

ANALYTICAL REPORT

Job Number: 460-43815-1

Job Description: 17338-TO4-2012, GM Wilmington

For:
Conestoga-Rovers & Associates, Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, NY 14304
Attention: Ms. Sue Scrocchi



Approved for release.
Jannel O Franklin
Project Manager I
8/29/2012 1:08 PM

Designee for
Jamie Capaci
Project Manager I
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08/29/2012

cc: Chris Barton

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

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Job Narrative
460-43815-1

Comments

No additional comments.

Receipt

The samples were received on 8/21/2012 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

No analytical or quality issues were noted.

Subcontract Work

Method TO-15 & Helium: This method was subcontracted to TestAmerica Knoxville. The subcontract certification is different from those listed on the TestAmerica cover page of this final report.

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43815-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-43815-1	SGA-17338-081712-MM-01	Air - Summa Cannister	08/17/2012 1550	08/21/2012 1000
460-43815-2	SG4-17338-081712-MM-02	Air - Summa Cannister	08/17/2012 1257	08/21/2012 1000
460-43815-3	SG3-17338-081712-MM-03	Air - Summa Cannister	08/17/2012 1345	08/21/2012 1000
460-43815-4	SG2-17338-081712-MM-04	Air - Summa Cannister	08/17/2012 1438	08/21/2012 1000
460-43815-5	SG7-17338-081712-MM-05	Air - Summa Cannister	08/17/2012 1444	08/21/2012 1000
460-43815-6	SG1-17338-081712-MM-06	Air - Summa Cannister	08/17/2012 1457	08/21/2012 1000
460-43815-7	SG5-17338-081712-MM-07	Air - Summa Cannister	08/17/2012 1535	08/21/2012 1000

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43815-1

Description	Lab Location	Method	Preparation Method
Matrix: Air - Summa Cannister			
General Sub Contract Method	TAL KNX	Subcontract	

Lab References:

TAL KNX = TestAmerica Knoxville

Method References:

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Subcontract Data

H2H210443 Analytical Report	1
Sample Receipt Documentation	41
Total Number of Pages	45

TestAmerica

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TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 460-43815

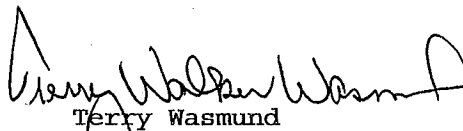
CRA - GM Wilmington

Lot #: H2H210443

Jamie Capaci

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817

TESTAMERICA LABORATORIES, INC.



Terry Wasmund
Project Manager

August 27, 2012

ANALYTICAL METHODS SUMMARY

H2H210443

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Helium by Modified ASTM Method D1946	ASTM D1946 MOD
Volatile Organics by TO15	EPA-2 TO-15

References:

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

SAMPLE SUMMARY

H2H210443

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MV8D1	001	SGA-17338-081712-MM-01	08/17/12	15:50
MV8D4	002	SG4-17338-081712-MM-02	08/17/12	12:57
MV8D6	003	SG3-17338-081712-MM-03	08/17/12	13:45
MV8D8	004	SG2-17338-081712-MM-04	08/17/12	14:38
MV8EC	005	SG7-17338-081712-MM-05	08/17/12	14:44
MV8ED	006	SG1-17338-081712-MM-06	08/17/12	14:57
MV8EF	007	SG5-17338-081712-MM-07	08/17/12	15:35

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

H2H210443

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

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.

Volatiles

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.

Samples SG3-17338-081712-MM-03 and SG5-17338-081712-MM-07 were reported with elevated reporting limits for all analytes due to the difficult sample matrix. A dilution was necessary prior to analysis, and the reporting limits were adjusted accordingly.

The concentration of toluene in sample SG4-17338-081712-MM-02 and hexane in sample SG7-17338-081712-MM-05 exceeded the calibration level of the instrument. The samples were analyzed at a dilution to bring the concentration of the compound into the instrument calibration range. The results for both analyses are reported in order to provide the lowest possible reporting limits.

Quantitation for the ethanol was previously based on a one-point calibration standard at the reporting limit. Ethanol was quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.

PROJECT NARRATIVE

H2H210443

- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	L-A-B	DoD ELAP		L2311
TestAmerica Knoxville	Arkansas DEQ	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana DOHH	State Program	6	LA110001
TestAmerica Knoxville	Louisiana DEQ	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina DENR	State Program	4	64
TestAmerica Knoxville	North Carolina DHHS	State Program	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	Federal	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	NELAC	3	460176
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia DEP	State Program	3	345
TestAmerica Knoxville	West Virginia DHHR	State Program	3	9955C

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica Edison

Client Sample ID: SGA-17338-081712-MM-01

GC/MS Volatiles

Lot-Sample # H2H210443 - 001 Work Order # MV8D11AA Matrix.....: AIR
 Date Sampled...: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/22/2012 Analysis Date...: 08/22/2012
 Prep Batch #.....: 2236030
 Dilution Factor.: 1 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	0.087	0.080	0.28	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
2-Butanone (MEK)	0.57	0.32	1.7	0.94
tert-Butyl alcohol	ND	0.32	ND	0.97
Carbon tetrachloride	0.073	0.040	0.46	0.25
Chlorobenzene	ND	0.080	ND	0.37
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Chloromethane	0.56	0.20	1.2	0.41
Cyclohexane	ND	0.20	ND	0.69
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,3-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dichlorobenzene	ND	0.080	ND	0.48
Dichlorodifluoromethane	0.45	0.080	2.2	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
1,4-Dioxane	ND	0.20	ND	0.72
Ethanol	1.1	0.80	2.0	1.5
Ethylbenzene	ND	0.080	ND	0.35
Hexachlorobutadiene	ND	0.080	ND	0.85
n-Hexane	ND	0.20	ND	0.70
Methylene chloride	0.30	0.20	1.0	0.69
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Styrene	ND	0.080	ND	0.34
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55

