethylbenzene	2.50	2.95	12	15	118		70 - 130
1,3,5-Trimethylbenzene	2.50	2.69	12	13	107		70 - 130
Vinyl chloride	2.50	2.45	6.4	6.3	98		70 - 130
o-Xylene	2.50	2.73	11	12	109		70 - 130
Methyl tert-butyl ether	2.50	2.60	9.0	9.4	104		60 - 140
m-Xylene & p-Xylene	5.00	5.47	22	24	109		70 - 130
Bromodichloromethane	2.50	2.92	17	20	117		70 - 130
1,2-Dibromoethane (EDB)	2.50	2.64	19	20	106		70 - 130
2-Butanone (MEK)	2.50	2.34	7.4	6.9	94		60 - 140
4-Methyl-2-pentanone (MIBK)	2.50	1.84	10	7.6	74		60 - 140
Vinyl bromide	2.50	2.80	11	12	112		60 - 140
Bromoform	2.50	2.04	26	21	82		70 - 130
Bromomethane	2.50	3.05	9.7	12	122		70 - 130
1,3-Butadiene	2.50	2.35	5.5	5.2	94		60 - 140
4-Ethyltoluene	2.50	2.79	12	14	112		70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9I090000 - 101C Work Order # LKGRT1AC Matrix.....: AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	2.50	2.45	7.8	7.6	98	70 - 130
Carbon tetrachloride	2.50	2.38	16	15	95	70 - 130
Chlorobenzene	2.50	2.45	12	11	98	70 - 130
Dibromochloromethane	2.50	2.90	21	25	116	70 - 130
Chloroethane	2.50	2.63	6.6	6.9	105	70 - 130
Chloroform	2.50	2.82	12	14	113	70 - 130
Chloromethane	2.50	2.32	5.2	4.8	93	60 - 140
3-Chloropropene	2.50	2.33	7.8	7.3	93	70 - 130
2-Chlorotoluene	2.50	2.65	13	14	106	70 - 130
Cyclohexane	2.50	2.29	8.6	7.9	91	70 - 130
1,2-Dichlorobenzene	2.50	2.56	15	15	102	70 - 130
1,3-Dichlorobenzene	2.50	2.44	15	15	98	70 - 130
1,4-Dichlorobenzene	2.50	2.49	15	15	100	70 - 130
Dichlorodifluoromethane	2.50	2.97	12	15	119	60 - 140
1,1-Dichloroethane	2.50	2.39	10	9.7	96	70 - 130
1,2-Dichloroethane	2.50	3.25	10	13	130	70 - 130
1,1-Dichloroethene	2.50	2.42	9.9	9.6	97	70 - 130
cis-1,2-Dichloroethene	2.50	2.42	9.9	9.6	97	70 - 130
trans-1,2-Dichloroethene	2.50	2.51	9.9	9.9	100	70 - 130
1,2-Dichloropropane	2.50	2.43	12	11	97	70 - 130
cis-1,3-Dichloropropene	2.50	2.56	11	12	102	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	60 - 140

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

H9I040216

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

№ 8490

~~929~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2115 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7560
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SW-Surface Water, GW-Groundwater, SD-Sediment, WW-Wastewater, O-Other AIR

Containers Intact: At L&A (Y/N), At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Method TO-15	Analysis VOC											Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C090109	-			9/1/09	1440	Cell Tower	1			X													7471
SU-G090109	-			9/1/09	1440	Campground	1			X													93149
SU-W090109				9/1/09	1440	Wetland	1			X													12822
SU-CO090109				9/1/09	1440	Co-Located Cell Tower	1			X													7477
SU-S090109				9/1/09	*960	School	1			X													93132

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/3/09 800	[signature]	9/4/09 9:45				
[signature]	9/3/09 15:00						

Comments:
* School sample time is an estimation because low-battery f... caused the solenoid to open and close repeatedly.

Distributor: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

1491 D40216

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr., Suite 190
City/State/Zip: Westerville, Ohio 43081
Phone: (614) 818-5200
FAX: (614) 818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

d By: Rick Jones

2 of 2 COCs

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C090109	9/1/09	15:00	15:00	-30	-5.5	K390	7471	X											
SU-G090109	↓	↓	↓	-30	-4.0	K352	93149	X											
SU-W090109	↓	↓	↓	-30	-1.5	K265	12822	X											
SU-COC090109	↓	↓	↓	-30	-5.0	K303A	7477	X											
SU-S090109	↓	*16 hours		-30	-8.5	K287	93132	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

1 BOX REC'D AMBIENT
FEDEX # 8694 2492 7560
CUSTODY SEAL INTACT
T/O 9/4/09

6 CANS, 6 FLOWS

Special Instructions/QC Requirements & Comments:
*School sample time is an estimation because low-battery failure caused the solenoid to open and close repeatedly.
- Return Can # 12157, did not use.

Canisters Shipped by:	Date/Time: 9/3/09 15:00	Canisters Received by:	9/4/09 9:45
Samples Relinquished by:	Date/Time: 9/3/09 8:00	Received by:	
Relinquished by:	Date/Time:	Received by:	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

September 17, 2009

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order: PSI0323
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 09/04/09

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 11.6°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

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Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PSI0323
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 09/04/09
Reported: 09/17/09 17:36

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C090109-01H	PSI0323-01	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
C090109-02H	PSI0323-02	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
C090109-03H	PSI0323-03	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
G090109-01H	PSI0323-04	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
G090109-02H	PSI0323-05	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
G090109-03H	PSI0323-06	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
W090109-01H	PSI0323-07	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
W090109-02H	PSI0323-08	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
W090109-03H	PSI0323-09	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
090109A-H	PSI0323-10	09/01/09	Silica Gel tube, 200/400 mg Specially cleaned
C090109-01A	PSI0323-11	09/01/09	DNPH Silica Gel Tube, 450 mg
C090109-02A	PSI0323-12	09/01/09	DNPH Silica Gel Tube, 450 mg
C090109-03A	PSI0323-13	09/01/09	DNPH Silica Gel Tube, 450 mg
G090109-01A	PSI0323-14	09/01/09	DNPH Silica Gel Tube, 450 mg
G090109-02A	PSI0323-15	09/01/09	DNPH Silica Gel Tube, 450 mg
G090109-03A	PSI0323-16	09/01/09	DNPH Silica Gel Tube, 450 mg
W090109-01A	PSI0323-17	09/01/09	DNPH Silica Gel Tube, 450 mg
W090109-02A	PSI0323-18	09/01/09	DNPH Silica Gel Tube, 450 mg
W090109-03A	PSI0323-19	09/01/09	DNPH Silica Gel Tube, 450 mg
090109-A	PSI0323-20	09/01/09	DNPH Silica Gel Tube, 450 mg

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0323 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/04/09 Reported: 09/17/09 17:36	

ANALYTICAL REPORT

Aldehydes and Ketones by EPA TO-11A (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-11 (C090109-01A)		**Tube**		**Sample Air Volume:210.72L**			**Sampled: 09/01/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/09/09 10:28**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001424	<0.00002594	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.74	0.01775	0.009851	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0556	0.0002639	0.0001465	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.68	0.01746	0.009693	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	2.94	0.01395	0.005873	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.644	0.003056	0.001287	IH10	9/10/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.30	0.01091	0.004595	IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001424	<0.00006209	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.247	0.001172	0.0002701	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001424	<0.00004827	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001424	<0.00004966	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.80	0.008542	0.006955	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0566	0.0002686	0.0002187	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.74	0.008257	0.006723	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.68	0.007973	0.001946	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001424	<0.00004041	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001424	<0.00002897	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.197	0.0009349	0.0001902	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.657	0.003118	0.001313	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001424	<0.00002897	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.493	0.00234	0.0006641	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0323-12 (C090109-02A)		**Tube**		**Sample Air Volume:185.76L**			**Sampled: 09/01/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/09/09 10:28**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001615	<0.00002943	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.05	0.005652	0.003137	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0528	0.0002842	0.0001578	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.993	0.005346	0.002967	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	0.478	0.002573	0.001083	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001615	<0.00007043	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.112	0.0006029	0.0001389	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.267	0.001437	0.0004874	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001615	<0.00005634	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.591	0.003182	0.00259	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0483	0.00026	0.0002117	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.543	0.002923	0.00238	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.428	0.002304	0.0005624	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001615	<0.00004585	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001615	<0.00003286	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0766	0.0004124	0.00008391	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.206	0.001109	0.0004668	IH10	9/11/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0323 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/04/09 Reported: 09/17/09 17:36	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-12 (C090109-02A) - cont.		**Tube**		**Sample Air Volume:185.76L**			**Sampled: 09/01/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/09/09 10:28**	
p-Tolualdehyde	<0.0300	<0.0001615	<0.00003286	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.133	0.000716	0.0002032	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0323-13 (C090109-03A)		**Tube**		**Sample Air Volume:220.32L**			**Sampled: 09/01/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/09/09 10:28**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001362	<0.00002481	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.63	0.01648	0.009145	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0374	0.0001698	0.00009422	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.59	0.01629	0.009044	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	2.64	0.01198	0.005044	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.397	0.001802	0.0007586	IH10	9/10/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.24	0.01017	0.00428	IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001362	<0.00005938	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.180	0.000817	0.0001882	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001362	<0.00004617	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001362	<0.0000475	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.42	0.006445	0.005248	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0582	0.0002642	0.0002151	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.36	0.006173	0.005026	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.04	0.00472	0.001152	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001362	<0.00003865	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001362	<0.00002771	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.194	0.0008805	0.0001792	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.566	0.002569	0.001081	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001362	<0.00002771	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.351	0.001593	0.0004522	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0323-14 (G090109-01A)		**Tube**		**Sample Air Volume:131.04L**			**Sampled: 09/01/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/09/09 10:28**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002289	<0.00004172	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.12	0.02381	0.01322	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0417	0.0003182	0.0001766	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.08	0.0235	0.01305	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	2.93	0.02236	0.009413	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.673	0.005136	0.002162	IH10	9/10/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.26	0.01725	0.00726	IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002289	<0.00009984	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.233	0.001778	0.0004097	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0002289	<0.00007762	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002289	<0.00007986	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.82	0.01389	0.01131	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0565	0.0004312	0.000351	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.76	0.01343	0.01094	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.40	0.01068	0.002608	IH10	9/11/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0323 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/04/09 Reported: 09/17/09 17:36	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-14 (G090109-01A) - cont.		**Tube**		**Sample Air Volume:131.04L**			**Sampled: 09/01/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/09/09 10:28**	
Isovaleraldehyde	<0.0300	<0.0002289	<0.00006499	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0340	0.0002595	0.0000528	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.148	0.001129	0.0002298	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.490	0.003739	0.001574	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002289	<0.00004659	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.403	0.003075	0.000873	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0323-15 (G090109-02A)		**Tube**		**Sample Air Volume:122.4L**			**Sampled: 09/01/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/09/09 10:28**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002451	<0.00004466	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.77	0.01446	0.008026	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0410	0.000335	0.0001859	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.73	0.01413	0.007845	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	1.11	0.009069	0.003818	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.392	0.003203	0.001348	IH10	9/10/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.720	0.005882	0.002476	IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002451	<0.0001069	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.122	0.0009967	0.0002296	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.401	0.003276	0.001111	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002451	<0.0000855	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.927	0.007574	0.006166	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0474	0.0003873	0.0003153	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.880	0.00719	0.005854	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.582	0.004755	0.001161	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002451	<0.00006958	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002451	<0.00004988	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0777	0.0006348	0.0001292	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.284	0.00232	0.0009768	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002451	<0.00004988	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.250	0.002042	0.0005798	IH10	9/11/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-16 (G090109-03A)		**Tube**		**Sample Air Volume:154.56L**			**Sampled: 09/01/09**	
							Prepared: 09/09/09 10:28	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001941	<0.00003537	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.53	0.02931	0.01627	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0418	0.0002704	0.0001501	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.49	0.02905	0.01612	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	2.24	0.01449	0.006101	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001941	<0.00008465	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.223	0.001443	0.0003324	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001941	<0.00006581	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001941	<0.00006771	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.88	0.01216	0.009903	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0504	0.0003261	0.0002655	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.83	0.01184	0.00964	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.20	0.007764	0.001895	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0562	0.0003636	0.0001032	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001941	<0.0000395	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.180	0.001165	0.000237	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.653	0.004225	0.001779	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001941	<0.0000395	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.388	0.00251	0.0007126	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0323-17 (W090109-01A)		**Tube**		**Sample Air Volume:191.04L**			**Sampled: 09/01/09**	
							Prepared: 09/09/09 10:28	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000157	<0.00002861	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.34	0.01748	0.009704	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0333	0.0001743	0.00009675	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.31	0.01733	0.009617	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	2.48	0.01298	0.005465	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.531	0.00278	0.00117	IH10	9/10/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.95	0.01021	0.004297	IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000157	<0.00006848	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.253	0.001324	0.0003051	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000157	<0.00005325	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000157	<0.00005478	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.68	0.008794	0.00716	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0483	0.0002528	0.0002058	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.63	0.008532	0.006947	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.34	0.007014	0.001712	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000157	<0.00004458	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000157	<0.00003196	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.156	0.0008166	0.0001662	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.529	0.002769	0.001166	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000157	<0.00003196	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.446	0.002335	0.0006627	IH10	9/11/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-18 (W090109-02A)		**Tube**		**Sample Air Volume:173.76L**			**Sampled: 09/01/09**	
							Prepared: 09/09/09 10:28	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001727	<0.00003146	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.649	0.003735	0.002073	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0313	0.0001801	0.00009998	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.618	0.003557	0.001974	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	0.563	0.00324	0.001364	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001727	<0.0000753	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0853	0.0004909	0.0001131	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001727	<0.00005854	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001727	<0.00006023	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.373	0.002147	0.001748	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0463	0.0002665	0.0002169	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.327	0.001882	0.001532	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.249	0.001433	0.0003498	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001727	<0.00004901	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001727	<0.00003513	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0406	0.0002337	0.00004755	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.100	0.0005755	0.0002423	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001727	<0.00003513	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.109	0.0006273	0.0001781	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0323-19 (W090109-03A)		**Tube**		**Sample Air Volume:174.24L**			**Sampled: 09/01/09**	
							Prepared: 09/09/09 10:28	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001722	<0.00003137	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.65	0.02095	0.01163	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0358	0.0002055	0.000114	IH10	9/10/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.61	0.02072	0.0115	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	1.94	0.01113	0.004687	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001722	<0.00007509	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.162	0.0009298	0.0002142	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001722	<0.00005838	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001722	<0.00006006	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.52	0.008724	0.007103	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0558	0.0003202	0.0002607	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.46	0.008379	0.006822	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.947	0.005435	0.001327	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001722	<0.00004888	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001722	<0.00003504	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.173	0.0009929	0.000202	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.500	0.00287	0.001208	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001722	<0.00003504	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.317	0.001819	0.0005165	IH10	9/11/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-20 (090109-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 09/01/09**	
							Prepared: 09/09/09 10:28	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.0306	--	--	IH10, IH11	9/11/2009	zn	0.0300	EPA TO-11A
Acetone	0.458	--	--	IH10, IH11	9/11/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.120	--	--	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0412	--	--	IH11	9/10/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0791	--	--	IH11	9/11/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	9/11/2009	zn	0.0300	EPA TO-11A

