Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX A. Laboratory Analytical Results from Event #96:
Sampling conducted Wednesday December 17 to Thursday December 18, 2008

Test America Laboratories: EPA Method TO-15M
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8L230176

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
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Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 5, 2009

ANALYTICAL METHODS SUMMARY

H8L230176

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H8L230176

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K467E	001	SU-IBD121808	12/18/08	
K467K	002	SU-C121708	12/17/08	
K467L	003	SU-G121708	12/17/08	
K467N	004	SU-S121708	12/17/08	
K467P	005	SU-W121708	12/17/08	
K467R	006	SU-COS121708	12/17/08	

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
H8L230176

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

Five of the sample canisters were received without a label.

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. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 12/31/08 exhibited a %difference of >30% but ≤40% for acetone and 2-butanone.

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

Sample

Lawhon & Associates, Inc.

Client Sample ID: SU-IBD121808

GC/MS Volatiles

Lot-Sample # H8L230176 - 001 **Work Order #** K467E1AA **Matrix.....:** AIR

Date Sampled...: 12/18/2008
Prep Date.....: 12/30/2008
Prep Batch #.....: 8365308
Dilution Factor.: 1

Date Received..: 12/23/2008
Analysis Date... 12/30/2008

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	**5.1**	**5.0**	**12**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.24**	**0.20**	**1.4**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.50**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.12**	**2.0**	**0.36**	**J**	**6.1**
Methylene chloride	**0.34**	**0.50**	**1.2**	**J B**	**1.7**
Benzene	**0.32**	**0.20**	**1.0**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	**0.22**	**0.20**	**1.5**		**1.4**
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	**0.22**	**1.0**	**0.65**	**J**	**2.9**
Toluene	**0.19**	**0.20**	**0.73**	**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	**1.5**	**0.20**	**8.2**		**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	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)	**1.4**	**1.0**	**4.1**		**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	**0.077**	**0.50**	**0.24**	**J**	**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.69**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBD121808

GC/MS Volatiles

Lot-Sample # H8L230176 - 001 **Work Order #** K467E1AA **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	**0.039**	**0.20**	**0.19**	**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	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	**0.54**	**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	**0.11**	**0.20**	**0.43**	**J**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Ethyl alcohol	3.3	ppb(v/v)
Methyl Alcohol	2.6	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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-C121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 002 **Work Order #** K467K1AA **Matrix.....:** AIR

Date Sampled...: 12/17/2008 **Date Received..:** 12/23/2008
Prep Date.....: 12/30/2008 **Analysis Date...** 12/30/2008
Prep Batch #.....: 8365308
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	**3.2**	**5.0**	**7.7**	**J**	**12**
Ethylbenzene	**0.097**	**0.20**	**0.42**	**J**	**0.87**
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.089**	**0.50**	**0.36**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.48**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.13**	**2.0**	**0.41**	**J**	**6.1**
Methylene chloride	**0.85**	**0.50**	**3.0**	**B**	**1.7**
Benzene	**0.28**	**0.20**	**0.90**		**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	**0.077**	**0.20**	**0.59**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.36**	**0.20**	**1.8**		**0.98**
1,3,5-Trimethylbenzene	**0.097**	**0.20**	**0.47**	**J**	**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)	**0.31**	**1.0**	**0.93**	**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	**0.17**	**0.40**	**0.85**	**J**	**2.0**
Carbon disulfide	**0.14**	**0.50**	**0.42**	**J**	**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.68**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 002 **Work Order #** K467K1AA **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	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	**0.49**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-G121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 003 Work Order # K467L1AA Matrix.....: AIR

Date Sampled...: 12/17/2008
Prep Date.....: 12/30/2008
Prep Batch #.....: 8365308
Dilution Factor.: 1

Date Received..: 12/23/2008
Analysis Date... 12/30/2008

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	**7.3**	**5.0**	**17**		**12**
Ethylbenzene	**0.078**	**0.20**	**0.34**	**J**	**0.87**
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.084**	**0.50**	**0.34**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.16**	**0.50**	**0.56**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.19**	**2.0**	**0.56**	**J**	**6.1**
Methylene chloride	**0.65**	**0.50**	**2.3**	**B**	**1.7**
Benzene	**0.30**	**0.20**	**0.97**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	**0.067**	**0.20**	**0.46**	**J**	**1.4**
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.38**	**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	**0.039**	**0.20**	**0.21**	**J**	**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.084**	**0.20**	**0.64**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.16**	**0.20**	**0.78**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.086**	**0.20**	**0.37**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.22**	**0.20**	**0.97**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.84**	**1.0**	**2.5**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.061**	**0.50**	**0.25**	**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	**0.079**	**0.40**	**0.39**	**J**	**2.0**
Carbon disulfide	**0.064**	**0.50**	**0.20**	**J**	**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.70**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 003 **Work Order #** K467L1AA **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	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	**0.52**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-S121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 004 Work Order # K467N1AA Matrix.....: AIR

Date Sampled...: 12/17/2008
Prep Date.....: 12/31/2008
Prep Batch #.....: 9005185
Dilution Factor.: 1

Date Received..: 12/23/2008
Analysis Date... 01/01/2009

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	**5.0**	**5.0**	**12**		**12**
Ethylbenzene	**0.084**	**0.20**	**0.36**	**J**	**0.87**
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.070**	**0.50**	**0.29**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.15**	**0.50**	**0.51**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.098**	**2.0**	**0.30**	**J**	**6.1**
Methylene chloride	**0.98**	**0.50**	**3.4**	**B**	**1.7**
Benzene	**0.25**	**0.20**	**0.80**		**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	**0.33**	**0.20**	**1.3**		**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	**0.078**	**0.20**	**0.60**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.31**	**0.20**	**1.5**		**0.98**
1,3,5-Trimethylbenzene	**0.075**	**0.20**	**0.37**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.12**	**0.20**	**0.51**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.33**	**0.20**	**1.4**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.51**	**1.0**	**1.5**	**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	**0.12**	**0.40**	**0.58**	**J**	**2.0**
Carbon disulfide	**0.052**	**0.50**	**0.16**	**J**	**1.6**
Carbon tetrachloride	**0.095**	**0.20**	**0.60**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 004 **Work Order #** K467N1AA **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**	**0.93**	**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	**0.48**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-W121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 005 Work Order # K467P1AA Matrix.....: AIR

Date Sampled...: 12/17/2008 Date Received..: 12/23/2008
Prep Date.....: 12/30/2008 Analysis Date... 12/30/2008
Prep Batch #.....: 8365308
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	**5.0**	**5.0**	**12**		**12**
Ethylbenzene	**0.075**	**0.20**	**0.33**	**J**	**0.87**
Trichlorofluoromethane	**0.26**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.088**	**0.50**	**0.36**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.17**	**0.50**	**0.59**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.12**	**2.0**	**0.37**	**J**	**6.1**
Methylene chloride	**1.3**	**0.50**	**4.6**	**B**	**1.7**
Benzene	**0.29**	**0.20**	**0.93**		**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	**0.087**	**0.20**	**0.67**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.23**	**0.20**	**1.1**		**0.98**
1,3,5-Trimethylbenzene	**0.076**	**0.20**	**0.37**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.095**	**0.20**	**0.41**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.24**	**0.20**	**1.1**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.69**	**1.0**	**2.0**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.051**	**0.50**	**0.21**	**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	**0.098**	**0.40**	**0.48**	**J**	**2.0**
Carbon disulfide	**0.067**	**0.50**	**0.21**	**J**	**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.68**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 005 **Work Order #** K467P1AA **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	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	**0.90**	**0.20**	**4.5**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	98	70 - 130

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-COS121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 006 **Work Order #** K467R1AA **Matrix.....:** AIR

Date Sampled...: 12/17/2008 **Date Received..:** 12/23/2008
Prep Date.....: 12/30/2008 **Analysis Date...** 12/30/2008
Prep Batch #.....: 8365308
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	**2.5**	**5.0**	**5.9**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.20**	**0.20**	**1.1**		**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	**0.73**	**0.50**	**2.5**	**B**	**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	**0.033**	**0.20**	**0.26**	**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)	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	**0.057**	**0.50**	**0.18**	**J**	**1.6**

Lawhon & Associates, Inc.

Client Sample ID: SU-COS121708

GC/MS Volatiles

Lot-Sample # H8L230176 - 006 **Work Order #** K467R1AA **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	**0.48**	**0.50**	**1.00**	**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	**0.50**	**0.20**	**2.5**		**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	70 - 130

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 # H8L300000 - 308B **Work Order #** K5DAT1AA **Matrix.....:** AIR

	12/23/2008	**Date Received..:**	12/27/2008
Prep Date.....:	12/30/2008	**Analysis Date...**	12/30/2008
Prep Batch #.....:	8365308		
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	**0.063**	**0.50**	**0.22**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H8L300000 - 308B **Work Order #** K5DAT1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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 # H8L300000 - 308C **Work Order #** K5DAT1AC **Matrix.....:** AIR

Prep Date.....: 12/23/2008 12/30/2008
Prep Batch #.....: 8365308
Dilution Factor.: 1

Date Received..: 12/27/2008
Analysis Date... 12/30/2008
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
Benzene	12.5	9.48	40	30	76	70 - 130
Toluene	12.5	10.5	47	40	84	70 - 130
Trichloroethene	12.5	13.0	67	70	104	70 - 130
Chlorobenzene	12.5	10.4	58	48	83	70 - 130
1,1-Dichloroethene	12.5	12.0	50	48	96	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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 # H9A050000 - 185B **Work Order #** K5FQM1AA **Matrix.....:** AIR

	12/23/2008	**Date Received..:**	12/27/2008
Prep Date.....:	12/31/2008	**Analysis Date...**	12/31/2008
Prep Batch #.....:	9005185		
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	**0.087**	**0.50**	**0.30**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A050000 - 185B **Work Order #** K5FQM1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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 # H9A050000 - 185C **Work Order #** K5FQM1AC **Matrix.....:** AIR

12/23/2008 **Date Received..:** 12/27/2008
Prep Date.....: 12/31/2008 **Analysis Date...** 12/31/2008
Prep Batch #.....: 9005185
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
Benzene	12.5	9.96	40	32	80	70 - 130
Toluene	12.5	9.85	47	37	79	70 - 130
Trichloroethene	12.5	15.0	67	81	120	70 - 130
Chlorobenzene	12.5	10.4	58	48	83	70 - 130
1,1-Dichloroethene	12.5	12.6	50	50	101	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	70 - 130

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.

~~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

H8L 230176

№ 8309

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

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): Tony Noxon / Rachel Secrest

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis	VOC	TO15	TIC	Expected Conc. (H,M,L)	Hold	Remarks:
SU-IBD121808				12/18/08	1480	Downwind Construction	1				X		X			Summa Can # 02792

REC. AT AMBIENT
CUSTODY SEAL INTACT
2 BOXES RH 12/23/08
FED EX # 868301283185
↓ 3152

8 CANS / 8 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	12/22 1500	Ryan Henry	12/23/08 1225				
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

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

H8L230176

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 Drive Suite 190
City/State/Zip Westerville, Ohio 43081
Phone (614) 818-5200
FAX: (614) 818-5219
Project Name: Countywide
Site/location: Construction Zone
PO # 07-0082

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

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

Sampled By: Rachel Searest/Tony Norton

2 of 2 COCs

Sample Identification	Sample Date(s)	Run time ~~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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-18D121808	12/18/08	480	min	25.0	-5.0	K279	02792	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

TIC

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time: 12-22-08	Canisters Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

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

976 ~~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~~

H8L230176

№ 8333

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 0128 3152
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shaun 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	Sample Location	Number of Containers	Turn Around/Requirements		Analysis / Method: VOC TO15	TIC TO15													Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C121708				12/17/08	1440	Cell Tower	1			X	X															12346
SU-G121708				12/17/08	1440	Campground	1			X	X															1355
SU-S121708				12/17/08	1440	School	1			X	X															7500
SU-W121708				12/17/08	1440	Wetland	1			X	X															6669
SU-COS121708				12/17/08	1440	Co-Located school	1			X	X															12427

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	12/19/08 1200	Ryan Henry	12/23/08 1225				
	12/19/08 15:00						

Comments:

Distributor: White - File; Yellow - Lab

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

1781-230176

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: 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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C121708	12/17/08	3:00pm	3:00pm	-25.5	-4.0	K217	12346	X					X						
SU-G121708	↓	↓	↓	-26.0	-2.0	K251	1355	X					X						
SU-S121708	↓	↓	↓	-25.5	-1.0	K245	7500	X					X						
SU-W121708	↓	↓	↓	-25.0	-0.5	K342	6669	X					X						
SU-COS121708	↓	↓	↓	-25.0	-2.5	K385	12427	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

TIC

Special Instructions/QC Requirements & Comments:

Return can #35288N -> did not use flow had cracked face when received. (K190).

Canisters Shipped by:	Date/Time: 12-19-08 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 12/19/08 12:00	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H8L231176

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☑ 1e No label ☐ 1f COC not received ☐ 1g Other:	1e - NO SAMPLE LABEL FOR 5 CANS; MATCHED BY CAN ID.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 12/23/08

QA026R19.doc, 080707

Summary of Results

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 12/31/08
Job Number: E08-14572
Date Received: 12/23/08
Date Analyzed:12/30/08

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C121708-01A		C121708-02A		C121708-03A		Reporting
IAL ID:	E08-14572-14		E08-14572-15		E08-14572-16		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	< 0.1	N/A	0.10	N/A	0.11	N/A	0.1
Acetaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Acetone	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Acrolein	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Propionaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Crotonaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Butyraldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Benzaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Isovaleraldehyde	< 0.6	N/A	< 0.6	N/A	< 0.6	N/A	0.6
Valeraldehyde	< 0.2	N/A	< 0.2	N/A	< 0.2	N/A	0.2
o-Tolualdehyde	< 0.2	N/A	< 0.2	N/A	< 0.2	N/A	0.2
m- and p-Tolualdehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1
Hexaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	N/A	0.1

Sample Name:	G121708-01A		G121708-02A		G121708-03A		Reporting
IAL ID:	E08-14572-17		E08-14572-18		E08-14572-19		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.34	2.6	0.28	11	0.17	3.9	0.1
Acetaldehyde	0.17	1.3	0.15	5.9	0.15	3.4	0.1
Acetone	< 0.1	< 0.8	< 0.1	< 4	< 0.1	< 2	0.1
Acrolein	< 0.1	< 0.8	< 0.1	< 4	< 0.1	< 2	0.1
Propionaldehyde	< 0.1	< 0.8	< 0.1	< 4	< 0.1	< 2	0.1
Crotonaldehyde	< 0.1	< 0.8	< 0.1	< 4	< 0.1	< 2	0.1
Butyraldehyde	< 0.1	< 0.8	< 0.1	< 4	< 0.1	< 2	0.1

Benzaldehyde	< 0.1	< 0.8	0.11	4.3	< 0.1	< 2	0.1
Isovaleraldehyde	< 0.6	< 5	< 0.6	< 24	< 0.6	< 14	0.6
Valeraldehyde	< 0.2	< 2	< 0.2	< 8	< 0.2	< 5	0.2
o-Tolualdehyde	< 0.2	< 2	< 0.2	< 8	< 0.2	< 5	0.2
m- and p-Tolualdehyde	< 0.1	< 0.8	< 0.1	< 4	< 0.1	< 2	0.1
Hexaldehyde	< 0.1	< 0.8	< 0.1	< 4	< 0.1	< 2	0.1

Lawhon & Associates, Inc. Job Number: E08-14572
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	S121708-01A		S121708-02A		S121708-03A		Reporting
IAL ID:	E08-14572-20		E08-14572-21		E08-14572-22		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.22	1.6	0.26	1.2	0.36	1.6	0.1
Acetaldehyde	0.17	1.2	0.20	0.92	0.26	1.2	0.1
Acetone	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Acrolein	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Propionaldehyde	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Crotonaldehyde	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Butyraldehyde	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Benzaldehyde	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Isovaleraldehyde	< 0.6	< 4	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 0.9	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 0.9	0.2
m- and p-Tolualdehyde	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Hexaldehyde	< 0.1	< 0.7	< 0.1	< 0.5	< 0.1	< 0.5	0.1

Sample Name:	W121708-01A		W121708-02A		W121708-03A		Reporting
IAL ID:	E08-14572-23		E08-14572-24		E08-14572-25		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.26	1.7	0.32	2.1	0.28	1.9	0.1
Acetaldehyde	0.17	1.1	0.24	1.5	0.20	1.4	0.1
Acetone	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Acrolein	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.7	0.1

Propionaldehyde	< 0.1	< 1	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Crotonaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Butyraldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Benzaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Isovaleraldehyde	< 0.6	< 4	< 0.6	< 4	< 0.6	< 4	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Hexaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.7	0.1

Lawhon & Associates, Inc.
Jobsite: Countywide
Project: #07-0082

Job Number: E08-14572

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name: 121708A-A
IAL ID: E08-14572-26

Compound	ug	ug/m3	Reporting Limits ug
Formaldehyde	0.11	N/A	0.1
Acetaldehyde	< 0.1	N/A	0.1
Acetone	< 0.1	N/A	0.1
Acrolein	< 0.1	N/A	0.1
Propionaldehyde	< 0.1	N/A	0.1
Crotonaldehyde	< 0.1	N/A	0.1
Butyraldehyde	< 0.1	N/A	0.1
Benzaldehyde	< 0.1	N/A	0.1
Isovaleraldehyde	< 0.6	N/A	0.6
Valeraldehyde	< 0.2	N/A	0.2
o-Tolualdehyde	< 0.2	N/A	0.2

m- and p-Tolualdehyde	< 0.1	N/A	0.1
Hexaldehyde	< 0.1	N/A	0.1

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

Summary of Results

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

Report Date: 12/29/08
Job Number: E08-14572
Date Received: 12/23/08
Date Analyzed: 12/29/08

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

		Hydrogen Fluoride		Hydrogen Chloride	
Sample ID	IAL ID	ug	ug/m3	ug	ug/m3
C121708-01H	E08-14572-01	1.1	N/A	< 0.4	< N/A
C121708-02H	E08-14572-02	1.2	N/A	< 0.4	< N/A
C121708-03H*	E08-14572-03	1.4	N/A	< 0.4	< N/A
G121708-01H*	E08-14572-04	1.6	17	< 0.4	< 4
G121708-02H	E08-14572-05	0.84	49	< 0.4	< 22
G121708-03H	E08-14572-06	0.89	29	0.52	17
S121708-01H*	E08-14572-07	1.7	13	< 0.4	< 3
S121708-02H	E08-14572-08	0.84	5.0	< 0.4	< 2
S121708-03H	E08-14572-09	1.0	6.9	< 0.4	< 3
W121708-01H	E08-14572-10	0.95	7.8	< 2	< 17
W121708-02H*	E08-14572-11	1.4	15	< 0.4	< 4
W121708-03H*	E08-14572-12	1.6	13	0.67	5.5
121708A-H	E08-14572-13	0.79	N/A	< 0.4	N/A
Reporting Limit		0.6		0.4	

*Denotes breakthrough from the front to the back of the sorbent tube for Fluoride anion.

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: D. Mitchell

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX B. Laboratory Analytical Results from Event #97:
Sampling conducted Tuesday December 23 through Wednesday December 24, 2008

Test America Laboratories: EPA Method TO-15
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8L300239

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 8, 2009

ANALYTICAL METHODS SUMMARY

H8L300239

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H8L300239

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K5DFM	001	SU-C122308	12/23/08	
K5DFQ	002	SU-G122308	12/23/08	
K5DFT	003	SU-S122308	12/23/08	
K5DFW	004	SU-W122308	12/23/08	
K5DF3	005	SU-COG122308	12/23/08	

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
H8L300239

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. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 12/31/08 exhibited a %difference of >30% but ≤40% for acetone and 2-butanone.

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-C122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 001 **Work Order #** K5DFM1AA **Matrix.....:** AIR

Date Sampled...: 12/23/2008 **Date Received..:** 12/30/2008
Prep Date.....: 12/31/2008 **Analysis Date...** 12/31/2008
Prep Batch #.....: 9005185
Dilution Factor.: 2.67 **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	0.53	ND		2.4
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.53	ND		3.7
Acetone	**130**	**13**	**320**		**32**
Ethylbenzene	**0.33**	**0.53**	**1.4**	**J**	**2.3**
Trichlorofluoromethane	**0.26**	**0.53**	**1.5**	**J**	**3.0**
n-Heptane	ND	1.3	ND		5.5
Hexachlorobutadiene	ND	2.7	ND		28
n-Hexane	**0.31**	**1.3**	**1.1**	**J**	**4.7**
2,2,4-Trimethylpentane	ND	1.3	ND		6.2
tert-Butyl alcohol	ND	5.3	ND		16
Methylene chloride	**1.1**	**1.3**	**3.7**	**J B**	**4.6**
Benzene	**1.2**	**0.53**	**3.8**		**1.7**
Styrene	ND	0.53	ND		2.3
1,1,2,2-Tetrachloroethane	ND	0.53	ND		3.7
Tetrachloroethene	**0.12**	**0.53**	**0.84**	**J**	**3.6**
Tetrahydrofuran	**0.25**	**2.7**	**0.73**	**J**	**7.9**
Toluene	**2.0**	**0.53**	**7.5**		**2.0**
1,2,4-Trichlorobenzene	ND	2.7	ND		20
1,1,1-Trichloroethane	ND	0.53	ND		2.9
1,1,2-Trichloroethane	ND	0.53	ND		2.9
Trichloroethene	ND	0.53	ND		2.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.53	ND		4.1
1,2,4-Trimethylbenzene	**0.30**	**0.53**	**1.5**	**J**	**2.6**
1,3,5-Trimethylbenzene	ND	0.53	ND		2.6
Vinyl chloride	ND	0.53	ND		1.4
o-Xylene	**0.28**	**0.53**	**1.2**	**J**	**2.3**
Methyl tert-butyl ether	ND	2.7	ND		9.6
m-Xylene & p-Xylene	**0.80**	**0.53**	**3.5**		**2.3**
Bromodichloromethane	ND	0.53	ND		3.6
1,2-Dibromoethane (EDB)	ND	0.53	ND		4.1
2-Butanone (MEK)	**5.2**	**2.7**	**15**		**7.9**
4-Methyl-2-pentanone (MIBK)	**0.32**	**1.3**	**1.3**	**J**	**5.5**
Vinyl bromide	ND	0.53	ND		2.3
Bromoform	ND	0.53	ND		5.5
Bromomethane	ND	0.53	ND		2.1
1,3-Butadiene	ND	1.1	ND		2.4
4-Ethyltoluene	ND	1.1	ND		5.3
Carbon disulfide	**0.22**	**1.3**	**0.67**	**J**	**4.2**
Carbon tetrachloride	ND	0.53	ND		3.4

Lawhon & Associates, Inc.