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TestAmerica Edison

Client Sample ID: SGA-17338-081712-MM-01

GC/MS Volatiles

Lot-Sample # H2H210443 - 001 Work Order # MV8D11AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	0.22	0.080	0.82	0.30
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	0.23	0.080	1.3	0.45
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Vinyl chloride	ND	0.080	ND	0.20
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	60 - 140

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

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

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TestAmerica Edison

Client Sample ID: SG4-17338-081712-MM-02

GC/MS Volatiles

Lot-Sample # H2H210443 - 002 Work Order # MV8D41AA Matrix.....: AIR

Date Sampled...: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/22/2012 Analysis Date...: 08/22/2012
 Prep Batch #....: 2236030
 Dilution Factor.: 1 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	7.3	0.080	23	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	0.54	0.080	3.6	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
2-Butanone (MEK)	5.3	0.32	16	0.94
tert-Butyl alcohol	ND	0.32	ND	0.97
Carbon tetrachloride	0.045	0.040	0.29	0.25
Chlorobenzene	1.6	0.080	7.3	0.37
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	0.17	0.080	0.44	0.21
Chloroform	3.1	0.080	15	0.39
Chloromethane	1.5	0.20	3.0	0.41
Cyclohexane	0.64	0.20	2.2	0.69
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,3-Dichlorobenzene	1.2	0.080	7.3	0.48
1,4-Dichlorobenzene	ND	0.080	ND	0.48
Dichlorodifluoromethane	0.35	0.080	1.7	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
1,4-Dioxane	ND	0.20	ND	0.72
Ethanol	1.3	0.80	2.5	1.5
Ethylbenzene	1.3	0.080	5.8	0.35
Hexachlorobutadiene	ND	0.080	ND	0.85
n-Hexane	2.7	0.20	9.4	0.70
Methylene chloride	0.66	0.20	2.3	0.69
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Styrene	ND	0.080	ND	0.34
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	0.20	0.080	1.4	0.54

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TestAmerica Edison

Client Sample ID: SG4-17338-081712-MM-02

GC/MS Volatiles

Lot-Sample # H2H210443 - 002 Work Order # MV8D41AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Toluene	35 E	0.080	130 E	0.30
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	0.30	0.080	1.7	0.45
1,1,2-Trichlorotrifluoroethane	0.090	0.080	0.69	0.61
1,2,4-Trimethylbenzene	0.59	0.080	2.9	0.39
1,3,5-Trimethylbenzene	0.22	0.080	1.1	0.39
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Vinyl chloride	0.14	0.080	0.36	0.20
m-Xylene & p-Xylene	5.0	0.080	22	0.35
o-Xylene	1.9	0.080	8.4	0.35

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

Qualifiers

E Estimated result. Result concentration exceeds the calibration range.

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)

TestAmerica Edison

Client Sample ID: SG4-17338-081712-MM-02

GC/MS Volatiles

Lot-Sample #	H2H210443 - 002	Work Order #	MV8D42AA	Matrix.....:	AIR
Date Sampled...:	08/17/2012	Date Received...:	08/21/2012		
Prep Date.....:	08/23/2012	Analysis Date...:	08/23/2012		
Prep Batch #.....:	2237025				
Dilution Factor.:	7.4	Method.....:	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Toluene	29 D	0.59	110 D	2.2
SURROGATE		PERCENT RECOVERY		LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene		100		60 - 140

Qualifiers

D Result was obtained from the analysis of a dilution.

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)

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TestAmerica Edison

Client Sample ID: SG3-17338-081712-MM-03

GC/MS Volatiles

Lot-Sample # H2H210443 - 003 Work Order # MV8D61AA Matrix.....: AIR
 Date Sampled...: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/23/2012 Analysis Date...: 08/23/2012
 Prep Batch #....: 2237025
 Dilution Factor.: 10 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	0.85	0.80	2.7	2.6
Benzyl chloride	ND	1.6	ND	8.3
Bromodichloromethane	ND	0.80	ND	5.4
Bromoform	ND	0.80	ND	8.3
Bromomethane	ND	0.80	ND	3.1
2-Butanone (MEK)	ND	3.2	ND	9.4
tert-Butyl alcohol	ND	3.2	ND	9.7
Carbon tetrachloride	ND	0.40	ND	2.5
Chlorobenzene	ND	0.80	ND	3.7
Dibromochloromethane	ND	0.80	ND	6.8
Chloroethane	ND	0.80	ND	2.1
Chloroform	ND	0.80	ND	3.9
Chloromethane	ND	2.0	ND	4.1
Cyclohexane	ND	2.0	ND	6.9
1,2-Dibromoethane (EDB)	ND	0.80	ND	6.1
1,2-Dichlorobenzene	ND	0.80	ND	4.8
1,3-Dichlorobenzene	ND	0.80	ND	4.8
1,4-Dichlorobenzene	ND	0.80	ND	4.8
Dichlorodifluoromethane	ND	0.80	ND	4.0
1,1-Dichloroethane	ND	0.80	ND	3.2
1,2-Dichloroethane	ND	0.80	ND	3.2
cis-1,2-Dichloroethene	ND	0.80	ND	3.2
trans-1,2-Dichloroethene	ND	0.80	ND	3.2
1,1-Dichloroethene	ND	0.80	ND	3.2
1,2-Dichloropropane	ND	0.80	ND	3.7
cis-1,3-Dichloropropene	ND	0.80	ND	3.6
trans-1,3-Dichloropropene	ND	0.80	ND	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.80	ND	5.6
1,4-Dioxane	ND	2.0	ND	7.2
Ethanol	ND	8.0	ND	15
Ethylbenzene	0.84	0.80	3.6	3.5
Hexachlorobutadiene	ND	0.80	ND	8.5
n-Hexane	ND	2.0	ND	7.0
Methylene chloride	ND	2.0	ND	6.9
4-Methyl-2-pentanone (MIBK)	ND	2.0	ND	8.2
Methyl tert-butyl ether	ND	1.6	ND	5.8
Styrene	ND	0.80	ND	3.4
1,1,2,2-Tetrachloroethane	ND	0.80	ND	5.5