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-01 (C090109-01H)		**Tube**		**Sample Air Volume:144.48L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	2.16	0.01495	0.01003	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01509	<0.01844	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-02 (C090109-02H)		**Tube**		**Sample Air Volume:160.8L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	<0.01318	<0.008841	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01356	<0.01657	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-03 (C090109-03H)		**Tube**		**Sample Air Volume:153.6L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	<0.0138	<0.009256	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01419	<0.01734	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-04 (G090109-01H)		**Tube**		**Sample Air Volume:119.04L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	<0.01781	<0.01194	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01831	<0.02238	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-05 (G090109-02H)		**Tube**		**Sample Air Volume:107.04L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	<0.01981	<0.01328	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02037	<0.02489	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-06 (G090109-03H)		**Tube**		**Sample Air Volume:116.64L**			**Sampled: 09/01/09**	

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Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0323-06 (G090109-03H) - cont.		**Tube**		**Sample Air Volume:116.64L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	<0.01818	<0.01219	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01869	<0.02284	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-07 (W090109-01H)		**Tube**		**Sample Air Volume:131.52L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	2.28	0.01734	0.01163	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01658	<0.02025	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-08 (W090109-02H)		**Tube**		**Sample Air Volume:131.04L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	<0.01618	<0.01085	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01664	<0.02033	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-09 (W090109-03H)		**Tube**		**Sample Air Volume:114.72L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	<0.01848	<0.01239	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.019	<0.02322	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0323-10 (090109A-H)		**Tube**		**Sample Air Volume:L**			**Sampled: 09/01/09**	
							Prepared: 09/10/09 12:10	
Hydrochloric Acid	<2.12	--	--	IH10	9/11/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	--	--	IH10	9/11/2009	AY	2.18	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
P9I0908-BLK1							
Formaldehyde	0.09586		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Formaldehyde - Back	0.04678		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetaldehyde	0.03676		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acrolein	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acrolein - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetone	0.4046		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Acetone - Back	<0.300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Propionaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Crotonaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Butyraldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Benzaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Isovaleraldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Valeraldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
o-Tolualdehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
m-Tolualdehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
p-Tolualdehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Hexaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9I0908		P9I0908-BLK1	09-09-2009
Inorganic Acids by NIOSH 7903 (Modified)							
P9I1026-BLK1							
Hydrochloric Acid	<2.12	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009
Hydrochloric Acid - Back	<2.12	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009
Hydrofluoric Acid	<2.18	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)							
P9I1026-BLK1							
Hydrofluoric Acid - Back	<2.18	IH10	ug, Total	P9I1026		P9I1026-BLK1	09-10-2009

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9I0908-DUP1									
Formaldehyde	1.680	1.680	IH11	ug, Total	0.00000312	10	P9I0908	PSI0013-08	09-10-2009
Acetaldehyde	5.710	5.687	IH11	ug, Total	0.404	10	P9I0908	PSI0013-08	09-10-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Acetone	1.120	1.119	IH11	ug, Total	0.0893	10	P9I0908	PSI0013-08	09-10-2009
Propionaldehyde	0.8270	0.8219	IH10	ug, Total	0.619	10	P9I0908	PSI0013-08	09-10-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Butyraldehyde	1.210	1.207	IH10	ug, Total	0.248	10	P9I0908	PSI0013-08	09-10-2009
Benzaldehyde	0.1610	0.1644	IH10	ug, Total	2.09	10	P9I0908	PSI0013-08	09-10-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Valeraldehyde	0.4610	0.4538	IH10	ug, Total	1.57	10	P9I0908	PSI0013-08	09-10-2009
o-Tolualdehyde	0.1650	0.1625	IH10	ug, Total	1.53	10	P9I0908	PSI0013-08	09-10-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
Hexaldehyde	1.540	1.534	IH10	ug, Total	0.39	10	P9I0908	PSI0013-08	09-10-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0013-08	09-10-2009
P9I0908-DUP2									
Formaldehyde	1.740	1.753	IH11	ug, Total	0.744	10	P9I0908	PSI0323-11	09-11-2009
Acetaldehyde	3.680	3.678	IH11	ug, Total	0.0544	10	P9I0908	PSI0323-11	09-11-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Acetone	2.300	2.295	IH11	ug, Total	0.218	10	P9I0908	PSI0323-11	09-11-2009
Propionaldehyde	0.6570	0.6639	IH10	ug, Total	1.04	10	P9I0908	PSI0323-11	09-11-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Benzaldehyde	0.2470	0.2504	IH10	ug, Total	1.37	10	P9I0908	PSI0323-11	09-11-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Valeraldehyde	0.4930	0.4825	IH10	ug, Total	2.15	10	P9I0908	PSI0323-11	09-11-2009
o-Tolualdehyde	0.1970	0.1930	IH10	ug, Total	2.05	10	P9I0908	PSI0323-11	09-11-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009
Hexaldehyde	1.680	1.682	IH10	ug, Total	0.119	10	P9I0908	PSI0323-11	09-11-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I0908	PSI0323-11	09-11-2009

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LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9I0908-BS1								
Formaldehyde	0.45	0.4938	IH11	ug, Total	110%	22-134	P9I0908	09-09-2009
Acetaldehyde	0.45	0.4407	IH11	ug, Total	98%	51-142	P9I0908	09-09-2009
Acrolein	0.45	0.2718	IH10, L2	ug, Total	60%	75-125	P9I0908	09-09-2009
Acetone	0.45	0.8665	IH11, L1	ug, Total	193%	75-125	P9I0908	09-09-2009
Propionaldehyde	0.45	0.5533	IH10	ug, Total	123%	67-145	P9I0908	09-09-2009
Crotonaldehyde	0.45	0.3594	IH10	ug, Total	80%	66-146	P9I0908	09-09-2009
Butyraldehyde	0.45	0.4707	IH10	ug, Total	105%	56-141	P9I0908	09-09-2009
Benzaldehyde	0.45	0.4402	IH10	ug, Total	98%	57-142	P9I0908	09-09-2009
Isovaleraldehyde	0.45	0.4153	IH10	ug, Total	92%	66-144	P9I0908	09-09-2009
Valeraldehyde	0.45	0.4358	IH10	ug, Total	97%	66-144	P9I0908	09-09-2009
o-Tolualdehyde	0.45	0.4421	IH10	ug, Total	98%	39-130	P9I0908	09-09-2009
m-Tolualdehyde	0.45	0.4178	IH10	ug, Total	93%	73-143	P9I0908	09-09-2009
p-Tolualdehyde	0.45	0.4143	IH10	ug, Total	92%	66-147	P9I0908	09-09-2009
Hexaldehyde	0.45	0.4287	IH10	ug, Total	95%	65-145	P9I0908	09-09-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4131	IH10	ug, Total	92%	75-144	P9I0908	09-09-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9I1026-BS1								
Hydrochloric Acid	10.3	11.68	IH10	ug, Total	113%	70-130	P9I1026	09-10-2009
Hydrofluoric Acid	10.5	9.701	IH10	ug, Total	92%	70-130	P9I1026	09-10-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9I0908-BSD1												
Formaldehyde		0.5090	IH11	ug, Total	0.45	113%	22-134	3.03	20	P9I0908		09-09-2009
Acetaldehyde		0.4508	IH11	ug, Total	0.45	100%	51-142	2.27	20	P9I0908		09-09-2009
Acrolein		0.2642	IH10, L2	ug, Total	0.45	59%	75-125	2.84	20	P9I0908		09-09-2009
Acetone		0.8088	IH11, L1	ug, Total	0.45	180%	75-125	6.89	20	P9I0908		09-09-2009
Propionaldehyde		0.5831	IH10	ug, Total	0.45	130%	67-145	5.24	20	P9I0908		09-09-2009
Crotonaldehyde		0.3612	IH10	ug, Total	0.45	80%	66-146	0.5	20	P9I0908		09-09-2009
Butyraldehyde		0.4680	IH10	ug, Total	0.45	104%	56-141	0.575	20	P9I0908		09-09-2009
Benzaldehyde		0.4304	IH10	ug, Total	0.45	96%	57-142	2.25	20	P9I0908		09-09-2009
Isovaleraldehyde		0.4164	IH10	ug, Total	0.45	93%	66-144	0.265	20	P9I0908		09-09-2009
Valeraldehyde		0.4405	IH10	ug, Total	0.45	98%	66-144	1.07	20	P9I0908		09-09-2009
o-Tolualdehyde		0.4459	IH10	ug, Total	0.45	99%	39-130	0.856	20	P9I0908		09-09-2009
m-Tolualdehyde		0.4201	IH10	ug, Total	0.45	93%	73-143	0.549	20	P9I0908		09-09-2009
p-Tolualdehyde		0.4152	IH10	ug, Total	0.45	92%	66-147	0.217	20	P9I0908		09-09-2009
Hexaldehyde		0.4346	IH10	ug, Total	0.45	97%	65-145	1.37	20	P9I0908		09-09-2009
2,5-Dimethyl Benzaldehyde		0.4193	IH10	ug, Total	0.45	93%	75-144	1.49	20	P9I0908		09-09-2009
Inorganic Acids by NIOSH 7903 (Modified)												

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LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9I1026-BSD1												
Hydrochloric Acid		11.75	IH10	ug, Total	10.3	114%	70-130	0.598	30	P9I1026		09-10-2009
Hydrofluoric Acid		9.861	IH10	ug, Total	10.5	94%	70-130	1.64	30	P9I1026		09-10-2009

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CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0323 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/04/09 Reported: 09/17/09 17:36	

DATA QUALIFIERS AND DEFINITIONS

IH10 Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.

IH11 Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.

L2 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.

ADDITIONAL COMMENTS

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~929~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2175 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

№ 8491

Sent To: Test America (Lab Name)
VIA: Fed Ex 7571
Air Bill No.: 8694 2482 ~~7570~~

Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, (O) Other AIR

Containers Intact: At L&A (Y)/N; At Lab Y/N

As Received by Lab: PSI 0323

Project No: 07-0082

Project Name: Countywide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time	Sample Location	Number of Containers	Turn Around/Requirements	Analysis / Method: HF	HCl	NIOSH 7903	Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C090109-01H				9/1/09	480	Cell Tower	1		X	X	X	-01		0.301 l/min
C090109-02H				9/1/09	480	Cell Tower	1		X	X	X	-02		0.335 "
C090109-03H				9/1/09	480	Cell Tower	1		X	X	X	-03		0.320 "
G090109-01H				9/1/09	480	Campground	1		X	X	X	-04		0.248 l/min
G090109-02H				9/1/09	480	Campground	1		X	X	X	-05		0.223 "
G090109-03H				9/1/09	480	Campground	1		X	X	X	-06		0.243 "
W090109-01H				9/1/09	480	Wetland	1		X	X	X	-07		0.274 l/min
W090109-02H				9/1/09	480	Wetland	1		X	X	X	-08		0.273 "
W090109-03H				9/1/09	480	Wetland	1		X	X	X	-09		0.239 "
090109A-H				9/1/09	—	Field Blank	1		X	X	X	-10		No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	09/03/09 1600						
[signature]	9/5/09 800					[signature]	9/4/09 1030

Comments: 11.6°C Custody Seal

Distributor: White - File; Yellow - Lab

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~925~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
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~~Fax: (216) 737-0709~~

№ 8493

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7571

CHAIN-OF-CUSTODY RECORD

PSI 0323

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other AIR

Containers Intact: At L&A Y/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method	Aldehyde TO-11	Carbonyl TO-11	Ketone TO-11										Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C090109-01A				9/1/09	480	Cell Tower	1				X	X	X				-11								0.439 l/min
C090109-02A				9/1/09	480	Cell Tower	1				X	X	X				-12								0.387 "
C090109-03A				9/1/09	480	Cell Tower	1				X	X	X				-13								0.459 "
G090109-01A				9/1/09	480	Campground	1				X	X	X				-14								0.273 l/min
G090109-02A				9/1/09	480	Campground	1				X	X	X				-15								0.255 "
G090109-03A				9/1/09	480	Campground	1				X	X	X				-16								0.322 "
W090109-01A				9/1/09	480	Wetland	1				X	X	X				-17								0.398 l/min
W090109-02A				9/1/09	480	Wetland	1				X	X	X				-18								0.362 "
W090109-03A				9/1/09	480	Wetland	1				X	X	X				-19								0.363 "
090109A-H				9/1/09	—	Field Blank	1				X	X	X				-20								No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/3/09 1800						
[signature]	9/3/09 800					[signature]	9/4/09 1030

Comments: 11.6°C Custody Seal

Distributor: White - File; Yellow - Lab

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #29

October 21, 2009

APPENDIX D. Laboratory Analytical Results from Event #140:
Monday, September 7, 2009 to Tuesday, September 8, 2009

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H9I100130

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LKJW1	001	SU-C090709	09/07/09	
LKJW3	002	SU-G090709	09/07/09	
LKJW4	003	SU-S090709	09/07/09	
LKJW5	004	SU-W090709	09/07/09	
LKJW6	005	SU-COS090709	09/07/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H9I100130

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 9/10/09 exhibited a % difference of > 30% for acetone, 4-methyl-2-pentanone, hexachlorbutadiene and 1,1,1-trichloroethane, the results were within the LCS acceptance limits.