Client Sample ID: SU-C122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 001 **Work Order #** K5DFM1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.53	ND		2.5
Dibromochloromethane	ND	0.53	ND		4.5
Chloroethane	**0.098**	**0.53**	**0.26**	**J**	**1.4**
Chloroform	ND	0.53	ND		2.6
Chloromethane	**1.3**	**1.3**	**2.6**		**2.8**
3-Chloropropene	ND	0.53	ND		1.7
2-Chlorotoluene	ND	1.1	ND		5.5
Cyclohexane	ND	1.3	ND		4.6
1,2-Dichlorobenzene	ND	0.53	ND		3.2
1,3-Dichlorobenzene	ND	0.53	ND		3.2
1,4-Dichlorobenzene	ND	0.53	ND		3.2
Dichlorodifluoromethane	**0.51**	**0.53**	**2.5**	**J**	**2.6**
1,1-Dichloroethane	ND	0.53	ND		2.2
1,2-Dichloroethane	ND	0.53	ND		2.2
1,1-Dichloroethene	ND	0.53	ND		2.1
cis-1,2-Dichloroethene	**0.16**	**0.53**	**0.65**	**J**	**2.1**
trans-1,2-Dichloroethene	ND	0.53	ND		2.1
1,2-Dichloropropane	ND	0.53	ND		2.5
cis-1,3-Dichloropropene	ND	0.53	ND		2.4

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Acetaldehyde	15	ppb(v/v)
Cobalt, (2-methyl-.eta.-3-propenyl)-(pen	19	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	70 - 130

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-G122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 002 **Work Order #** K5DFQ1AA **Matrix.....:** AIR

Date Sampled...: 12/23/2008 **Date Received..:** 12/30/2008
Prep Date.....: 12/31/2008 **Analysis Date...** 12/31/2008
Prep Batch #.....: 9005185
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	**1.9**	**5.0**	**4.6**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.24**	**0.20**	**1.4**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.10**	**0.50**	**0.37**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.052**	**2.0**	**0.16**	**J**	**6.1**
Methylene chloride	**0.25**	**0.50**	**0.86**	**J B**	**1.7**
Benzene	**0.18**	**0.20**	**0.59**	**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	**0.19**	**0.20**	**0.70**	**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	**0.078**	**0.20**	**0.60**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.064**	**0.20**	**0.32**	**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	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	**0.050**	**0.50**	**0.16**	**J**	**1.6**
Carbon tetrachloride	**0.10**	**0.20**	**0.64**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 002 **Work Order #** K5DFQ1AA **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	**0.55**	**0.50**	**1.1**	**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	**0.50**	**0.20**	**2.5**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-S122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 003 **Work Order #** K5DFT1AA **Matrix.....:** AIR

Date Sampled...: 12/23/2008 **Date Received..:** 12/30/2008
Prep Date.....: 12/31/2008 **Analysis Date...** 12/31/2008
Prep Batch #.....: 9005185
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	**2.3**	**5.0**	**5.6**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.066**	**0.50**	**0.27**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.50**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.047**	**2.0**	**0.14**	**J**	**6.1**
Methylene chloride	**0.33**	**0.50**	**1.2**	**J 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	**0.25**	**0.20**	**0.95**		**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	**0.080**	**0.20**	**0.61**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.076**	**0.20**	**0.37**	**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)	**0.21**	**1.0**	**0.61**	**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	**0.060**	**0.50**	**0.19**	**J**	**1.6**
Carbon tetrachloride	**0.092**	**0.20**	**0.58**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 003 **Work Order #** K5DFT1AA **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	**0.47**	**0.50**	**0.98**	**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	**0.49**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-W122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 004 **Work Order #** K5DFW1AA **Matrix.....:** AIR

Date Sampled...: 12/23/2008 **Date Received..:** 12/30/2008
Prep Date.....: 12/31/2008 **Analysis Date...** 12/31/2008
Prep Batch #.....: 9005185
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	**3.0**	**5.0**	**7.2**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.056**	**0.50**	**0.23**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.42**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.068**	**2.0**	**0.21**	**J**	**6.1**
Methylene chloride	**0.25**	**0.50**	**0.86**	**J B**	**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	ND	1.0	ND		2.9
Toluene	**0.20**	**0.20**	**0.74**		**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	**0.073**	**0.20**	**0.56**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.10**	**0.20**	**0.51**	**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	**0.14**	**0.20**	**0.63**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.32**	**1.0**	**0.94**	**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	**0.071**	**0.40**	**0.35**	**J**	**2.0**
Carbon disulfide	**0.041**	**0.50**	**0.13**	**J**	**1.6**
Carbon tetrachloride	**0.081**	**0.20**	**0.51**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 004 **Work Order #** K5DFW1AA **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	**0.47**	**0.50**	**0.97**	**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	**0.47**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	70 - 130

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-COG122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 005 **Work Order #** K5DF31AA **Matrix.....:** AIR

Date Sampled...: 12/23/2008 **Date Received..:** 12/30/2008
Prep Date.....: 12/31/2008 **Analysis Date...** 12/31/2008
Prep Batch #.....: 9005185
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	**3.9**	**5.0**	**9.3**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.049**	**0.50**	**0.20**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.41**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.056**	**2.0**	**0.17**	**J**	**6.1**
Methylene chloride	**0.27**	**0.50**	**0.94**	**J B**	**1.7**
Benzene	**0.19**	**0.20**	**0.60**	**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	**0.23**	**0.20**	**0.88**		**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	**0.080**	**0.20**	**0.61**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.064**	**0.20**	**0.32**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.073**	**0.20**	**0.32**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.17**	**0.20**	**0.75**	**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	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	**0.085**	**0.20**	**0.54**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COG122308

GC/MS Volatiles

Lot-Sample # H8L300239 - 005 **Work Order #** K5DF31AA **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	**0.49**	**0.50**	**1.0**	**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	**0.48**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	70 - 130

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 # H9A050000 - 185B **Work Order #** K5FQM1AA **Matrix.....:** AIR

	12/23/2008	**Date Received..:**	12/27/2008
Prep Date.....:	12/31/2008	**Analysis Date...**	12/31/2008
Prep Batch #.....:	9005185		
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	**0.087**	**0.50**	**0.30**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A050000 - 185B **Work Order #** K5FQM1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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 # H9A050000 - 185C **Work Order #** K5FQM1AC **Matrix.....:** AIR

12/23/2008 **Date Received..:** 12/27/2008
Prep Date.....: 12/31/2008 **Analysis Date...** 12/31/2008
Prep Batch #.....: 9005185
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
Benzene	12.5	9.96	40	32	80	70 - 130
Toluene	12.5	9.85	47	37	79	70 - 130
Trichloroethene	12.5	15.0	67	81	120	70 - 130
Chlorobenzene	12.5	10.4	58	48	83	70 - 130
1,1-Dichloroethene	12.5	12.6	50	50	101	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	70 - 130

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

H8L300239

№ 8310

Sent To: Test America (Lab Name)
VIA: Fed
Air Bill No.:

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

Signature: [signature]

Sample I.D. No.	Type	Type	Type	Date	Time Min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis Method	VOC TO15	TIC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C122308				12/23/08	190	Cell Tower	1			X	X			12539
SU-G122308				12/23/08	1440	Campground	1			X	X			12186
SU-S122308				12/23/08	1440	School	1			X	X			6671
SU-W122308				12/23/08	1440	Wetland	1			X	X			93244
SU-COG122308				12/23/08	1440	Co-Located Campground	1			X	X			[illegible] 6353
														[illegible]

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	12/26 1500	Ryan Henry	12/30/08 1000				
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

20

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
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: Lawhon & Associates, Inc
Address: 975 Eastwind drive
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 Anoloro
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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU - C 12 23 08 *	12/23/08	11:50 am	3:00 pm	-25.0"	-23.5 "Hg	K 107	12539	X					X						
SU - G 12 23 08	↓	3:00 pm	3:00 pm	-25.5"	-2.5 "Hg	K 406	12186	X					X						
SU - S 12 23 08	↓	↓	↓	-25.0"	0.0 "Hg	K 323	6671	X					X						
SU - W 12 23 08	↓	↓	↓	-26.0"	-1.0 "Hg	K 134	93244	X					X						
SU - COG 12 23 08	↓	↓	↓	-25.0"	0.0 "Hg	K 256	6353	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

TIC

REC. AT AMBIENT
CUSTODY SEAL INTACT
1 BOX RH 12/30/08
FED EX # 868301283211

6 CANS / 6 FLOWS

Special Instructions/QC Requirements & Comments:
* Cell Tower ran 12-24-08 @ 1150 until 300pm on 12-24-08
- Return 6616 → Did not use

Canisters Shipped by:	Date/Time: 12/26/08 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 12/26/08 1500	Received by: Ryan Henry 12/30/08 1000
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H8L300239

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 12/30/08

QA026R19.doc, 080707

Summary of Results

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 01/08/09
Job Number: E08-14676
Date Received: 12/31/08
Date Analyzed: 01/08/09

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C122308-01A		C122308-02A		C122308-03A		Reporting
IAL ID:	E08-14676-14		E08-14676-15		E08-14676-16		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	< 0.1	N/A	< 0.1	N/A	0.22	2.4	0.1
Acetaldehyde	< 0.1	N/A	< 0.1	N/A	0.10	1.1	0.1
Acetone	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1
Acrolein	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1
Propionaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1
Crotonaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1
Butyraldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1
Benzaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1
Isovaleraldehyde	< 0.6	N/A	< 0.6	N/A	< 0.6	< 7	0.6
Valeraldehyde	< 0.2	N/A	< 0.2	N/A	< 0.2	< 2	0.2
o-Tolualdehyde	< 0.2	N/A	< 0.2	N/A	< 0.2	< 2	0.2
m- and p-Tolualdehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1
Hexaldehyde	< 0.1	N/A	< 0.1	N/A	< 0.1	< 1	0.1

Sample Name:	G122308-01A *		G122308-02A *		G122308-03A *		Reporting
IAL ID:	E08-14676-17		E08-14676-18		E08-14676-19		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Acetaldehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Acetone	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Acrolein	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Propionaldehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Crotonaldehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Butyraldehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1

Benzaldehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Isovaleraldehyde	< 0.6	< 5	< 0.6	< 4	< 0.6	< 4	0.6
Valeraldehyde	< 0.2	< 2	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 2	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1
Hexaldehyde	< 0.1	< 0.8	< 0.1	< 0.6	< 0.1	< 0.7	0.1

Lawhon & Associates, Inc. Job Number: E08-14676
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	S122308-01A		S122308-02A		S122308-03A		Reporting
IAL ID:	E08-14676-20		E08-14676-21		E08-14676-22		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.22	1.7	0.30	1.4	0.28	1.2	0.1
Acetaldehyde	0.22	1.7	0.20	0.92	0.22	1.0	0.1
Acetone	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Acrolein	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Propionaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Crotonaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Butyraldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Benzaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Isovaleraldehyde	< 0.6	< 5	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 2	< 0.2	< 0.9	< 0.2	< 0.9	0.2
o-Tolualdehyde	< 0.2	< 2	< 0.2	< 0.9	< 0.2	< 0.9	0.2
m- and p-Tolualdehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Hexaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1

Sample Name:	W122308-01A		W122308-02A		W122308-03A		Reporting
IAL ID:	E08-14676-23		E08-14676-24		E08-14676-25		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.28	1.8	0.28	1.7	0.28	1.7	0.1
Acetaldehyde	0.22	1.4	0.20	1.2	0.19	1.1	0.1
Acetone	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Acrolein	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1

Propionaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Crotonaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Butyraldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Benzaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Isovaleraldehyde	< 0.6	< 4	< 0.6	< 4	< 0.6	< 4	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Hexaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1

Lawhon & Associates, Inc.
Jobsite: Countywide
Project: #07-0082

Job Number: E08-14676

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name: 122308A-A
IAL ID: E08-14676-26

Compound	ug	ug/m3	Reporting Limits ug
Formaldehyde	< 0.1	N/A	0.1
Acetaldehyde	< 0.1	N/A	0.1
Acetone	< 0.1	N/A	0.1
Acrolein	< 0.1	N/A	0.1
Propionaldehyde	< 0.1	N/A	0.1
Crotonaldehyde	< 0.1	N/A	0.1
Butyraldehyde	< 0.1	N/A	0.1
Benzaldehyde	< 0.1	N/A	0.1
Isovaleraldehyde	< 0.6	N/A	0.6
Valeraldehyde	< 0.2	N/A	0.2
o-Tolualdehyde	< 0.2	N/A	0.2

m- and p-Tolualdehyde	< 0.1	N/A	0.1
Hexaldehyde	< 0.1	N/A	0.1

* As per client note on the chain of custody, the campground pump may not have been pumping, possibly not allowing air to be sampled.

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Summary of Results

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

Report Date: 01/08/09
Job Number: E08-14676
Date Received: 12/31/08
Date Analyzed: 01/07/09

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

		Hydrogen Fluoride		Hydrogen Chloride	
Sample ID	IAL ID	ug	ug/m3	ug	ug/m3
C122308-01H	E08-14676-01	< 0.6	N/A	< 0.4	N/A
C122308-02H	E08-14676-02	< 0.6	N/A	< 0.4	N/A
C122308-03H	E08-14676-03	< 0.6	< 10	< 0.4	< 6
G122308-01H *	E08-14676-04	< 0.6	< 6	< 0.4	< 4
G122308-02H *	E08-14676-05	< 0.6	< 6	< 0.4	< 3
G122308-03H *	E08-14676-06	< 0.6	< 6	< 0.4	< 4
S122308-01H	E08-14676-07	< 0.6	< 5	< 0.4	< 3
S122308-02H	E08-14676-08	< 0.6	< 4	< 0.4	< 2
S122308-03H	E08-14676-09	< 0.6	< 4	< 0.4	< 3
W122308-01H	E08-14676-10	< 0.6	< 5	< 0.4	< 3
W122308-02H	E08-14676-11	< 0.6	< 6	< 0.4	< 4
W122308-03H	E08-14676-12	< 0.6	< 5	< 0.4	< 3
122308A-H	E08-14676-13	< 0.6	N/A	< 0.4	< N/A
Reporting Limit		0.6		0.4	

* As per client note on the chain of custody, the campground pump may not have been pumping, possibly not allowing air to be sampled.

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX C. Laboratory Analytical Results from Event #98:
Sampling conducted Monday December 29 to Tuesday December 30, 2008

Test America Laboratories: EPA Method TO-15
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H9A060168

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 9, 2009

ANALYTICAL METHODS SUMMARY

H9A060168

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H9A060168

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K5GWJ	001	SU-C122908	12/29/08	
K5GWM	002	SU-G122908	12/29/08	
K5GWN	003	SU-S122908	12/29/08	
K5GWQ	005	SU-COW122908	12/29/08	

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
H9A060168

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

The containers for all samples were received without a label.

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.

Canister 2981 for sample SU-W122908 was received open with a loosely screwed cap and at ambient pressure. The sample was cancelled per clients request.

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-C122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 001 **Work Order #** K5GWJ1AA **Matrix.....:** AIR

Date Sampled...: 12/29/2008 **Date Received..:** 01/06/2009
Prep Date.....: 01/06/2009 **Analysis Date...** 01/06/2009
Prep Batch #.....: 9007154
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	**1.8**	**5.0**	**4.2**	**J**	**12**
Ethylbenzene	**0.076**	**0.20**	**0.33**	**J**	**0.87**
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.067**	**0.50**	**0.28**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.41**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.052**	**2.0**	**0.16**	**J**	**6.1**
Methylene chloride	**0.44**	**0.50**	**1.5**	**J B**	**1.7**
Benzene	**0.21**	**0.20**	**0.67**		**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	**0.27**	**0.20**	**1.0**		**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	**0.086**	**0.20**	**0.66**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.32**	**0.20**	**1.6**		**0.98**
1,3,5-Trimethylbenzene	**0.087**	**0.20**	**0.43**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.10**	**0.20**	**0.45**	**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)	**0.28**	**1.0**	**0.84**	**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	**0.13**	**0.40**	**0.64**	**J**	**2.0**
Carbon disulfide	**0.060**	**0.50**	**0.19**	**J B**	**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.71**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 001 **Work Order #** K5GWJ1AA **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	**0.55**	**0.50**	**1.1**	**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	**0.53**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	70 - 130

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-G122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 002 **Work Order #** K5GWM1AA **Matrix.....:** AIR

Date Sampled...: 12/29/2008 **Date Received..:** 01/06/2009
Prep Date.....: 01/06/2009 **Analysis Date...** 01/06/2009
Prep Batch #.....: 9007154
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	**2.5**	**5.0**	**6.0**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.091**	**0.50**	**0.37**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.50**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.072**	**2.0**	**0.22**	**J**	**6.1**
Methylene chloride	**0.43**	**0.50**	**1.5**	**J B**	**1.7**
Benzene	**0.20**	**0.20**	**0.65**		**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	**0.26**	**0.20**	**1.00**		**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	**0.069**	**0.20**	**0.34**	**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**	**0.69**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.29**	**1.0**	**0.87**	**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	**0.053**	**0.50**	**0.16**	**J B**	**1.6**
Carbon tetrachloride	**0.086**	**0.20**	**0.54**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 002 **Work Order #** K5GWM1AA **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	**0.47**	**0.50**	**0.96**	**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	**0.52**	**0.20**	**2.6**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.31**	**0.20**	**1.3**		**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	70 - 130

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-S122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 003 Work Order # K5GWN1AA Matrix.....: AIR

Date Sampled...: 12/29/2008 Date Received..: 01/06/2009
Prep Date.....: 01/06/2009 Analysis Date... 01/06/2009
Prep Batch #.....: 9007154
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	**10**	**5.0**	**24**		**12**
Ethylbenzene	**0.58**	**0.20**	**2.5**		**0.87**
Trichlorofluoromethane	**0.29**	**0.20**	**1.6**		**1.1**
n-Heptane	**0.17**	**0.50**	**0.68**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.36**	**0.50**	**1.3**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.12**	**0.50**	**0.56**	**J**	**2.3**
tert-Butyl alcohol	**0.89**	**2.0**	**2.7**	**J**	**6.1**
Methylene chloride	**3.2**	**0.50**	**11**	**B**	**1.7**
Benzene	**0.36**	**0.20**	**1.1**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	**0.11**	**0.20**	**0.74**	**J**	**1.4**
Tetrachloroethene	**0.69**	**0.20**	**4.7**		**1.4**
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**1.6**	**0.20**	**6.1**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	**0.077**	**0.20**	**0.42**	**J**	**1.1**
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	**0.38**	**0.20**	**2.1**		**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.083**	**0.20**	**0.63**	**J**	**1.5**
1,2,4-Trimethylbenzene	**1.1**	**0.20**	**5.4**		**0.98**
1,3,5-Trimethylbenzene	**0.45**	**0.20**	**2.2**		**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.76**	**0.20**	**3.3**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**2.4**	**0.20**	**10**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.5**	**1.0**	**4.3**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.33**	**0.50**	**1.3**	**J**	**2.0**
Vinyl bromide	**0.083**	**0.20**	**0.36**	**J**	**0.87**
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	**0.12**	**0.40**	**0.27**	**J**	**0.88**
4-Ethyltoluene	**0.49**	**0.40**	**2.4**		**2.0**
Carbon disulfide	**0.099**	**0.50**	**0.31**	**J B**	**1.6**
Carbon tetrachloride	**0.12**	**0.20**	**0.77**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 003 **Work Order #** K5GWN1AA **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	**0.076**	**0.20**	**0.20**	**J**	**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	ND	0.50	ND		1.7
1,2-Dichlorobenzene	**0.10**	**0.20**	**0.62**	**J**	**1.2**
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.55**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Acetaldehyde	2.8	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	70 - 130

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-COW122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 005 **Work Order #** K5GWQ1AA **Matrix.....:** AIR

Date Sampled...: 12/29/2008 **Date Received..:** 01/06/2009
Prep Date.....: 01/06/2009 **Analysis Date...** 01/06/2009
Prep Batch #.....: 9007154
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	**4.3**	**5.0**	**10**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.24**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.056**	**0.50**	**0.23**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.10**	**0.50**	**0.37**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.067**	**2.0**	**0.20**	**J**	**6.1**
Methylene chloride	**0.37**	**0.50**	**1.3**	**J 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	**0.25**	**0.20**	**0.94**		**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**	**0.57**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.095**	**0.20**	**0.47**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.069**	**0.20**	**0.30**	**J**	**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)	**0.38**	**1.0**	**1.1**	**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	**0.049**	**0.50**	**0.15**	**J B**	**1.6**
Carbon tetrachloride	**0.10**	**0.20**	**0.63**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COW122908

GC/MS Volatiles

Lot-Sample # H9A060168 - 005 **Work Order #** K5GWQ1AA **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	**0.49**	**0.50**	**1.0**	**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	**0.49**	**0.20**	**2.4**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.21**	**0.20**	**0.84**		**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	103	70 - 130

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 # H9A070000 - 154B **Work Order #** K5HQR1AA **Matrix.....:** AIR

	12/29/2008	**Date Received..:**	01/06/2009
Prep Date.....:	01/06/2009	**Analysis Date...**	01/06/2009
Prep Batch #.....:	9007154		
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	**0.30**	**0.50**	**1.0**	**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	**0.046**	**0.50**	**0.14**	**J**	**1.6**

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A070000 - 154B **Work Order #** K5HQR1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	70 - 130

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 # H9A070000 - 154C **Work Order #** K5HQR1AC **Matrix.....:** AIR

12/29/2008
Prep Date.....: 01/06/2009
Prep Batch #.....: 9007154
Dilution Factor.: 1

Date Received..: 01/06/2009
Analysis Date... 01/06/2009

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
Benzene	12.5	10.4	40	33	83	70 - 130
Toluene	12.5	10.7	47	40	85	70 - 130
Trichloroethene	12.5	12.5	67	67	100	70 - 130
Chlorobenzene	12.5	10.8	58	49	86	70 - 130
1,1-Dichloroethene	12.5	11.3	50	45	90	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	70 - 130

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 ~~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~~

H9A060168

№ 8320

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 8128 3244

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 Iannaggi

Signature: [signature]

Sample I.D. No.	Type	Type	Type	Date	Time Min	Sample Location	Number of Containers	Turn Around/Requirements	Method TO15	Analysis VOC	Analysis TIC	Expected Conc. (H,M,L)	Hold	Remarks: SUMMA Can #
SU-C 122908				12/29/08	1440	Cell Tower	1			X	X			1525
SU-G 122908				12/29/08	1440	Campground	1			X	X			04306
SU-S 122908				12/29/08	1440	School	1			X	X			62350
SU-W 122908				12/29/08	1440	Wetland	1			X	X			2981
SU-COW 122908				12/29/08	1440	Co-Located Wetland	1			X	X			1534

REC. AT AMBIENT
CUSTODY SEAL INTACT
1 BOX RH 1/6/09
FED EX # 8683 0128 3244

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]	12/31 0900	Ryan Henry	1/6/09 0945				
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

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

H9A060168

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: Lawton & Associates, Inc.
Address: 976 Eastwind Drive, Suite 190
City/State/Zip: Westerville, Ohio 43081
Phone: (614) 818-5200
FAX: (614) 818-5219
Project Name: County wide
Site/location: Community
PO # 07-0082

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

Sampled By:

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 - TIC	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C 12 29 08	12/29/08	1500	1500	-27.5	-2.0	K437	1525	X					X						
SU-G 12 29 08	↓	↓	↓	-28.5	-2.5	K301	04306	X					X						
SU-S 12 29 08				-27.5	-3.5	K133	62330	X					X						
SU-W 12 29 08				-27.5	-3.0	K373	2981	X					X						
SU-COW 12 29 08				-28.0	-3.5	K303	1534	X					X						