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TestAmerica Edison

Client Sample ID: SG3-17338-081712-MM-03

GC/MS Volatiles

Lot-Sample # H2H210443 - 003 Work Order # MV8D61AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Tetrachloroethene	1.4	0.80	9.5	5.4
Toluene	2.4	0.80	9.1	3.0
1,2,4-Trichlorobenzene	ND	0.80	ND	5.9
1,1,1-Trichloroethane	ND	0.80	ND	4.4
1,1,2-Trichloroethane	ND	0.80	ND	4.4
Trichloroethene	ND	0.40	ND	2.1
Trichlorofluoromethane	ND	0.80	ND	4.5
1,1,2-Trichlorotrifluoroethane	ND	0.80	ND	6.1
1,2,4-Trimethylbenzene	3.1	0.80	15	3.9
1,3,5-Trimethylbenzene	ND	0.80	ND	3.9
2,2,4-Trimethylpentane	ND	2.0	ND	9.3
Vinyl chloride	ND	0.80	ND	2.0
m-Xylene & p-Xylene	3.7	0.80	16	3.5
o-Xylene	1.7	0.80	7.3	3.5

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

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

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

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TestAmerica Edison

Client Sample ID: SG2-17338-081712-MM-04

GC/MS Volatiles

Lot-Sample # H2H210443 - 004 Work Order # MV8D81AA Matrix.....: AIR

Date Sampled...: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/22/2012 Analysis Date...: 08/22/2012
 Prep Batch #.....: 2236030
 Dilution Factor.: 46805.8 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	46000	3700	150000	12000
Benzyl chloride	ND	7500	ND	39000
Bromodichloromethane	ND	3700	ND	25000
Bromoform	ND	3700	ND	39000
Bromomethane	ND	3700	ND	15000
2-Butanone (MEK)	ND	15000	ND	44000
tert-Butyl alcohol	ND	15000	ND	45000
Carbon tetrachloride	ND	1900	ND	12000
Chlorobenzene	ND	3700	ND	17000
Dibromochloromethane	ND	3700	ND	32000
Chloroethane	ND	3700	ND	9900
Chloroform	ND	3700	ND	18000
Chloromethane	ND	9400	ND	19000
Cyclohexane	110000	9400	380000	32000
1,2-Dibromoethane (EDB)	ND	3700	ND	29000
1,2-Dichlorobenzene	ND	3700	ND	23000
1,3-Dichlorobenzene	ND	3700	ND	23000
1,4-Dichlorobenzene	ND	3700	ND	23000
Dichlorodifluoromethane	ND	3700	ND	19000
1,1-Dichloroethane	ND	3700	ND	15000
1,2-Dichloroethane	ND	3700	ND	15000
cis-1,2-Dichloroethene	ND	3700	ND	15000
trans-1,2-Dichloroethene	ND	3700	ND	15000
1,1-Dichloroethene	ND	3700	ND	15000
1,2-Dichloropropane	ND	3700	ND	17000
cis-1,3-Dichloropropene	ND	3700	ND	17000
trans-1,3-Dichloropropene	ND	3700	ND	17000
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3700	ND	26000
1,4-Dioxane	ND	9400	ND	34000
Ethanol	ND	37000	ND	71000
Ethylbenzene	ND	3700	ND	16000
Hexachlorobutadiene	ND	3700	ND	40000
n-Hexane	350000	9400	1200000	33000
Methylene chloride	ND	9400	ND	33000
4-Methyl-2-pentanone (MIBK)	ND	9400	ND	38000
Methyl tert-butyl ether	ND	7500	ND	27000
Styrene	ND	3700	ND	16000
1,1,2,2-Tetrachloroethane	ND	3700	ND	26000

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TestAmerica Edison

Client Sample ID: SG2-17338-081712-MM-04

GC/MS Volatiles

Lot-Sample # H2H210443 - 004 Work Order # MV8D81AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Tetrachloroethene	ND	3700	ND	25000
Toluene	3900	3700	15000	14000
1,2,4-Trichlorobenzene	ND	3700	ND	28000
1,1,1-Trichloroethane	ND	3700	ND	20000
1,1,2-Trichloroethane	ND	3700	ND	20000
Trichloroethene	ND	1900	ND	10000
Trichlorofluoromethane	ND	3700	ND	21000
1,1,2-Trichlorotrifluoroethane	ND	3700	ND	29000
1,2,4-Trimethylbenzene	ND	3700	ND	18000
1,3,5-Trimethylbenzene	ND	3700	ND	18000
2,2,4-Trimethylpentane	10000	9400	48000	44000
Vinyl chloride	ND	3700	ND	9600
m-Xylene & p-Xylene	3800	3700	16000	16000
o-Xylene	ND	3700	ND	16000

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	104	60 - 140

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

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

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TestAmerica Edison

Client Sample ID: SG7-17338-081712-MM-05

GC/MS Volatiles

Lot-Sample # H2H210443 - 005 Work Order # MV8EC1AA Matrix.....: AIR

Date Sampled...: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/22/2012 Analysis Date...: 08/22/2012
 Prep Batch #....: 2236030
 Dilution Factor.: 18237.4 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	57000	1500	180000	4700
Benzyl chloride	ND	2900	ND	15000
Bromodichloromethane	ND	1500	ND	9800
Bromoform	ND	1500	ND	15000
Bromomethane	ND	1500	ND	5700
2-Butanone (MEK)	ND	5800	ND	17000
tert-Butyl alcohol	ND	5800	ND	18000
Carbon tetrachloride	ND	730	ND	4600
Chlorobenzene	ND	1500	ND	6700
Dibromochloromethane	ND	1500	ND	12000
Chloroethane	ND	1500	ND	3800
Chloroform	ND	1500	ND	7100
Chloromethane	ND	3600	ND	7500
Cyclohexane	120000	3600	420000	13000
1,2-Dibromoethane (EDB)	ND	1500	ND	11000
1,2-Dichlorobenzene	ND	1500	ND	8800
1,3-Dichlorobenzene	ND	1500	ND	8800
1,4-Dichlorobenzene	ND	1500	ND	8800
Dichlorodifluoromethane	ND	1500	ND	7200
1,1-Dichloroethane	ND	1500	ND	5900
1,2-Dichloroethane	ND	1500	ND	5900
cis-1,2-Dichloroethene	ND	1500	ND	5800
trans-1,2-Dichloroethene	ND	1500	ND	5800
1,1-Dichloroethene	ND	1500	ND	5800
1,2-Dichloropropane	ND	1500	ND	6700
cis-1,3-Dichloropropene	ND	1500	ND	6600
trans-1,3-Dichloropropene	ND	1500	ND	6600
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1500	ND	10000
1,4-Dioxane	ND	3600	ND	13000
Ethanol	ND	15000	ND	27000
Ethylbenzene	3200	1500	14000	6300
Hexachlorobutadiene	ND	1500	ND	16000
n-Hexane	370000 E	3600	1300000 E	13000
Methylene chloride	ND	3600	ND	13000
4-Methyl-2-pentanone (MIBK)	ND	3600	ND	15000
Methyl tert-butyl ether	ND	2900	ND	11000
Styrene	ND	1500	ND	6200
1,1,2,2-Tetrachloroethane	ND	1500	ND	10000