Although 1,1,1-trichloroethane is flagged as being outside recovery limits in the laboratory control sample for batch 9254197, the laboratory control sample is in control. The standard operating procedure allows for 3 analytes to be outside the control limits, but within marginal exceedence limit.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C090709

GC/MS Volatiles

Lot-Sample #	H9I100130 - 001	**Work Order #**	LKJW11AA	**Matrix.....:**	AIR

Date Sampled...:	09/07/2009	**Date Received..:**	09/10/2009
Prep Date.....:	09/10/2009	**Analysis Date...**	09/10/2009
Prep Batch #.....:	9254197		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**5.3**	**5.0**	**13**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.32**	**0.20**	**1.8**		**1.1**
n-Heptane	**0.14**	**0.50**	**0.57**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.23**	**0.50**	**0.82**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.051**	**0.50**	**0.24**	**J**	**2.3**
tert-Butyl alcohol	**0.13**	**2.0**	**0.38**	**J**	**6.1**
Methylene chloride	**0.20**	**0.50**	**0.71**	**J**	**1.7**
Benzene	**0.48**	**0.20**	**1.5**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.52**	**0.20**	**1.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.081**	**0.20**	**0.62**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.068**	**0.20**	**0.33**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.16**	**0.20**	**0.71**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.49**	**1.0**	**1.4**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	**0.063**	**0.20**	**0.25**	**J**	**0.78**
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.14**	**0.20**	**0.88**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 001 **Work Order #** LKJW11AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.48**	**0.50**	**0.99**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.048**	**0.50**	**0.17**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.61**	**0.20**	**3.0**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-G090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 002 **Work Order #** LKJW31AA **Matrix.....:** AIR

Date Sampled...: 09/07/2009 **Date Received..:** 09/10/2009
Prep Date.....: 09/10/2009 **Analysis Date...** 09/10/2009
Prep Batch #.....: 9254197
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**15**	**5.0**	**36**		**12**
Ethylbenzene	**0.071**	**0.20**	**0.31**	**J**	**0.87**
Trichlorofluoromethane	**0.35**	**0.20**	**1.9**		**1.1**
n-Heptane	**0.15**	**0.50**	**0.63**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.27**	**0.50**	**0.94**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.068**	**0.50**	**0.32**	**J**	**2.3**
tert-Butyl alcohol	**0.17**	**2.0**	**0.51**	**J**	**6.1**
Methylene chloride	**0.25**	**0.50**	**0.86**	**J**	**1.7**
Benzene	**0.55**	**0.20**	**1.8**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.61**	**0.20**	**2.3**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.089**	**0.20**	**0.68**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.092**	**0.20**	**0.45**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.080**	**0.20**	**0.35**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.20**	**0.20**	**0.88**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.6**	**1.0**	**7.7**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.065**	**0.50**	**0.27**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.037**	**0.50**	**0.12**	**J**	**1.6**
Carbon tetrachloride	**0.16**	**0.20**	**0.98**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 002 **Work Order #** LKJW31AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.59**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.063**	**0.50**	**0.22**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.63**	**0.20**	**3.1**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 003 **Work Order #** LKJW41AA **Matrix.....:** AIR

Date Sampled...: 09/07/2009 **Date Received..:** 09/10/2009
Prep Date.....: 09/10/2009 **Analysis Date...** 09/10/2009
Prep Batch #.....: 9254197
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**14**	**5.0**	**34**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.30**	**0.20**	**1.7**		**1.1**
n-Heptane	**0.14**	**0.50**	**0.59**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.28**	**0.50**	**0.98**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.068**	**0.50**	**0.32**	**J**	**2.3**
tert-Butyl alcohol	**0.25**	**2.0**	**0.77**	**J**	**6.1**
Methylene chloride	**0.22**	**0.50**	**0.78**	**J**	**1.7**
Benzene	**0.45**	**0.20**	**1.4**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.56**	**0.20**	**2.1**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**0.20**	**0.58**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.17**	**0.20**	**0.73**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.9**	**1.0**	**5.7**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.080**	**0.50**	**0.33**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.078**	**0.50**	**0.24**	**J**	**1.6**
Carbon tetrachloride	**0.13**	**0.20**	**0.80**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 003 **Work Order #** LKJW41AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.61**	**0.50**	**1.3**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.092**	**0.50**	**0.32**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.62**	**0.20**	**3.1**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	92	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 004 **Work Order #** LKJW51AA **Matrix.....:** AIR

Date Sampled...: 09/07/2009 **Date Received..:** 09/10/2009
Prep Date.....: 09/10/2009 **Analysis Date...** 09/10/2009
Prep Batch #.....: 9254197
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**16**	**5.0**	**38**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.31**	**0.20**	**1.8**		**1.1**
n-Heptane	**0.099**	**0.50**	**0.40**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.25**	**0.50**	**0.88**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.051**	**0.50**	**0.24**	**J**	**2.3**
tert-Butyl alcohol	**0.21**	**2.0**	**0.62**	**J**	**6.1**
Methylene chloride	**0.24**	**0.50**	**0.83**	**J**	**1.7**
Benzene	**0.42**	**0.20**	**1.3**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.51**	**0.20**	**1.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.076**	**0.20**	**0.58**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.079**	**0.20**	**0.39**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.071**	**0.20**	**0.31**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.19**	**0.20**	**0.81**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.4**	**1.0**	**7.1**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.064**	**0.50**	**0.26**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.060**	**0.50**	**0.19**	**J**	**1.6**
Carbon tetrachloride	**0.13**	**0.20**	**0.85**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 004 **Work Order #** LKJW51AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.57**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.095**	**0.50**	**0.33**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.60**	**0.20**	**3.0**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COS090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 005 **Work Order #** LKJW61AA **Matrix.....:** AIR

Date Sampled...: 09/07/2009 **Date Received..:** 09/10/2009
Prep Date.....: 09/10/2009 **Analysis Date...** 09/10/2009
Prep Batch #.....: 9254197
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**8.7**	**5.0**	**21**		**12**
Ethylbenzene	**0.090**	**0.20**	**0.39**	**J**	**0.87**
Trichlorofluoromethane	**0.33**	**0.20**	**1.9**		**1.1**
n-Heptane	**0.18**	**0.50**	**0.73**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.30**	**0.50**	**1.0**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.075**	**0.50**	**0.35**	**J**	**2.3**
tert-Butyl alcohol	**3.3**	**2.0**	**9.9**		**6.1**
Methylene chloride	**0.54**	**0.50**	**1.9**		**1.7**
Benzene	**0.50**	**0.20**	**1.6**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.78**	**0.20**	**2.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.082**	**0.20**	**0.63**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.14**	**0.20**	**0.68**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.093**	**0.20**	**0.40**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.27**	**0.20**	**1.2**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.66**	**1.0**	**1.9**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.14**	**0.20**	**0.87**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COS090709

GC/MS Volatiles

Lot-Sample # H9I100130 - 005 **Work Order #** LKJW61AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.60**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.067**	**0.50**	**0.23**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.57**	**0.20**	**2.8**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H9I110000 - 197B	**Work Order #**	LKL2N1AA	**Matrix.....:**	AIR
	09/07/2009	**Date Received..:**	09/10/2009		
Prep Date.....:	09/10/2009	**Analysis Date...**	09/10/2009		
Prep Batch #.....:	9254197				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Acetone	ND	5.0	ND	12
Ethylbenzene	ND	0.20	ND	0.87
Trichlorofluoromethane	ND	0.20	ND	1.1
n-Heptane	ND	0.50	ND	2.0
Hexachlorobutadiene	ND	1.0	ND	11
n-Hexane	ND	0.50	ND	1.8
2,2,4-Trimethylpentane	ND	0.50	ND	2.3
tert-Butyl alcohol	ND	2.0	ND	6.1
Methylene chloride	ND	0.50	ND	1.7
Benzene	ND	0.20	ND	0.64
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
Tetrachloroethene	ND	0.20	ND	1.4
Tetrahydrofuran	ND	1.0	ND	2.9
Toluene	ND	0.20	ND	0.75
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
1,1,1-Trichloroethane	ND	0.20	ND	1.1
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Trichloroethene	ND	0.20	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
Vinyl chloride	ND	0.20	ND	0.51
o-Xylene	ND	0.20	ND	0.87
Methyl tert-butyl ether	ND	1.0	ND	3.6
m-Xylene & p-Xylene	ND	0.20	ND	0.87
Bromodichloromethane	ND	0.20	ND	1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
2-Butanone (MEK)	ND	1.0	ND	2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND	2.0
Vinyl bromide	ND	0.20	ND	0.87
Bromoform	ND	0.20	ND	2.1
Bromomethane	ND	0.20	ND	0.78
1,3-Butadiene	ND	0.40	ND	0.88
4-Ethyltoluene	ND	0.40	ND	2.0
Carbon disulfide	ND	0.50	ND	1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9I110000 - 197B Work Order # LKL2N1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	84	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9I110000 - 197C **Work Order #** LKL2N1AC **Matrix.....:** AIR

	09/07/2009	**Date Received..:**	09/10/2009
Prep Date.....:	09/10/2009	**Analysis Date...**	09/10/2009
Prep Batch #.....:	9254197		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY		RECOVERY LIMITS
trans-1,3-Dichloropropene	2.50	2.25	11	10	90		70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.50	2.80	17	20	112		60 - 140
Acetone	2.50	3.30	5.9	7.8	132		60 - 140
Ethylbenzene	2.50	2.49	11	11	100		70 - 130
Trichlorofluoromethane	2.50	3.18	14	18	127		60 - 140
n-Heptane	2.50	1.88	10	7.7	75		70 - 130
Hexachlorobutadiene	2.50	3.35	27	36	134		60 - 140
n-Hexane	2.50	2.35	8.8	8.3	94		70 - 130
2,2,4-Trimethylpentane	2.50	2.27	12	11	91		70 - 130
tert-Butyl alcohol	2.50	1.97	7.6	6.0	79		60 - 140
Methylene chloride	2.50	2.45	8.7	8.5	98		70 - 130
Benzene	2.50	2.23	8.0	7.1	89		70 - 130
Styrene	2.50	2.36	11	10	95		70 - 130
1,1,2,2-Tetrachloroethane	2.50	2.38	17	16	95		70 - 130
Tetrachloroethene	2.50	2.33	17	16	93		70 - 130
Tetrahydrofuran	2.50	1.90	7.4	5.6	76		70 - 130
Toluene	2.50	2.18	9.4	8.2	87		70 - 130
1,2,4-Trichlorobenzene	2.50	2.36	19	17	94		60 - 140
1,1,1-Trichloroethane	2.50	3.31	14	18	132	a	70 - 130
1,1,2-Trichloroethane	2.50	2.24	14	12	90		70 - 130
Trichloroethene	2.50	2.43	13	13	97		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.76	19	21	111		70 - 130
1,2,4-Trimethylbenzene	2.50	2.70	12	13	108		70 - 130
1,3,5-Trimethylbenzene	2.50	2.50	12	12	100		70 - 130
Vinyl chloride	2.50	2.51	6.4	6.4	100		70 - 130
o-Xylene	2.50	2.64	11	11	106		70 - 130
Methyl tert-butyl ether	2.50	2.56	9.0	9.2	103		60 - 140
m-Xylene & p-Xylene	5.00	5.24	22	23	105		70 - 130
Bromodichloromethane	2.50	2.46	17	17	99		70 - 130
1,2-Dibromoethane (EDB)	2.50	2.35	19	18	94		70 - 130
2-Butanone (MEK)	2.50	2.22	7.4	6.5	89		60 - 140
4-Methyl-2-pentanone (MIBK)	2.50	1.64	10	6.7	66		60 - 140
Vinyl bromide	2.50	2.92	11	13	117		60 - 140
Bromoform	2.50	1.95	26	20	78		70 - 130
Bromomethane	2.50	3.01	9.7	12	120		70 - 130
1,3-Butadiene	2.50	2.36	5.5	5.2	94		60 - 140
4-Ethyltoluene	2.50	2.64	12	13	105		70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9I110000 - 197C Work Order # LKL2N1AC Matrix.....: AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	2.50	2.41	7.8	7.5	96	70 - 130
Carbon tetrachloride	2.50	2.48	16	16	99	70 - 130
Chlorobenzene	2.50	2.18	12	10	87	70 - 130
Dibromochloromethane	2.50	2.55	21	22	102	70 - 130
Chloroethane	2.50	2.62	6.6	6.9	105	70 - 130
Chloroform	2.50	2.78	12	14	111	70 - 130
Chloromethane	2.50	2.42	5.2	5.0	97	60 - 140
3-Chloropropene	2.50	2.58	7.8	8.1	103	70 - 130
2-Chlorotoluene	2.50	2.51	13	13	100	70 - 130
Cyclohexane	2.50	2.30	8.6	7.9	92	70 - 130
1,2-Dichlorobenzene	2.50	2.35	15	14	94	70 - 130
1,3-Dichlorobenzene	2.50	2.31	15	14	93	70 - 130
1,4-Dichlorobenzene	2.50	2.30	15	14	92	70 - 130
Dichlorodifluoromethane	2.50	3.19	12	16	128	60 - 140
1,1-Dichloroethane	2.50	2.56	10	10	103	70 - 130
1,2-Dichloroethane	2.50	2.69	10	11	108	70 - 130
1,1-Dichloroethene	2.50	2.41	9.9	9.5	96	70 - 130
cis-1,2-Dichloroethene	2.50	2.56	9.9	10	103	70 - 130
trans-1,2-Dichloroethene	2.50	2.60	9.9	10	104	70 - 130
1,2-Dichloropropane	2.50	1.96	12	9.1	79	70 - 130
cis-1,3-Dichloropropene	2.50	2.11	11	9.6	84	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	60 - 140

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

☒ **Lawhon and Associates, Inc.**
☐ **L&A Engineering, Inc.**

HGI100130

№ 5147

975 ~~929~~ Eastwind Drive, Suite ~~211~~ 190
Westerville, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2115 Freeman Ave.~~
~~Cleveland, OH 44113~~
~~Phone (216) 787-0100~~
~~Fax (216) 737-0109~~

~~10901 Reed Hartman Hwy., Ste 201~~
~~Cincinnati, OH 45242~~
~~Phone (513) 936-9288, Fax (513) 986-9266~~

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7608
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other AIR

Containers Intact: At L&A Y/N, At Lab Y/N

As Received by Lab:

Project No.: 07-0082

Project Name: Countryside

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Comp	Grab	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis / Method: VOC TO-15	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C090709				9/7/09	1440	Cell Tower	1		X			12492
SU-G090709				9/7/09	1440	Campground	1		X			1397
SU-S090709				9/7/09	1440	School	1		X			11411
SU-W090709				9/7/09	1440	Wetland	1		X			6640
SU-COS090709				9/7/09	1440	Co-Located School	1		X			1317

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT
TEMP AND 9-10-09
1 BOX FED X H
8694 2482 7608

6 CANS / 6 FLOWS

Relinquished by: (signature)	Date/Time	Received By: (signature)	Date/Time	Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
	9/9/09 15:06		9-10-09 10:30				
Relinquished by: (signature)	Date/Time	Received By: (signature)	Date/Time	Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
	9/9/09 800						

Comments:

Distribution: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

HGI 100130

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

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Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr. Suite 190
City/State/Zip Westerville, Ohio 43081
Phone: 614-818-5200
FAX: 614-818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Sampled By: Rick Jones

2 of 2 COCs

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C090709	9/7/09	15:00	15:00	-29.5	-4.0	K181	12492	X											
SU-G090709	↓	↓	↓	-29.5	-5.0	K127	1397	X											
SU-S090709	↓	↓	↓	-29.5	-2.0	K277	11411	X											
SU-W090709	↓	↓	↓	-29.5	-2.0	K178	6640	X											
SU-COS090709	↓	↓	↓	-30	-1.0	K331	1317	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
Return can #S-1488, did not use