TIC

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return Can # 93175 → did not use

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: [signature]	Date/Time: 12-31-08	Received by: Susan Henry 1/6/09
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9A060118

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☑ 1e No label ☐ 1f COC not received ☐ 1g Other:	1e - NO SAMPLE LABEL; MATCHED BY CAN ID
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 1/6/09

QA026R19.doc, 080707

Summary of Results

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 01/14/09
Job Number: E09-00078
Date Received: 01/06/09
Date Analyzed: 01/13/09

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C122908-01A		C122908-02A		C122908-03A		Reporting
IAL ID:	E09-00078-14		E09-00078-15		E09-00078-16		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.68	2.9	0.28	1.4	0.68	2.8	0.1
Acetaldehyde	0.38	1.6	0.22	1.1	0.36	1.5	0.1
Acetone	< 0.1	< 0.4	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Acrolein	< 0.1	< 0.4	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Propionaldehyde	< 0.1	< 0.4	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Crotonaldehyde	< 0.1	< 0.4	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Butyraldehyde	0.19	0.78	< 0.1	< 0.5	0.10	0.41	0.1
Benzaldehyde	0.20	0.84	< 0.1	< 0.5	0.11	0.45	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 3	< 0.6	< 2	0.6
Valeraldehyde	< 0.2	< 0.8	< 0.2	< 1	< 0.2	< 0.8	0.2
o-Tolualdehyde	< 0.2	< 0.8	< 0.2	< 1	< 0.2	< 0.8	0.2
m- and p-Tolualdehyde	< 0.1	< 0.4	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Hexaldehyde	< 0.1	< 0.4	< 0.1	< 0.5	< 0.1	< 0.4	0.1

Sample Name:	G122908-01A		G122908-02A		G122908-03A		Reporting
IAL ID:	E09-00078-17		E09-00078-18		E09-00078-19		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.68	3.4	0.20	0.86	0.42	4.3	0.1
Acetaldehyde	0.40	2.0	0.17	0.75	0.26	2.7	0.1
Acetone	< 0.1	< 0.5	< 0.1	< 0.4	< 0.1	< 1	0.1
Acrolein	< 0.1	< 0.5	< 0.1	< 0.4	< 0.1	< 1	0.1
Propionaldehyde	< 0.1	< 0.5	< 0.1	< 0.4	< 0.1	< 1	0.1
Crotonaldehyde	< 0.1	< 0.5	< 0.1	< 0.4	< 0.1	< 1	0.1
Butyraldehyde	0.15	0.75	< 0.1	< 0.4	< 0.1	< 1	0.1

Benzaldehyde	0.46	2.3	0.11	0.47	0.10	1.0	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 3	< 0.6	< 6	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 2	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 2	0.2
m- and p-Tolualdehyde	< 0.1	< 0.5	< 0.1	< 0.4	< 0.1	< 1	0.1
Hexaldehyde	< 0.1	< 0.5	< 0.1	< 0.4	< 0.1	< 1	0.1

Lawhon & Associates, Inc.
Jobsite: Countywide
Project: #07-0082

Job Number: E09-00078

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	S122908-01A		S122908-02A		S122908-03A		Reporting
IAL ID:	E09-00078-20		E09-00078-21		E09-00078-22		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.40	2.9	0.22	1.0	0.58	2.5	0.1
Acetaldehyde	0.30	2.2	0.20	0.86	0.34	1.4	0.1
Acetone	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Acrolein	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Propionaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Crotonaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Butyraldehyde	< 0.1	< 0.7	< 0.1	< 0.4	0.10	0.42	0.1
Benzaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Isovaleraldehyde	< 0.6	< 4	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 0.8	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 0.8	0.2
m- and p-Tolualdehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Hexaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1

Sample Name:	W122908-01A		W122908-02A		W122908-03A		Reporting
IAL ID:	E09-00078-23		E09-00078-24		E09-00078-25		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.60	3.1	0.32	1.5	0.64	3.6	0.1
Acetaldehyde	0.42	2.1	0.24	1.1	0.32	1.8	0.1
Acetone	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Acrolein	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1

Propionaldehyde	0.10	0.53	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Crotonaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Butyraldehyde	0.15	0.75	< 0.1	< 0.5	0.10	0.58	0.1
Benzaldehyde	0.11	0.54	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Hexaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1

Lawhon & Associates, Inc.
Jobsite: Countywide
Project: #07-0082

Job Number: E09-00078

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name: 122908A-A
IAL ID: E09-00078-26

Compound	ug	ug/m3	Reporting Limits ug
Formaldehyde	< 0.1	N/A	0.1
Acetaldehyde	< 0.1	N/A	0.1
Acetone	< 0.1	N/A	0.1
Acrolein	< 0.1	N/A	0.1
Propionaldehyde	< 0.1	N/A	0.1
Crotonaldehyde	< 0.1	N/A	0.1
Butyraldehyde	< 0.1	N/A	0.1
Benzaldehyde	< 0.1	N/A	0.1
Isovaleraldehyde	< 0.6	N/A	0.6
Valeraldehyde	< 0.2	N/A	0.2
o-Tolualdehyde	< 0.2	N/A	0.2

m- and p-Tolualdehyde	< 0.1	N/A	0.1
Hexaldehyde	< 0.1	N/A	0.1

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Summary of Results

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

Report Date: 01/14/09
Job Number: E09-00078
Date Received: 01/06/09
Date Analyzed: 01/13/09

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

		Hydrogen Fluoride		Hydrogen Chloride	
Sample ID	IAL ID	ug	ug/m3	ug	ug/m3
C122908-01H	E09-00078-01	< 0.6	< 4	< 0.4	< 3
C122908-02H	E09-00078-02	< 0.6	< 4	< 0.4	< 2
C122908-03H	E09-00078-03	< 0.6	< 4	< 0.4	< 3
G122908-01H	E09-00078-04	< 0.6	< 4	< 0.4	< 3
G122908-02H	E09-00078-05	< 0.6	< 4	< 0.4	< 3
G122908-03H	E09-00078-06	< 0.6	< 9	< 0.4	< 6
S122908-01H	E09-00078-07	< 0.6	< 5	< 0.4	< 3
S122908-02H	E09-00078-08	< 0.6	< 4	< 0.4	< 2
S122908-03H	E09-00078-09	< 0.6	< 4	< 0.4	< 3
W122908-01H	E09-00078-10	< 0.6	< 4	< 0.4	< 3
W122908-02H	E09-00078-11	< 0.6	< 5	< 0.4	< 3
W122908-03H	E09-00078-12	< 0.6	< 4	< 0.4	< 3
122908A-H	E09-00078-13	< 0.6	N/A	< 0.4	< N/A
Reporting Limit		0.6		0.4	

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX D. Laboratory Analytical Results from Event #99:
Sampling conducted Sunday January 4 through Monday January 5, 2009

Test America Laboratories: EPA Method TO-15
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H9A070165

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 19, 2009

ANALYTICAL METHODS SUMMARY

H9A070165

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H9A070165

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K5H19	001	SU-C010409	01/04/09	
K5H2F	002	SU-G010409	01/04/09	
K5H2H	003	SU-S010409	01/04/09	
K5H2L	004	SU-W010409	01/04/09	
K5H2X	005	SU-COC010409	01/04/09	

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
H9A070165

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

The sample labels did not list a sample ID.

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-C010409

GC/MS Volatiles

Lot-Sample # H9A070165 - 001 **Work Order #** K5H191AA **Matrix.....:** AIR

Date Sampled...: 01/04/2009 **Date Received..:** 01/07/2009
Prep Date.....: 01/12/2009 **Analysis Date...** 01/12/2009
Prep Batch #.....: 9012227
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	**6.4**	**5.0**	**15**		**12**
Ethylbenzene	**0.083**	**0.20**	**0.36**	**J**	**0.87**
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.17**	**0.50**	**0.69**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.20**	**0.50**	**0.72**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.14**	**2.0**	**0.42**	**J**	**6.1**
Methylene chloride	**1.2**	**0.50**	**4.2**	**B**	**1.7**
Benzene	**0.34**	**0.20**	**1.1**		**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	**0.074**	**0.20**	**0.57**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.39**	**0.20**	**1.9**		**0.98**
1,3,5-Trimethylbenzene	**0.091**	**0.20**	**0.45**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.12**	**0.20**	**0.53**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.32**	**0.20**	**1.4**		**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	**0.21**	**0.40**	**1.0**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.091**	**0.20**	**0.57**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C010409

GC/MS Volatiles

Lot-Sample # H9A070165 - 001 Work Order # K5H191AA 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	**0.44**	**0.50**	**0.92**	**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	**0.37**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Acetaldehyde	3.5	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	70 - 130

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-G010409

GC/MS Volatiles

Lot-Sample # H9A070165 - 002 **Work Order #** K5H2F1AA **Matrix.....:** AIR

Date Sampled...: 01/04/2009 **Date Received..:** 01/07/2009
Prep Date.....: 01/12/2009 **Analysis Date...** 01/12/2009
Prep Batch #.....: 9012227
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	**2.6**	**5.0**	**6.1**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.081**	**0.50**	**0.33**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.49**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.040**	**0.50**	**0.19**	**J**	**2.3**
tert-Butyl alcohol	**0.13**	**2.0**	**0.39**	**J**	**6.1**
Methylene chloride	**0.14**	**0.50**	**0.48**	**J B**	**1.7**
Benzene	**0.24**	**0.20**	**0.77**		**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	**0.23**	**0.20**	**0.87**		**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	**0.067**	**0.20**	**0.51**	**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)	**0.32**	**1.0**	**0.93**	**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	**0.087**	**0.20**	**0.55**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G010409

GC/MS Volatiles

Lot-Sample # H9A070165 - 002 Work Order # K5H2F1AA 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	**0.53**	**0.50**	**1.1**	**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	**0.39**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Propane	2.7	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	70 - 130

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-S010409

GC/MS Volatiles

Lot-Sample #	H9A070165 - 003	**Work Order #**	K5H2H1AA	**Matrix.....:**	AIR

Date Sampled...:	01/04/2009	**Date Received..:**	01/07/2009
Prep Date.....:	01/12/2009	**Analysis Date...**	01/12/2009
Prep Batch #.....:	9012227		
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	**2.8**	**5.0**	**6.5**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.10**	**0.50**	**0.42**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.18**	**0.50**	**0.64**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.075**	**0.50**	**0.35**	**J**	**2.3**
tert-Butyl alcohol	**0.072**	**2.0**	**0.22**	**J**	**6.1**
Methylene chloride	**0.17**	**0.50**	**0.59**	**J B**	**1.7**
Benzene	**0.34**	**0.20**	**1.1**		**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	**0.34**	**0.20**	**1.3**		**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	**0.070**	**0.20**	**0.54**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.10**	**0.20**	**0.49**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.063**	**0.20**	**0.27**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.16**	**0.20**	**0.70**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.42**	**1.0**	**1.2**	**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	**0.093**	**0.20**	**0.59**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S010409

GC/MS Volatiles

Lot-Sample # H9A070165 - 003 **Work Order #** K5H2H1AA **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	**0.50**	**0.50**	**1.0**	**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	**0.41**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	98	70 - 130

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-W010409

GC/MS Volatiles

Lot-Sample #	H9A070165 - 004	Work Order #	K5H2L1AA	Matrix.....:	AIR

Date Sampled...:	01/04/2009	Date Received..:	01/07/2009
Prep Date.....:	01/12/2009	Analysis Date...	01/12/2009
Prep Batch #.....:	9012227		
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	**4.6**	**5.0**	**11**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.20**	**0.20**	**1.1**		**1.1**
n-Heptane	**0.12**	**0.50**	**0.48**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.17**	**0.50**	**0.58**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.056**	**2.0**	**0.17**	**J**	**6.1**
Methylene chloride	**0.13**	**0.50**	**0.46**	**J B**	**1.7**
Benzene	**0.27**	**0.20**	**0.85**		**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	**0.17**	**0.20**	**0.63**	**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	**0.073**	**0.20**	**0.56**	**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)	**0.75**	**1.0**	**2.2**	**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	**0.091**	**0.20**	**0.57**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W010409

GC/MS Volatiles

Lot-Sample # H9A070165 - 004 **Work Order #** K5H2L1AA **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	**0.37**	**0.50**	**0.76**	**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	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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	70 - 130

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-COC010409

GC/MS Volatiles

Lot-Sample #	H9A070165 - 005	**Work Order #**	K5H2X1AA	**Matrix.....:**	AIR

Date Sampled...:	01/04/2009	**Date Received..:**	01/07/2009
Prep Date.....:	01/12/2009	**Analysis Date...**	01/12/2009
Prep Batch #.....:	9012227		
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	**1.9**	**5.0**	**4.5**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.20**	**0.20**	**1.1**		**1.1**
n-Heptane	**0.056**	**0.50**	**0.23**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.38**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.15**	**0.50**	**0.52**	**J B**	**1.7**
Benzene	**0.21**	**0.20**	**0.68**		**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	**0.47**	**0.20**	**1.8**		**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	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: SU-COC010409

GC/MS Volatiles

Lot-Sample # H9A070165 - 005 **Work Order #** K5H2X1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.088**	**0.20**	**0.55**	**J**	**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	**0.56**	**0.50**	**1.2**		**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	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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	70 - 130

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 # H9A120000 - 227B **Work Order #** K5N2L1AA **Matrix.....:** AIR

	12/19/2008	**Date Received..:**	01/06/2009
Prep Date.....:	01/12/2009	**Analysis Date...**	01/12/2009
Prep Batch #.....:	9012227		
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	**0.063**	**0.50**	**0.22**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A120000 - 227B **Work Order #** K5N2L1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	88	70 - 130

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 #	H9A120000 - 227C	**Work Order #**	K5N2L1AC	**Matrix.....:**	AIR
	12/19/2008	**Date Received..:**	01/06/2009		
Prep Date.....:	01/12/2009	**Analysis Date...**	01/12/2009		
Prep Batch #.....:	9012227				
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
Benzene	2.50	2.04	8.0	6.5	82	70 - 130
Toluene	2.50	2.12	9.4	8.0	85	70 - 130
Trichloroethene	2.50	2.25	13	12	90	70 - 130
Chlorobenzene	2.50	1.92	12	8.9	77	70 - 130
1,1-Dichloroethene	2.50	2.30	9.9	9.1	92	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	70 - 130

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 ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

2115 Freeman Avenue
Cleveland, OH 44113
Phone: (216) 737-0700
Fax: (216) 737-0109

H9A070165

№ 8332

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 0128 3277
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, 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: [signature]

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis	VOC	TIC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C010409				1/4/09		Cell Tower	1				X	X			1523
SU-G010409				1/4/09		Campground	1				X	X			12826
SU-S010409				1/4/09		School	1				X	X			12440
SU-W010409				1/4/09		Wetland	1				X	X			7480
SU-COCD010409				1/4/09		Co-Located Cell Tower	1				X	X			11159

REC. AT AMBIENT
CUSTODY SEAL INTACT
1 BOX RH 1/7/09
FED EX# 8683 0128 3277

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]	1/6/09 1500	Ryan Henry	1/7/09 1100				
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

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
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 Sampling
PO # 07-0082

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

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

Sampled By: Nick Iannaggi

2 of 2 COCs

Sample Identification	Sample Date(s)	3:00pm 1/4/09 Time Start	3:00pm 1/4/09 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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C 01 04 09	01/04/09	3:00pm	3:00pm	-27.5	-16.0	K370	1523	X					X						
SU-G 01 04 09	↓	↓	↓	-29.0	-3.0	K151	12820	X					X						
SU-S 01 04 09	↓	↓	↓	-27.5	-2.0	K392	12440	X					X						
SU-W 01 04 09	↓	↓	↓	-28.5	-0.0	K303A	7480	X					X						
SU-COC 01 04 09	↓	↓	↓	-27.5	-0.0	K329	11159	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return Can # 1146 → Did not use

Canisters Shipped by:	Date/Time: 1/6/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 1/6/09 1500	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9A070165

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐1a Do not match COC ☐1b Incomplete information ☐1c Marking smeared ☐1d Label torn ☑1e No label ☐1f COC not received ☐1g Other:	1e - NO SAMPLE LABEL ID; MATCHED BY CAN ID.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐2a Temp Blank = _____ ☐2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐4a Not present ☐4b Not intact ☐4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐5a Samples received-not on COC ☐5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐6a Leaking ☐6b Broken	
7. Were VOA samples received without headspace?			✓	☐7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐13a Leaking ☐13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 1/7/09

QA026R19.doc, 080707

Summary of Results

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 01/20/09
Job Number: E09-00220
Date Received: 01/07/09
Date Analyzed: 01/20/09

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C010409-01A		C010409-02A		C010409-03A		Reporting
IAL ID:	E09-00220-14		E09-00220-15		E09-00220-16		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.54	2.8	0.30	1.8	0.84	4.3	0.1
Acetaldehyde	0.34	1.8	0.22	1.3	0.40	2.1	0.1
Acetone	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Acrolein	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Propionaldehyde	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Crotonaldehyde	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Butyraldehyde	0.22	1.1	< 0.1	< 0.6	0.16	0.81	0.1
Benzaldehyde	0.22	1.1	< 0.1	< 0.6	0.14	0.72	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 4	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Hexaldehyde	0.36	1.9	< 0.1	< 0.6	< 0.1	< 0.5	0.1

Sample Name:	G010409-01A		G010409-02A		G010409-03A		Reporting
IAL ID:	E09-00220-17		E09-00220-18		E09-00220-19		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.58	3.4	0.34	1.8	0.46	2.5	0.1
Acetaldehyde	0.36	2.1	0.24	1.3	0.30	1.7	0.1
Acetone	< 0.1	< 0.6	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Acrolein	< 0.1	< 0.6	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Propionaldehyde	< 0.1	< 0.6	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Crotonaldehyde	< 0.1	< 0.6	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Butyraldehyde	0.19	1.1	< 0.1	< 0.5	< 0.1	< 0.6	0.1

Benzaldehyde	0.44	2.6	0.24	1.3	0.19	1.0	0.1
Isovaleraldehyde	< 0.6	< 4	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.6	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Hexaldehyde	0.40	2.4	0.18	1.0	< 0.1	< 0.6	0.1

Lawhon & Associates, Inc. Job Number: E09-00220
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	S010409-01A		S010409-02A		S010409-03A		Reporting
IAL ID:	E09-00220-20		E09-00220-21		E09-00220-21		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.40	3.3	0.28	1.5	0.46	2.4	0.1
Acetaldehyde	0.40	3.3	0.24	1.3	0.26	1.4	0.1
Acetone	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Acrolein	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Propionaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Crotonaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Butyraldehyde	0.20	1.6	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Benzaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Isovaleraldehyde	< 0.6	< 5	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 2	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 2	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Hexaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.5	0.1

Sample Name:	W010409-01A		W010409-02A		W010409-03A		Reporting
IAL ID:	E09-00220-23		E09-00220-24		E09-00220-25		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.42	2.5	0.30	1.7	0.42	2.5	0.1
Acetaldehyde	0.34	2.0	0.24	1.4	0.24	1.4	0.1
Acetone	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Acrolein	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1

Propionaldehyde	0.10	0.61	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Crotonaldehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Butyraldehyde	0.22	1.3	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Benzaldehyde	0.12	0.70	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Isovaleraldehyde	< 0.6	< 4	< 0.6	< 3	< 0.6	< 4	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.6	< 0.1	< 0.6	< 0.1	< 0.6	0.1
Hexaldehyde	0.34	2.0	< 0.1	< 0.6	< 0.1	< 0.6	0.1

Lawhon & Associates, Inc. Job Number: E09-00220
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name: 010409A-A
IAL ID: E09-00220-26

Compound	ug	ug/m3	Reporting Limits ug
Formaldehyde	< 0.1	N/A	0.1
Acetaldehyde	< 0.1	N/A	0.1
Acetone	< 0.1	N/A	0.1
Acrolein	< 0.1	N/A	0.1
Propionaldehyde	< 0.1	N/A	0.1
Crotonaldehyde	< 0.1	N/A	0.1
Butyraldehyde	< 0.1	N/A	0.1
Benzaldehyde	< 0.1	N/A	0.1
Isovaleraldehyde	< 0.6	N/A	0.6
Valeraldehyde	< 0.2	N/A	0.2
o-Tolualdehyde	< 0.2	N/A	0.2

m- and p-Tolualdehyde	< 0.1	N/A	0.1
Hexaldehyde	< 0.1	N/A	0.1

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Summary of Results

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

Report Date: 01/19/09
Job Number: E09-00220
Date Received: 01/07/09
Date Analyzed: 01/19/09

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

		Hydrogen Fluoride		Hydrogen Chloride	
Sample ID	IAL ID	ug	ug/m3	ug	ug/m3
C010409-01H	E09-00220-01	< 0.6	< 4	< 0.4	< 2
C010409-02H	E09-00220-02	< 0.6	< 4	< 0.4	< 2
C010409-03H	E09-00220-03	< 0.6	< 4	< 0.4	< 2
G010409-01H	E09-00220-04	< 0.6	< 4	< 0.4	< 3
G010409-02H	E09-00220-05	< 0.6	< 4	< 0.4	< 2
G010409-03H	E09-00220-06	< 0.6	< 4	< 0.4	< 2
S010409-01H	E09-00220-07	< 0.6	< 5	< 0.4	< 3
S010409-02H	E09-00220-08	< 0.6	< 4	1.0	5.6
S010409-03H	E09-00220-09	< 0.6	< 4	0.62	4.1
W010409-01H	E09-00220-10	< 0.6	< 4	< 0.4	< 2
W010409-02H	E09-00220-11	< 0.6	< 5	< 0.4	< 3
W010409-03H	E09-00220-12	< 0.6	< 5	< 0.4	< 3
010409A-H	E09-00220-13	< 0.6	N/A	< 0.4	< N/A
Reporting Limit		0.6		0.4	

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX E. Laboratory Analytical Results from Event #100:
Sampling conducted Saturday January 10 through Sunday January 11, 2009

Test America Laboratories: EPA Method TO-15
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

#100

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H9A140154

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 21, 2009

ANALYTICAL METHODS SUMMARY

H9A140154

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H9A140154

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K5RGJ	001	SU-C011009	01/10/09	
K5RGK	002	SU-G011009	01/10/09	
K5RGM	003	SU-S011009	01/10/09	
K5RGN	004	SU-W011009	01/10/09	
K5RGP	005	SU-COS011009	01/10/09	

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
H9A140154

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

The sample labels did not list a sample ID.

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 surrogate recoveries for all the samples run 01/14/09 in batch 9014293 were quantitated against the daily calibration verification standard.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be $\leq$40% difference from the initial calibration. The calibration verification analyzed on 01/14/09 exhibited a %difference of >30% but $\leq$40% for acetone.