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TestAmerica Edison

Client Sample ID: SG7-17338-081712-MM-05

GC/MS Volatiles

Lot-Sample # H2H210443 - 005 Work Order # MV8EC1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Tetrachloroethene	ND	1500	ND	9900
Toluene	5700	1500	21000	5500
1,2,4-Trichlorobenzene	ND	1500	ND	11000
1,1,1-Trichloroethane	ND	1500	ND	8000
1,1,2-Trichloroethane	ND	1500	ND	8000
Trichloroethene	ND	730	ND	3900
Trichlorofluoromethane	ND	1500	ND	8200
1,1,2-Trichlorotrifluoroethane	ND	1500	ND	11000
1,2,4-Trimethylbenzene	1700	1500	8100	7200
1,3,5-Trimethylbenzene	ND	1500	ND	7200
2,2,4-Trimethylpentane	14000	3600	67000	17000
Vinyl chloride	ND	1500	ND	3700
m-Xylene & p-Xylene	6300	1500	27000	6300
o-Xylene	2000	1500	8900	6300
SURROGATE		PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)	
4-Bromofluorobenzene		91	60 - 140	

Qualifiers

E Estimated result. Result concentration exceeds the calibration range.

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)

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TestAmerica Edison

Client Sample ID: SG7-17338-081712-MM-05

GC/MS Volatiles

Lot-Sample #	H2H210443 - 005	Work Order #	MV8EC2AA	Matrix.....:	AIR
Date Sampled...:	08/17/2012	Date Received...:	08/21/2012		
Prep Date.....:	08/23/2012	Analysis Date...:	08/23/2012		
Prep Batch #.....:	2237025				
Dilution Factor.:	45593.5	Method.....:	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Hexane	290000 D	9100	1000000 D	32000
SURROGATE		PERCENT RECOVERY		LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene		95		60 - 140

Qualifiers

D Result was obtained from the analysis of a dilution.

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)

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TestAmerica Edison

Client Sample ID: SG1-17338-081712-MM-06

GC/MS Volatiles

Lot-Sample # H2H210443 - 006 Work Order # MV8ED1AA Matrix.....: AIR

Date Sampled...: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/23/2012 Analysis Date...: 08/23/2012
 Prep Batch #....: 2237025
 Dilution Factor.: 2000.54 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	610	160	2000	510
Benzyl chloride	ND	320	ND	1700
Bromodichloromethane	ND	160	ND	1100
Bromoform	ND	160	ND	1700
Bromomethane	ND	160	ND	620
2-Butanone (MEK)	ND	640	ND	1900
tert-Butyl alcohol	ND	640	ND	1900
Carbon tetrachloride	ND	80	ND	500
Chlorobenzene	210	160	990	740
Dibromochloromethane	ND	160	ND	1400
Chloroethane	ND	160	ND	420
Chloroform	ND	160	ND	780
Chloromethane	ND	400	ND	830
Cyclohexane	5300	400	18000	1400
1,2-Dibromoethane (EDB)	ND	160	ND	1200
1,2-Dichlorobenzene	ND	160	ND	960
1,3-Dichlorobenzene	ND	160	ND	960
1,4-Dichlorobenzene	ND	160	ND	960
Dichlorodifluoromethane	ND	160	ND	790
1,1-Dichloroethane	ND	160	ND	650
1,2-Dichloroethane	ND	160	ND	650
cis-1,2-Dichloroethene	ND	160	ND	630
trans-1,2-Dichloroethene	ND	160	ND	630
1,1-Dichloroethene	ND	160	ND	630
1,2-Dichloropropane	ND	160	ND	740
cis-1,3-Dichloropropene	ND	160	ND	730
trans-1,3-Dichloropropene	ND	160	ND	730
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	160	ND	1100
1,4-Dioxane	ND	400	ND	1400
Ethanol	ND	1600	ND	3000
Ethylbenzene	240	160	1000	690
Hexachlorobutadiene	ND	160	ND	1700
n-Hexane	10000	400	36000	1400
Methylene chloride	ND	400	ND	1400
4-Methyl-2-pentanone (MIBK)	760	400	3100	1600
Methyl tert-butyl ether	ND	320	ND	1200
Styrene	ND	160	ND	680
1,1,2,2-Tetrachloroethane	ND	160	ND	1100

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TestAmerica Edison

Client Sample ID: SG1-17338-081712-MM-06

GC/MS Volatiles

Lot-Sample # H2H210443 - 006 Work Order # MV8ED1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Tetrachloroethene	ND	160	ND	1100
Toluene	300	160	1100	600
1,2,4-Trichlorobenzene	ND	160	ND	1200
1,1,1-Trichloroethane	ND	160	ND	870
1,1,2-Trichloroethane	ND	160	ND	870
Trichloroethene	ND	80	ND	430
Trichlorofluoromethane	ND	160	ND	900
1,1,2-Trichlorotrifluoroethane	ND	160	ND	1200
1,2,4-Trimethylbenzene	ND	160	ND	790
1,3,5-Trimethylbenzene	ND	160	ND	790
2,2,4-Trimethylpentane	940	400	4400	1900
Vinyl chloride	ND	160	ND	410
m-Xylene & p-Xylene	490	160	2100	690
o-Xylene	ND	160	ND	690