Canisters Shipped by:	Date/Time: 9/9/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 9/9/09 800	Received by: Bryan Lawson 9-10-09 10:30
Relinquished by:	Date/Time:	Received by:

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September 21, 2009

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order: PSI0539
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 09/10/09

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 7.3°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

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Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PSI0539
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 09/10/09
Reported: 09/21/09 16:34

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C090709-01H	PSI0539-01	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
C090709-02H	PSI0539-02	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
C090709-03H	PSI0539-03	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
G090709-01H	PSI0539-04	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
G090709-02H	PSI0539-05	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
G090709-03H	PSI0539-06	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
S090709-01H	PSI0539-07	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
S090709-02H	PSI0539-08	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
S090709-03H	PSI0539-09	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
W090709-01H	PSI0539-10	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
W090709-02H	PSI0539-11	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
W090709-03H	PSI0539-12	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
090709A-H	PSI0539-13	09/07/09	Silica Gel tube, 200/400 mg Specially cleaned
C090709-01A	PSI0539-14	09/07/09	DNPH Silica Gel Tube, 450 mg
C090709-02A	PSI0539-15	09/07/09	DNPH Silica Gel Tube, 450 mg
C090709-03A	PSI0539-16	09/07/09	DNPH Silica Gel Tube, 450 mg
G090709-01A	PSI0539-17	09/07/09	DNPH Silica Gel Tube, 450 mg
G090709-02A	PSI0539-18	09/07/09	DNPH Silica Gel Tube, 450 mg
G090709-03A	PSI0539-19	09/07/09	DNPH Silica Gel Tube, 450 mg
S090709-01A	PSI0539-20	09/07/09	DNPH Silica Gel Tube, 450 mg
S090709-02A	PSI0539-21	09/07/09	DNPH Silica Gel Tube, 450 mg
S090709-03A	PSI0539-22	09/07/09	DNPH Silica Gel Tube, 450 mg
W090709-01A	PSI0539-23	09/07/09	DNPH Silica Gel Tube, 450 mg
W090709-02A	PSI0539-24	09/07/09	DNPH Silica Gel Tube, 450 mg
W090709-03A	PSI0539-25	09/07/09	DNPH Silica Gel Tube, 450 mg
090709A-A	PSI0539-26	09/07/09	DNPH Silica Gel Tube, 450 mg

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0539 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/10/09 Reported: 09/21/09 16:34	

ANALYTICAL REPORT

Aldehydes and Ketones by EPA TO-11A (Modified)

Sample ID: PSI0539-14 (C090709-01A) — **Tube** — **Sample Air Volume:218.88L** — **Sampled: 09/07/09** — **Prepared: 09/15/09 12:35**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001371	<0.00002498	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.60	0.02558	0.0142	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.464	0.00212	0.001177	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	5.14	0.02348	0.01303	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	1.24	0.005665	0.002385	IH11, IH10	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.412	0.001882	0.0007924	IH10	9/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.832	0.003801	0.0016	IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001371	<0.00005977	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.304	0.001389	0.00032	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.74	0.00795	0.002695	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001371	<0.00004781	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.92	0.008772	0.007142	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0625	0.0002855	0.0002325	IH11	9/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.86	0.008498	0.006919	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.44	0.01115	0.002721	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001371	<0.00003891	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001371	<0.00002789	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.273	0.001247	0.0002538	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.39	0.006351	0.002673	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0566	0.0002586	0.0001089	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	1.33	0.006076	0.002558	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001371	<0.00002789	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	1.00	0.004569	0.001297	IH10	9/17/2009	zn	0.0300	EPA TO-11A

Sample ID: PSI0539-15 (C090709-02A) — **Tube** — **Sample Air Volume:186.24L** — **Sampled: 09/07/09** — **Prepared: 09/15/09 12:35**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001611	<0.00002935	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.05	0.01101	0.00611	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.201	0.001079	0.000599	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.85	0.009933	0.005514	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	0.385	0.002067	0.0008702	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001611	<0.00007025	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.162	0.0008698	0.0002004	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.565	0.003034	0.001029	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001611	<0.00005619	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.883	0.004741	0.00386	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0597	0.0003206	0.000261	IH11	9/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.823	0.004419	0.003598	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.892	0.00479	0.001169	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001611	<0.00004573	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001611	<0.00003278	IH10	9/17/2009	zn	0.0300	EPA TO-11A

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4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0539 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/10/09 Reported: 09/21/09 16:34	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-15 (C090709-02A) - cont.		**Tube**		**Sample Air Volume:186.24L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/15/09 12:35**	
o-Tolualdehyde	0.134	0.0007195	0.0001464	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.498	0.002674	0.001126	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0427	0.0002293	0.00009652	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.455	0.002443	0.001028	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001611	<0.00003278	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.423	0.002271	0.0006448	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-16 (C090709-03A)		**Tube**		**Sample Air Volume:226.08L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/15/09 12:35**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001327	<0.00002418	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.65	0.01614	0.008961	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.208	0.00092	0.0005107	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.44	0.01522	0.008446	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	1.28	0.005662	0.002383	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.309	0.001367	0.0005754	IH10	9/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.972	0.004299	0.00181	IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001327	<0.00005787	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0001327	<0.00003057	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.05	0.004644	0.001575	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001327	<0.00004629	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.35	0.005971	0.004862	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0634	0.0002804	0.0002283	IH11	9/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.29	0.005706	0.004646	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.24	0.005485	0.001339	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001327	<0.00003767	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0823	0.000364	0.00007408	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.187	0.0008271	0.0001683	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.770	0.003406	0.001434	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0362	0.0001601	0.00006741	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.734	0.003247	0.001367	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001327	<0.000027	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.598	0.002645	0.0007509	IH10	9/17/2009	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0539 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/10/09 Reported: 09/21/09 16:34	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-17 (G090709-01A)		**Tube**		**Sample Air Volume:133.92L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/15/09 12:35**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000224	<0.00004082	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.140	0.001045	0.0005803	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0708	0.0005287	0.0002934	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0690	0.0005152	0.000286	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	0.849	0.00634	0.002669	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.320	0.002389	0.001006	IH10	9/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.529	0.00395	0.001663	IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000224	<0.00009769	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000224	<0.00005161	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000224	<0.00007596	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000224	<0.00007814	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.310	0.002315	0.001885	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0933	0.0006967	0.0005672	IH11	9/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.217	0.00162	0.001319	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0348	0.0002599	0.00006343	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000224	<0.00006359	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000224	<0.00004559	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000224	<0.00004559	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000224	<0.0000943	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000224	<0.00004559	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000224	<0.00006359	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-18 (G090709-02A)		**Tube**		**Sample Air Volume:126.72L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/15/09 12:35**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002367	<0.00004314	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.117	0.0009233	0.0005125	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0412	0.0003251	0.0001805	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0760	0.0005997	0.0003329	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	0.783	0.006179	0.002601	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.305	0.002407	0.001013	IH10	9/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.478	0.003772	0.001588	IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002367	<0.0001032	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0002367	<0.00005455	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0002367	<0.00008027	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002367	<0.00008258	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.273	0.002154	0.001754	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0581	0.0004585	0.0003733	IH11	9/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.215	0.001697	0.001381	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0397	0.0003133	0.00007648	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002367	<0.0000672	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002367	<0.00004818	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.0002367	<0.00004818	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.0002367	<0.00009966	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002367	<0.00004818	IH10	9/17/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-18 (G090709-02A) - cont.		**Tube**		**Sample Air Volume:126.72L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
Valeraldehyde	<0.0300	<0.0002367	<0.0000672	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-19 (G090709-03A)		**Tube**		**Sample Air Volume:175.2L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001712	<0.0000312	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.47	0.0141	0.007825	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0796	0.0004543	0.0002522	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.39	0.01364	0.007572	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	1.68	0.009589	0.004037	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.515	0.002939	0.001237	IH10	9/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.16	0.006621	0.002787	IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001712	<0.00007468	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.168	0.0009589	0.0002209	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001712	<0.00005806	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001712	<0.00005973	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.12	0.006393	0.005205	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0645	0.0003682	0.0002997	IH11	9/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.06	0.00605	0.004926	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.22	0.006963	0.0017	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001712	<0.00004861	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001712	<0.00003485	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.102	0.0005822	0.0001185	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.563	0.003213	0.001353	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001712	<0.00003485	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.445	0.00254	0.000721	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-20 (S090709-01A)		**Tube**		**Sample Air Volume:120L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.00025	<0.00004555	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	7.03	0.05858	0.03252	IH10, RL7	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.166	0.001383	0.0007678	IH10	9/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	6.86	0.05717	0.03173	IH10, RL7	9/17/2009	zn	0.300	EPA TO-11A
Acetone	1.82	0.01517	0.006385	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.715	0.005958	0.002508	IH10	9/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.10	0.009167	0.003859	IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00025	<0.000109	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.199	0.001658	0.0003821	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.46	0.01217	0.004125	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.00025	<0.00008721	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.57	0.01308	0.01065	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0593	0.0004942	0.0004023	IH11	9/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.51	0.01258	0.01025	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.97	0.01642	0.004007	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.00025	<0.00007097	IH10	9/17/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-20 (S090709-01A) - cont.		**Tube**		**Sample Air Volume:120L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
m-Tolualdehyde	0.128	0.001067	0.0002171	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.170	0.001417	0.0002883	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.28	0.01067	0.00449	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.00025	<0.00005087	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.725	0.006042	0.001715	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-21 (S090709-02A)		**Tube**		**Sample Air Volume:229.44L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001308	<0.00002383	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.22	0.009676	0.005371	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.242	0.001055	0.0005854	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.98	0.00863	0.00479	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	0.412	0.001796	0.0007559	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001308	<0.00005702	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.163	0.0007104	0.0001637	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.518	0.002258	0.0007655	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001308	<0.00004561	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.881	0.00384	0.003126	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0554	0.0002415	0.0001966	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.826	0.0036	0.002931	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.975	0.004249	0.001037	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001308	<0.00003712	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0738	0.0003217	0.00006545	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.138	0.0006015	0.0001224	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.497	0.002166	0.0009119	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0388	0.0001691	0.00007119	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.458	0.001996	0.0008403	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001308	<0.00002661	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.311	0.001355	0.0003848	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-22 (S090709-03A)		**Tube**		**Sample Air Volume:124.8L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002404	<0.0000438	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.39	0.02716	0.01508	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.131	0.00105	0.0005826	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.26	0.02612	0.0145	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	1.20	0.009615	0.004048	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002404	<0.0001048	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.174	0.001394	0.0003212	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0002404	<0.00008151	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002404	<0.00008386	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.30	0.01042	0.008481	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0664	0.0005321	0.0004332	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.23	0.009856	0.008024	IH11	9/17/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-22 (S090709-03A) - cont.		**Tube**		**Sample Air Volume:124.8L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/15/09 12:35**	
Hexaldehyde	1.11	0.008894	0.002171	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002404	<0.00006824	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0659	0.000528	0.0001075	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.164	0.001314	0.0002674	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.673	0.005393	0.00227	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002404	<0.00004892	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.434	0.003478	0.0009872	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-23 (W090709-01A)		**Tube**		**Sample Air Volume:203.04L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/15/09 12:35**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001478	<0.00002692	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	6.57	0.03236	0.01796	IH10, RL7	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.269	0.001325	0.0007354	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	6.30	0.03103	0.01722	IH10, RL7	9/17/2009	zn	0.300	EPA TO-11A
Acetone	1.77	0.008717	0.00367	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.643	0.003167	0.001333	IH10	9/17/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.13	0.005565	0.002343	IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001478	<0.00006444	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.274	0.001349	0.0003109	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.52	0.007486	0.002538	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001478	<0.00005154	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.89	0.009309	0.007579	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0679	0.0003344	0.0002723	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.82	0.008964	0.007298	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.15	0.01059	0.002585	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001478	<0.00004194	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.120	0.000591	0.0001203	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.229	0.001128	0.0002295	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.24	0.006107	0.002571	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001478	<0.00003007	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.787	0.003876	0.0011	IH10	9/17/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-24 (W090709-02A)		**Tube**		**Sample Air Volume:185.28L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001619	<0.0000295	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.16	0.01166	0.006471	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.134	0.0007232	0.0004014	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.03	0.01096	0.006081	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	0.465	0.00251	0.001057	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001619	<0.00007061	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.157	0.0008474	0.0001952	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.507	0.002736	0.0009278	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001619	<0.00005648	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.857	0.004625	0.003766	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0551	0.0002974	0.0002421	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.802	0.004329	0.003524	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.823	0.004442	0.001084	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001619	<0.00004596	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0593	0.0003201	0.00006513	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0930	0.0005019	0.0001021	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.406	0.002191	0.0009225	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001619	<0.00003295	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.357	0.001927	0.000547	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0539-25 (W090709-03A)		**Tube**		**Sample Air Volume:188.64L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000159	<0.00002898	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.13	0.01659	0.00921	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0919	0.0004872	0.0002704	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.04	0.01612	0.008945	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	1.02	0.005407	0.002276	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000159	<0.00006936	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.199	0.001055	0.0002431	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.865	0.004585	0.001555	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000159	<0.00005548	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.35	0.007156	0.005827	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0567	0.0003006	0.0002447	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.29	0.006838	0.005568	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.06	0.005619	0.001372	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000159	<0.00004515	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000159	<0.00003236	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.172	0.0009118	0.0001855	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.593	0.003144	0.001323	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000159	<0.00003236	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.410	0.002173	0.000617	IH10	9/17/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-26 (090709A-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 09/07/09**	
							Prepared: 09/15/09 12:35	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.0387	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Acetone	0.484	--	--	IH10, IH11	9/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.147	--	--	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0483	--	--	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0991	--	--	IH11	9/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	9/17/2009	zn	0.0300	EPA TO-11A

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-01 (C090709-01H)		**Tube**		**Sample Air Volume:159.84L**			**Sampled: 09/07/09**	
							Prepared: 09/17/09 13:00	
Hydrochloric Acid	<2.12	<0.01326	<0.008894	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01364	<0.01666	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-02 (C090709-02H)		**Tube**		**Sample Air Volume:172.32L**			**Sampled: 09/07/09**	
							Prepared: 09/17/09 13:00	
Hydrochloric Acid	<2.12	<0.0123	<0.00825	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01265	<0.01546	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-03 (C090709-03H)		**Tube**		**Sample Air Volume:166.08L**			**Sampled: 09/07/09**	
							Prepared: 09/17/09 13:00	
Hydrochloric Acid	<2.12	<0.01276	<0.00856	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01313	<0.01604	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-04 (G090709-01H)		**Tube**		**Sample Air Volume:153.6L**			**Sampled: 09/07/09**	
							Prepared: 09/17/09 13:00	
Hydrochloric Acid	<2.12	<0.0138	<0.009256	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01419	<0.01734	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-05 (G090709-02H)		**Tube**		**Sample Air Volume:136.8L**			**Sampled: 09/07/09**	
							Prepared: 09/17/09 13:00	
Hydrochloric Acid	<2.12	<0.0155	<0.01039	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01594	<0.01947	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-06 (G090709-03H)		**Tube**		**Sample Air Volume:147.84L**			**Sampled: 09/07/09**	