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-C011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 001 **Work Order #** K5RGJ1AA **Matrix.....:** AIR

Date Sampled...: 01/10/2009 **Date Received..:** 01/14/2009
Prep Date.....: 01/14/2009 **Analysis Date...** 01/14/2009
Prep Batch #.....: 9014283
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	**1.9**	**5.0**	**4.6**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.066**	**0.50**	**0.27**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.38**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.048**	**0.50**	**0.22**	**J**	**2.3**
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.48**	**0.50**	**1.7**	**J B**	**1.7**
Benzene	**0.22**	**0.20**	**0.70**		**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	**0.045**	**0.20**	**0.24**	**J**	**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.065**	**0.20**	**0.50**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.10**	**0.20**	**0.51**	**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)	**0.53**	**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	ND	0.50	ND		1.6
Carbon tetrachloride	**0.085**	**0.20**	**0.54**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 001 **Work Order #** K5RGJ1AA **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	**0.74**	**0.50**	**1.5**	**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	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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	70 - 130

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-G011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 002 **Work Order #** K5RGK1AA **Matrix.....:** AIR

Date Sampled...: 01/10/2009 **Date Received..:** 01/14/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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	**2.3**	**5.0**	**5.4**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.090**	**0.50**	**0.37**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.13**	**0.50**	**0.46**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.042**	**0.50**	**0.20**	**J**	**2.3**
tert-Butyl alcohol	**0.038**	**2.0**	**0.12**	**J**	**6.1**
Methylene chloride	**0.99**	**0.50**	**3.4**	**B**	**1.7**
Benzene	**0.27**	**0.20**	**0.85**		**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	**0.27**	**0.20**	**1.0**	**B**	**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	**0.17**	**0.20**	**0.92**	**J**	**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.062**	**0.20**	**0.47**	**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)	**0.23**	**1.0**	**0.68**	**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	**0.067**	**0.20**	**0.42**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 002 **Work Order #** K5RGK1AA **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	**0.54**	**0.50**	**1.1**	**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	**0.42**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	70 - 130

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-S011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 003 **Work Order #** K5RGM1AA **Matrix.....:** AIR

Date Sampled...: 01/10/2009 **Date Received..:** 01/14/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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	**2.0**	**5.0**	**4.9**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.12**	**0.50**	**0.48**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.42**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.10**	**0.50**	**0.48**	**J**	**2.3**
tert-Butyl alcohol	**0.14**	**2.0**	**0.41**	**J**	**6.1**
Methylene chloride	**0.49**	**0.50**	**1.7**	**J B**	**1.7**
Benzene	**0.29**	**0.20**	**0.93**		**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	**0.30**	**0.20**	**1.1**	**B**	**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**	**0.50**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.15**	**0.20**	**0.73**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.077**	**0.20**	**0.33**	**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)	**0.24**	**1.0**	**0.71**	**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	**0.073**	**0.40**	**0.36**	**J**	**2.0**
Carbon disulfide	**0.081**	**0.50**	**0.25**	**J**	**1.6**
Carbon tetrachloride	**0.065**	**0.20**	**0.41**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 003 **Work Order #** K5RGM1AA **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	**0.56**	**0.50**	**1.2**	**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	**0.42**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	70 - 130

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-W011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 004 **Work Order #** K5RGN1AA **Matrix.....:** AIR

Date Sampled...: 01/10/2009 **Date Received..:** 01/14/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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	**3.0**	**5.0**	**7.0**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.10**	**0.50**	**0.42**	**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	**0.066**	**2.0**	**0.20**	**J**	**6.1**
Methylene chloride	**0.88**	**0.50**	**3.1**	**B**	**1.7**
Benzene	**0.30**	**0.20**	**0.96**		**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	**0.26**	**0.20**	**0.96**	**B**	**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	**0.074**	**0.20**	**0.56**	**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)	**0.28**	**1.0**	**0.82**	**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	**0.11**	**0.20**	**0.70**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 004 **Work Order #** K5RGN1AA **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	**0.34**	**0.20**	**1.6**	**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	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	**0.47**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-COS011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 005 **Work Order #** K5RGP1AA **Matrix.....:** AIR

Date Sampled...: 01/10/2009 **Date Received..:** 01/14/2009
Prep Date.....: 01/14/2009 **Analysis Date...** 01/15/2009
Prep Batch #.....: 9014283
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	**0.19**	**0.20**	**1.0**	**J**	**1.1**
n-Heptane	**0.072**	**0.50**	**0.29**	**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	**0.046**	**2.0**	**0.14**	**J**	**6.1**
Methylene chloride	**0.45**	**0.50**	**1.6**	**J B**	**1.7**
Benzene	**0.24**	**0.20**	**0.78**		**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	**0.070**	**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	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	**0.037**	**0.50**	**0.11**	**J**	**1.6**

Lawhon & Associates, Inc.

Client Sample ID: SU-COS011009

GC/MS Volatiles

Lot-Sample # H9A140154 - 005 **Work Order #** K5RGP1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.084**	**0.20**	**0.53**	**J**	**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	**0.93**	**0.50**	**1.9**		**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	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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	70 - 130

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 # H9A140000 - 283B **Work Order #** K5R3Q1AA **Matrix.....:** AIR

	01/06/2009	**Date Received..:**	01/07/2009
Prep Date.....:	01/14/2009	**Analysis Date...**	01/14/2009
Prep Batch #.....:	9014283		
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	**0.18**	**0.50**	**0.63**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A140000 - 283B **Work Order #** K5R3Q1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	70 - 130

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 # H9A140000 - 283C **Work Order #** K5R3Q1AC **Matrix.....:** AIR

	01/06/2009	**Date Received..:**	01/07/2009
Prep Date.....:	01/14/2009	**Analysis Date...**	01/14/2009
Prep Batch #.....:	9014283		
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
Benzene	2.50	2.97	8.0	9.5	119	70 - 130
Toluene	2.50	2.97	9.4	11	119	70 - 130
Trichloroethene	2.50	2.84	13	15	114	70 - 130
Chlorobenzene	2.50	2.74	12	13	109	70 - 130
1,1-Dichloroethene	2.50	2.40	9.9	9.5	96	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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 # H9A190000 - 035B **Work Order #** K50EK1AA **Matrix.....:** AIR

01/14/2009 **Date Received..:** 01/15/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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	**0.065**	**0.50**	**0.23**	**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	**0.055**	**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	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 # H9A190000 - 035B **Work Order #** K50EK1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	94	70 - 130

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 # H9A190000 - 035C **Work Order #** K50EK1AC **Matrix.....:** AIR

01/14/2009 **Date Received..:** 01/15/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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
Benzene	2.50	2.79	8.0	8.9	112	70 - 130
Toluene	2.50	2.25	9.4	8.5	90	70 - 130
Trichloroethene	2.50	2.82	13	15	113	70 - 130
Chlorobenzene	2.50	2.26	12	10	91	70 - 130
1,1-Dichloroethene	2.50	2.66	9.9	11	107	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	70 - 130

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

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

HGA1HDISH

№ 8335

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 0128 3472
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): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis: VOC	Analysis: TIC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C0110 09				1/10/09	1440	Cell Tower	1		TO-15	X	X			1296
SU-G0110 09				1/10/09	1440	Campground	1			X	X			6655
SU-S0110 09				1/10/09	1440	School	1			X	X			1130
SU-W0110 09				1/10/09	1440	Wetland	1			X	X			12490
SU-CO58/10 09				1/10/09	1440	School Co-Located	1			X	X			93232

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1/13/09 1500	[signature] AJ	1/14/09 0800				
[signature]	1-13-09 0800	[signature]	1-14-09 09:31				

Comments:

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

H9A1H0154

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 Drive, 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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C 011009	1/10/09	1500	1500	-29.0	-3.0		1296	X					X						
SU-G 011009	1/10/09			-28.5	-2.0		6655	X					X						
SU-S 011009	1/10/09			-29.0	-3.0		1130	X					X						
SU-W 011009	1/10/09			-29.0	0		12490	X					X						
SU-COS 011009	1/10/09			-28.5	-5.0		93232	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT TEMP
BID 1-14-09
LBRX FEDX#
8683 0128 3472
6 CANS / 6 FLOWS

Special Instructions/QC Requirements & Comments:
-Return Can 6625 -> did not use
* Regulator, K459, broken, did not use

Canisters Shipped by:	Date/Time: 1/13/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 1-13-09 0800	Received by: 1-14-09 9:30
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** 149A14D154

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)			✓	☐ 1a Do not match COC ☑ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	1b, IDS NOT ON CAN TAGS, MATCHED BY CANISTER NUMBER
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?		✓	✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓	✓		☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓	✓		☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓		✓	☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?	✓		✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓		✓	☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?		✓	✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓		✓	☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?		✓	✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 79700 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 1-14-09

QA026R19.doc, 080707

Summary of Results

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 01/23/09
Job Number: E09-00421
Date Received: 01/14/09
Date Analyzed: 01/22/09

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	G011009-01A		G011009-02A		G011009-03A		Reporting
IAL ID:	E09-00421-14		E09-00421-15		E09-00421-16		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.74	3.8	0.36	1.7	0.36	1.7	0.1
Acetaldehyde	0.44	2.3	0.26	1.2	0.28	1.3	0.1
Acetone	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Acrolein	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Propionaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Crotonaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Butyraldehyde	0.16	0.81	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Benzaldehyde	0.26	1.3	0.16	0.78	0.11	0.53	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 0.9	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 0.9	0.2
m- and p-Tolualdehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.5	0.1
Hexaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.5	0.1

Sample Name:	C011009-01A		C011009-02A		C011009-03A		Reporting
IAL ID:	E09-00421-17		E09-00421-18		E09-00421-19		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.68	3.2	0.34	1.9	0.44	2.0	0.1
Acetaldehyde	0.44	2.1	0.24	1.4	0.26	1.2	0.1
Acetone	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Acrolein	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Propionaldehyde	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Crotonaldehyde	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Butyraldehyde	0.16	0.74	< 0.1	< 0.6	< 0.1	< 0.5	0.1

Benzaldehyde	0.14	0.66	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 0.9	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 0.9	0.2
m- and p-Tolualdehyde	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1
Hexaldehyde	< 0.1	< 0.5	< 0.1	< 0.6	< 0.1	< 0.5	0.1

Lawhon & Associates, Inc. Job Number: E09-00421
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	S011009-01A		S011009-02A		S011009-03A		Reporting
IAL ID:	E09-00421-20		E09-00421-21		E09-00421-22		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.38	2.9	0.34	1.6	0.34	1.5	0.1
Acetaldehyde	0.46	3.5	0.24	1.1	0.22	1.0	0.1
Acetone	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Acrolein	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Propionaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Crotonaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Butyraldehyde	0.17	1.3	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Benzaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Isovaleraldehyde	< 0.6	< 5	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 2	< 0.2	< 0.9	< 0.2	< 0.9	0.2
o-Tolualdehyde	< 0.2	< 2	< 0.2	< 0.9	< 0.2	< 0.9	0.2
m- and p-Tolualdehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1
Hexaldehyde	< 0.1	< 0.8	< 0.1	< 0.5	< 0.1	< 0.4	0.1

Sample Name:	W011009-01A		W011009-02A		W011009-03A		Reporting
IAL ID:	E09-00421-23		E09-00421-24		E09-00421-25		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.48	2.5	0.36	2.0	0.38	2.4	0.1
Acetaldehyde	0.40	2.1	0.28	1.5	0.36	2.3	0.1
Acetone	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Acrolein	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1

Propionaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Crotonaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Butyraldehyde	0.19	1.0	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Benzaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 3	< 0.6	< 4	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 1	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Hexaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1

Lawhon & Associates, Inc. Job Number: E09-00421
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name: 011009A-A *
IAL ID: E09-00421-26

Compound	ug	ug/m3	Reporting Limits ug
Formaldehyde	0.18	N/A	0.1
Acetaldehyde	< 0.1	N/A	0.1
Acetone	< 0.1	N/A	0.1
Acrolein	< 0.1	N/A	0.1
Propionaldehyde	< 0.1	N/A	0.1
Crotonaldehyde	< 0.1	N/A	0.1
Butyraldehyde	< 0.1	N/A	0.1
Benzaldehyde	< 0.1	N/A	0.1
Isovaleraldehyde	< 0.6	N/A	0.6
Valeraldehyde	< 0.2	N/A	0.2
o-Tolualdehyde	< 0.2	N/A	0.2

m- and p-Tolualdehyde	< 0.1	N/A	0.1
Hexaldehyde	< 0.1	N/A	0.1

* The formaldehyde found in the blank was found only in the back half portion of the sorbent tube.

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Summary of Results

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

Report Date: 01/23/09
Job Number: E09-00421
Date Received: 01/14/09
Date Analyzed: 01/23/09

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

		Hydrogen Fluoride		Hydrogen Chloride	
Sample ID	IAL ID	ug	ug/m3	ug	ug/m3
G011009-01H	E09-00421-01	< 0.6	< 4	< 0.4	< 2
G011009-02H	E09-00421-02	< 0.6	< 4	< 0.4	< 2
G011009-03H	E09-00421-03	< 0.6	< 4	1.7	10
C011009-01H	E09-00421-04	< 0.6	< 4	< 0.4	< 3
C011009-02H	E09-00421-05	< 0.6	< 4	< 0.4	< 2
C011009-03H	E09-00421-06	< 0.6	< 4	< 0.4	< 3
S011009-01H	E09-00421-07	< 0.6	< 4	0.48	3.4
S011009-02H	E09-00421-08	< 0.6	< 3	< 0.4	< 2
S011009-03H	E09-00421-09	< 0.6	< 4	< 0.4	< 2
W011009-01H	E09-00421-10	< 0.6	< 4	0.44	2.9
W011009-02H	E09-00421-11	< 0.6	< 5	0.40	3.0
W011009-03H	E09-00421-12	< 0.6	< 4	< 0.4	< 3
011009A-H	E09-00421-13	< 0.6	N/A	< 0.4	< N/A
Reporting Limit		0.6		0.4	

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX F. Laboratory Analytical Results from Event #101:
Sampling conducted Friday January 16 through Saturday January 17, 2009

Test America Laboratories: EPA Method TO-15
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

#101

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H9A210157

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 26, 2009

ANALYTICAL METHODS SUMMARY

H9A210157

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H9A210157

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K53CT	001	SU-C011609	01/16/09	
K53D0	002	SU-G011609	01/16/09	
K53D1	003	SU-S011609	01/16/09	
K53D2	004	SU-W011609	01/16/09	
K53D5	005	SU-COG011609	01/16/09	

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
H9A210157

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

The container for all samples was received without a label.

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. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 01/22/09 exhibited a %difference of >30% but ≤40% for heptane.

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-C011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 001 **Work Order #** K53CT1AA **Matrix.....:** AIR

Date Sampled...: 01/16/2009 **Date Received..:** 01/21/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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	**2.7**	**5.0**	**6.4**	**J**	**12**
Ethylbenzene	**0.072**	**0.20**	**0.31**	**J**	**0.87**
Trichlorofluoromethane	**0.20**	**0.20**	**1.1**		**1.1**
n-Heptane	**0.065**	**0.50**	**0.27**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.16**	**0.50**	**0.56**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.055**	**2.0**	**0.17**	**J**	**6.1**
Methylene chloride	**0.42**	**0.50**	**1.5**	**J B**	**1.7**
Benzene	**0.32**	**0.20**	**1.0**		**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	**0.27**	**0.20**	**1.0**		**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	**0.075**	**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	**0.18**	**0.20**	**0.79**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.29**	**1.0**	**0.86**	**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	**0.048**	**0.50**	**0.15**	**J**	**1.6**
Carbon tetrachloride	**0.082**	**0.20**	**0.52**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 001 **Work Order #** K53CT1AA **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	**0.51**	**0.50**	**1.1**		**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	**0.46**	**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	**0.079**	**0.20**	**0.31**	**J**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Propane	2.9	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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-G011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 002 **Work Order #** K53D01AA **Matrix.....:** AIR

Date Sampled...: 01/16/2009 **Date Received..:** 01/21/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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	**4.3**	**5.0**	**10**	**J**	**12**
Ethylbenzene	**0.074**	**0.20**	**0.32**	**J**	**0.87**
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.076**	**0.50**	**0.31**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.19**	**0.50**	**0.67**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.042**	**0.50**	**0.20**	**J**	**2.3**
tert-Butyl alcohol	**0.13**	**2.0**	**0.39**	**J**	**6.1**
Methylene chloride	**0.26**	**0.50**	**0.92**	**J B**	**1.7**
Benzene	**0.34**	**0.20**	**1.1**		**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	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**	**0.57**	**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)	**0.72**	**1.0**	**2.1**	**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	**0.17**	**0.50**	**0.54**	**J**	**1.6**
Carbon tetrachloride	**0.096**	**0.20**	**0.61**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 002 **Work Order #** K53D01AA **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	**0.51**	**0.50**	**1.0**	**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	**0.48**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Propane	3.8	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	70 - 130

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-S011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 003 **Work Order #** K53D11AA **Matrix.....:** AIR

Date Sampled...: 01/16/2009 **Date Received..:** 01/21/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.15**	**0.50**	**0.51**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.41**	**0.50**	**1.4**	**J B**	**1.7**
Benzene	**0.31**	**0.20**	**1.0**		**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	**0.11**	**0.20**	**0.41**	**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	**0.074**	**0.20**	**0.57**	**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)	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	**0.076**	**0.50**	**0.24**	**J**	**1.6**

Lawhon & Associates, Inc.

Client Sample ID: SU-S011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 003 **Work Order #** K53D11AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.098**	**0.20**	**0.61**	**J**	**1.3**
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	**0.049**	**0.20**	**0.24**	**J**	**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	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	**0.47**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Acetaldehyde	4.8	ppb(v/v)
Propane	3.3	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	70 - 130

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-W011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 004 **Work Order #** K53D21AA **Matrix.....:** AIR

Date Sampled...: 01/16/2009 **Date Received..:** 01/21/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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	**2.7**	**5.0**	**6.4**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.066**	**0.50**	**0.27**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.17**	**0.50**	**0.58**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.046**	**2.0**	**0.14**	**J**	**6.1**
Methylene chloride	**0.25**	**0.50**	**0.87**	**J B**	**1.7**
Benzene	**0.26**	**0.20**	**0.83**		**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	**0.21**	**0.20**	**0.79**		**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	**0.074**	**0.20**	**0.57**	**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)	**0.36**	**1.0**	**1.1**	**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	**0.042**	**0.50**	**0.13**	**J**	**1.6**
Carbon tetrachloride	**0.083**	**0.20**	**0.52**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 004 **Work Order #** K53D21AA **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	**0.55**	**0.50**	**1.1**	**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	**0.48**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Propane	3.0	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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-COG011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 005 **Work Order #** K53D51AA **Matrix.....:** AIR

Date Sampled...: 01/16/2009 **Date Received..:** 01/21/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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	**6.9**	**5.0**	**17**		**12**
Ethylbenzene	**0.14**	**0.20**	**0.59**	**J**	**0.87**
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.071**	**0.50**	**0.29**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.21**	**0.50**	**0.74**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.042**	**0.50**	**0.20**	**J**	**2.3**
tert-Butyl alcohol	**0.30**	**2.0**	**0.91**	**J**	**6.1**
Methylene chloride	**0.38**	**0.50**	**1.3**	**J B**	**1.7**
Benzene	**0.35**	**0.20**	**1.1**		**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	**0.60**	**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	**0.075**	**0.20**	**0.57**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.11**	**0.20**	**0.54**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.22**	**0.20**	**0.95**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.31**	**0.20**	**1.3**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.4**	**1.0**	**4.2**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.077**	**0.50**	**0.32**	**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	**5.1**	**0.50**	**16**		**1.6**
Carbon tetrachloride	**0.096**	**0.20**	**0.60**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COG011609

GC/MS Volatiles

Lot-Sample # H9A210157 - 005 **Work Order #** K53D51AA **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	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	**0.50**	**0.20**	**2.5**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Propane	4.9	ppb(v/v)
Trisulfide, dipropyl	2.9	ppb(v/v)
Unknown	4.5	ppb(v/v)
Unknown	3.2	ppb(v/v)
1-Propene, 2-methyl-	2.7	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	70 - 130

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 # H9A230000 - 057B **Work Order #** K56WX1AA **Matrix.....:** AIR

	01/17/2009	**Date Received..:**	01/21/2009
Prep Date.....:	01/22/2009	**Analysis Date...**	01/22/2009
Prep Batch #.....:	9023057		
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	**0.14**	**0.50**	**0.49**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A230000 - 057B **Work Order #** K56WX1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	70 - 130

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 # H9A230000 - 057C **Work Order #** K56WX1AC **Matrix.....:** AIR

01/17/2009 **Date Received..:** 01/21/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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
Benzene	2.50	1.93	8.0	6.2	77	70 - 130
Toluene	2.50	1.92	9.4	7.2	77	70 - 130
Trichloroethene	2.50	1.93	13	10	77	70 - 130
Chlorobenzene	2.50	1.96	12	9.0	78	70 - 130
1,1-Dichloroethene	2.50	2.33	9.9	9.2	93	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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) 737-0180~~
~~Fax: (216) 737-0109~~

H9A210157

№ 8346

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 0128 3726
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): Rick Jones/Nick Iannaccone

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis Method: VOC TO-15	Analysis Method: TIC TO-15	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C011609				1/16/09	1440	Cell Tower	1		X	X			12605
SU-G011609				1/16/09	1440	Campground	1		X	X			03775
SU-S011609				1/16/09	1440	School	1		X	X			6597
SU-W011609				1/16/09	1440	Wetland	1		X	X			6361
SU-COG011609				1/16/09	1440	Co-Located Campground	1		X	X			6121

REC. AT AMBIENT
CUSTODY SEAL INTACT
1 BOX RH 1/21/09
FED EX # 8683 0128 3726

6 CANS / 6 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1/20/09 1500	Ryan Henry	1/21/09 0930				
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

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

H9A210157

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 Drive, 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 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) TIC	Sample type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C 011609	1/16/09	1/16/09 15:00	1/17/09 15:00	-29.0	-2.5	K385	12605	X					X						
SU-G 011609	1/16/09	↓	↓	-29.0	0	K331	03775	X					X						
SU-S 011609	1/16/09			-29.0	0	K315	6597	X					X						
SU-W 011609	1/16/09			-29.0	0	K322	6361	X					X						
SU-COG 011609	1/16/09			-29.0	-2.5	K378	6121	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return Can 62342N → Did not use

Canisters Shipped by:	Date/Time: 1/20/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 1/20/09 1500	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9A210157

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☑ 1e No label ☐ 1f COC not received ☐ 1g Other:	1e - NO SAMPLE LABEL, MATCHED BY CAN ID
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 1/21/09

QA026R19.doc, 080707

Summary of Results

Lawhon & Associates, Inc.
975 Eastwind Drive Suite 190
Westerville, OH 43081
Att: Shawn Ansbro
Jobsite: Countywide
Project: #07-0082

Report Date: 02/02/09
Job Number: E09-00636
Date Received: 01/21/09
Date Analyzed: 01/29/09

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C011609-01A *		C011609-02A		C011609-03A		Reporting
IAL ID:	E09-00636-14		E09-00636-15		E09-00636-16		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde			0.34	1.7	0.36	1.5	0.1
Acetaldehyde			0.36	1.8	0.36	1.5	0.1
Acetone			< 0.1	< 0.5	< 0.1	< 0.4	0.1
Acrolein			< 0.1	< 0.5	< 0.1	< 0.4	0.1
Propionaldehyde			< 0.1	< 0.5	< 0.1	< 0.4	0.1
Crotonaldehyde			< 0.1	< 0.5	< 0.1	< 0.4	0.1
Butyraldehyde	**See * Below**		< 0.1	< 0.5	< 0.1	< 0.4	0.1
Benzaldehyde			< 0.1	< 0.5	< 0.1	< 0.4	0.1
Isovaleraldehyde			< 0.6	< 3	< 0.6	< 2	0.6
Valeraldehyde			< 0.2	< 1	< 0.2	< 0.8	0.2
o-Tolualdehyde			< 0.2	< 1	< 0.2	< 0.8	0.2
m- and p-Tolualdehyde			< 0.1	< 0.5	< 0.1	< 0.4	0.1
Hexaldehyde			< 0.1	< 0.5	< 0.1	< 0.4	0.1

Sample Name:	G011609-01A		G011609-02A		G011609-03A		Reporting
IAL ID:	E09-00636-17		E09-00636-18		E09-00636-19		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.32	1.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Acetaldehyde	0.50	2.2	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Acetone	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Acrolein	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Propionaldehyde	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Crotonaldehyde	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Butyraldehyde	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Benzaldehyde	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1

Isovaleraldehyde	< 0.6	< 3	< 0.6	< 2	< 0.6	< 2	0.6
Valeraldehyde	< 0.2	< 0.9	< 0.2	< 0.8	< 0.2	< 0.8	0.2
o-Tolualdehyde	< 0.2	< 0.9	< 0.2	< 0.8	< 0.2	< 0.8	0.2
m- and p-Tolualdehyde	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Hexaldehyde	< 0.1	< 0.4	< 0.1	< 0.4	< 0.1	< 0.4	0.1

* During the preparation of this sample, some of the sorbent media was lost from the front half of the tube, rendering the results unreliable.