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

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

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

TestAmerica Edison

Client Sample ID: SG5-17338-081712-MM-07

GC/MS Volatiles

Lot-Sample # H2H210443 - 007 Work Order # MV8EF1AA Matrix.....: AIR

Date Sampled...: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/23/2012 Analysis Date...: 08/23/2012
 Prep Batch #....: 2237025
 Dilution Factor.: 10 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	3.2	0.80	10	2.6
Benzyl chloride	ND	1.6	ND	8.3
Bromodichloromethane	ND	0.80	ND	5.4
Bromoform	ND	0.80	ND	8.3
Bromomethane	ND	0.80	ND	3.1
2-Butanone (MEK)	ND	3.2	ND	9.4
tert-Butyl alcohol	ND	3.2	ND	9.7
Carbon tetrachloride	ND	0.40	ND	2.5
Chlorobenzene	ND	0.80	ND	3.7
Dibromochloromethane	ND	0.80	ND	6.8
Chloroethane	ND	0.80	ND	2.1
Chloroform	ND	0.80	ND	3.9
Chloromethane	ND	2.0	ND	4.1
Cyclohexane	ND	2.0	ND	6.9
1,2-Dibromoethane (EDB)	ND	0.80	ND	6.1
1,2-Dichlorobenzene	ND	0.80	ND	4.8
1,3-Dichlorobenzene	ND	0.80	ND	4.8
1,4-Dichlorobenzene	ND	0.80	ND	4.8
Dichlorodifluoromethane	ND	0.80	ND	4.0
1,1-Dichloroethane	ND	0.80	ND	3.2
1,2-Dichloroethane	ND	0.80	ND	3.2
cis-1,2-Dichloroethene	ND	0.80	ND	3.2
trans-1,2-Dichloroethene	ND	0.80	ND	3.2
1,1-Dichloroethene	ND	0.80	ND	3.2
1,2-Dichloropropane	ND	0.80	ND	3.7
cis-1,3-Dichloropropene	ND	0.80	ND	3.6
trans-1,3-Dichloropropene	ND	0.80	ND	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.80	ND	5.6
1,4-Dioxane	ND	2.0	ND	7.2
Ethanol	ND	8.0	ND	15
Ethylbenzene	ND	0.80	ND	3.5
Hexachlorobutadiene	ND	0.80	ND	8.5
n-Hexane	2.9	2.0	10	7.0
Methylene chloride	ND	2.0	ND	6.9
4-Methyl-2-pentanone (MIBK)	ND	2.0	ND	8.2
Methyl tert-butyl ether	ND	1.6	ND	5.8
Styrene	ND	0.80	ND	3.4
1,1,2,2-Tetrachloroethane	ND	0.80	ND	5.5

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TestAmerica Edison

Client Sample ID: SG5-17338-081712-MM-07

GC/MS Volatiles

Lot-Sample # H2H210443 - 007

Work Order # MV8EF1AA

Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Tetrachloroethene	1.7	0.80	12	5.4
Toluene	4.1	0.80	15	3.0
1,2,4-Trichlorobenzene	ND	0.80	ND	5.9
1,1,1-Trichloroethane	ND	0.80	ND	4.4
1,1,2-Trichloroethane	ND	0.80	ND	4.4
Trichloroethene	ND	0.40	ND	2.1
Trichlorofluoromethane	ND	0.80	ND	4.5
1,1,2-Trichlorotrifluoroethane	ND	0.80	ND	6.1
1,2,4-Trimethylbenzene	3.0	0.80	15	3.9
1,3,5-Trimethylbenzene	ND	0.80	ND	3.9
2,2,4-Trimethylpentane	ND	2.0	ND	9.3
Vinyl chloride	ND	0.80	ND	2.0
m-Xylene & p-Xylene	1.9	0.80	8.1	3.5
o-Xylene	1.1	0.80	4.7	3.5

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

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

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

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TestAmerica Edison

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2H230000 - 030B Work Order # MV9LQ1AA Matrix.....: AIR
 Prep Date.....: 08/17/2012 Date Received...: 08/21/2012
 Prep Batch #.....: 08/22/2012 Analysis Date...: 08/22/2012
 Dilution Factor.: 2236030
 Method.....: 1 TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	0.080	ND	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
2-Butanone (MEK)	ND	0.32	ND	0.94
tert-Butyl alcohol	ND	0.32	ND	0.97
Carbon tetrachloride	ND	0.040	ND	0.25
Chlorobenzene	ND	0.080	ND	0.37
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Chloromethane	ND	0.20	ND	0.41
Cyclohexane	ND	0.20	ND	0.69
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,3-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dichlorobenzene	ND	0.080	ND	0.48
Dichlorodifluoromethane	ND	0.080	ND	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
1,4-Dioxane	ND	0.20	ND	0.72
Ethanol	ND	0.80	ND	1.5
Ethylbenzene	ND	0.080	ND	0.35
Hexachlorobutadiene	ND	0.080	ND	0.85
n-Hexane	ND	0.20	ND	0.70
Methylene chloride	ND	0.20	ND	0.69
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Styrene	ND	0.080	ND	0.34

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TestAmerica Edison
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H2H230000 - 030B Work Order # MV9LQ1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	ND	0.080	ND	0.45
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Vinyl chloride	ND	0.080	ND	0.20
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	60 - 140