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Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0539-06 (G090709-03H) - cont.		**Tube**		**Sample Air Volume:147.84L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	<0.01434	<0.009616	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01475	<0.01802	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-07 (S090709-01H)		**Tube**		**Sample Air Volume:134.4L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	<0.01577	<0.01058	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01622	<0.01982	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-08 (S090709-02H)		**Tube**		**Sample Air Volume:236.16L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	<0.008977	<0.00602	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.009231	<0.01128	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-09 (S090709-03H)		**Tube**		**Sample Air Volume:200.64L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	<0.01057	<0.007086	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01087	<0.01328	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-10 (W090709-01H)		**Tube**		**Sample Air Volume:154.08L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	<0.01376	<0.009227	IH10	9/17/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01415	<0.01729	IH10	9/17/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-11 (W090709-02H)		**Tube**		**Sample Air Volume:155.52L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	<0.01363	<0.009141	IH10	9/18/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01402	<0.01713	IH10	9/18/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-12 (W090709-03H)		**Tube**		**Sample Air Volume:131.04L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	<0.01618	<0.01085	IH10	9/18/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01664	<0.02033	IH10	9/18/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0539-13 (090709A-H)		**Tube**		**Sample Air Volume:L**			**Sampled: 09/07/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/17/09 13:00**	
Hydrochloric Acid	<2.12	--	--	IH10	9/18/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	--	--	IH10	9/18/2009	AY	2.18	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
P9I1518-BLK1							
Formaldehyde	0.09607		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Formaldehyde - Back	0.04767		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Acetaldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Acetaldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Acrolein	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Acrolein - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Acetone	0.4873		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Acetone - Back	<0.300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Propionaldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Crotonaldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Butyraldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Benzaldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Isovaleraldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Valeraldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
o-Tolualdehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
m-Tolualdehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
p-Tolualdehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Hexaldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9I1518		P9I1518-BLK1	09-16-2009
Inorganic Acids by NIOSH 7903 (Modified)							
P9I1729-BLK1							
Hydrochloric Acid	<2.12	IH10	ug, Total	P9I1729		P9I1729-BLK1	09-17-2009
Hydrochloric Acid - Back	<2.12	IH10	ug, Total	P9I1729		P9I1729-BLK1	09-17-2009
Hydrofluoric Acid	<2.18	IH10	ug, Total	P9I1729		P9I1729-BLK1	09-17-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)							
P9I1729-BLK1							
Hydrofluoric Acid - Back	<2.18	IH10	ug, Total	P9I1729		P9I1729-BLK1	09-17-2009

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9I1518-DUP1									
Formaldehyde	1.860	1.859	IH11	ug, Total	0.0538	10	P9I1518	PSI0539-14	09-17-2009
Acetaldehyde	5.140	5.116	IH10	ug, Total	0.468	10	P9I1518	PSI0539-14	09-17-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-14	09-17-2009
Acetone	0.8320	0.8297	IH11	ug, Total	0.277	10	P9I1518	PSI0539-14	09-17-2009
Propionaldehyde	1.330	1.321	IH10	ug, Total	0.679	10	P9I1518	PSI0539-14	09-17-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-14	09-17-2009
Butyraldehyde	1.740	1.726	IH10	ug, Total	0.808	10	P9I1518	PSI0539-14	09-17-2009
Benzaldehyde	0.3040	0.2973	IH10	ug, Total	2.23	10	P9I1518	PSI0539-14	09-17-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-14	09-17-2009
Valeraldehyde	1.000	0.9942	IH10	ug, Total	0.582	10	P9I1518	PSI0539-14	09-17-2009
o-Tolualdehyde	0.2730	0.2706	IH10	ug, Total	0.883	10	P9I1518	PSI0539-14	09-17-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-14	09-17-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-14	09-17-2009
Hexaldehyde	2.440	2.412	IH10	ug, Total	1.15	10	P9I1518	PSI0539-14	09-17-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-14	09-17-2009
P9I1518-DUP2									
Formaldehyde	0.8020	0.7891	IH11	ug, Total	1.62	10	P9I1518	PSI0539-24	09-17-2009
Acetaldehyde	2.030	2.031	IH10	ug, Total	0.0492	10	P9I1518	PSI0539-24	09-17-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-24	09-17-2009
Acetone	0.4650	0.4618	IH11	ug, Total	0.691	10	P9I1518	PSI0539-24	09-17-2009
Propionaldehyde	0.4060	0.4041	IH10	ug, Total	0.469	10	P9I1518	PSI0539-24	09-17-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-24	09-17-2009
Butyraldehyde	0.5070	0.4915	IH10	ug, Total	3.1	10	P9I1518	PSI0539-24	09-17-2009
Benzaldehyde	0.1570	0.1509	IH10	ug, Total	3.96	10	P9I1518	PSI0539-24	09-17-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-24	09-17-2009
Valeraldehyde	0.3570	0.3609	IH10	ug, Total	1.09	10	P9I1518	PSI0539-24	09-17-2009
o-Tolualdehyde	0.09300	0.08999	IH10	ug, Total	3.29	10	P9I1518	PSI0539-24	09-17-2009
m-Tolualdehyde	0.05930	0.06085	IH10	ug, Total	2.58	10	P9I1518	PSI0539-24	09-17-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-24	09-17-2009
Hexaldehyde	0.8230	0.8274	IH10	ug, Total	0.533	10	P9I1518	PSI0539-24	09-17-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I1518	PSI0539-24	09-17-2009

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0539 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/10/09 Reported: 09/21/09 16:34	

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9I1518-BS1								
Formaldehyde	0.45	0.5382	IH11	ug, Total	120%	22-134	P9I1518	09-16-2009
Acetaldehyde	0.45	0.4624	IH10	ug, Total	103%	51-142	P9I1518	09-16-2009
Acrolein	0.45	0.2268	IH10, L2	ug, Total	50%	75-125	P9I1518	09-16-2009
Acetone	0.45	0.8464	IH11, L1	ug, Total	188%	75-125	P9I1518	09-16-2009
Propionaldehyde	0.45	0.6786	IH10, L1	ug, Total	151%	67-145	P9I1518	09-16-2009
Crotonaldehyde	0.45	0.3716	IH10	ug, Total	83%	66-146	P9I1518	09-16-2009
Butyraldehyde	0.45	0.5125	IH10	ug, Total	114%	56-141	P9I1518	09-16-2009
Benzaldehyde	0.45	0.4596	IH10	ug, Total	102%	57-142	P9I1518	09-16-2009
Isovaleraldehyde	0.45	0.4337	IH10	ug, Total	96%	66-144	P9I1518	09-16-2009
Valeraldehyde	0.45	0.4611	IH10	ug, Total	102%	66-144	P9I1518	09-16-2009
o-Tolualdehyde	0.45	0.4700	IH10	ug, Total	104%	39-130	P9I1518	09-16-2009
m-Tolualdehyde	0.45	0.4405	IH10	ug, Total	98%	73-143	P9I1518	09-16-2009
p-Tolualdehyde	0.45	0.4326	IH10	ug, Total	96%	66-147	P9I1518	09-16-2009
Hexaldehyde	0.45	0.4544	IH10	ug, Total	101%	65-145	P9I1518	09-16-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4408	IH10	ug, Total	98%	75-144	P9I1518	09-16-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9I1729-BS1								
Hydrochloric Acid	10.3	11.86	IH10	ug, Total	115%	70-130	P9I1729	09-17-2009
Hydrofluoric Acid	10.5	10.02	IH10	ug, Total	95%	70-130	P9I1729	09-17-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9I1518-BSD1												
Formaldehyde		0.5255	IH11	ug, Total	0.45	117%	22-134	2.39	20	P9I1518		09-16-2009
Acetaldehyde		0.4566	IH10	ug, Total	0.45	101%	51-142	1.26	20	P9I1518		09-16-2009
Acrolein		0.2106	IH10, L2	ug, Total	0.45	47%	75-125	7.41	20	P9I1518		09-16-2009
Acetone		1.795	IH11,	ug, Total	0.45	399%	75-125	71.8	20	P9I1518		09-16-2009
Propionaldehyde		0.6787	IH10, L1	ug, Total	0.45	151%	67-145	0.0147	20	P9I1518		09-16-2009
Crotonaldehyde		0.3707	IH10	ug, Total	0.45	82%	66-146	0.242	20	P9I1518		09-16-2009
Butyraldehyde		0.4901	IH10	ug, Total	0.45	109%	56-141	4.47	20	P9I1518		09-16-2009
Benzaldehyde		0.4893	IH10	ug, Total	0.45	109%	57-142	6.26	20	P9I1518		09-16-2009
Isovaleraldehyde		0.4456	IH10	ug, Total	0.45	99%	66-144	2.71	20	P9I1518		09-16-2009
Valeraldehyde		0.4588	IH10	ug, Total	0.45	102%	66-144	0.5	20	P9I1518		09-16-2009
o-Tolualdehyde		0.4815	IH10	ug, Total	0.45	107%	39-130	2.42	20	P9I1518		09-16-2009
m-Tolualdehyde		0.4388	IH10	ug, Total	0.45	98%	73-143	0.387	20	P9I1518		09-16-2009
p-Tolualdehyde		0.4254	IH10	ug, Total	0.45	95%	66-147	1.68	20	P9I1518		09-16-2009
Hexaldehyde		0.4491	IH10	ug, Total	0.45	100%	65-145	1.17	20	P9I1518		09-16-2009
2,5-Dimethyl Benzaldehyde		0.4331	IH10	ug, Total	0.45	96%	75-144	1.76	20	P9I1518		09-16-2009
Inorganic Acids by NIOSH 7903 (Modified)												
P9I1729-BSD1												

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0539 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/10/09 Reported: 09/21/09 16:34	

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9I1729-BSD1												
Hydrochloric Acid		12.03	IH10	ug, Total	10.3	117%	70-130	1.42	30	P9I1729		09-17-2009
Hydrofluoric Acid		10.22	IH10	ug, Total	10.5	97%	70-130	1.98	30	P9I1729		09-17-2009

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0539 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/10/09 Reported: 09/21/09 16:34	

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0539 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/10/09 Reported: 09/21/09 16:34	

DATA QUALIFIERS AND DEFINITIONS

IH10	Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.
IH11	Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
R-11	RPD exceeded the laboratory control limit. See case narrative.
RL7	Sample required dilution due to high concentration of target analyte.

ADDITIONAL COMMENTS

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~927~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~21175 Freeman Avenue~~
~~Cleveland, OH 44112~~
~~Phone: (216) 737-0109~~
~~Fax: (216) 737-0109~~

№ 8504

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7582
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

PSI 0539

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other AIR

Containers Intact: At L&A Y/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis / Method: HF	HCl	NIOSH 7903	Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C090709-01H				9/7/09	480	Cell Tower	1		X	X	X	-01		0.333 l/min
C090709-02H				9/7/09	480	Cell Tower	1		X	X	X	-02		0.359 "
C090709-03H				9/7/09	480	Cell Tower	1		X	X	X	-03		0.346 "
G090709-01H				9/7/09	480	Campground	1		X	X	X	-04		0.320 l/min
G090709-02H				9/7/09	480	Campground	1		X	X	X	-05		0.285 "
G090709-03H				9/7/09	480	Campground	1		X	X	X	-06		0.308 "
S090709-01H				9/7/09	480	School	1		X	X	X	-07		0.280 l/min
S090709-02H				9/7/09	480	School	1		X	X	X	-08		0.492 "
S090709-03H				9/7/09	480	School	1		X	X	X	-09		0.418 "
W090709-01H				9/7/09	480	Wetland	1		X	X	X	-10		0.321 l/min
W090709-02H				9/7/09	480	Wetland	1		X	X	X	-11		0.324 "
W090709-03H				9/7/09	480	Wetland	1		X	X	X	-12		0.273 "
090709A-H				9/7/09		Field Blanks	1		X	X	X	-13		No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/9/09 1500						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/9/09 800					[signature]	9/10/09 1030

Comments: 7.3°C
Custody Seals

Distributor: White - File; Yellow - Lab

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

975 ~~929~~ Eastwind Drive, Suite ~~217~~ 190
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~~2705 Freemont Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

№ 8505

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7582
Page 2 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SW-Surface Water, GW-Groundwater, SD-Sediment, WW-Wastewater, O-Other AIR

Containers Intact: At L&A (Y)/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis: Acetaldehyde TO-11	Acetone TO-11	Carbonyl TO-11	Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C090709-01A				9/7/09	480	Cell Tower	1			X	X	X	-14		0.456 l/min
C090709-02A				9/7/09	480	Cell Tower	1			X	X	X	-15		0.388 "
C090709-03A				9/7/09	480	Cell Tower	1			X	X	X	-16		0.471 "
													-		
G090709-01A				9/7/09	480	Campground	1			X	X	X	-17		0.279 l/min
G090709-02A				9/7/09	480	Campground	1			X	X	X	-18		0.264 "
G090709-03A				9/7/09	480	Campground	1			X	X	X	-19		0.365 "
S090709-01A				9/7/09	480	School	1			X	X	X	-20		0.250 l/min
S090709-02A				9/7/09	480	School	1			X	X	X	-21		0.478 "
S090709-03A				9/7/09	480	School	1			X	X	X	-22		0.260 "
W090709-01A				9/7/09	480	Wetland	1			X	X	X	-23		0.423 l/min
W090709-02A				9/7/09	480	Wetland	1			X	X	X	-24		0.386 "
W090709-03A				9/7/09	480	Wetland	1			X	X	X	-25		0.393 "
090709A-A				9/7/09		Field Blank	1			X	X	X	-26		No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/9/09 1500						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/9/09 800					[signature]	9/10/09 1030

Comments: 7.3°C custody seals

Distributor: White - File; Yellow - Lab

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #29

October 21, 2009

APPENDIX E. Laboratory Analytical Results from Event #141:
Sunday, September 13, 2009 to Monday, September 14, 2009

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H9I160202

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LKWDW	001	SU-C091309	09/13/09	
LKWD1	002	SU-G091309	09/13/09	
LKWD2	003	SU-S091309	09/13/09	
LKWD3	004	SU-W091309	09/13/09	
LKWD4	005	SU-COG091309	09/13/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H9I160202