Lawhon & Associates, Inc. Job Number: E09-00636
Jobsite: Countywide
Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	S011609-01A		S011609-02A		S011609-03A		Reporting
IAL ID:	E09-00636-20		E09-00636-21		E09-00636-22		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.38	2.7	0.54	2.2	0.52	1.9	0.1
Acetaldehyde	0.38	2.7	0.54	2.2	0.50	1.8	0.1
Acetone	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Acrolein	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Propionaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Crotonaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Butyraldehyde	< 0.1	< 0.7	< 0.1	< 0.4	0.11	0.41	0.1
Benzaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Isovaleraldehyde	< 0.6	< 4	< 0.6	< 2	< 0.6	< 2	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 0.8	< 0.2	< 0.7	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 0.8	< 0.2	< 0.7	0.2
m- and p-Tolualdehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1
Hexaldehyde	< 0.1	< 0.7	< 0.1	< 0.4	< 0.1	< 0.4	0.1

Sample Name:	W011609-01A		W011609-02A		W011609-03A		Reporting
IAL ID:	E09-00636-23		E09-00636-24		E09-00636-25		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.30	1.5	0.17	0.81	0.11	0.62	0.1
Acetaldehyde	0.36	1.8	0.17	0.80	< 0.1	< 0.6	0.1
Acetone	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1

Acrolein	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Propionaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Crotonaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Butyraldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Benzaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Isovaleraldehyde	< 0.6	< 3	< 0.6	< 3	< 0.6	< 3	0.6
Valeraldehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 1	0.2
o-Tolualdehyde	< 0.2	< 1	< 0.2	< 0.9	< 0.2	< 1	0.2
m- and p-Tolualdehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1
Hexaldehyde	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.6	0.1

Lawhon & Associates, Inc.
Jobsite: Countywide
Project: #07-0082

Job Number: E09-00636

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	011609A-A		Reporting
IAL ID:	E09-00636-26		Limits
Compound	ug	ug/m3	ug
Formaldehyde	0.12	N/A	0.1
Acetaldehyde	< 0.1	N/A	0.1
Acetone	< 0.1	N/A	0.1
Acrolein	< 0.1	N/A	0.1
Propionaldehyde	< 0.1	N/A	0.1
Crotonaldehyde	< 0.1	N/A	0.1
Butyraldehyde	< 0.1	N/A	0.1
Benzaldehyde	< 0.1	N/A	0.1
Isovaleraldehyde	< 0.6	N/A	0.6
Valeraldehyde	< 0.2	N/A	0.2

o-Tolualdehyde	< 0.2	N/A	0.2
m- and p-Tolualdehyde	< 0.1	N/A	0.1
Hexaldehyde	< 0.1	N/A	0.1

Note: Calculations of concentrations in air are based upon air sampling data reported by client. Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Summary of Results

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

Report Date: 02/02/09
Job Number: E09-00636
Date Received: 01/21/09
Date Analyzed: 02/02/09

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

		Hydrogen Fluoride		Hydrogen Chloride	
Sample ID	IAL ID	ug	ug/m3	ug	ug/m3
C011609-01H	E09-00636-01	< 0.6	< 5	< 0.4	< 3
C011609-02H	E09-00636-02	< 0.6	< 4	< 0.4	< 3
C011609-03H	E09-00636-03	< 0.6	< 4	< 0.4	< 3
G011609-01H	E09-00636-04	< 0.6	< 4	< 0.4	< 3
G011609-02H	E09-00636-05	< 0.6	< 4	< 0.4	< 3
G011609-03H	E09-00636-06	< 0.6	< 4	< 0.4	< 2
S011609-01H	E09-00636-07	< 0.6	< 5	< 0.4	< 3
S011609-02H	E09-00636-08	< 0.6	< 4	< 0.4	< 2
S011609-03H	E09-00636-09	< 0.6	< 4	< 0.4	< 3
W011609-01H	E09-00636-10	< 0.6	< 5	< 0.4	< 3
W011609-02H	E09-00636-11	< 0.6	< 5	< 0.4	< 3
W011609-03H	E09-00636-12	< 0.6	< 5	< 0.4	< 3
011609A-H	E09-00636-13	< 0.6	N/A	< 0.4	N/A
Reporting Limit		0.6		0.4	

Note: Calculations of concentrations in air are based upon air sampling data reported by client.
Analytical results relate only to the samples as received at the laboratory.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J.Walukiewicz

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX G. Laboratory Analytical Results from Supplemental Isolation Break Monitoring Event #3:
Sampling Conducted Thursday January 8, 2009

Test America Laboratories: EPA Method TO-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H9A130155

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 21, 2009

ANALYTICAL METHODS SUMMARY

H9A130155

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H9A130155

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K5P01	001	SU-IBD010509	01/05/09	
K5P1D	002	SU-IBC010809	01/08/09	
K5P1F	003	SU-IBG010809	01/08/09	
K5P1G	004	SU-IBS010809	01/08/09	
K5P1H	005	SU-IBW010809	01/08/09	
K5P1J	006	SU-IBD010809	01/08/09	

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
H9A130155

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

Custody seals were not present.

The sample ID listed on the chain of custody documentation did not match the ID listed on the sample container.

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 surrogate recoveries for all the samples run 01/14/09 in batch 9014293 were quantitated against the daily calibration verification standard.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be $\leq$40% difference from the initial calibration. The calibration verification analyzed on 01/14/09 exhibited a %difference of >30% but $\leq$40% for acetone.

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-IBD010509

GC/MS Volatiles

Lot-Sample # H9A130155 - 001 **Work Order #** K5P011AA **Matrix.....:** AIR

Date Sampled...: 01/05/2009 **Date Received..:** 01/13/2009
Prep Date.....: 01/14/2009 **Analysis Date...** 01/14/2009
Prep Batch #.....: 9014283
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	**2.8**	**5.0**	**6.5**	**J**	**12**
Ethylbenzene	**0.13**	**0.20**	**0.58**	**J**	**0.87**
Trichlorofluoromethane	**0.18**	**0.20**	**0.98**	**J**	**1.1**
n-Heptane	**0.16**	**0.50**	**0.64**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.17**	**0.50**	**0.60**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.077**	**0.50**	**0.36**	**J**	**2.3**
tert-Butyl alcohol	**0.073**	**2.0**	**0.22**	**J**	**6.1**
Methylene chloride	**0.27**	**0.50**	**0.93**	**J B**	**1.7**
Benzene	**0.30**	**0.20**	**0.96**		**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	**0.86**	**0.20**	**3.2**		**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	**0.066**	**0.20**	**0.50**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.085**	**0.20**	**0.42**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.11**	**0.20**	**0.47**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.36**	**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)	**1.2**	**1.0**	**3.7**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.058**	**0.50**	**0.24**	**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	ND	0.50	ND		1.6
Carbon tetrachloride	**0.082**	**0.20**	**0.51**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBD010509

GC/MS Volatiles

Lot-Sample # H9A130155 - 001 **Work Order #** K5P011AA **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**	**0.83**	**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	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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Ethyl alcohol	5.4	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	70 - 130

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-IBC010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 002 **Work Order #** K5P1D1AA **Matrix.....:** AIR

Date Sampled...: 01/08/2009 **Date Received..:** 01/13/2009
Prep Date.....: 01/14/2009 **Analysis Date...** 01/14/2009
Prep Batch #.....: 9014283
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	**2.4**	**5.0**	**5.6**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.18**	**0.20**	**0.99**	**J**	**1.1**
n-Heptane	**0.066**	**0.50**	**0.27**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.44**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.088**	**0.50**	**0.41**	**J**	**2.3**
tert-Butyl alcohol	**0.050**	**2.0**	**0.15**	**J**	**6.1**
Methylene chloride	**0.25**	**0.50**	**0.86**	**J B**	**1.7**
Benzene	**0.21**	**0.20**	**0.67**		**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	**0.19**	**0.20**	**0.71**	**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	**0.071**	**0.20**	**0.55**	**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)	**0.34**	**1.0**	**0.99**	**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	**0.095**	**0.20**	**0.60**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBC010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 002 **Work Order #** K5P1D1AA **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**	**1.5**	**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	**0.39**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Methyl Alcohol	2.8	ppb(v/v)
Propane	3.5	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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-IBG010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 003 **Work Order #** K5P1F1AA **Matrix.....:** AIR

Date Sampled...: 01/08/2009 **Date Received..:** 01/13/2009
Prep Date.....: 01/14/2009 **Analysis Date...** 01/14/2009
Prep Batch #.....: 9014283
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	**3.0**	**5.0**	**7.1**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.17**	**0.20**	**0.96**	**J**	**1.1**
n-Heptane	**0.076**	**0.50**	**0.31**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.097**	**0.50**	**0.34**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.072**	**0.50**	**0.34**	**J**	**2.3**
tert-Butyl alcohol	**0.038**	**2.0**	**0.11**	**J**	**6.1**
Methylene chloride	**0.43**	**0.50**	**1.5**	**J B**	**1.7**
Benzene	**0.20**	**0.20**	**0.65**		**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**	**0.66**	**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	**0.067**	**0.20**	**0.51**	**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)	**0.39**	**1.0**	**1.1**	**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	**0.088**	**0.20**	**0.55**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBG010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 003 **Work Order #** K5P1F1AA **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	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	**0.39**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Methyl Alcohol	2.8	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	70 - 130

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-IBS010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 004 **Work Order #** K5P1G1AA **Matrix.....:** AIR

Date Sampled...: 01/08/2009 **Date Received..:** 01/13/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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	**3.4**	**5.0**	**8.0**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.061**	**0.50**	**0.25**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.094**	**0.50**	**0.33**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.046**	**0.50**	**0.22**	**J**	**2.3**
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.21**	**0.50**	**0.73**	**J B**	**1.7**
Benzene	**0.22**	**0.20**	**0.72**		**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	**0.16**	**0.20**	**0.60**	**J B**	**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	**0.062**	**0.20**	**0.48**	**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)	**0.30**	**1.0**	**0.87**	**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	**0.065**	**0.20**	**0.41**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBS010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 004 **Work Order #** K5P1G1AA **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	**0.50**	**0.50**	**1.0**	**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	**0.41**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	70 - 130

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-IBW010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 005 **Work Order #** K5P1H1AA **Matrix.....:** AIR

Date Sampled...: 01/08/2009 **Date Received..:** 01/13/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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	**4.5**	**5.0**	**11**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.20**	**0.20**	**1.1**		**1.1**
n-Heptane	**0.083**	**0.50**	**0.34**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.41**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.044**	**2.0**	**0.13**	**J**	**6.1**
Methylene chloride	**0.11**	**0.50**	**0.40**	**J B**	**1.7**
Benzene	**0.27**	**0.20**	**0.85**		**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	**0.20**	**0.20**	**0.74**	**B**	**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	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)	**0.77**	**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	ND	0.50	ND		1.6
Carbon tetrachloride	**0.069**	**0.20**	**0.44**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBW010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 005 **Work Order #** K5P1H1AA **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	**0.49**	**0.50**	**1.0**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.062**	**0.50**	**0.21**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Methyl Alcohol	2.9	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	70 - 130

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-IBD010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 006 **Work Order #** K5P1J1AA **Matrix.....:** AIR

Date Sampled...: 01/08/2009 **Date Received..:** 01/13/2009
Prep Date.....: 01/16/2009 **Analysis Date...** 01/16/2009
Prep Batch #.....: 9019035
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	**1.2**	**0.20**	**5.0**		**0.87**
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.45**	**0.50**	**1.9**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	ND	0.50	ND		1.8
2,2,4-Trimethylpentane	**0.099**	**0.50**	**0.46**	**J**	**2.3**
tert-Butyl alcohol	**0.35**	**2.0**	**1.1**	**J**	**6.1**
Methylene chloride	**0.25**	**0.50**	**0.86**	**J B**	**1.7**
Benzene	**0.89**	**0.20**	**2.9**		**0.64**
Styrene	**0.14**	**0.20**	**0.62**	**J**	**0.85**
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	**0.069**	**0.20**	**0.47**	**J**	**1.4**
Tetrahydrofuran	**0.90**	**1.0**	**2.7**	**J**	**2.9**
Toluene	**3.9**	**0.20**	**15**	**B**	**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	**0.064**	**0.20**	**0.49**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.54**	**0.20**	**2.7**		**0.98**
1,3,5-Trimethylbenzene	**0.21**	**0.20**	**1.0**		**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.73**	**0.20**	**3.2**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**3.0**	**0.20**	**13**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**6.3**	**1.0**	**19**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.31**	**0.50**	**1.3**	**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	**0.23**	**0.40**	**1.2**	**J**	**2.0**
Carbon disulfide	**0.033**	**0.50**	**0.10**	**J**	**1.6**
Carbon tetrachloride	**0.065**	**0.20**	**0.41**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBD010809

GC/MS Volatiles

Lot-Sample # H9A130155 - 006 **Work Order #** K5P1J1AA **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	**0.47**	**0.50**	**0.97**	**J**	**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	**0.25**	**0.40**	**1.3**	**J**	**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	**0.088**	**0.20**	**0.53**	**J**	**1.2**
Dichlorodifluoromethane	**0.46**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Ethyl alcohol	25	ppb(v/v)
Isopropyl Alcohol	6.1	ppb(v/v)
Methyl Alcohol	3.3	ppb(v/v)
1-Propanol	6.9	ppb(v/v)
2-Butanol	5.1	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	70 - 130

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 # H9A140000 - 283B **Work Order #** K5R3Q1AA **Matrix.....:** AIR

	01/06/2009	**Date Received..:**	01/07/2009
Prep Date.....:	01/14/2009	**Analysis Date...**	01/14/2009
Prep Batch #.....:	9014283		
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	**0.18**	**0.50**	**0.63**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A140000 - 283B **Work Order #** K5R3Q1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	95	70 - 130

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 # H9A140000 - 283C **Work Order #** K5R3Q1AC **Matrix.....:** AIR

	01/06/2009	**Date Received..:**	01/07/2009
Prep Date.....:	01/14/2009	**Analysis Date...**	01/14/2009
Prep Batch #.....:	9014283		
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
Benzene	2.50	2.97	8.0	9.5	119	70 - 130
Toluene	2.50	2.97	9.4	11	119	70 - 130
Trichloroethene	2.50	2.84	13	15	114	70 - 130
Chlorobenzene	2.50	2.74	12	13	109	70 - 130
1,1-Dichloroethene	2.50	2.40	9.9	9.5	96	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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 # H9A190000 - 035B **Work Order #** K50EK1AA **Matrix.....:** AIR

	01/14/2009	**Date Received..:**	01/15/2009
Prep Date.....:	01/16/2009	**Analysis Date...**	01/16/2009
Prep Batch #.....:	9019035		
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	**0.065**	**0.50**	**0.23**	**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	**0.055**	**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	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 # H9A190000 - 035B **Work Order #** K50EK1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	94	70 - 130

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 # H9A190000 - 035C **Work Order #** K50EK1AC **Matrix.....:** AIR

	01/14/2009	**Date Received..:**	01/15/2009
Prep Date.....:	01/16/2009	**Analysis Date...**	01/16/2009
Prep Batch #.....:	9019035		
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
Benzene	2.50	2.79	8.0	8.9	112	70 - 130
Toluene	2.50	2.25	9.4	8.5	90	70 - 130
Trichloroethene	2.50	2.82	13	15	113	70 - 130
Chlorobenzene	2.50	2.26	12	10	91	70 - 130
1,1-Dichloroethene	2.50	2.66	9.9	11	107	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	70 - 130

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

№ 8324

☒ 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

H9A130155

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 0128 3439
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): Tony Noxon

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method	VOC	TIC													Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-IBD010509				1/5/09	521	Downwind ~ 300' IB Zone	1				X	X															93282

REC. AT AMBIENT
NO CUSTODY SEALS
3 BOXES RH 1/10/09
FED EX # 868301283439
868362206524
868301283440
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]	1/12/09 1500	Ryan Henry	1/13/09 0945				
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

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
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: Onsite / Isolation Break
PO # 07-0082

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

Sampled By: 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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-IBD010509	1/5/09	0739	1620	-28.0	0	K452	93282	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Canisters Shipped by: [signature]	Date/Time: 1/12/08	Canisters Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

☒ 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

2175 Freeman Avenue
Cleveland, OH 44173
Phone: (216) 737-0180
Fax: (216) 737-0109

H9A130155

№ 8321

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 0128 3440
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): Rachel Secrest & Tony Noxon

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ Min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method	VOC	TJC	TO15	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-IBC010809				1/8/09	528	Cell Tower	1				X	X				7503
SU-IBG010809				1/8/09	515	Campground	1				X	X				6609
SU-IBS010809				1/8/09	526	School	1				X	X				6631
SU-IBW010809				1/8/09	522	Wetland	1				X	X				6391
SU-IBD010809				1/8/09	534	Downwind ~ 300' IB2	1				X	X				1537

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1/12/09 1500	Ryan Henry	1/13/09 0945				
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

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
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: Isu-Break Onsite/Community
PO # 07-0082

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

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

Sampled By: Tony Noxon + Rachel Seweet

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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-IBC01080 9	1/8/09	0812	1700	-28.5	0	K233	7503	X					X						
SU-IBG01080 9	1/8/09	0900	1735	-28.0	-2.5	K330	6609	X					X						
SU-IBS01080 9	1/8/09	0826	1712	-28.5	-2.5	K334	6631	X					X						
SU-IBW01080 9	1/8/09	0845	1727	-28.5	0	K224	6391	X					X						
SU-IBD01080 9	1/8/09	0754	1648	*-27.0	*-1.5	K388	1537	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:
* Not certified pressures, pressure was determined by the flow regulator.

Canisters Shipped by: [signature]	Date/Time: 1/12/09 1500	Canisters Received by:
Samples Relinquished by: [signature]	Date/Time: 1/12/09 1500	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9A130155

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		☑ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	1a - COC AND SAMPLE LABEL ID DO NOT MATCH, MATCH BY CAN ID 4a
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 1/13/09

QA026R19.doc, 080707

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX H. Laboratory Analytical Results from Supplemental Isolation Break Monitoring Event #4:
Sampling conducted Wednesday January 14, 2009

Test America Laboratories: EPA Method TO-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H9A190108

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 22, 2009

ANALYTICAL METHODS SUMMARY

H9A190108

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H9A190108

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K50J5	001	SU-IBC011409	01/14/09	
K50J6	002	SU-IBG011409	01/14/09	
K50J7	003	SU-IBS011409	01/14/09	
K50J8	004	SU-IBW011409	01/14/09	
K50J9	005	SU-IBD011409	01/14/09	

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
H9A190108

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

The sample ID listed on the container label did not match the sample ID listed on the chain of custody documentation.