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

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

TestAmerica Edison

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2H230000 - 030C Work Order # MV9LQ1AC Matrix.....: AIR
 Prep Date.....: 08/17/2012 Date Received..: 08/21/2012
 Prep Batch #.....: 2236030 Analysis Date...: 08/22/2012
 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	5.00	4.88	16	15.6	98	70 - 130
Benzyl chloride	5.00	5.46	26	28.3	109	70 - 130
Bromodichloromethane	5.00	5.34	34	35.8	107	70 - 130
Bromoform	5.00	4.45	52	46.0	89	60 - 140
Bromomethane	5.00	5.24	19	20.4	105	70 - 130
2-Butanone (MEK)	5.00	4.43	15	13.1	89	60 - 140
tert-Butyl alcohol	5.00	6.12	15	18.5	122	60 - 140
Carbon tetrachloride	5.00	5.38	31	33.8	108	70 - 130
Chlorobenzene	5.00	5.03	23	23.1	101	70 - 130
Dibromochloromethane	5.00	5.27	43	44.9	105	70 - 130
Chloroethane	5.00	4.90	13	12.9	98	70 - 130
Chloroform	5.00	5.07	24	24.7	101	70 - 130
Chloromethane	5.00	5.13	10	10.6	103	60 - 140
Cyclohexane	5.00	4.85	17	16.7	97	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.24	38	40.2	105	70 - 130
1,2-Dichlorobenzene	5.00	5.00	30	30.1	100	70 - 130
1,3-Dichlorobenzene	5.00	5.07	30	30.5	101	70 - 130
1,4-Dichlorobenzene	5.00	5.07	30	30.5	101	70 - 130
Dichlorodifluoromethane	5.00	5.09	25	25.2	102	60 - 140
1,1-Dichloroethane	5.00	4.95	20	20.0	99	70 - 130
1,2-Dichloroethane	5.00	5.34	20	21.6	107	70 - 130
cis-1,2-Dichloroethene	5.00	4.97	20	19.7	99	70 - 130
trans-1,2-Dichloroethene	5.00	4.91	20	19.5	98	70 - 130
1,1-Dichloroethene	5.00	5.01	20	19.9	100	70 - 130
1,2-Dichloropropane	5.00	4.96	23	22.9	99	70 - 130
cis-1,3-Dichloropropene	5.00	5.22	23	23.7	104	70 - 130
trans-1,3-Dichloropropene	5.00	5.39	23	24.5	108	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	5.28	35	36.9	106	60 - 140
1,4-Dioxane	5.00	4.38	18	15.8	88	60 - 140
Ethanol	24.6	21.9	46	41.2	89	20 - 180
Ethylbenzene	5.00	5.24	22	22.8	105	70 - 130
Hexachlorobutadiene	5.00	6.29	53	67.1	126	60 - 140
n-Hexane	5.00	4.80	18	16.9	96	70 - 130
Methylene chloride	5.00	4.66	17	16.2	93	70 - 130
4-Methyl-2-pentanone (MIBK)	5.00	4.75	20	19.5	95	60 - 140
Methyl tert-butyl ether	5.00	5.15	18	18.6	103	60 - 140

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TestAmerica Edison

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample #	H2H230000 - 030C		Work Order #	MV9LQ1AC		Matrix.....:	AIR
PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS	
Styrene	5.00	5.44	21	23.2	109	70 - 130	
1,1,2,2-Tetrachloroethane	5.00	5.28	34	36.3	106	70 - 130	
Tetrachloroethene	5.00	5.00	34	33.9	100	70 - 130	
Toluene	5.00	4.98	19	18.8	100	70 - 130	
1,2,4-Trichlorobenzene	5.00	4.97	37	36.9	99	60 - 140	
1,1,1-Trichloroethane	5.00	5.31	27	29.0	106	70 - 130	
1,1,2-Trichloroethane	5.00	5.11	27	27.9	102	70 - 130	
Trichloroethene	5.00	4.87	27	26.2	97	70 - 130	
Trichlorofluoromethane	5.00	5.27	28	29.6	105	60 - 140	
1,1,2-Trichlorotrifluoroethane	5.00	4.96	38	38.0	99	70 - 130	
1,2,4-Trimethylbenzene	5.00	5.57	25	27.4	111	70 - 130	
1,3,5-Trimethylbenzene	5.00	5.12	25	25.2	102	70 - 130	
2,2,4-Trimethylpentane	5.00	4.88	23	22.8	98	70 - 130	
Vinyl chloride	5.00	5.22	13	13.3	104	70 - 130	
m-Xylene & p-Xylene	10.0	10.5	43	45.6	105	70 - 130	
o-Xylene	5.00	5.26	22	22.8	105	70 - 130	

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	60 - 140

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

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

TestAmerica Edison
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H2H240000 - 025B Work Order # MWAC21AA Matrix.....: AIR

Prep Date.....: 08/17/2012 Date Received..: 08/21/2012
Prep Date.....: 08/23/2012 Analysis Date...: 08/23/2012
Prep Batch #.....: 2237025
Dilution Factor.: 1 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	0.080	ND	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
2-Butanone (MEK)	ND	0.32	ND	0.94
tert-Butyl alcohol	ND	0.32	ND	0.97
Carbon tetrachloride	ND	0.040	ND	0.25
Chlorobenzene	ND	0.080	ND	0.37
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Chloromethane	ND	0.20	ND	0.41
Cyclohexane	ND	0.20	ND	0.69
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,3-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dichlorobenzene	ND	0.080	ND	0.48
Dichlorodifluoromethane	ND	0.080	ND	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
1,4-Dioxane	ND	0.20	ND	0.72
Ethanol	ND	0.80	ND	1.5
Ethylbenzene	ND	0.080	ND	0.35
Hexachlorobutadiene	ND	0.080	ND	0.85
n-Hexane	ND	0.20	ND	0.70
Methylene chloride	ND	0.20	ND	0.69
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Styrene	ND	0.080	ND	0.34

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TestAmerica Edison
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H2H240000 - 025B Work Order # MWAC21AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	ND	0.080	ND	0.45
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Vinyl chloride	ND	0.080	ND	0.20
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35

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

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

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

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TestAmerica Edison

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2H240000 - 025C Work Order # MWAC21AC Matrix.....: AIR