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C091309

GC/MS Volatiles

Lot-Sample #	H9I160202 - 001	Work Order #	LKWDW1AA	Matrix.....:	AIR

Date Sampled...:	09/13/2009	Date Received..:	09/16/2009
Prep Date.....:	09/17/2009	Analysis Date...	09/17/2009
Prep Batch #.....:	9261234		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**9.2**	**5.0**	**22**		**12**
Ethylbenzene	**0.076**	**0.20**	**0.33**	**J**	**0.87**
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.12**	**0.50**	**0.48**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.36**	**0.50**	**1.3**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.050**	**0.50**	**0.23**	**J**	**2.3**
tert-Butyl alcohol	**0.077**	**2.0**	**0.23**	**J B**	**6.1**
Methylene chloride	**1.5**	**0.50**	**5.1**	**B**	**1.7**
Benzene	**0.18**	**0.20**	**0.57**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.45**	**0.20**	**1.7**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.060**	**0.20**	**0.46**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.19**	**0.20**	**0.92**	**J**	**0.98**
1,3,5-Trimethylbenzene	**0.081**	**0.20**	**0.40**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.10**	**0.20**	**0.44**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.21**	**0.20**	**0.93**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.1**	**1.0**	**3.3**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.081**	**0.50**	**0.33**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.12**	**0.50**	**0.36**	**J B**	**1.6**
Carbon tetrachloride	**0.087**	**0.20**	**0.55**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C091309

GC/MS Volatiles

Lot-Sample # H9I160202 - 001 Work Order # LKWDW1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.45**	**0.50**	**0.92**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.043**	**0.50**	**0.15**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.47**	**0.20**	**2.3**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-G091309

GC/MS Volatiles

Lot-Sample #	H9I160202 - 002	Work Order #	LKWD11AA	Matrix.....:	AIR

Date Sampled...:	09/13/2009	Date Received..:	09/16/2009
Prep Date.....:	09/17/2009	Analysis Date...	09/17/2009
Prep Batch #.....:	9261234		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**7.4**	**5.0**	**18**		**12**
Ethylbenzene	**0.074**	**0.20**	**0.32**	**J**	**0.87**
Trichlorofluoromethane	**0.26**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.12**	**0.50**	**0.50**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.30**	**0.50**	**1.1**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.059**	**0.50**	**0.28**	**J**	**2.3**
tert-Butyl alcohol	**0.093**	**2.0**	**0.28**	**J B**	**6.1**
Methylene chloride	**1.2**	**0.50**	**4.3**	**B**	**1.7**
Benzene	**0.22**	**0.20**	**0.71**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.50**	**0.20**	**1.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.071**	**0.20**	**0.54**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.57**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.096**	**0.20**	**0.42**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.22**	**0.20**	**0.96**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.65**	**1.0**	**1.9**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.065**	**0.50**	**0.27**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.094**	**0.50**	**0.29**	**J B**	**1.6**
Carbon tetrachloride	**0.082**	**0.20**	**0.52**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G091309

GC/MS Volatiles

Lot-Sample # H9I160202 - 002 Work Order # LKWD11AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.52**	**0.50**	**1.1**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.046**	**0.50**	**0.16**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.54**	**0.20**	**2.7**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S091309

GC/MS Volatiles

Lot-Sample #	H9I160202 - 003	Work Order #	LKWD21AA	Matrix.....:	AIR

Date Sampled...:	09/13/2009	Date Received..:	09/16/2009
Prep Date.....:	09/17/2009	Analysis Date...	09/17/2009
Prep Batch #.....:	9261234		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**15**	**5.0**	**36**		**12**
Ethylbenzene	**0.53**	**0.20**	**2.3**		**0.87**
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.59**	**0.50**	**2.4**		**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.71**	**0.50**	**2.5**		**1.8**
2,2,4-Trimethylpentane	**0.27**	**0.50**	**1.3**	**J**	**2.3**
tert-Butyl alcohol	**0.14**	**2.0**	**0.42**	**J B**	**6.1**
Methylene chloride	**0.96**	**0.50**	**3.3**	**B**	**1.7**
Benzene	**0.49**	**0.20**	**1.6**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	**0.10**	**0.20**	**0.69**	**J**	**1.4**
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**3.4**	**0.20**	**13**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.057**	**0.20**	**0.43**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.079**	**0.20**	**0.39**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.25**	**0.20**	**1.1**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**1.1**	**0.20**	**4.8**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.4**	**1.0**	**7.1**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.12**	**0.50**	**0.50**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	**0.034**	**0.20**	**0.13**	**J**	**0.78**
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.12**	**0.50**	**0.37**	**J B**	**1.6**
Carbon tetrachloride	**0.12**	**0.20**	**0.74**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S091309

GC/MS Volatiles

Lot-Sample # H9I160202 - 003 **Work Order #** LKWD21AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	**0.085**	**0.20**	**0.22**	**J**	**0.53**
Chloroform	ND	0.20	ND		0.98
Chloromethane	**1.3**	**0.50**	**2.6**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.14**	**0.50**	**0.47**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.42**	**0.20**	**2.1**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	90	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W091309

GC/MS Volatiles

Lot-Sample # H9I160202 - 004 **Work Order #** LKWD31AA **Matrix.....:** AIR

Date Sampled...: 09/13/2009 **Date Received..:** 09/16/2009
Prep Date.....: 09/17/2009 **Analysis Date...** 09/17/2009
Prep Batch #.....: 9261234
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**15**	**5.0**	**35**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.086**	**0.50**	**0.35**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.20**	**0.50**	**0.69**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.14**	**2.0**	**0.43**	**J B**	**6.1**
Methylene chloride	**0.64**	**0.50**	**2.2**	**B**	**1.7**
Benzene	**0.13**	**0.20**	**0.43**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.36**	**0.20**	**1.4**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.056**	**0.20**	**0.43**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.2**	**1.0**	**6.6**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.12**	**0.50**	**0.48**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.19**	**0.50**	**0.59**	**J B**	**1.6**
Carbon tetrachloride	**0.055**	**0.20**	**0.35**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W091309

GC/MS Volatiles

Lot-Sample # H91160202 - 004 **Work Order #** LKWD31AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	**0.039**	**0.20**	**0.10**	**J**	**0.53**
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.40**	**0.50**	**0.83**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.40**	**0.20**	**2.0**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.076**	**0.20**	**0.31**	**J**	**0.81**
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COG091309

GC/MS Volatiles

Lot-Sample #	H9I160202 - 005	**Work Order #**	LKWD41AA	**Matrix.....:**	AIR

Date Sampled...:	09/13/2009	**Date Received..:**	09/16/2009
Prep Date.....:	09/17/2009	**Analysis Date...**	09/17/2009
Prep Batch #.....:	9261234		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**18**	**5.0**	**42**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.13**	**0.50**	**0.52**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.29**	**0.50**	**1.0**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.056**	**0.50**	**0.26**	**J**	**2.3**
tert-Butyl alcohol	**0.15**	**2.0**	**0.46**	**J B**	**6.1**
Methylene chloride	**0.90**	**0.50**	**3.1**	**B**	**1.7**
Benzene	**0.20**	**0.20**	**0.63**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.42**	**0.20**	**1.6**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.070**	**0.20**	**0.54**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.062**	**0.20**	**0.27**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.12**	**0.20**	**0.53**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**3.0**	**1.0**	**8.7**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.13**	**0.50**	**0.53**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.10**	**0.50**	**0.32**	**J B**	**1.6**
Carbon tetrachloride	**0.059**	**0.20**	**0.37**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COG091309

GC/MS Volatiles

Lot-Sample # H9I160202 - 005 Work Order # LKWD41AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.52**	**0.50**	**1.1**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.056**	**0.50**	**0.19**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.49**	**0.20**	**2.4**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H9I180000 - 234B	**Work Order #**	LK2T91AA	**Matrix.....:**	AIR
	09/13/2009	**Date Received..:**	09/16/2009		
Prep Date.....:	09/17/2009	**Analysis Date...**	09/17/2009		
Prep Batch #.....:	9261234				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	ND	5.0	ND		12
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	ND	0.20	ND		1.1
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	ND	0.50	ND		1.8
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.061**	**2.0**	**0.19**	**J**	**6.1**
Methylene chloride	**0.11**	**0.50**	**0.37**	**J**	**1.7**
Benzene	ND	0.20	ND		0.64
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	ND	0.20	ND		0.75
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND		1.5
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.036**	**0.50**	**0.11**	**J**	**1.6**

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9I180000 - 234B Work Order # LK2T91AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9I180000 - 234C **Work Order #** LK2T91AC **Matrix.....:** AIR

	09/13/2009	**Date Received..:**	09/16/2009
Prep Date.....:	09/17/2009	**Analysis Date...**	09/17/2009
Prep Batch #.....:	9261234		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	2.50	2.52	11	11	101	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.50	2.16	17	15	87	60 - 140
Acetone	2.50	2.09	5.9	5.0	83	60 - 140
Ethylbenzene	2.50	2.52	11	11	101	70 - 130
Trichlorofluoromethane	2.50	2.38	14	13	95	60 - 140
n-Heptane	2.50	2.52	10	10	101	70 - 130
Hexachlorobutadiene	2.50	2.25	27	24	90	60 - 140
n-Hexane	2.50	2.12	8.8	7.5	85	70 - 130
2,2,4-Trimethylpentane	2.50	2.44	12	11	98	70 - 130
tert-Butyl alcohol	2.50	2.61	7.6	7.9	104	60 - 140
Methylene chloride	2.50	1.98	8.7	6.9	79	70 - 130
Benzene	2.50	2.13	8.0	6.8	85	70 - 130
Styrene	2.50	2.59	11	11	103	70 - 130
1,1,2,2-Tetrachloroethane	2.50	2.73	17	19	109	70 - 130
Tetrachloroethene	2.50	2.50	17	17	100	70 - 130
Tetrahydrofuran	2.50	2.14	7.4	6.3	85	70 - 130
Toluene	2.50	2.16	9.4	8.1	86	70 - 130
1,2,4-Trichlorobenzene	2.50	2.42	19	18	97	60 - 140
1,1,1-Trichloroethane	2.50	2.15	14	12	86	70 - 130
1,1,2-Trichloroethane	2.50	2.35	14	13	94	70 - 130
Trichloroethene	2.50	2.39	13	13	96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.50	2.29	19	18	91	70 - 130
1,2,4-Trimethylbenzene	2.50	2.84	12	14	114	70 - 130
1,3,5-Trimethylbenzene	2.50	2.78	12	14	111	70 - 130
Vinyl chloride	2.50	2.02	6.4	5.2	81	70 - 130
o-Xylene	2.50	2.67	11	12	107	70 - 130
Methyl tert-butyl ether	2.50	2.30	9.0	8.3	92	60 - 140
m-Xylene & p-Xylene	5.00	4.97	22	22	99	70 - 130
Bromodichloromethane	2.50	2.59	17	17	104	70 - 130
1,2-Dibromoethane (EDB)	2.50	2.47	19	19	99	70 - 130
2-Butanone (MEK)	2.50	2.08	7.4	6.1	83	60 - 140
4-Methyl-2-pentanone (MIBK)	2.50	3.07	10	13	123	60 - 140
Vinyl bromide	2.50	1.86	11	8.1	74	60 - 140
Bromoform	2.50	2.35	26	24	94	70 - 130
Bromomethane	2.50	1.86	9.7	7.2	74	70 - 130
1,3-Butadiene	2.50	2.08	5.5	4.6	83	60 - 140
4-Ethyltoluene	2.50	2.74	12	13	109	70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H9I180000 - 234C Work Order # LK2T91AC Matrix.....: AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	2.50	2.12	7.8	6.6	85	70 - 130
Carbon tetrachloride	2.50	2.78	16	18	111	70 - 130
Chlorobenzene	2.50	2.42	12	11	97	70 - 130
Dibromochloromethane	2.50	2.50	21	21	100	70 - 130
Chloroethane	2.50	1.87	6.6	4.9	75	70 - 130
Chloroform	2.50	2.02	12	9.8	81	70 - 130
Chloromethane	2.50	2.09	5.2	4.3	84	60 - 140
3-Chloropropene	2.50	2.25	7.8	7.1	90	70 - 130
2-Chlorotoluene	2.50	2.63	13	14	105	70 - 130
Cyclohexane	2.50	2.68	8.6	9.2	107	70 - 130
1,2-Dichlorobenzene	2.50	2.53	15	15	101	70 - 130
1,3-Dichlorobenzene	2.50	2.40	15	14	96	70 - 130
1,4-Dichlorobenzene	2.50	2.46	15	15	98	70 - 130
Dichlorodifluoromethane	2.50	2.49	12	12	100	60 - 140
1,1-Dichloroethane	2.50	2.00	10	8.1	80	70 - 130
1,2-Dichloroethane	2.50	2.54	10	10	102	70 - 130
1,1-Dichloroethene	2.50	2.17	9.9	8.6	87	70 - 130
cis-1,2-Dichloroethene	2.50	1.96	9.9	7.8	78	70 - 130
trans-1,2-Dichloroethene	2.50	2.02	9.9	8.0	81	70 - 130
1,2-Dichloropropane	2.50	2.20	12	10	88	70 - 130
cis-1,3-Dichloropropene	2.50	2.36	11	11	94	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

975 ~~929~~ Eastwind Drive, Suite 190 ~~211~~
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~7115 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

H9I160202

№ 8507

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7630
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, (O) Other AIR

Containers Intact: At L&A (Y)N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countryside

Sampler (print): Tony Noxon and Ric Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Method TO-15	Analysis VOC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C091309				9/13/09	1440	Cell Tower	1			X			2951
SU-G091309				9/13/09	1440	Campground	1			X			6683
SU-S091309				9/13/09	1440	School	1			X			6629
SU-W091309				9/13/09	1440	Wetland	1			X			12823
SU-COG091309				9/13/09	1440	Campground-Co-loc	1			X			12158

1 BOX REC'D AMBIENT
5 CANS, 6 FLOWS
FED EX # 8694 2482 7630
CUSTODY SEAL INTACT
TG 9/16/09

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/15/09 1600	[signature]	9/16/09 10:10				
[signature]	09/15/09 800						

Comments:

Distributor: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

H9I160202

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr., Suite 190
City/State/Zip: Westerville, Ohio 43081
Phone: (614) 818-5200
FAX: (614) 818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Sampled By: Tony Noxon and Rick Jones

2 of 2 COCs

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start (9/13/09)	Time Stop (9/14/09)	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Volume	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C091309	9/13/09	15:00	15:00	-27.5	-8.0	K111	2951	X											
SU-G091309				-28.0	-5.0	K364	6683	X											
SU-S091309				-27.0	-5.5	K118	6629	X											
SU-W091309				-25.0	-3.0	K100	12823	X											
SU-COG091309				-28.0	-5.0	K094	12158	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return Can #1708N, Did not use.