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-IBC011409

GC/MS Volatiles

Lot-Sample #	H9A190108 - 001	**Work Order #**	K50J51AA	**Matrix.....:**	AIR

Date Sampled...:	01/14/2009	**Date Received..:**	01/19/2009
Prep Date.....:	01/19/2009	**Analysis Date...**	01/19/2009
Prep Batch #.....:	9020036		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND		0.87
Benzene	**0.23**	**0.20**	**0.74**		**0.64**
Toluene	**0.16**	**0.20**	**0.60**	**J**	**0.75**
o-Xylene	ND	0.20	ND		0.87
m-Xylene & p-Xylene	ND	0.20	ND		0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	70 - 130

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-IBG011409

GC/MS Volatiles

Lot-Sample #	H9A190108 - 002	**Work Order #**	K50J61AA	**Matrix.....:**	AIR

Date Sampled...:	01/14/2009	**Date Received..:**	01/19/2009
Prep Date.....:	01/19/2009	**Analysis Date...**	01/19/2009
Prep Batch #.....:	9020036		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND		0.87
Benzene	**0.22**	**0.20**	**0.71**		**0.64**
Toluene	**0.17**	**0.20**	**0.65**	**J**	**0.75**
o-Xylene	ND	0.20	ND		0.87
m-Xylene & p-Xylene	ND	0.20	ND		0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-IBS011409

GC/MS Volatiles

Lot-Sample #	H9A190108 - 003	**Work Order #**	K50J71AA	**Matrix.....:**	AIR

Date Sampled...:	01/14/2009	**Date Received..:**	01/19/2009
Prep Date.....:	01/19/2009	**Analysis Date...**	01/19/2009
Prep Batch #.....:	9020036		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND		0.87
Benzene	**0.24**	**0.20**	**0.78**		**0.64**
Toluene	**0.082**	**0.20**	**0.31**	**J**	**0.75**
o-Xylene	ND	0.20	ND		0.87
m-Xylene & p-Xylene	ND	0.20	ND		0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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-IBW011409

GC/MS Volatiles

Lot-Sample #	H9A190108 - 004	**Work Order #**	K50J81AA	**Matrix.....:**	AIR

Date Sampled...:	01/14/2009	**Date Received..:**	01/19/2009
Prep Date.....:	01/19/2009	**Analysis Date...**	01/20/2009
Prep Batch #.....:	9020036		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND		0.87
Benzene	**0.20**	**0.20**	**0.65**		**0.64**
Toluene	**0.15**	**0.20**	**0.58**	**J**	**0.75**
o-Xylene	ND	0.20	ND		0.87
m-Xylene & p-Xylene	ND	0.20	ND		0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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 # H9A200000 - 036B **Work Order #** K51GM1AA **Matrix.....:** AIR

	01/14/2009	**Date Received..:**	01/19/2009
Prep Date.....:	01/19/2009	**Analysis Date...**	01/19/2009
Prep Batch #.....:	9020036		
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
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	**0.21**	**0.50**	**0.72**	**J**	**1.7**
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
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
Methyl tert-butyl ether	ND	1.0	ND		3.6
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	**0.089**	**0.50**	**0.28**	**J**	**1.6**
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

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A200000 - 036B **Work Order #** K51GM1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
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
Ethylbenzene	ND	0.20	ND	0.87
Benzene	ND	0.20	ND	0.64
Toluene	ND	0.20	ND	0.75
o-Xylene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	70 - 130

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 #	H9A200000 - 036C	**Work Order #**	K51GM1AC	**Matrix.....:**	AIR
	01/14/2009	**Date Received..:**	01/19/2009		
Prep Date.....:	01/19/2009	**Analysis Date...**	01/19/2009		
Prep Batch #.....:	9020036				
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
Trichloroethene	2.50	1.83	13	9.8	73	70 - 130
Chlorobenzene	2.50	2.16	12	10.0	87	70 - 130
1,1-Dichloroethene	2.50	2.26	9.9	9.0	90	70 - 130
Benzene	2.50	2.19	8.0	7.0	88	70 - 130
Toluene	2.50	2.16	9.4	8.1	86	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	70 - 130

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

149A190108

№ 8343

☒ 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

~~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.: 8683 0128 5601
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): Tony Noxon & Rachel Secrest

Signature:

Sample I.D. No.	Type	Type	Type	~~Time~~ Min	~~Date~~ Date	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis: BTEX	Analysis: VOC	Analysis: TO-15	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
*SU-IBC011409				480	1/14/09	Cell Tower	1			X					0040 x2
*SU-IBG011409				480	1/14/09	Campground	1			X					05357 x2
*SU-IBS011409				480	1/14/09	School	1			X					93001 "
*SU-IBW011409				480	1/14/09	Wetland	1			X					1288N x2
SU-IBD011409				480	1/14/09	DW ~ 300' downstream	1				X	X			11367 x2

REC. AT AMBIENT
CUSTODY SEAL INTACT
4 BOXES RH 1/19/09
FED EX # 8683 0128 3601
↓ 3597
5 CANS / 5 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1/16/09 1500	Ryan Henry	1/19/09 0945				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments: *Analysis for BTEX ONLY

Distributor: White - File; Yellow - Lab

H9A190108

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
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Sampled By: Tony Noxon/Rachel Secrest

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) TIC	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-IBC Ø114Ø9 *	1/14/09	0855	1705	-28	-2.5	K389	0040												
SU-IBG Ø114Ø9 *	1/14/09	0845	1657	-28.5	-4.0	K383	05357												
SU-IBS Ø114Ø9 *	1/14/09	0807	1633	-28.0	-3.0	K174	93001												
SU-IBW Ø114Ø9 *	1/14/09	0836	1640	28.5	-3.5	K132	12881N												
SU-IBD Ø114Ø9	1/14/09	0740	1610	-28.5		K447	11367	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

* Analysis for BTEX only

Canisters Shipped by: [signature]	Date/Time: 1/16/09 / 1500	Canisters Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** 179A190108

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☑ 1g Other:	1g - COC LISTS SAMPLE #5 AS 'DW-300' CONSTRUCTION ZONE' SAMPLE LABEL SHOWS 'ON SITE ISOLATION BREAK' MATCHED BY CAN ID
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 1/19/09

QA026R19.doc, 080707

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX I. Laboratory Analytical Results from Supplemental Isolation Break Monitoring Event #5:
Sampling conducted Tuesday January 20, 2009

Test America Laboratories: EPA Method TO-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H9A220171

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

January 26, 2009

ANALYTICAL METHODS SUMMARY

H9A220171

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H9A220171

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K55KX	001	SU-IBC012009	01/20/09	
K55K3	002	SU-IBG012009	01/20/09	
K55K5	003	SU-IBS012009	01/20/09	
K55K6	004	SU-IBW012009	01/20/09	
K55K8	005	SU-IBD012009	01/20/09	

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
H9A220171

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

The container for all samples was received without a label.

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. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 1/22/09 exhibited a %difference of >30% but ≤40% for heptane.

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-IBC012009

GC/MS Volatiles

Lot-Sample # H9A220171 - 001 **Work Order #** K55KX1AA **Matrix.....:** AIR

Date Sampled...: 01/20/2009 **Date Received..:** 01/22/2009
Prep Date.....: 01/23/2009 **Analysis Date...** 01/23/2009
Prep Batch #.....: 9026079
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND	0.87
Benzene	**0.35**	**0.20**	**1.1**	**0.64**
Toluene	**0.27**	**0.20**	**1.0**	**0.75**
o-Xylene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	91	70 - 130

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-IBG012009

GC/MS Volatiles

Lot-Sample # H9A220171 - 002 **Work Order #** K55K31AA **Matrix.....:** AIR

Date Sampled...: 01/20/2009 **Date Received..:** 01/22/2009
Prep Date.....: 01/23/2009 **Analysis Date...** 01/23/2009
Prep Batch #.....: 9026079
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND	0.87
Benzene	**0.34**	**0.20**	**1.1**	**0.64**
Toluene	**0.29**	**0.20**	**1.1**	**0.75**
o-Xylene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	91	70 - 130

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-IBS012009

GC/MS Volatiles

Lot-Sample # H9A220171 - 003 **Work Order #** K55K51AA **Matrix.....:** AIR

Date Sampled...: 01/20/2009 **Date Received..:** 01/22/2009
Prep Date.....: 01/23/2009 **Analysis Date...** 01/23/2009
Prep Batch #.....: 9026079
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND		0.87
Benzene	**0.37**	**0.20**	**1.2**		**0.64**
Toluene	**0.38**	**0.20**	**1.4**		**0.75**
o-Xylene	ND	0.20	ND		0.87
m-Xylene & p-Xylene	**0.13**	**0.20**	**0.58**	**J**	**0.87**

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	91	70 - 130

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-IBW012009

GC/MS Volatiles

Lot-Sample # H9A220171 - 004 **Work Order #** K55K61AA **Matrix.....:** AIR

Date Sampled...: 01/20/2009 **Date Received..:** 01/22/2009
Prep Date.....: 01/23/2009 **Analysis Date...** 01/23/2009
Prep Batch #.....: 9026079
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND	0.87
Benzene	**0.36**	**0.20**	**1.2**	**0.64**
Toluene	**0.31**	**0.20**	**1.2**	**0.75**
o-Xylene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	94	70 - 130

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-IBD012009

GC/MS Volatiles

Lot-Sample # H9A220171 - 005 **Work Order #** K55K81AA **Matrix.....:** AIR

Date Sampled...: 01/20/2009 **Date Received..:** 01/22/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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	**0.68**	**0.20**	**3.0**		**0.87**
Trichlorofluoromethane	**0.29**	**0.20**	**1.6**		**1.1**
n-Heptane	**0.56**	**0.50**	**2.3**		**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.40**	**0.50**	**1.4**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.14**	**0.50**	**0.66**	**J**	**2.3**
tert-Butyl alcohol	**0.48**	**2.0**	**1.5**	**J**	**6.1**
Methylene chloride	**2.4**	**0.50**	**8.5**	**B**	**1.7**
Benzene	**0.84**	**0.20**	**2.7**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	**0.065**	**0.20**	**0.44**	**J**	**1.4**
Tetrahydrofuran	**0.83**	**1.0**	**2.5**	**J**	**2.9**
Toluene	**3.3**	**0.20**	**12**		**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	**0.072**	**0.20**	**0.56**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.19**	**0.20**	**0.92**	**J**	**0.98**
1,3,5-Trimethylbenzene	**0.076**	**0.20**	**0.37**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.30**	**0.20**	**1.3**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**1.3**	**0.20**	**5.4**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**9.2**	**1.0**	**27**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.27**	**0.50**	**1.1**	**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	**0.079**	**0.40**	**0.39**	**J**	**2.0**
Carbon disulfide	**0.10**	**0.50**	**0.32**	**J**	**1.6**
Carbon tetrachloride	**0.094**	**0.20**	**0.59**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-IBD012009

GC/MS Volatiles

Lot-Sample # H9A220171 - 005 **Work Order #** K55K81AA **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	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	**0.61**	**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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
Butane	2.7	ppb(v/v)
Ethyl alcohol	26	ppb(v/v)
Isopropyl Alcohol	8.4	ppb(v/v)
Methyl Alcohol	6.2	ppb(v/v)
Propane	4.3	ppb(v/v)
1-Butanol	4.3	ppb(v/v)
1-Propanol	8.7	ppb(v/v)
2-Butanol	8.2	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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.

Lawhon & Associates, Inc.

Client Sample ID: SU-IBD012009

GC/MS Volatiles

Lot-Sample # H9A220171 - 005 **Work Order #** K55K81AA **Matrix.....:** AIR

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 # H9A230000 - 057B **Work Order #** K56WX1AA **Matrix.....:** AIR

	01/17/2009	**Date Received..:**	01/21/2009
Prep Date.....:	01/22/2009	**Analysis Date...**	01/22/2009
Prep Batch #.....:	9023057		
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	**0.14**	**0.50**	**0.49**	**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	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H9A230000 - 057B **Work Order #** K56WX1AA **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

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	70 - 130

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 # H9A230000 - 057C **Work Order #** K56WX1AC **Matrix.....:** AIR

01/17/2009 **Date Received..:** 01/21/2009
Prep Date.....: 01/22/2009 **Analysis Date...** 01/22/2009
Prep Batch #.....: 9023057
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
Benzene	2.50	1.93	8.0	6.2	77	70 - 130
Toluene	2.50	1.92	9.4	7.2	77	70 - 130
Trichloroethene	2.50	1.93	13	10	77	70 - 130
Chlorobenzene	2.50	1.96	12	9.0	78	70 - 130
1,1-Dichloroethene	2.50	2.33	9.9	9.2	93	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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 # H9A260000 - 079B **Work Order #** K59KL1AA **Matrix.....:** AIR

	01/20/2009	**Date Received..:**	01/22/2009
Prep Date.....:	01/23/2009	**Analysis Date...**	01/23/2009
Prep Batch #.....:	9026079		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Ethylbenzene	ND	0.20	ND	0.87
Benzene	ND	0.20	ND	0.64
Toluene	ND	0.20	ND	0.75
o-Xylene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	93	70 - 130

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 # H9A260000 - 079C **Work Order #** K59KL1AC **Matrix.....:** AIR

	01/20/2009	**Date Received..:**	01/22/2009
Prep Date.....:	01/23/2009	**Analysis Date...**	01/23/2009
Prep Batch #.....:	9026079		
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
1,1-Dichloroethene	2.50	2.69	9.9	11	108	70 - 130
Trichloroethene	2.50	2.50	13	13	100	70 - 130
Chlorobenzene	2.50	2.50	12	12	100	70 - 130
Benzene	2.50	2.25	8.0	7.2	90	70 - 130
Toluene	2.50	2.55	9.4	9.6	102	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	70 - 130

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

~~2113 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

1T9A220171

№ 8377

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8683 0128 3612 / 8683 0128 3961
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): Rachel Secrest and

Signature: Tony Noxon

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ Min	Sample Location	Number of Containers	Turn Around/Requirements	Method	Analysis: BTEX	VOC	TICs	TDIS	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-IBC012009				1/20/09	532	Cell Tower	1			X						7513 x2
SU-IBG012009				1/20/09	537	Campground	1			X						04750 x2
SU-IBS012009				1/20/09	536	School	1			X						1129 x2
SU-IBW012009				1/20/09	532	Wetland	1			X						1139 x2
SU-IBD012009				1/20/09	600	DNwind ~ 300' construction zone	1				X	X				2968 x1

REC. AT AMBIENT
CUSTODY SEALS INTACT
2 BOXES RH 1/22/09
FED EX # 8683 0128 3612
↓ 3690

5 CANS / 5 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1/21/09 1500	Ryan Henry	1/22/09 0945				
Rachel Secrest	1/20/09 2030						

Comments:

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.

49A22071

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

Sampled By: Rachel Secrest 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) TIC	Sample type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-IBC012009 *	1/20/09	0840	1722	-28.0	-2.5	K305	7513												
SU-IBG012009 *	1/20/09	0818	1715	-28.0	0	K230	04750												
SU-IBS012009 *	1/20/09	0805	1701	-28.0	-.5	K403	1129												
SU-IBW012009 *	1/20/09	0830	1722	-28.5	0	K106	1139												
SU-IBD012009	1/20/09	0745	1745	-28.0	0	K187	2968	X					X						

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
* Analyze for BTEX ONLY

Canisters Shipped by:	Date/Time: 1/21/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 1/21/09 1500	Received by:
Relinquished by:	Date/Time: 1/20/09 2030	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9A220171

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☑ 1e No label ☐ 1f COC not received ☐ 1g Other:	1e - NO SAMPLE LABEL, MATCHED BY CAN ID
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 1/22/09

QA026R19.doc, 080707

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX J. Laboratory Analytical Results from PCDD/PCDF Monitoring

Sampling Conducted November 18 through November 20, 2008

Test America Laboratories: EPA Method TO-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8K260115

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

December 9, 2008

ANALYTICAL METHODS SUMMARY

H8K260115

PARAMETER	ANALYTICAL METHOD
Dioxins/Furans, HRGC/HRMS	EPA-21 TO-9A

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

H8K260115

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K3N1N	001	D-W111808/DF-W111808	11/19/08	
K3N13	002	D-C111808/DF-C111808	11/19/08	
K3N15	003	D-PS111808/DF-PS111808	11/19/08	
K3N18	004	D-S111808/DF-S111808	11/19/08	
K3N19	005	D-G111808/DF-G111808	11/20/08	
K3N2C	006	A-6224 MEDIA CHECK	11/20/08	

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
H8K260115

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

The temperature of the cooler was outside of temperature specifications at 10°C.

Samples D-W111808, D-C111808, D-PS111808 and D-S111808 were received after the holding time expired.

Per client request the collection dates were changed to 11/19/08 and 11/20/08.

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.

All positive 2378-TCDF results at or above the minimum level were confirmed on a DB-225 column.

The following flags are used to qualify results for chlorinated dioxin and furan results:

J – The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signal and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these methods in 1984 at 40 CFR Part 136, Appendix A. For the purposes of this report the ML is qualitatively defined as described above, and quantitatively defined as follows: Minimum Level: The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the

PROJECT NARRATIVE
H8K260115

sample extract) equivalent to that of the lowest calibration standard, after corrections for method-specified sample weights, volumes and cleanup procedures has been employed.

Example: The lowest calibration level for TCDD in the initial calibration is 0.5 pg/uL. A mass of 10 pg of 2,3,7,8-TCDD in the sample would result in a concentration of 0.5 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the lowest calibration standard, the 10 pg mass in the sample components is the ML. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The ML for 2,3,7,8-TCDD becomes 100 pg rather than the default of 10 pg.

E – The reported result is an estimate. The amount reported is above the UCL described below.

The E qualifier is applied on the basis of the Upper Calibration Level (UCL). The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concentration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed.

Example: The maximum calibration level for TCDD in the initial calibration is 200 pg/uL. A mass of 4000 pg of 2,3,7,8-TCDD in the sampling components would result in a concentration of 200 pg/uL in the sample extract (at a final volume of 20 uL). Since the concentration in the sample extract corresponds to the concentration in the highest calibration standard, the 4000 pg mass in the sample components is the UCL. If the sample extract is further diluted, the ML will increase by the dilution factor.

Example: A 1/10 dilution is performed on the sample extract described above. The UCL for 2,3,7,8-TCDD becomes 40,000 pg rather than the default of 4000 pg. In this examples all positive 2,3,7,8-TCDD results above 40,000 pg are flagged with an E.

B – The analyte is present in the associated method blank at a reportable level. For this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of 2.5-to-1. Therefore, the presence of any amount of the analyte present in the blank will result a B qualifier on all associated samples.

If the blank has analytes present above the ML (described above) the need for corrective action beyond qualifying the associated data is evaluated. The determination is made

PROJECT NARRATIVE
H8K260115

whether the amount in the blank is less than 5% of the lowest amount in associated client samples or regulatory limit. If this is the case, sample processing may continue with the qualification of the data. If the amount in the blank is greater than 5% of the lowest amount in associated client samples or regulatory limit, corrective action must be taken.

The corrective actions may include extracting a second aliquot of sample if available, or notifying the client to assess the impact on the project objectives.

Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the samples, or an established percentage of the regulatory limit. Likewise, some laboratories set a reporting limit at one half the lower calibration limit.

Q – Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. The criteria include the following areas:
- Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio.)
- Retention time criteria (relative to the method-specified isotope labeled retention time standard).
- Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.
- Polychlorinated dibenzofuran purity. No peak can be identified as a polychlorinated dibenzofuran if a polychlorinated diphenyl ether peak maximizes within +/- 2 seconds of the furan candidate.

S – Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicate a temporary suppression of the instrument sensitivity, due to a matrix-borne interference.

C – Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer

X – Other. See explanation in narrative.

Laboratory studies supporting risk assessment and TMDL evaluations frequently use qualified data reported as low as the MDL, or the Estimated Detection Limit (EDL). Several of EPA's isotope dilution methods employ the EDL[1,2,3]. The EDL is based on a direct measurement of the signal-to-noise ratio acquired during sample analysis. This s/n measurement is used to calculate the concentration in the sample corresponding to the minimum intensity of the smallest quantifiable peak. The EDL reflects the amount of the

PROJECT NARRATIVE
H8K260115

particular analyte which would be required to cause a positive result for the particular analysis. Because the s/n obtained covaries with recovery, instrument sensitivity and sample-specific cleanup efficacy, the EDL is a more valid measure of the sensitivity of the entire analytical process for the specific sample, than is an MDL run periodically on a reference matrix.

The EDL is typically calculated according to the following equation:

$$\text{Estimated Detection Limit} = \frac{N \times 2.5 \times Qis}{His \times RRF \times W \times S}$$

where:

N	=	peak to peak noise of quantitation ion signal in the region of the ion chromatogram where the compound of interest is expected to elute
His	=	peak height of quantitation ion for appropriate internal standard
Qis	=	ng of internal standard added to sample
RRF	=	mean relative response factor of compound obtained during initial calibration
W	=	amount of sample extracted (grams or liters)
S	=	percent solids (optional, if results are requested to be reported on dry weight basis)

(The area of the internal standard is sometimes used instead of height, along with an area-to-height conversion factor)

This method of estimating the detection limit differs from the MDL in that it does not carry the requirement that the sample be statistically distinguished as being from a contaminated population. As results approach the EDL, the risk of false positives and the analytical uncertainty increase significantly. However, a low false positive well below the ML or MDL is often more accurate than the assumption is that contamination is present at the DL or ML. For relatively clean samples, MDL studies may give an elevated estimate of the detection limit. Additionally, on contaminated samples, the MDL may give a falsely low estimate of the detection limit.

$$\text{Analyte Concentration} = \frac{As \times Qis}{Ais \times RRF \times W \times S}$$

where:

As	=	Sum of areas of the target peaks
Qis	=	ng of internal standard added to sample
Ais	=	Sum of areas of the internal standard peaks
RRF	=	mean relative response factor of compound obtained during initial calibration

PROJECT NARRATIVE
H8K260115

W = amount of sample extracted (grams or liters)
S = percent solids (optional, if results are requested to be reported on dry weight basis)

(The area of the internal standard is sometimes used instead of height, along with an area-to-height conversion factor)

In sample data, peaks must have an intensity of 2.5 times the height of the background noise in order to be considered. Careful examination of the two equations above, and a bit of high school algebra reveals that for the concentration of the smallest peak detectable (per the EDL equation) to exactly equal the smallest peaks that are calculated, requires that the average height to area ratio obtained during the calibration must equal the area to height ratio for every peak obtained near 2.5 times the noise. When the area to height ratio on a peak in a sample is less than the average obtained during calibration, the calculated result will correspond to a peak that would have been less than 2.5 X the noise on the calibration. This is the result of normal variability. Because the source method for the EDL (SW-846 8290 and 8280A) does not provide for censoring of results by any other magnitude standard than being 2.5 times the noise, the laboratory does not censor at the calculated EDL. Hence, detections may be reported below the estimated detection limits.

1. Code of Federal Regulations, Part 136, Chapter 1, Appendix 1, October 1994: Method 1613 Tetra- Through Octa-Chlorinated Dioxins and Furans by Isotope Dilution High Resolution Gas Chromatography/High Resolution Mass Spectrometry.
2. U.S. EPA. Test Methods for Evaluating Solid Waste, Volume II, SW-846, Update III, December 1996. Method 8280A: The Analysis of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/Low Resolution Mass Spectrometry.
3. U.S. EPA. Test Methods for Evaluating Solid Waste, SW-846. Third Edition. March 1995 Method 8290: Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

Sample Data Summary

Lawhon & Associates, Inc.

Sample ID: D-W111808/DF-W111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 001	Work Order #....:	K3N1N1AA	Matrix....:	AIR
Date Sampled....:	11/19/08	Date Received....:	11/26/08	Dilution Factor:	1
Prep Date....:	11/26/08	Analysis Date....:	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M2A	Method:	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	5.1	pg/sample
1,2,3,7,8-PeCDD	ND		50	3.3	pg/sample
1,2,3,4,7,8-HxCDD	4.6	Q B J	50	2.4	pg/sample
1,2,3,6,7,8-HxCDD	8.2	J	50	2.5	pg/sample
1,2,3,7,8,9-HxCDD	13	B J	50	2.3	pg/sample
1,2,3,4,6,7,8-HpCDD	89	B	50	4.2	pg/sample
OCDD	280	B	100	5.9	pg/sample
1,2,3,7,8-PeCDF	8.8	Q J	50	2.7	pg/sample
2,3,4,7,8-PeCDF	17	J	50	2.7	pg/sample
Total TCDD	41	Q B	10	5.1	pg/sample
1,2,3,4,7,8-HxCDF	19	B J	50	1.7	pg/sample
1,2,3,6,7,8-HxCDF	18	B J	50	1.7	pg/sample
2,3,4,6,7,8-HxCDF	16	B J	50	1.8	pg/sample
1,2,3,7,8,9-HxCDF	ND		50	1.9	pg/sample
1,2,3,4,6,7,8-HpCDF	58	B	50	2.4	pg/sample
1,2,3,4,7,8,9-HpCDF	7.0	Q B J	50	2.8	pg/sample
OCDF	41	B J	100	4.2	pg/sample
Total PeCDD	55	Q J	50	3.3	pg/sample
Total HxCDD	120	J B Q	50	2.4	pg/sample
Total HpCDD	200	B	50	4.2	pg/sample
Total TCDF	210	Q	50	3.8	pg/sample
Total PeCDF	220	Q	50	2.7	pg/sample
Total HxCDF	160	J Q B	50	1.8	pg/sample
Total HpCDF	91	B Q	50	2.6	pg/sample

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	76	50 - 120
13C-1,2,3,7,8-PeCDD	74	50 - 120
13C-1,2,3,6,7,8-HxCDD	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	71	40 - 120
13C-OCDD	58	40 - 120
13C-2,3,7,8-TCDF	77	50 - 120
13C-1,2,3,7,8-PeCDF	74	50 - 120
13C-1,2,3,6,7,8-HxCDF	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	81	40 - 120

Lawhon & Associates, Inc.

Sample ID: D-W111808/DF-W111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 001	**Work Order #....:**	K3N1N1AA	**Matrix....:**	AIR
Date Sampled....:	11/19/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,4,7,8-HxCDD	74	50 - 120
13C-2,3,4,7,8-PeCDF	91	50 - 120
13C-1,2,3,4,7,8-HxCDF	79	50 - 120
13C-1,2,3,4,7,8,9-HpCDF	80	40 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Lawhon & Associates, Inc.