Prep Date.....: 08/17/2012 Date Received...: 08/21/2012
 Prep Date.....: 08/23/2012 Analysis Date...: 08/23/2012
 Prep Batch #.....: 2237025
 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	5.00	5.33	16	17.0	107	70 - 130
Benzyl chloride	5.00	5.58	26	28.9	112	70 - 130
Bromodichloromethane	5.00	5.71	34	38.3	114	70 - 130
Bromoform	5.00	5.18	52	53.5	104	60 - 140
Bromomethane	5.00	5.12	19	19.9	102	70 - 130
2-Butanone (MEK)	5.00	4.06	15	12.0	81	60 - 140
tert-Butyl alcohol	5.00	6.07	15	18.4	121	60 - 140
Carbon tetrachloride	5.00	5.95	31	37.4	119	70 - 130
Chlorobenzene	5.00	5.30	23	24.4	106	70 - 130
Dibromochloromethane	5.00	5.66	43	48.3	113	70 - 130
Chloroethane	5.00	5.05	13	13.3	101	70 - 130
Chloroform	5.00	5.53	24	27.0	111	70 - 130
Chloromethane	5.00	6.20	10	12.8	124	60 - 140
Cyclohexane	5.00	5.54	17	19.1	111	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.42	38	41.7	108	70 - 130
1,2-Dichlorobenzene	5.00	5.28	30	31.8	106	70 - 130
1,3-Dichlorobenzene	5.00	5.36	30	32.2	107	70 - 130
1,4-Dichlorobenzene	5.00	5.39	30	32.4	108	70 - 130
Dichlorodifluoromethane	5.00	5.94	25	29.4	119	60 - 140
1,1-Dichloroethane	5.00	5.54	20	22.4	111	70 - 130
1,2-Dichloroethane	5.00	5.50	20	22.2	110	70 - 130
cis-1,2-Dichloroethene	5.00	5.50	20	21.8	110	70 - 130
trans-1,2-Dichloroethene	5.00	5.49	20	21.8	110	70 - 130
1,1-Dichloroethene	5.00	5.49	20	21.8	110	70 - 130
1,2-Dichloropropane	5.00	5.17	23	23.9	103	70 - 130
cis-1,3-Dichloropropene	5.00	5.51	23	25.0	110	70 - 130
trans-1,3-Dichloropropene	5.00	5.64	23	25.6	113	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	5.78	35	40.4	116	60 - 140
1,4-Dioxane	5.00	5.05	18	18.2	101	60 - 140
Ethanol	24.6	22.2	46	41.8	90	20 - 180
Ethylbenzene	5.00	5.31	22	23.1	106	70 - 130
Hexachlorobutadiene	5.00	5.00	53	53.3	100	60 - 140
n-Hexane	5.00	5.56	18	19.6	111	70 - 130
Methylene chloride	5.00	4.99	17	17.3	100	70 - 130
4-Methyl-2-pentanone (MIBK)	5.00	5.46	20	22.4	109	60 - 140
Methyl tert-butyl ether	5.00	4.96	18	17.9	99	60 - 140

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TestAmerica Edison

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample #	H2H240000 - 025C	Work Order #	MWAC21AC	Matrix.....:	AIR	
PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Styrene	5.00	5.62	21	23.9	112	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.20	34	35.7	104	70 - 130
Tetrachloroethene	5.00	5.44	34	36.9	109	70 - 130
Toluene	5.00	5.13	19	19.3	103	70 - 130
1,2,4-Trichlorobenzene	5.00	5.63	37	41.8	113	60 - 140
1,1,1-Trichloroethane	5.00	5.68	27	31.0	114	70 - 130
1,1,2-Trichloroethane	5.00	5.24	27	28.6	105	70 - 130
Trichloroethene	5.00	5.63	27	30.2	113	70 - 130
Trichlorofluoromethane	5.00	5.59	28	31.4	112	60 - 140
1,1,2-Trichlorotrifluoroethane	5.00	5.42	38	41.6	108	70 - 130
1,2,4-Trimethylbenzene	5.00	5.23	25	25.7	105	70 - 130
1,3,5-Trimethylbenzene	5.00	5.30	25	26.0	106	70 - 130
2,2,4-Trimethylpentane	5.00	5.57	23	26.0	111	70 - 130
Vinyl chloride	5.00	5.46	13	14.0	109	70 - 130
m-Xylene & p-Xylene	10.0	10.5	43	45.6	105	70 - 130
o-Xylene	5.00	5.24	22	22.8	105	70 - 130
SURROGATE		PERCENT RECOVERY			LABORATORY CONTROL LIMITS (%)	
4-Bromofluorobenzene		101			60 - 140	

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

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

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TestAmerica Edison

Client Sample ID: SGA-17338-081712-MM-01

GC Volatiles

Lot-Sample #....: H2H210443-001 Work Order #....: MV8D11AE Matrix.....: AIR
Date Sampled....: 08/17/12 Date Received...: 08/21/12
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 1.93 Method.....: ASTM D1946 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Helium	ND	0.19	%

TestAmerica Edison

Client Sample ID: SG4-17338-081712-MM-02

GC Volatiles

Lot-Sample #....: H2H210443-002 Work Order #....: MV8D41AE Matrix.....: AIR
Date Sampled....: 08/17/12 Date Received...: 08/21/12
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 3.05 Method.....: ASTM D1946 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Helium	ND	0.30	%

TestAmerica Edison

Client Sample ID: SG3-17338-081712-MM-03

GC Volatiles

Lot-Sample #....: H2H210443-003 Work Order #....: MV8D61AE Matrix.....: AIR
Date Sampled....: 08/17/12 Date Received...: 08/21/12
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 2.77 Method.....: ASTM D1946 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Helium	ND	0.28	%

TestAmerica Edison

Client Sample ID: SG2-17338-081712-MM-04

GC Volatiles

Lot-Sample #....: H2H210443-004 Work Order #....: MV8D81AE Matrix.....: AIR
Date Sampled....: 08/17/12 Date Received...: 08/21/12
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 2.37 Method.....: ASTM D1946 MOD