Canisters Shipped by:	Date/Time: 9/15/09 1600	Canisters Received by:
Samples Relinquished by:	Date/Time: 09/15/09 800	Received by:
Relinquished by:	Date/Time:	Received by:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

September 30, 2009

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order: PSI0875
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 09/16/09

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 14.9°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PSI0875
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 09/16/09
Reported: 09/30/09 15:27

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C091309-01H	PSI0875-01	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
C091309-02H	PSI0875-02	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
C091309-03H	PSI0875-03	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
G091309-01H	PSI0875-04	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
G091309-02H	PSI0875-05	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
G091309-03H	PSI0875-06	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
S091309-01H	PSI0875-07	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
S091309-02H	PSI0875-08	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
S091309-03H	PSI0875-09	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
W091309-01H	PSI0875-10	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
W091309-02H	PSI0875-11	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
W091309-03H	PSI0875-12	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
091309A-H	PSI0875-13	09/13/09	Silica Gel tube, 200/400 mg Specially cleaned
C091309-01A	PSI0875-14	09/13/09	DNPH Silica Gel Tube, 450 mg
C091309-02A	PSI0875-15	09/13/09	DNPH Silica Gel Tube, 450 mg
C091309-01A	PSI0875-16	09/13/09	DNPH Silica Gel Tube, 450 mg
G091309-01A	PSI0875-17	09/13/09	DNPH Silica Gel Tube, 450 mg
G091309-02A	PSI0875-18	09/13/09	DNPH Silica Gel Tube, 450 mg
G091309-03A	PSI0875-19	09/13/09	DNPH Silica Gel Tube, 450 mg
S091309-01A	PSI0875-20	09/13/09	DNPH Silica Gel Tube, 450 mg
S091309-02A	PSI0875-21	09/13/09	DNPH Silica Gel Tube, 450 mg
S091309-03A	PSI0875-22	09/13/09	DNPH Silica Gel Tube, 450 mg
W091309-01A	PSI0875-23	09/13/09	DNPH Silica Gel Tube, 450 mg
W091309-02A	PSI0875-24	09/13/09	DNPH Silica Gel Tube, 450 mg
W091309-03A	PSI0875-25	09/13/09	DNPH Silica Gel Tube, 450 mg
091309A-A	PSI0875-26	09/13/09	DNPH Silica Gel Tube, 450 mg

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4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0875 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/16/09 Reported: 09/30/09 15:27	

ANALYTICAL REPORT

Aldehydes and Ketones by EPA TO-11A (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-14 (C091309-01A)		**Tube**		**Sample Air Volume:209.76L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000143	<0.00002606	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	6.99	0.03332	0.0185	IH10, RL7	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.293	0.001397	0.0007753	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	6.70	0.03194	0.01773	IH10, RL7	9/22/2009	zn	0.300	EPA TO-11A
Acetone	3.50	0.01669	0.007024	IH10, IH11	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	1.57	0.007485	0.003151	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.93	0.009201	0.003873	IH11	9/21/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000143	<0.00006237	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.281	0.00134	0.0003086	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	2.48	0.01182	0.004009	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	0.0325	0.0001549	0.00005405	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde - Back (e)	0.0325	0.0001549	0.00005405	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde - Front	<0.0300	<0.000143	<0.00004989	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.30	0.01096	0.008927	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0668	0.0003185	0.0002593	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.23	0.01063	0.008656	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.47	0.01178	0.002874	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.119	0.0005673	0.000161	IH10	9/21/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0715	0.0003409	0.00006936	IH10	9/21/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.276	0.001316	0.0002678	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.35	0.006436	0.002709	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0421	0.0002007	0.00008449	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	1.31	0.006245	0.002629	IH10	9/21/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0708	0.0003375	0.00006869	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.804	0.003833	0.001088	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-15 (C091309-02A)		**Tube**		**Sample Air Volume:182.4L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001645	<0.00002997	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.94	0.01064	0.005904	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.102	0.0005592	0.0003104	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.84	0.01009	0.005599	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetone	0.566	0.003103	0.001306	IH10, IH11	9/21/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001645	<0.00007173	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.122	0.0006689	0.0001541	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.594	0.003257	0.001104	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0688	0.0003772	0.0001279	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	0.525	0.002878	0.0009759	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001645	<0.00005737	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.747	0.004095	0.003334	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0519	0.0002845	0.0002317	IH11	9/21/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-15 (C091309-02A) - cont.		**Tube**		**Sample Air Volume:182.4L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 10:18**	
Formaldehyde - Front	0.695	0.00381	0.003102	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.704	0.00386	0.0009422	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0535	0.0002933	0.00008326	IH10	9/21/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0518	0.000284	0.00005779	IH10	9/21/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.109	0.0005976	0.0001216	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.409	0.002242	0.000944	IH10	9/21/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001645	<0.00003347	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.250	0.001371	0.0003891	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-16 (C091309-01A)		**Tube**		**Sample Air Volume:219.84L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 10:18**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001365	<0.00002487	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.94	0.02247	0.01247	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0943	0.0004289	0.0002381	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.85	0.02206	0.01225	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	3.06	0.01392	0.00586	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.605	0.002752	0.001159	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.45	0.01114	0.004692	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001365	<0.00005951	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.231	0.001051	0.0002421	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.98	0.009007	0.003054	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back	0.116	0.0005277	0.0001789	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	1.86	0.008461	0.002869	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001365	<0.0000476	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.76	0.008006	0.006518	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0566	0.0002575	0.0002096	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.70	0.007733	0.006296	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.51	0.006869	0.001677	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0915	0.0004162	0.0001182	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0726	0.0003302	0.0000672	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.231	0.001051	0.0002138	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.932	0.004239	0.001785	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0312	0.0001419	0.00002888	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.523	0.002379	0.0006753	IH10	9/22/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-17 (G091309-01A)		**Tube**		**Sample Air Volume:124.32L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 10:18**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002413	<0.00004397	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.55	0.04464	0.02478	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.129	0.001038	0.0005759	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	5.42	0.0436	0.0242	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	3.30	0.02654	0.01117	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	1.24	0.009974	0.004199	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.06	0.01657	0.006976	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002413	<0.0001052	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.250	0.002011	0.0004633	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	2.41	0.01939	0.006573	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.356	0.002864	0.0009709	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	2.05	0.01649	0.005591	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002413	<0.00008418	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.33	0.01874	0.01526	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0632	0.0005084	0.0004139	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.27	0.01826	0.01487	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.22	0.01786	0.004359	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.118	0.0009492	0.0002694	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0894	0.0007191	0.0001463	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.175	0.001408	0.0002865	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.964	0.007754	0.003264	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0580	0.0004665	0.00009494	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.670	0.005389	0.00153	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-18 (G091309-02A)		**Tube**		**Sample Air Volume:122.4L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 10:18**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002451	<0.00004466	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.92	0.01569	0.008707	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0664	0.0005425	0.0003011	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.85	0.01511	0.008389	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	1.05	0.008578	0.003611	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.338	0.002761	0.001162	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.712	0.005817	0.002449	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002451	<0.0001069	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.193	0.001577	0.0003633	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.630	0.005147	0.001745	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0773	0.0006315	0.0002141	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	0.553	0.004518	0.001532	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002451	<0.0000855	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.942	0.007696	0.006266	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0596	0.0004869	0.0003964	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.882	0.007206	0.005867	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.905	0.007394	0.001805	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0496	0.0004052	0.000115	IH10	9/22/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-18 (G091309-02A) - cont.		**Tube**		**Sample Air Volume:122.4L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
m-Tolualdehyde	0.0610	0.0004984	0.0001014	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.115	0.0009395	0.0001912	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.372	0.003039	0.001279	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002451	<0.00004988	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.265	0.002165	0.0006146	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-19 (G091309-03A)		**Tube**		**Sample Air Volume:156.96L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001911	<0.00003483	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.96	0.0316	0.01754	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0836	0.0005326	0.0002956	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.88	0.03109	0.01726	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	2.62	0.01669	0.007027	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.470	0.002994	0.001261	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.15	0.0137	0.005766	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001911	<0.00008335	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.282	0.001797	0.0004139	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.69	0.01077	0.003651	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back	0.107	0.0006817	0.0002311	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	1.58	0.01007	0.003413	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001911	<0.00006667	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.25	0.01433	0.01167	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0543	0.0003459	0.0002817	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.20	0.01402	0.01141	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.61	0.01026	0.002504	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0842	0.0005364	0.0001523	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0779	0.0004963	0.000101	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.206	0.001312	0.0002671	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.883	0.005626	0.002368	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0324	0.0002064	0.00004201	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.503	0.003205	0.0009097	IH10	9/22/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-20 (S091309-01A)		**Tube**		**Sample Air Volume:116.64L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002572	<0.00004687	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	7.71	0.0661	0.03669	IH10, RL7	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.141	0.001209	0.000671	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	7.57	0.0649	0.03602	IH10, RL7	9/22/2009	zn	0.300	EPA TO-11A
Acetone	3.55	0.03044	0.01281	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	1.16	0.009945	0.004187	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.39	0.02049	0.008626	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002572	<0.0001122	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.160	0.001372	0.000316	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	2.16	0.01852	0.006279	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.278	0.002383	0.0008081	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	1.88	0.01612	0.005465	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002572	<0.00008972	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.72	0.01475	0.01201	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0639	0.0005478	0.000446	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.66	0.01423	0.01159	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.72	0.01475	0.0036	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0971	0.0008325	0.0002363	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0531	0.0004552	0.00009264	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.142	0.001217	0.0002477	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.19	0.0102	0.004295	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0608	0.0005213	0.0001061	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.543	0.004655	0.001322	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-21 (S091309-02A)		**Tube**		**Sample Air Volume:210.72L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001424	<0.00002594	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.91	0.009064	0.005031	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.119	0.0005647	0.0003135	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.79	0.008495	0.004715	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	0.632	0.002999	0.001263	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001424	<0.00006209	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0839	0.0003982	0.00009174	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.492	0.002335	0.0007917	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0575	0.0002729	0.00009252	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	0.434	0.00206	0.0006983	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001424	<0.00004966	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.583	0.002767	0.002253	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0592	0.0002809	0.0002287	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.524	0.002487	0.002025	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.586	0.002781	0.0006789	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0439	0.0002083	0.00005914	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0465	0.0002207	0.00004491	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0820	0.0003891	0.00007919	IH10	9/22/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-21 (S091309-02A) - cont.		**Tube**		**Sample Air Volume:210.72L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
Propionaldehyde	0.328	0.001557	0.0006553	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001424	<0.00002897	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.184	0.0008732	0.0002479	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-22 (S091309-03A)		**Tube**		**Sample Air Volume:108L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002778	<0.00005062	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.74	0.03463	0.01922	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0628	0.0005815	0.0003228	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.68	0.03407	0.01891	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	2.08	0.01926	0.008108	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.309	0.002861	0.001204	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.77	0.01639	0.006899	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002778	<0.0001211	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.124	0.001148	0.0002645	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.25	0.01157	0.003924	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back	0.0759	0.0007028	0.0002383	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	1.17	0.01083	0.003673	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002778	<0.0000969	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.18	0.01093	0.008896	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0523	0.0004843	0.0003943	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.13	0.01046	0.008519	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.966	0.008944	0.002183	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0658	0.0006093	0.000173	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0515	0.0004769	0.00009704	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.145	0.001343	0.0002732	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.676	0.006259	0.002635	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002778	<0.00005653	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.308	0.002852	0.0008096	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-23 (W091309-01A)		**Tube**		**Sample Air Volume:197.28L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001521	<0.00002771	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	7.18	0.03639	0.0202	IH10, RL7	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.170	0.0008617	0.0004783	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	7.01	0.03553	0.01972	IH10, RL7	9/22/2009	zn	0.300	EPA TO-11A
Acetone	3.59	0.0182	0.007661	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	1.24	0.006285	0.002646	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.35	0.01191	0.005015	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001521	<0.00006632	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.246	0.001247	0.0002873	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	2.27	0.01151	0.003901	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.272	0.001379	0.0004675	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	2.00	0.01014	0.003437	IH10	9/22/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-23 (W091309-01A) - cont.		**Tube**		**Sample Air Volume:197.28L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 10:18**	
Crotonaldehyde	<0.0300	<0.0001521	<0.00005305	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.34	0.01186	0.009657	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0634	0.0003214	0.0002617	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.28	0.01156	0.00941	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.90	0.009631	0.002351	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001521	<0.00004317	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0468	0.0002372	0.00004827	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.208	0.001054	0.0002146	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.11	0.005627	0.002369	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0484	0.0002453	0.00004992	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.582	0.00295	0.0008375	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-24 (W091309-02A)		**Tube**		**Sample Air Volume:182.88L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 10:18**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000164	<0.00002989	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.41	0.00771	0.004279	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0432	0.0002362	0.0001311	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.37	0.007491	0.004158	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	0.701	0.003833	0.001614	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000164	<0.00007154	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0930	0.0005085	0.0001172	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.463	0.002532	0.0008584	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0497	0.0002718	0.00009215	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	0.413	0.002258	0.0007657	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000164	<0.00005722	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.540	0.002953	0.002404	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0463	0.0002532	0.0002061	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.494	0.002701	0.002199	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.455	0.002488	0.0006073	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000164	<0.00004657	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0370	0.0002023	0.00004117	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0609	0.000333	0.00006777	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.231	0.001263	0.0005317	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000164	<0.00003338	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.182	0.0009952	0.0002825	IH10	9/22/2009	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-25 (W091309-03A)		**Tube**		**Sample Air Volume:182.88L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000164	<0.00002989	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.72	0.02581	0.01433	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0641	0.0003505	0.0001945	IH10	9/21/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.66	0.02548	0.01414	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	2.89	0.0158	0.006653	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.319	0.001744	0.0007343	IH10	9/21/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.57	0.01405	0.005916	IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000164	<0.00007154	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.186	0.001017	0.0002343	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.52	0.008311	0.002818	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000164	<0.00005722	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.82	0.009952	0.008103	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0707	0.0003866	0.0003148	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.75	0.009569	0.007791	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.19	0.006507	0.001588	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0469	0.0002565	0.0000728	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000164	<0.00003338	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.246	0.001345	0.0002737	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.762	0.004167	0.001754	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0417	0.000228	0.0000464	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.405	0.002215	0.0006287	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Sample ID: PSI0875-26 (091309A-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 10:18	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.0346	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Acetone	0.516	--	--	IH10, IH11	9/22/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0344	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.130	--	--	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0383	--	--	IH11	9/21/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0919	--	--	IH11	9/22/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	9/22/2009	zn	0.0300	EPA TO-11A

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(e) = Analyte concentration > 10% of front result indicates possible breakthrough