Sample ID: D-W111808/DF-W111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 001	Work Order #....:	K3N1N1AC	Matrix....:	AIR
Date Sampled....:	11/19/08	Date Received....:	11/26/08	Dilution Factor:	1
Prep Date....:	11/26/08	Analysis Date....:	12/05/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M3C	Method:	EPA-21 TO-9A
Analyst ID....:	Scott A. Harris				

Confirmation Run

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDF	6.4	Q J	10	1.6	pg/sample

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDF	83	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Lawhon & Associates, Inc.

Sample ID: D-C111808/DF-C111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 002	**Work Order #....:**	K3N131AA	**Matrix....:**	AIR
Date Sampled....:	11/19/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	4.3	pg/sample
1,2,3,7,8-PeCDD	ND		50	2.9	pg/sample
1,2,3,4,7,8-HxCDD	5.0	Q B J	50	2.6	pg/sample
1,2,3,6,7,8-HxCDD	11	J	50	2.6	pg/sample
1,2,3,7,8,9-HxCDD	16	B J	50	2.4	pg/sample
1,2,3,4,6,7,8-HpCDD	150	B	50	5.3	pg/sample
OCDD	450	B	100	7.6	pg/sample
2,3,7,8-TCDF	8.2	Q J	10	3.1	pg/sample
1,2,3,7,8-PeCDF	3.1	Q J	50	2.2	pg/sample
2,3,4,7,8-PeCDF	4.4	Q J	50	2.2	pg/sample
Total TCDD	5.1	Q B J	10	4.3	pg/sample
1,2,3,4,7,8-HxCDF	5.9	B J	50	1.3	pg/sample
1,2,3,6,7,8-HxCDF	3.9	B J	50	1.3	pg/sample
2,3,4,6,7,8-HxCDF	3.2	Q B J	50	1.4	pg/sample
1,2,3,7,8,9-HxCDF	ND		50	1.5	pg/sample
1,2,3,4,6,7,8-HpCDF	23	B J	50	1.8	pg/sample
1,2,3,4,7,8,9-HpCDF	3.4	Q B J	50	2.2	pg/sample
OCDF	41	B J	100	5.4	pg/sample
Total PeCDD	13	Q J	50	2.9	pg/sample
Total HxCDD	120	J Q B	50	2.5	pg/sample
Total HpCDD	340	B	50	5.3	pg/sample
Total TCDF	74	Q	10	3.1	pg/sample
Total PeCDF	55	J Q	50	2.2	pg/sample
Total HxCDF	40	Q J B	50	1.4	pg/sample
Total HpCDF	42	Q J B	50	2.0	pg/sample

Lawhon & Associates, Inc.

Sample ID: D-C111808/DF-C111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 002	**Work Order #....:**	K3N131AA	**Matrix....:**	AIR
Date Sampled....:	11/19/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	71	50 - 120
13C-1,2,3,7,8-PeCDD	69	50 - 120
13C-1,2,3,6,7,8-HxCDD	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	65	40 - 120
13C-OCDD	47	40 - 120
13C-2,3,7,8-TCDF	76	50 - 120
13C-1,2,3,7,8-PeCDF	72	50 - 120
13C-1,2,3,6,7,8-HxCDF	105	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	92	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	96	50 - 120
13C-1,2,3,4,7,8-HxCDD	83	50 - 120
13C-2,3,4,7,8-PeCDF	91	50 - 120
13C-1,2,3,4,7,8-HxCDF	78	50 - 120
13C-1,2,3,4,7,8,9-HpCDF	65	40 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Lawhon & Associates, Inc.

Sample ID: D-PS111808/DF-PS111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 003	Work Order #....:	K3N151AA	Matrix....:	AIR
Date Sampled....:	11/19/08	Date Received....:	11/26/08	Dilution Factor:	1
Prep Date....:	11/26/08	Analysis Date....:	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M2A	Method:	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	3.7	pg/sample
1,2,3,7,8-PeCDD	7.3	J	50	2.4	pg/sample
1,2,3,4,7,8-HxCDD	8.5	B J	50	1.8	pg/sample
1,2,3,6,7,8-HxCDD	12	J	50	1.8	pg/sample
1,2,3,7,8,9-HxCDD	17	Q B J	50	1.6	pg/sample
1,2,3,4,6,7,8-HpCDD	200	B	50	3.2	pg/sample
OCDD	640	B	100	2.7	pg/sample
2,3,7,8-TCDF	7.2	Q J	10	2.7	pg/sample
1,2,3,7,8-PeCDF	3.5	Q J	50	2.0	pg/sample
2,3,4,7,8-PeCDF	4.3	J	50	2.0	pg/sample
Total TCDD	11	Q B J	10	3.7	pg/sample
1,2,3,4,7,8-HxCDF	6.2	B J	50	1.3	pg/sample
1,2,3,6,7,8-HxCDF	5.0	B J	50	1.2	pg/sample
2,3,4,6,7,8-HxCDF	5.1	B J	50	1.4	pg/sample
1,2,3,7,8,9-HxCDF	ND		50	1.4	pg/sample
1,2,3,4,6,7,8-HpCDF	27	B J	50	1.7	pg/sample
1,2,3,4,7,8,9-HpCDF	3.3	Q B J	50	2.0	pg/sample
OCDF	35	B J	100	3.1	pg/sample
Total PeCDD	53	Q J	50	2.4	pg/sample
Total HxCDD	150	Q B	50	1.7	pg/sample
Total HpCDD	430	B	50	3.2	pg/sample
Total TCDF	67	Q	10	2.7	pg/sample
Total PeCDF	61	J Q	50	2.0	pg/sample
Total HxCDF	50	Q J B	50	1.3	pg/sample
Total HpCDF	49	Q J B	50	1.9	pg/sample

Lawhon & Associates, Inc.

Sample ID: D-PS111808/DF-PS111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 003	Work Order #....:	K3N151AA	Matrix....:	AIR
Date Sampled....:	11/19/08	Date Received....:	11/26/08	Dilution Factor:	1
Prep Date....:	11/26/08	Analysis Date....:	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M2A	Method:	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	76	50 - 120
13C-1,2,3,7,8-PeCDD	75	50 - 120
13C-1,2,3,6,7,8-HxCDD	100	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	77	40 - 120
13C-OCDD	66	40 - 120
13C-2,3,7,8-TCDF	80	50 - 120
13C-1,2,3,7,8-PeCDF	76	50 - 120
13C-1,2,3,6,7,8-HxCDF	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	87	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	96	50 - 120
13C-1,2,3,4,7,8-HxCDD	77	50 - 120
13C-2,3,4,7,8-PeCDF	90	50 - 120
13C-1,2,3,4,7,8-HxCDF	77	50 - 120
13C-1,2,3,4,7,8,9-HpCDF	78	40 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Lawhon & Associates, Inc.

Sample ID: D-S111808/DF-S111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 004	Work Order #....:	K3N181AA	Matrix....:	AIR
Date Sampled....:	11/19/08	Date Received....:	11/26/08	Dilution Factor:	1
Prep Date....:	11/26/08	Analysis Date....:	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	M2A	Method:	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	5.8	pg/sample
1,2,3,7,8-PeCDD	ND		50	3.5	pg/sample
1,2,3,4,7,8-HxCDD	3.9	B J	50	2.8	pg/sample
1,2,3,6,7,8-HxCDD	4.9	Q J	50	2.8	pg/sample
1,2,3,7,8,9-HxCDD	10	B J	50	2.6	pg/sample
1,2,3,4,6,7,8-HpCDD	130	B	50	5.3	pg/sample
OCDD	510	B	100	7.5	pg/sample
2,3,7,8-TCDF	5.2	Q J	10	4.0	pg/sample
1,2,3,7,8-PeCDF	ND		50	3.2	pg/sample
2,3,4,7,8-PeCDF	ND		50	3.1	pg/sample
Total TCDD	ND		10	5.8	pg/sample
1,2,3,4,7,8-HxCDF	7.3	B J	50	1.7	pg/sample
1,2,3,6,7,8-HxCDF	ND		50	1.6	pg/sample
2,3,4,6,7,8-HxCDF	2.6	Q B J	50	1.8	pg/sample
1,2,3,7,8,9-HxCDF	ND		50	1.9	pg/sample
1,2,3,4,6,7,8-HpCDF	18	B J	50	2.2	pg/sample
1,2,3,4,7,8,9-HpCDF	ND		50	2.7	pg/sample
OCDF	26	B J	100	6.0	pg/sample
Total PeCDD	12	Q J	50	3.5	pg/sample
Total HxCDD	82	J B Q	50	2.7	pg/sample
Total HpCDD	280	B	50	5.3	pg/sample
Total TCDF	50	Q	10	4.0	pg/sample
Total PeCDF	43	Q J	50	3.2	pg/sample
Total HxCDF	27	Q J B	50	1.7	pg/sample
Total HpCDF	31	Q J B	50	2.4	pg/sample

Lawhon & Associates, Inc.

Sample ID: D-S111808/DF-S111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 004	**Work Order #....:**	K3N181AA	**Matrix....:**	AIR
Date Sampled....:	11/19/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	67	50 - 120
13C-1,2,3,7,8-PeCDD	66	50 - 120
13C-1,2,3,6,7,8-HxCDD	95	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	67	40 - 120
13C-OCDD	48	40 - 120
13C-2,3,7,8-TCDF	72	50 - 120
13C-1,2,3,7,8-PeCDF	66	50 - 120
13C-1,2,3,6,7,8-HxCDF	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	83	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	99	50 - 120
13C-1,2,3,4,7,8-HxCDD	77	50 - 120
13C-2,3,4,7,8-PeCDF	96	50 - 120
13C-1,2,3,4,7,8-HxCDF	77	50 - 120
13C-1,2,3,4,7,8,9-HpCDF	75	40 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Lawhon & Associates, Inc.

Sample ID: D-G111808/DF-G111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 005	**Work Order #....:**	K3N191AA	**Matrix....:**	AIR
Date Sampled....:	11/20/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	4.7	pg/sample
1,2,3,7,8-PeCDD	ND		50	2.6	pg/sample
1,2,3,4,7,8-HxCDD	ND		50	2.0	pg/sample
1,2,3,6,7,8-HxCDD	**2.5**	**Q J**	**50**	**2.0**	**pg/sample**
1,2,3,7,8,9-HxCDD	**5.3**	**Q B J**	**50**	**1.9**	**pg/sample**
1,2,3,4,6,7,8-HpCDD	**48**	**B J**	**50**	**3.5**	**pg/sample**
OCDD	**200**	**B**	**100**	**3.5**	**pg/sample**
2,3,7,8-TCDF	ND		10	2.8	pg/sample
1,2,3,7,8-PeCDF	ND		50	2.0	pg/sample
2,3,4,7,8-PeCDF	ND		50	1.9	pg/sample
Total TCDD	**5.5**	**B J**	**10**	**4.7**	**pg/sample**
1,2,3,4,7,8-HxCDF	**1.8**	**Q B J**	**50**	**1.2**	**pg/sample**
1,2,3,6,7,8-HxCDF	**1.4**	**Q B J**	**50**	**1.2**	**pg/sample**
2,3,4,6,7,8-HxCDF	ND		50	1.3	pg/sample
1,2,3,7,8,9-HxCDF	ND		50	1.3	pg/sample
1,2,3,4,6,7,8-HpCDF	**6.1**	**Q B J**	**50**	**1.6**	**pg/sample**
1,2,3,4,7,8,9-HpCDF	ND		50	1.9	pg/sample
OCDF	**13**	**Q B J**	**100**	**3.9**	**pg/sample**
Total PeCDD	ND		50	2.6	pg/sample
Total HxCDD	**32**	**J Q B**	**50**	**2.0**	**pg/sample**
Total HpCDD	**110**	**B**	**50**	**3.5**	**pg/sample**
Total TCDF	**6.1**	**J Q**	**10**	**2.8**	**pg/sample**
Total PeCDF	**7.8**	**J Q**	**50**	**2.0**	**pg/sample**
Total HxCDF	**6.7**	**Q J B**	**50**	**1.2**	**pg/sample**
Total HpCDF	**9.1**	**Q J B**	**50**	**1.8**	**pg/sample**

Lawhon & Associates, Inc.

Sample ID: D-G111808/DF-G111808

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 005	**Work Order #....:**	K3N191AA	**Matrix....:**	AIR
Date Sampled....:	11/20/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	74	50 - 120
13C-1,2,3,7,8-PeCDD	73	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	70	40 - 120
13C-OCDD	56	40 - 120
13C-2,3,7,8-TCDF	77	50 - 120
13C-1,2,3,7,8-PeCDF	72	50 - 120
13C-1,2,3,6,7,8-HxCDF	101	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	92	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	50 - 120
13C-1,2,3,4,7,8-HxCDD	74	50 - 120
13C-2,3,4,7,8-PeCDF	93	50 - 120
13C-1,2,3,4,7,8-HxCDF	76	50 - 120
13C-1,2,3,4,7,8,9-HpCDF	73	40 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Lawhon & Associates, Inc.

Sample ID: A-6224 MEDIA CHECK

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 006	**Work Order #....:**	K3N2C1AA	**Matrix....:**	AIR
Date Sampled....:	11/20/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	4.0	pg/sample
1,2,3,7,8-PeCDD	ND		50	2.1	pg/sample
1,2,3,4,7,8-HxCDD	ND		50	1.5	pg/sample
1,2,3,6,7,8-HxCDD	ND		50	1.6	pg/sample
1,2,3,7,8,9-HxCDD	**1.8**	**B J**	**50**	**1.4**	**pg/sample**
1,2,3,4,6,7,8-HpCDD	**7.1**	**B J**	**50**	**3.1**	**pg/sample**
OCDD	**12**	**B J**	**100**	**3.1**	**pg/sample**
2,3,7,8-TCDF	ND		10	2.6	pg/sample
1,2,3,7,8-PeCDF	ND		50	1.8	pg/sample
2,3,4,7,8-PeCDF	ND		50	1.8	pg/sample
Total TCDD	ND		10	4.0	pg/sample
1,2,3,4,7,8-HxCDF	ND		50	1.1	pg/sample
1,2,3,6,7,8-HxCDF	**1.3**	**Q B J**	**50**	**1.0**	**pg/sample**
2,3,4,6,7,8-HxCDF	ND		50	1.1	pg/sample
1,2,3,7,8,9-HxCDF	**3.2**	**B J**	**50**	**1.2**	**pg/sample**
1,2,3,4,6,7,8-HpCDF	ND		50	1.8	pg/sample
1,2,3,4,7,8,9-HpCDF	ND		50	2.2	pg/sample
OCDF	**7.7**	**Q B J**	**100**	**3.2**	**pg/sample**
Total PeCDD	ND		50	2.1	pg/sample
Total HxCDD	**1.8**	**B J**	**50**	**1.5**	**pg/sample**
Total HpCDD	**7.1**	**B J**	**50**	**3.1**	**pg/sample**
Total TCDF	ND		10	2.6	pg/sample
Total PeCDF	ND		50	1.8	pg/sample
Total HxCDF	**4.5**	**B J Q**	**50**	**1.1**	**pg/sample**
Total HpCDF	ND		50	2.0	pg/sample

Lawhon & Associates, Inc.

Sample ID: A-6224 MEDIA CHECK

Trace Level Organic Compounds

Lot - Sample #....:	H8K260115 - 006	**Work Order #....:**	K3N2C1AA	**Matrix....:**	AIR
Date Sampled....:	11/20/08	**Date Received....:**	11/26/08	**Dilution Factor:**	1
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	50 - 120
13C-1,2,3,7,8-PeCDD	82	50 - 120
13C-1,2,3,6,7,8-HxCDD	95	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	77	40 - 120
13C-OCDD	67	40 - 120
13C-2,3,7,8-TCDF	80	50 - 120
13C-1,2,3,7,8-PeCDF	76	50 - 120
13C-1,2,3,6,7,8-HxCDF	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	84	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	50 - 120
13C-1,2,3,4,7,8-HxCDD	79	50 - 120
13C-2,3,4,7,8-PeCDF	95	50 - 120
13C-1,2,3,4,7,8-HxCDF	75	50 - 120
13C-1,2,3,4,7,8,9-HpCDF	80	40 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H8K260000 - 216B	**Work Order #....:**	K3N8H1AA	**Matrix....:**	AIR
Dilution Factor:	1				
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	7.3	pg/sample
1,2,3,7,8-PeCDD	ND		50	3.7	pg/sample
1,2,3,4,7,8-HxCDD	**4.2**	**Q J**	**50**	**3.1**	**pg/sample**
1,2,3,6,7,8-HxCDD	ND		50	3.2	pg/sample
1,2,3,7,8,9-HxCDD	**7.0**	**J**	**50**	**2.9**	**pg/sample**
1,2,3,4,6,7,8-HpCDD	**10**	**J**	**50**	**5.9**	**pg/sample**
OCDD	**25**	**J**	**100**	**4.6**	**pg/sample**
2,3,7,8-TCDF	ND		10	4.3	pg/sample
1,2,3,7,8-PeCDF	ND		50	3.0	pg/sample
2,3,4,7,8-PeCDF	ND		50	2.9	pg/sample
Total TCDD	**3.7**	**Q J**	**10**	**7.3**	**pg/sample**
1,2,3,4,7,8-HxCDF	**3.8**	**J**	**50**	**2.1**	**pg/sample**
1,2,3,6,7,8-HxCDF	**5.1**	**J**	**50**	**2.0**	**pg/sample**
2,3,4,6,7,8-HxCDF	**4.0**	**Q J**	**50**	**2.2**	**pg/sample**
1,2,3,7,8,9-HxCDF	**5.2**	**Q J**	**50**	**2.4**	**pg/sample**
1,2,3,4,6,7,8-HpCDF	**5.9**	**Q J**	**50**	**2.4**	**pg/sample**
1,2,3,4,7,8,9-HpCDF	**5.8**	**Q J**	**50**	**2.9**	**pg/sample**
OCDF	**18**	**J**	**100**	**5.2**	**pg/sample**
Total PeCDD	ND		50	3.7	pg/sample
Total HxCDD	**11**	**J Q**	**50**	**3.1**	**pg/sample**
Total HpCDD	**10**	**J**	**50**	**5.9**	**pg/sample**
Total TCDF	ND		10	4.3	pg/sample
Total PeCDF	ND		50	3.0	pg/sample
Total HxCDF	**18**	**J Q**	**50**	**2.2**	**pg/sample**
Total HpCDF	**12**	**Q J**	**50**	**2.6**	**pg/sample**

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H8K260000 - 216B	**Work Order #....:**	K3N8H1AA	**Matrix....:**	AIR
Dilution Factor:	1				
Prep Date....:	11/26/08	**Analysis Date....:**	12/04/08		
Prep Batch # ....:	8331216				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M2A	**Method:**	EPA-21 TO-9A
Analyst ID....:	Kathryn B. Lay				

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	58	50 - 120
13C-1,2,3,7,8-PeCDD	51	50 - 120
13C-1,2,3,6,7,8-HxCDD	75	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	51	40 - 120
13C-OCDD	45	40 - 120
13C-2,3,7,8-TCDF	60	50 - 120
13C-1,2,3,7,8-PeCDF	54	50 - 120
13C-1,2,3,6,7,8-HxCDF	73	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	76	40 - 120

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H8K260115	**Work Order # ...:**	K3N8H1AC-LCS K3N8H1AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	H8K260000 - 216				
Prep Date .....:	11/26/08	**Analysis Date ..:**	12/04/08		
Prep Batch # ...:	8331216				
Dilution Factor :	1				
Analyst ID.....:	Kathryn B. Lay	**Instrument ID..:**	M2A	**Method.....:**	EPA-21 TO-9A
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	**200**	**186**	**pg/sample**	**93**		**(70 - 130)**		
	200	**196**	**pg/sample**	**98**		**(70 - 130)**	**5.1**	**(0 - 50)**
1,2,3,7,8-PeCDD	**1000**	**937**	**pg/sample**	**94**		**(70 - 130)**		
	1000	**968**	**pg/sample**	**97**		**(70 - 130)**	**3.2**	**(0 - 50)**
1,2,3,4,7,8-HxCDD	**1000**	**856**	**pg/sample**	**86**	**B**	**(70 - 130)**		
	1000	**902**	**pg/sample**	**90**	**B**	**(70 - 130)**	**5.2**	**(0 - 50)**
1,2,3,6,7,8-HxCDD	**1000**	**1050**	**pg/sample**	**105**		**(70 - 130)**		
	1000	**1020**	**pg/sample**	**102**		**(70 - 130)**	**2.6**	**(0 - 50)**
1,2,3,7,8,9-HxCDD	**1000**	**893**	**pg/sample**	**89**	**B**	**(70 - 130)**		
	1000	**839**	**pg/sample**	**84**	**B**	**(70 - 130)**	**6.3**	**(0 - 50)**
1,2,3,4,6,7,8-HpCDD	**1000**	**1020**	**pg/sample**	**102**	**B**	**(70 - 130)**		
	1000	**1050**	**pg/sample**	**105**	**B**	**(70 - 130)**	**2.5**	**(0 - 50)**
OCDD	**2000**	**2260**	**pg/sample**	**113**	**B**	**(70 - 130)**		
	2000	**2260**	**pg/sample**	**113**	**B**	**(70 - 130)**	**0.040**	**(0 - 50)**
2,3,7,8-TCDF	**200**	**194**	**pg/sample**	**97**		**(70 - 130)**		
	200	**187**	**pg/sample**	**94**		**(70 - 130)**	**3.5**	**(0 - 50)**
1,2,3,7,8-PeCDF	**1000**	**1120**	**pg/sample**	**112**		**(70 - 130)**		
	1000	**1120**	**pg/sample**	**112**		**(70 - 130)**	**0.24**	**(0 - 50)**
2,3,4,7,8-PeCDF	**1000**	**1090**	**pg/sample**	**109**		**(70 - 130)**		
	1000	**1070**	**pg/sample**	**107**		**(70 - 130)**	**1.1**	**(0 - 50)**
1,2,3,4,7,8-HxCDF	**1000**	**1010**	**pg/sample**	**101**	**B**	**(70 - 130)**		
	1000	**1030**	**pg/sample**	**103**	**B**	**(70 - 130)**	**2.0**	**(0 - 50)**
1,2,3,6,7,8-HxCDF	**1000**	**1110**	**pg/sample**	**111**	**B**	**(70 - 130)**		
	1000	**1100**	**pg/sample**	**110**	**B**	**(70 - 130)**	**0.40**	**(0 - 50)**
2,3,4,6,7,8-HxCDF	**1000**	**1070**	**pg/sample**	**107**	**B**	**(70 - 130)**		
	1000	**1110**	**pg/sample**	**111**	**B**	**(70 - 130)**	**3.8**	**(0 - 50)**
1,2,3,7,8,9-HxCDF	**1000**	**864**	**pg/sample**	**86**	**B**	**(70 - 130)**		
	1000	**755**	**pg/sample**	**76**	**B**	**(70 - 130)**	**13**	**(0 - 50)**
1,2,3,4,6,7,8-HpCDF	**1000**	**964**	**pg/sample**	**96**	**B**	**(70 - 130)**		
	1000	**951**	**pg/sample**	**95**	**B**	**(70 - 130)**	**1.3**	**(0 - 50)**
1,2,3,4,7,8,9-HpCDF	**1000**	**812**	**pg/sample**	**81**	**B**	**(70 - 130)**		
	1000	**713**	**pg/sample**	**71**	**B**	**(70 - 130)**	**13**	**(0 - 50)**
OCDF	**2000**	**2250**	**pg/sample**	**113**	**B**	**(70 - 130)**		
	2000	**2440**	**pg/sample**	**122**	**B**	**(70 - 130)**	**8.0**	**(0 - 50)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	70	(50 - 120)
	67	(50 - 120)
13C-1,2,3,7,8-PeCDD	72	(50 - 120)
	68	(50 - 120)
13C-1,2,3,6,7,8-HxCDD	85	(50 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H8K260115 **Work Order # ...:** K3N8H1AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : H8K260000 - 216 K3N8H1AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	90	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	73	(40 - 120)
	61	(40 - 120)
13C-OCDD	72	(40 - 120)
	56	(40 - 120)
13C-2,3,7,8-TCDF	73	(50 - 120)
	76	(50 - 120)
13C-1,2,3,7,8-PeCDF	71	(50 - 120)
	69	(50 - 120)
13C-1,2,3,6,7,8-HxCDF	83	(50 - 120)
	88	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	90	(40 - 120)
	89	(40 - 120)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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~~