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-01 (C091309-01H)		**Tube**		**Sample Air Volume:134.4L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.01577	<0.01058	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01622	<0.01982	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-02 (C091309-02H)		**Tube**		**Sample Air Volume:147.36L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.01439	<0.009648	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01479	<0.01808	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-03 (C091309-03H)		**Tube**		**Sample Air Volume:141.6L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.01497	<0.01004	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.0154	<0.01881	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-04 (G091309-01H)		**Tube**		**Sample Air Volume:109.92L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.01929	<0.01293	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01983	<0.02423	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-05 (G091309-02H)		**Tube**		**Sample Air Volume:97.92L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.02165	<0.01452	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02226	<0.0272	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-06 (G091309-03H)		**Tube**		**Sample Air Volume:98.4L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.02154	<0.01445	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.02215	<0.02707	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-07 (S091309-01H)		**Tube**		**Sample Air Volume:133.92L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.01583	<0.01062	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01628	<0.01989	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-08 (S091309-02H)		**Tube**		**Sample Air Volume:182.88L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.01159	<0.007774	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01192	<0.01457	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-09 (S091309-03H)		**Tube**		**Sample Air Volume:159.36L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.0133	<0.008921	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01368	<0.01672	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-10 (W091309-01H)		**Tube**		**Sample Air Volume:125.76L**			**Sampled: 09/13/09**	
							Prepared: 09/21/09 12:00	
Hydrochloric Acid	<2.12	<0.01686	<0.0113	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSI0875 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 09/16/09 Reported: 09/30/09 15:27	

Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSI0875-10 (W091309-01H) - cont.		**Tube**		**Sample Air Volume:125.76L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 12:00**	
Hydrofluoric Acid	<2.18	<0.01733	<0.02118	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-11 (W091309-02H)		**Tube**		**Sample Air Volume:129.6L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 12:00**	
Hydrochloric Acid	<2.12	<0.01636	<0.01097	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01682	<0.02055	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-12 (W091309-03H)		**Tube**		**Sample Air Volume:135.84L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 12:00**	
Hydrochloric Acid	<2.12	<0.01561	<0.01047	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	<0.01605	<0.01961	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)
Sample ID: PSI0875-13 (091309A-H)		**Tube**		**Sample Air Volume:L**			**Sampled: 09/13/09**	
	ug, Total	mg/m3	ppm				**Prepared: 09/21/09 12:00**	
Hydrochloric Acid	<2.12	--	--	IH10	9/21/2009	AY	2.12	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.18	--	--	IH10	9/21/2009	AY	2.18	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
P9I2106-BLK1							
Formaldehyde	0.07401		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Formaldehyde - Back	0.03562		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Acetaldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Acetaldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Acrolein	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Acrolein - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Acetone	0.4890		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Acetone - Back	<0.300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Propionaldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Crotonaldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Butyraldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Benzaldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Isovaleraldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Valeraldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
o-Tolualdehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
m-Tolualdehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
p-Tolualdehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Hexaldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9I2106		P9I2106-BLK1	09-21-2009
Inorganic Acids by NIOSH 7903 (Modified)							
P9I2123-BLK1							
Hydrochloric Acid	<2.12	IH10	ug, Total	P9I2123		P9I2123-BLK1	09-21-2009
Hydrochloric Acid - Back	<2.12	IH10	ug, Total	P9I2123		P9I2123-BLK1	09-21-2009
Hydrofluoric Acid	<2.18	IH10	ug, Total	P9I2123		P9I2123-BLK1	09-21-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)							
P9I2123-BLK1							
Hydrofluoric Acid - Back	<2.18	IH10	ug, Total	P9I2123		P9I2123-BLK1	09-21-2009

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9I2106-DUP1									
Formaldehyde	2.230	2.226	IH11	ug, Total	0.18	10	P9I2106	PSI0875-14	09-21-2009
Acetaldehyde	6.700	6.627	IH10, RL7	ug, Total	1.1	10	P9I2106	PSI0875-14	09-22-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-14	09-21-2009
Acetone	1.930	1.928	IH11	ug, Total	0.104	10	P9I2106	PSI0875-14	09-21-2009
Propionaldehyde	1.310	1.305	IH10	ug, Total	0.382	10	P9I2106	PSI0875-14	09-21-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-14	09-21-2009
Butyraldehyde	2.480	2.475	IH10	ug, Total	0.202	10	P9I2106	PSI0875-14	09-21-2009
Benzaldehyde	0.2810	0.2799	IH10	ug, Total	0.392	10	P9I2106	PSI0875-14	09-21-2009
Isovaleraldehyde	0.1190	0.1105	IH10	ug, Total	7.41	10	P9I2106	PSI0875-14	09-21-2009
Valeraldehyde	0.8040	0.7989	IH10	ug, Total	0.636	10	P9I2106	PSI0875-14	09-21-2009
o-Tolualdehyde	0.2760	0.2743	IH10	ug, Total	0.618	10	P9I2106	PSI0875-14	09-21-2009
m-Tolualdehyde	0.07150	0.07191	IH10	ug, Total	0.572	10	P9I2106	PSI0875-14	09-21-2009
p-Tolualdehyde	0.07080	0.07452	IH10	ug, Total	5.12	10	P9I2106	PSI0875-14	09-21-2009
Hexaldehyde	2.470	2.467	IH10	ug, Total	0.122	10	P9I2106	PSI0875-14	09-21-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-14	09-21-2009
P9I2106-DUP2									
Formaldehyde	0.4940	0.4985	IH11	ug, Total	0.907	10	P9I2106	PSI0875-24	09-22-2009
Acetaldehyde	1.370	1.362	IH10	ug, Total	0.586	10	P9I2106	PSI0875-24	09-22-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-24	09-22-2009
Acetone	0.7010	0.6987	IH11	ug, Total	0.329	10	P9I2106	PSI0875-24	09-22-2009
Propionaldehyde	0.2310	0.2313	IH10	ug, Total	0.13	10	P9I2106	PSI0875-24	09-22-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-24	09-22-2009
Butyraldehyde	0.4130	0.4153	IH10	ug, Total	0.555	10	P9I2106	PSI0875-24	09-22-2009
Benzaldehyde	0.09300	0.09154	IH10	ug, Total	1.58	10	P9I2106	PSI0875-24	09-22-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-24	09-22-2009
Valeraldehyde	0.1820	0.1850	IH10	ug, Total	1.63	10	P9I2106	PSI0875-24	09-22-2009
o-Tolualdehyde	0.06090	0.05816	IH10	ug, Total	4.6	10	P9I2106	PSI0875-24	09-22-2009
m-Tolualdehyde	0.03700	0.03924	IH10	ug, Total	5.88	10	P9I2106	PSI0875-24	09-22-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-24	09-22-2009
Hexaldehyde	0.4550	0.4542	IH10	ug, Total	0.176	10	P9I2106	PSI0875-24	09-22-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9I2106	PSI0875-24	09-22-2009

LCS

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Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9I2106-BS1								
Formaldehyde	0.45	0.5084	IH11	ug, Total	113%	22-134	P9I2106	09-21-2009
Acetaldehyde	0.45	0.4633	IH10	ug, Total	103%	51-142	P9I2106	09-21-2009
Acrolein	0.45	0.3316	IH10, L2	ug, Total	74%	75-125	P9I2106	09-21-2009
Acetone	0.45	0.9483	IH11, L1	ug, Total	211%	75-125	P9I2106	09-21-2009
Propionaldehyde	0.45	0.5373	IH10	ug, Total	119%	67-145	P9I2106	09-21-2009
Crotonaldehyde	0.45	0.4002	IH10	ug, Total	89%	66-146	P9I2106	09-21-2009
Butyraldehyde	0.45	0.4958	IH10	ug, Total	110%	56-141	P9I2106	09-21-2009
Benzaldehyde	0.45	0.4399	IH10	ug, Total	98%	57-142	P9I2106	09-21-2009
Isovaleraldehyde	0.45	0.4307	IH10	ug, Total	96%	66-144	P9I2106	09-21-2009
Valeraldehyde	0.45	0.4532	IH10	ug, Total	101%	66-144	P9I2106	09-21-2009
o-Tolualdehyde	0.45	0.4506	IH10	ug, Total	100%	39-130	P9I2106	09-21-2009
m-Tolualdehyde	0.45	0.4249	IH10	ug, Total	94%	73-143	P9I2106	09-21-2009
p-Tolualdehyde	0.45	0.4180	IH10	ug, Total	93%	66-147	P9I2106	09-21-2009
Hexaldehyde	0.45	0.4504	IH10	ug, Total	100%	65-145	P9I2106	09-21-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4293	IH10	ug, Total	95%	75-144	P9I2106	09-21-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9I2123-BS1								
Hydrochloric Acid	10.3	11.58	IH10	ug, Total	112%	70-130	P9I2123	09-21-2009
Hydrofluoric Acid	10.5	9.735	IH10	ug, Total	93%	70-130	P9I2123	09-21-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9I2106-BSD1												
Formaldehyde		0.5052	IH11	ug, Total	0.45	112%	22-134	0.631	20	P9I2106		09-21-2009
Acetaldehyde		0.4583	IH10	ug, Total	0.45	102%	51-142	1.09	20	P9I2106		09-21-2009
Acrolein		0.3363	IH10	ug, Total	0.45	75%	75-125	1.41	20	P9I2106		09-21-2009
Acetone		0.9121	IH11, L1	ug, Total	0.45	203%	75-125	3.89	20	P9I2106		09-21-2009
Propionaldehyde		0.5348	IH10	ug, Total	0.45	119%	67-145	0.466	20	P9I2106		09-21-2009
Crotonaldehyde		0.3998	IH10	ug, Total	0.45	89%	66-146	0.1	20	P9I2106		09-21-2009
Butyraldehyde		0.5014	IH10	ug, Total	0.45	111%	56-141	1.12	20	P9I2106		09-21-2009
Benzaldehyde		0.4519	IH10	ug, Total	0.45	100%	57-142	2.69	20	P9I2106		09-21-2009
Isovaleraldehyde		0.4368	IH10	ug, Total	0.45	97%	66-144	1.41	20	P9I2106		09-21-2009
Valeraldehyde		0.4543	IH10	ug, Total	0.45	101%	66-144	0.242	20	P9I2106		09-21-2009
o-Tolualdehyde		0.4544	IH10	ug, Total	0.45	101%	39-130	0.84	20	P9I2106		09-21-2009
m-Tolualdehyde		0.4264	IH10	ug, Total	0.45	95%	73-143	0.352	20	P9I2106		09-21-2009
p-Tolualdehyde		0.4212	IH10	ug, Total	0.45	94%	66-147	0.763	20	P9I2106		09-21-2009
Hexaldehyde		0.4516	IH10	ug, Total	0.45	100%	65-145	0.266	20	P9I2106		09-21-2009
2,5-Dimethyl Benzaldehyde		0.4293	IH10	ug, Total	0.45	95%	75-144	0.00000238	20	P9I2106		09-21-2009
Inorganic Acids by NIOSH 7903 (Modified)												
P9I2123-BSD1												

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LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9I2123-BSD1												
Hydrochloric Acid		11.95	IH10	ug, Total	10.3	116%	70-130	3.14	30	P9I2123		09-21-2009
Hydrofluoric Acid		9.879	IH10	ug, Total	10.5	94%	70-130	1.47	30	P9I2123		09-21-2009

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CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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DATA QUALIFIERS AND DEFINITIONS

IH10	Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.
IH11	Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
RL7	Sample required dilution due to high concentration of target analyte.

ADDITIONAL COMMENTS

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

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~~Cleveland, OH 44113~~
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~~Fax: (216) 737-0109~~

№ 8508

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7641
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SW-Surface Water, GW-Groundwater, SD-Sediment, WW-Wastewater, O-Other AIR

Containers Intact: At L&A Y/N, At Lab Y/N

As Received by Lab: PSI0875

Project No: 07-0082

Project Name: Countywide

Sampler (print): Tony Noxon and Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis / Method: HF	HCl	NIOSH 7903													Remarks: Sample Flow Rate
C091309-01H				9/13/09	480	Cell Tower	1		X	X	X			-01										0.280 l/min
C091309-02H				9/13/09	480	Cell Tower	1		X	X	X			-02										0.307 "
C091309-03H				9/13/09	480	Cell Tower	1		X	X	X			-03										0.295 "
G091309-01H				9/13/09	480	Campground	1		X	X	X			-04										0.229 l/min
G091309-02H				9/13/09	480	Campground	1		X	X	X			-05										0.204 "
G091309-03H				9/13/09	480	Campground	1		X	X	X			-06										0.205 "
S091309-01H				9/13/09	480	School	1		X	X	X			-07										0.279 l/min
S091309-02H				9/13/09	480	School	1		X	X	X			-08										0.381 "
S091309-03H				9/13/09	480	School	1		X	X	X			-09										0.332 "
W091309-01H				9/13/09	480	Wetland	1		X	X	X			-10										0.262 l/min
W091309-02H				9/13/09	480	Wetland	1		X	X	X			-11										0.270 "
W091309-03H				9/13/09	480	Wetland	1		X	X	X			-12										0.283 "
091309A-H				9/13/09		Field Blank	1		X	X	X			-13										No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/15/09 1600						
[signature]	9/15/09 0800					[signature]	9/16/09 1030

Comments: Custody Seal 14.9°C ICE

Distributor: White - File; Yellow - Lab

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

975 ~~929~~ Eastwind Drive, Suite 190 ~~211~~
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2115 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

№ 8509

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8694 2482 7641
Page 2 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other AIR

Containers Intact: At L&A (Y)/N; At Lab Y/N

As Received by Lab: PSC0875

Project No: 07-0082

Project Name: Countywide

Sampler (print): Tony Noxon and Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ Min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis Method: Aldehyde TO-11	Ketone TO-11	Carbonyl TO-11				Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C091309-01A				9/13/09	480	Cell Tower	1		X	X	X				-14		0.437 l/min
C091309-02A				9/13/09	480	Cell Tower	1		X	X	X				-15		0.380 "
C091309-03A				9/13/09	480	Cell Tower	1		X	X	X				-16		0.458 "
G091309-01A				9/13/09	480	Campground	1		X	X	X				-17		0.259 l/min
G091309-02A				9/13/09	480	Campground	1		X	X	X				-18		0.255 "
G091309-03A				9/13/09	480	Campground	1		X	X	X				-19		0.327 "
S091309-01A				9/13/09	480	School	1		X	X	X				-20		0.243 l/min
S091309-02A				9/13/09	480	School	1		X	X	X				-21		0.439 "
S091309-03A				9/13/09	480	School	1		X	X	X				-22		0.225 "
W091309-01A				9/13/09	480	Wetland	1		X	X	X				-23		0.411 l/min
W091309-02A				9/13/09	480	Wetland	1		X	X	X				-24		0.381 "
W091309-03A				9/13/09	480	Wetland	1		X	X	X				-25		0.381 "
091309A-A				9/13/09	—	Field Blank	1		X	X	X				-26		No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/15/09 1600						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	9/15/09 0800					[signature]	9/16/09 1030

Comments:

Custody Seal
14.9°C ICE

Distributor: White - File; Yellow - Lab