H8K260115

№ 8296

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

Page 1 of 1

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

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ Min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis Method: Dioxins TO-9	Furans TO-9	Expected Conc. (H,M,L)	Hold	Remarks: Type of sample
D-W111808				11/18/08	1482.7	Wetland	1		X	X			Ruf
D-C111808				11/19/08	1509.6	Cell Tower	1		X	X			Ruf
D-PS111808				11/18/08	1326.6	Park - Strasburg	1		X	X			Ruf
D-S111808				11/18/08	1434.6	School	1		X	X			Ruf
D-G111908				11/19/08	1507.2	Campground	1		X	X			Ruf
DF-W111808				11/18/08	1482.7	Wetland	1		X	X			Filter
DF-C111808				11/18/08	1509.6	Cell Tower	1		X	X			Filter
DF-PS111808				11/18/08	1326.6	Park Strasburg	1		X	X			Filter
DF-S111808				11/18/08	1434.6	School	1		X	X			Filter
DF-G111908				11/19/08	1507.2	Campground	1		X	X			Filter

~~REC. AT 10°C~~
~~CUSTODY SEAL INTACT~~
1 COOLER RH 11/25/08
FED EX #868301282498

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	11/25/08 15:00	Lynn Henry	11/26/08 0730				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments: Analyze for Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD)/PCDF)

Distributor: White - File; Yellow - Lab

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** HBK260115

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐1a Do not match COC ☐1b Incomplete information ☐1c Marking smeared ☐1d Label torn ☐1e No label ☐1f COC not received ☑1g Other:	1a, D-W111808, D-C111808, D-PS111808, D-S111808 2B 1g - PER CLIENT REQUEST, COLLECTION DATE FOR PUFs/FILTERS CHANGED TO 11/19/08 AND 11/20/08
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C) DM 11-26-08	✓		✓	☐2a Temp Blank = _____ ☑2b Cooler Temp = 10°C	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐4a Not present ☐4b Not intact ☐4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐5a Samples received-not on COC ☐5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐6a Leaking ☐6b Broken	
7. Were VOA samples received without headspace?			✓	☐7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐9a Could not be determined due to matrix interference	
10. Were samples received within holding time? DM 11-26-08	✗	✓		☑10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐13a Leaking ☐13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 11/26/08

QA026R19.doc, 080707

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #21

February 20, 2009

APPENDIX K. Quality Assurance & Data Validation
PCDD/PCDF Monitoring

Sampling Conducted November 18 through November 20, 2008

Data Validation by EarthTech/AECOM

QUALITY ASSURANCE REPORT

FOR THE

COUNTYWIDE RECYCLING & DISPOSAL FACILITY SITE

EARTH TECH: PROJECT NUMBER 103345

TEST AMERICA LABORATORY WORK ORDER # H8K260115

PROJECT MANAGER: Michael Beaudoin

Date: January 7, 2008

Data Validator: Mark Kromis

DATA REVIEW

The *USEPA Analytical Operations/Data Quality Center (AOC) National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, EPA 540-R-02-003, August 2002.* was used by Earth Tech as applicable for reviewing data and applying qualifiers. During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data validator. Final results are therefore, either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N — The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ — The analysis indicates the presumptive presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Data review technical memorandums are below.

DATA EVALUATION

Quality Control Sample Results

As part of the overall data review, the results of field QC samples were examined to evaluate the effect of field procedures on data quality. Field QC sample consisted of a field blank.

Precision, Accuracy, Representativeness, Comparability, and Completeness

Precision

Precision is a measure of the reproducibility of a measurement. Precision is estimated by analyzing duplicate samples and the calculation of relative percent difference (RPD) or relative standard deviation (RSD).

Accuracy

Accuracy is the measure of bias in a system. It is the degree of agreement between a measurement and an accepted reference or true value. Accuracy was estimated for this project by analyzing QC samples with known true values (surrogate or matrix spikes) and was expressed as percent recovery. Data that do not meet accuracy criteria are flagged J (estimated) or R (rejected), as appropriate.

Representativeness and Comparability

Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population at a sampling point, process condition, or environmental condition. Comparability expresses the confidence with which a data set can be compared to another. Representativeness and comparability are qualitative objectives that were met for this project by following SOPs for sample collection and analysis.

Completeness

Completeness is the measure of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under normal conditions. The completeness of the data is based on the number of valid data points divided by the number of total data points.

The data completeness was calculated by using the total number of rejected data records and dividing that number by the total number of data records. The percentages of data completeness calculated for this sampling event are as follows:

Parameter	Air Matrix
PCDD/PCDF	100%

An overall data completeness of 100 % was achieved.

DATA REVIEW TECHNICAL MEMORANDUMS

LIST OF ACRONYMS

CC	Continuing Calibration
COC	Chain-of-Custody
CRDF	Countywide Recycling & Disposal Facility
CPS	Column Performance Solution
HRGC/HRMS	High Resolution Mass Spectrometer/ High Resolution Mass Spectrometer
IS	Internal Standard
LCS	Laboratory Control Sample
m3	cubic meters
ppb	part per billion
QC	Quality Control
%D	Percent Difference
%R	Percent Recovery
PCDD	Polychlorinated Dibenzodioxins
PCDF	Polychlorinated Dibenzofurans
pg	picogram
SMC	System Monitoring Compound
TA	Test America Laboratory
TEF	Toxicity Equivalents Factor
TEQ	Toxicity Equivalents Concentration
TSQWP	Task Specific Quality Work Plan
USEPA	United States Environmental Protection Agency

PCDD/PCDF DATA VALIDATION SUMMARY

Validation of the HRGC/HRMS Polychlorinated Dibenzodioxins/Polychlorinated Dibenzofurans (PCDD/PCDF) data, as prepared by Test America (TA), for the air samples from the Countywide Recycling & Disposal Facility Site (CRDF) collected in November 2008 was conducted by Earth Tech using the *USEPA Analytical Operations/Data Quality Center (AOC) National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, EPA 540-R-02-003, August 2002,* as applicable. The data was reported by TA under Work Order #H8K260115.

TA ID Number	Sample I.D. No	Sample Description
H8K260115-001	D-W111808/DFW111808	Wetland
H8K260115-002	D-C111808/DFC111808	Cell Tower
H8K260115-003	D-PS111808/DFPS111808	Park-Strasburg
H8K260115-004	D-S111808/DFS111808	School
H8K260115-005	D-C111808/DFC111808	Campground
H8K260115-006	-	A-6224 MEDIA CHECK

INTRODUCTION

Analyses were performed according USEPA method TO-9A. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation. During the validation process, laboratory qualifier codes such as those listed below may be appended to the results as required:

B — The analyte was detected in the associated method blank; the associated numerical value is the approximate concentration of the analyte in the sample.

ND — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Q — Estimated maximum possible concentration. The qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method.

The Dioxin/Furan data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. HRGC/HRMS Tuning and GC Column Performance Check
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. Laboratory Control Sample
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples for Dioxin/Furan analyses were analyzed within the 45-day technical holding time. The cooler temperature upon receipt at the laboratory was at 10° C which exceeded the recommended temperature of 4° C. Due to the temperature discrepancy the data validator qualified the positive results as estimated with a "J" and non-detected results with "UJ".

2. HRGC/HRMS TUNING and GC COLUMN PERFORMANCE SOLUTION

The samples were analyzed on two HRGC/HRMS systems identified as M2A and M3C. Four perfluorokerosene (PFK) tunes were run on M2A. The PFK tunes (10258/10258 and 10638/10309) met the minimum required resolving power of 10,000. Four perfluorokerosene (PFK) tunes were run on M3C. The PFK tunes (10422/10422 and 10638/10309) met the minimum required resolving power of 10,000.

The GC column performance solution (CPS) were within the method criteria (peak separation between the unlabeled 2,3,7,8-TCDD and the peaks representing any other TCDD isomer were resolved with a valley of ≤ 25%). It should be noted that the CPS associated with the analysis dated 12/4/08 analyzed on instrument M2A was injected after the CC therefore the results for the "Total" homologues were qualified with a "J" qualifier.

3. CALIBRATION

A. Initial Calibration

One IC dated 5/26/06 was analyzed on instrument M2A in support of the Dioxin/Furan analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported.

One IC dated 3/15/07 was analyzed on instrument M3C in support of the 2,3,7,8-TCDF confirmation analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported.

The %RSD's were within the acceptance criteria as specified in Table 21 of method TO-9A.

B. Continuing Calibration

One CC dated 12/4/08 was analyzed on instrument M2A in support of the Dioxin/Furan analyses reported in the data submissions. The %Difference between the ICAL and CC response factors met the requirements as specified in Table 21 of method TO-9A.

One CC dated 12/5/08 was analyzed on instrument M3C in support of the Dioxin/Furan analyses reported in the data submissions. The %Difference between the ICAL and CC response factors met the requirements as specified in Table 21 of method TO-9A.

4. BLANKS

One laboratory method blank and one PUF/Filter media check were analyzed with this SDG. The results are summarized below.

MB (Batch: 8331216)

Compounds	Results (pg)	Minimum Limit (pg)	Estimated Detection Limit (pg)
1,2,3,4,7,8-HxCDD	4.2	50	3.1
1,2,3,7,8,9-HxCDD	7.0	50	2.9
1,2,3,4,6,7,8-HpCDD	10	50	5.9
OCDD	25	100	5.6
Total TCDD	3.7	10	7.3
1,2,3,4,7,8-HxCDF	3.8	50	2.1
1,2,3,6,7,8-HxCDF	5.1	50	2.0
2,3,4,6,7,8-HxCDF	4.0	50	2.2

MB (Batch: 8331216)cont.

Compounds	Results (pg)	Minimum Limit (pg)	Estimated Detection Limit (pg)
1,2,3,7,8,9-HxCDF	5.2	50	2.4
1,2,3,4,6,7,8-HpCDF	5.9	50	2.4
1,2,3,4,7,8,9-HpCDF	5.8	50	2.9
OCDF	18	100	5.2
Total HxCDD	11	50	3.1
Total HpCDD	10	50	5.9
Total HxCDF	18	50	2.2
Total HpCDF	12	50	2.6

A-6224 Media Check*

Compounds	Results (pg)	Minimum Limit (pg)	Estimated Detection Limit (pg)
1,2,3,7,8,9-HxCDD	1.8	50	1.4
1,2,3,4,6,7,8-HpCDD	7.1	50	3.1
OCDD	12	100	3.1
1,2,3,6,7,8-HxCDF	1.3	50	1.0
1,2,3,7,8,9-HxCDF	3.2	50	1.2
OCDF	7.7	100	3.2
Total HxCDD	18	50	1.5
Total HpCDD	7.1	50	3.1
Total HxCDF	4.5	50	1.1

It should be noted that in section 10.2.6 of USEPA Method TO-9A it states that a level of 2 to 20 pg for tetra-,penta-, and hexa- and 40 to 150 pg for hepta- and octa-CDDs similar to that occasionally detected in the method blank (background contamination) is considered to be acceptable.

* This PUF/Filter was fortified with the field fortification solution by the laboratory prior to being shipped to the field. It should be noted that the PUF/Filter was not installed on the sampler and passively exposed at the sampling area.

5. SYSTEM MONITORING COMPOUND RECOVERY

The system monitoring compounds (SMC) that were spiked into the PUF prior to being shipped to the field were recovered within acceptable control limits (50-120%).

6. LABORATORY CONTROL SAMPLE

One Laboratory Control Sample (LCS) was analyzed in conjunction with this SDG. Recoveries were within the control limit (70%-130%).

7. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) method efficiencies were within the acceptable limits as specified in Section 15.9 of method TO-9A.

8. COMPOUND IDENTIFICATION

All reported Dioxin/Furans were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for Dioxin/Furan. There were several occurrences in which the ion ratio for the substituted PCDD and PCDF homologues were not within the specified ranges listed in Table 19 of method TO-9A. Depending on whether the results were greater or less than the minimum reporting level the data validator qualified the associated results in which the ion ratio was outside of the acceptance criteria with either a "N" or "NJ" .

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

11. DOCUMENTATION

The laboratory acknowledged that Lawhon and Associates instructed TA to change the date of collection to 11/19/08 and 11/20/08 in place of the 11/18/08 and 11/19/08 dates of collection that were listed on COC No. 8296 dated 11/15/08.

12. OVERALL ASSESSMENT

The data validator qualified the Dioxin/Furan results on the summary pages of the laboratory report that were less than what was detected in the associated method blank with "U". These results are also italicized in the table below to indicate the results were less than the concentration detected in the associated method blank. The results have been included in calculating the TEQ tables below as to indicate a worse case scenario. The results which were qualified with a "N" or "NJ" by the data validator are bolded in the TEQ tables below to indicate that the result is considered to be an Estimated Maximum Possible Concentration (EMPC). In cases in which the concentration was less than what was detected in the method blank and the result was considered an EMPC the numerical value was italicized and the homologue was bolded (ex. **2,3,7,8-TCDF** *2.3*).

m3 = cubic meters					
Wetland	**pg**	**m3 of air sampled**	**pg/m3**	**Toxicity Equivalent Factors (TEF's)**	**Toxicity Equivalent Concentrations (TEQs)**
2378-TCDF	**6.4**	469.372	0.013635	0.1	0.001364
2378-TCDD	ND	469.372	ND	1	
12378-PeCDF	**8.8**	469.372	0.018748	0.05	0.000937
23478-PeCDF	17	469.372	0.036219	0.5	0.018109
12378-PeCDD	ND	469.372	ND	0.5	
123478-HxCDF	19	469.372	0.04048	0.1	0.004048
123678-HxCDF	18	469.372	0.038349	0.1	0.003835
234678-HxCDF	16	469.372	0.034088	0.1	0.003409
123789-HxCDF	ND	469.372	ND	0.1	
123478-HxCDD	**4.6**	469.372	0.0098	0.1	0.00098
123678-HxCDD	8.2	469.372	0.01747	0.1	0.001747
123789-HxCDD	13	469.372	0.027697	0.1	0.00277
1234678-HpCDF	58	469.372	0.123569	0.01	0.001236
1234789-HpCDF	**7**	469.372	0.014914	0.01	0.000149
1234678-HpCDD	89	469.372	0.189615	0.01	0.001896
OCDF	41	469.372	0.087351	0.001	8.74E-05
OCDD	280	469.372	0.596542	0.001	0.000597
Total TEQ					**0.04116**
Bold results = EMPC	**Estimated Maximum Possible Concentration**				

m3 = cubic meter					
Cell Tower	**pg**	**m3 of air sampled**	**pg/m3**	**Toxicity Equivalent Factors (TEF's)**	**Toxicity Equivalent Concentrations (TEQs)**
2378-TCDF	**8.2**	487.754	0.016812	0.1	0.001681
2378-TCDD	ND	487.754	ND	1	
12378-PeCDF	**3.1**	487.754	0.006356	0.05	0.000318
23478-PeCDF	**4.4**	487.754	0.009021	0.5	0.00451
12378-PeCDD	ND	487.754	ND	0.5	
123478-HxCDF	5.9	487.754	0.012096	0.1	0.00121
123678-HxCDF	*3.9*	487.754	0.007996	0.1	0.0008
234678-HxCDF	*3.2*	487.754	0.006561	0.1	0.000656
123789-HxCDF	ND	487.754	ND	0.1	
123478-HxCDD	**5**	487.754	0.010251	0.1	0.001025
123678-HxCDD	11	487.754	0.022552	0.1	0.002255
123789-HxCDD	16	487.754	0.032803	0.1	0.00328
1234678-HpCDF	23	487.754	0.047155	0.01	0.000472
1234789-HpCDF	*3.4*	487.754	0.006971	0.01	6.97E-05
1234678-HpCDD	150	487.754	0.307532	0.01	0.003075
OCDF	41	487.754	0.084059	0.001	8.41E-05
OCDD	450	487.754	0.922596	0.001	0.000923
Total TEQ					**0.02036**
Bold results = EMPC	**Estimated Maximum Possible Concentration**				
Italicized Font	*Less than concentration detected in Method Blank*				

m3 = cubic meter					
Park-Strasburg	**pg**	**m3 of air sampled**	**pg/m3**	**Toxicity Equivalent Factors (TEF's)**	**Toxicity Equivalent Concentrations (TEQs)**
2378-TCDF	**7.2**	387.221	0.018594	0.1	0.001859
2378-TCDD	ND	387.221	ND	1	
12378-PeCDF	**3.5**	387.221	0.009039	0.05	0.000452
23478-PeCDF	4.3	387.221	0.011105	0.5	0.005552
12378-PeCDD	7.3	387.221	0.018852	0.5	0.009426
123478-HxCDF	6.2	387.221	0.016012	0.1	0.001601
123678-HxCDF	*5*	387.221	0.012913	0.1	0.001291
234678-HxCDF	5.1	387.221	0.013171	0.1	0.001317
123789-HxCDF	ND	387.221	ND	0.1	
123478-HxCDD	8.5	387.221	0.021951	0.1	0.002195
123678-HxCDD	12	387.221	0.03099	0.1	0.003099
123789-HxCDD	**17**	387.221	0.043903	0.1	0.00439
1234678-HpCDF	27	387.221	0.069728	0.01	0.000697
1234789-HpCDF	*3.3*	387.221	0.008522	0.01	8.52E-05
1234678-HpCDD	200	387.221	0.516501	0.01	0.005165
OCDF	35	387.221	0.090388	0.001	9.04E-05
OCDD	640	387.221	1.652803	0.001	0.001653
Total TEQ					**0.03887**
Bold results = EMPC	**Estimated Maximum Possible Concentration**				
Italicized Font	*Less than concentration detected in Method Blank*				

m3 = cubic meter					
School	**pg**	**m3 of air sampled**	**pg/m3**	**Toxicity Equivalent Factors (TEF's)**	**Toxicity Equivalent Concentrations (TEQs)**
2378-TCDF	**5.2**	479.723	0.01084	0.1	0.001084
2378TCDD	ND	479.723	ND	1	
12378-PeCDF	ND	479.723	ND	0.05	
23478-PeCDF	ND	479.723	ND	0.5	
12378-PeCDD	ND	479.723	ND	0.5	
123478-HxCDF	7.3	479.723	0.015217	0.1	0.001522
123678-HxCDF	ND	479.723	ND	0.1	
234678-HxCDF	*2.6*	479.723	0.00542	0.1	0.000542
123789-HxCDF	ND	479.723	ND	0.1	
123478-HxCDD	*3.9*	479.723	0.00813	0.1	0.000813
123678-HxCDD	**4.9**	479.723	0.010214	0.1	0.001021
123789-HxCDD	10	479.723	0.020845	0.1	0.002085
1234678-HpCDF	18	479.723	0.037522	0.01	0.000375
1234789-HpCDF	ND	479.723	ND	0.01	
1234678-HpCDD	130	479.723	0.27099	0.01	0.00271
OCDF	26	479.723	0.054198	0.001	5.42E-05
OCDD	510	479.723	1.063114	0.001	0.001063
Total TEQ					**0.01127**
Bold results = EMPC	**Estimated Maximum Possible Concentration**				
Italicized Font	*Less than concentration detected in Method Blank*				

m3 = cubic meter					
Campground	**pg**	**m3 of air sampled**	**pg/m3**	**Toxicity Equivalent Factors (TEF's)**	**Toxicity Equivalent Concentrations (TEQs)**
2378-TCDF	ND	474.814	ND	0.1	
2378TCDD	ND	474.814	ND	1	
12378-PeCDF	ND	474.814	ND	0.05	
23478-PeCDF	ND	474.814	ND	0.5	
12378-PeCDD	ND	474.814	ND	0.5	
123478-HxCDF	*1.8*	474.814	0.003791	0.1	0.000379
123678-HxCDF	*1.4*	474.814	0.002949	0.1	
234678-HxCDF	ND	474.814	ND	0.1	
123789-HxCDF	ND	474.814	ND	0.1	
123478-HxCDD	ND	474.814	ND	0.1	
123678-HxCDD	**2.5**	474.814	0.005265	0.1	0.000527
123789-HxCDD	*5.3*	474.814	0.011162	0.1	0.001116
1234678-HpCDF	**6.1**	474.814	0.012847	0.01	0.000128
1234789-HpCDF	ND	474.814	ND	0.01	
1234678-HpCDD	48	474.814	0.101092	0.01	0.001011
OCDF	*13*	474.814	0.027379	0.001	2.74E-05
OCDD	200	474.814	0.421218	0.001	0.000421
Total TEQ					**0.00361**
Bold results = EMPC	**Estimated Maximum Possible Concentration**				
Italicized Font	*Less than concentration detected in Method Blank*				

m3 = cubic meter					
A-6224 Media Check	**pg**	**m3 of air sampled**	**pg/m3**	**Toxicity Equivalent Factors (TEF's)**	**Toxicity Equivalent Concentrations (TEQs)**
2378-TCDF	ND	474.814	ND	0.1	
2378TCDD	ND	474.814	ND	1	
12378-PeCDF	ND	474.814	ND	0.05	
23478-PeCDF	ND	474.814	ND	0.5	
12378-PeCDD	ND	474.814	ND	0.5	
123478-HxCDF	ND	474.814	ND	0.1	
123678-HxCDF	*1.3*	474.814	0.002738	0.1	0.000274
234678-HxCDF	ND	474.814	ND	0.1	
123789-HxCDF	*3.2*	474.814	0.006739	0.1	0.000674
123478-HxCDD	ND	474.814	ND	0.1	
123678-HxCDD	ND	474.814	ND	0.1	
123789-HxCDD	*1.8*	474.814	0.003791	0.1	0.000379
1234678-HpCDF	ND	474.814	ND	0.01	
1234789-HpCDF	ND	474.814	ND	0.01	
1234678-HpCDD	*7.1*	474.814	0.014953	0.01	0.00015
OCDF	*7.7*	474.814	0.016217	0.001	1.62E-05
OCDD	*12*	474.814	0.025273	0.001	2.53E-05
Total TEQ					**0.00152**
Bold results = EMPC	**Estimated Maximum Possible Concentration**				
Italicized Font	*Less than concentration detected in Method Blank*				