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Helium	ND	0.24	%

TestAmerica Edison

Client Sample ID: SG7-17338-081712-MM-05

GC Volatiles

Lot-Sample #....: H2H210443-005 Work Order #....: MV8EC1AE Matrix.....: AIR
Date Sampled....: 08/17/12 Date Received...: 08/21/12
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 2.21 Method.....: ASTM D1946 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Helium	ND	0.22	%

TestAmerica Edison

Client Sample ID: SG1-17338-081712-MM-06

GC Volatiles

Lot-Sample #....: H2H210443-006 Work Order #....: MV8ED1AE Matrix.....: AIR
Date Sampled....: 08/17/12 Date Received...: 08/21/12
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 2.4 Method.....: ASTM D1946 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Helium	ND	0.24	%

TestAmerica Edison

Client Sample ID: SG5-17338-081712-MM-07

GC Volatiles

Lot-Sample #....: H2H210443-007 Work Order #....: MV8EF1AE Matrix.....: AIR
Date Sampled....: 08/17/12 Date Received...: 08/21/12
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 2.64 Method.....: ASTM D1946 MOD

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Helium	ND	0.26	%

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: H2H210443
MB Lot-Sample #: H2H230000-071

Work Order #....: MV9Q61AA

Matrix.....: AIR

Analysis Date...: 08/23/12

Prep Date.....: 08/23/12

Prep Batch #....: 2236071

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Helium	ND	0.10	%	ASTM D1946 MOD

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: H2H210443 Work Order #....: MV9Q61AC Matrix.....: AIR
LCS Lot-Sample#: H2H230000-071
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>
Helium	102	(75 - 125)	ASTM D1946 MOD

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: H2H210443 Work Order #....: MV9Q61AC Matrix.....: AIR
LCS Lot-Sample#: H2H230000-071
Prep Date.....: 08/23/12 Analysis Date...: 08/23/12
Prep Batch #....: 2236071
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Helium	5.00	5.08	%	102	ASTM D1946 MO

NOTE(S) :

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

Bold print denotes control parameters

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

Canister Samples Chain of Custody Record

H2H210443

TestAmerica

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

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information				Project Manager: <i>Gregg Carr</i> / <i>Canis 800-2143</i>				Sampled By: <i>MARTIN MYLETT</i>				1 of 2 COCs										
Company: <i>CRA</i>				Phone: <i>777-76-856-2143</i>																		
Address: <i>835 DELAWARE AVE</i>				Site Contact:																		
City/State/Zip: <i>BUFFALO, NY</i>				TAL Contact:																		
Phone: <i>76-856-2143</i>																						
FAX:																						
Project Name: <i>CAM WILMINGTON</i>				Analysis Turnaround Time																		
Site/location: <i>WILMINGTON, DE</i>				Standard (Specify)																		
PO #				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	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SGA-17338-081712-MM-01				8/17/12	1100	1550	-29.1	0	K522	6125	X											
SG4-17338-081712-MM-02					1230	1257	-29.1	-4	RR70	1537	X											
SG3-17338-081712-MM-03					1315	1345	-29.1	-4	RR70	1501	X											
SG2-17338-081712-MM-04					1410	1438	-29.1	-6	RR89	1340N	X											
SG7-17338-081712-MM-05					1415	1444	-29.1	-6	RR89	6666	X											
SG1-17338-081712-MM-06					1430	1457	-29.2	152.5	RR43	93048	X											
Sampled by: <i>MARTIN MYLETT</i> <i>RICH BURNS</i>				Interior		Ambient																
				Start																		
				Stop																		
SAMPLE - 06 KNO HIGH PID READINGS				Interior		Ambient																
				Start																		
				Stop																		
Special Instructions/QC Requirements & Comments:																						

Canisters Shipped by:	<i>Gregg Carr</i>	Date/Time:	<i>8/20/12 10:15</i>	Canisters Received by:	
Samples Relinquished by:	<i>Gregg Carr</i>	Date/Time:	<i>8/20/12 10:15</i>	Received by:	
Relinquished by:	<i>Gregg Carr</i>	Date/Time:	<i>8/20/12 10:15</i>	Relinquished by:	<i>Gregg Carr</i>
Relinquished by:	<i>Gregg Carr</i>	Date/Time:	<i>8/20/12 10:15</i>	Relinquished by:	<i>Gregg Carr</i>

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

Canister Samples Chain of Custody Record

H2H210443

TestAmerica

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

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information				Project Manager: <i>Greg Carey / Chris Brown</i>				Sampled By: <i>MADEW MYER</i>				2 of 2 COCs											
Company: <i>CRA</i>				Phone: <i>760-856-2442</i>				Site Contact: <i>RICH BURNS</i>															
Address: <i>283 DEERWING AVENUE</i>				City/State/Zip: <i>ROCKFORD, IL 61080</i>				TAL Contact:															
Phone: <i>760-856-2442</i>				FAX:																			
Project Name: <i>GM WILMINGTON</i>				Analysis Turnaround Time																			
Site/location: <i>WILMINGTON, DE</i>				Standard (Specify)																			
PO # <i>17338</i>				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	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	
<i>SGS-17338-081712-MM-07</i>				<i>8/17/12</i>	<i>1507:35</i>	<i>1507:55</i>	<i>-29.2</i>	<i>-7.5</i>	<i>R2201</i>	<i>6605</i>	<i>X</i>												
Sampled by: <i>MADEW MYER</i> <i>RICH BURNS</i>				Interior		Ambient		Temperature (Fahrenheit)		<i>2 Boxes Rec'd @ Ambient Temp with custody seals intact 8/21/12</i> <i>2 Boxes Del x # 7957 & 3145631M</i>													
				Start	Stop																		
				Pressure (inches of Hg)																			
				Interior		Ambient																	
				Start	Stop																		

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
<i>MADEW MYER</i>	<i>8/20/12 10:05</i>	<i>MADEW MYER</i>
Samples Requested by:	Date/Time:	Received by:
<i>MADEW MYER</i>	<i>8/20/12 11:12</i>	<i>MADEW MYER</i>
Relinquished by:	Date/Time:	Received by:
<i>MADEW MYER</i>	<i>8/21/12 10:00</i>	<i>MADEW MYER</i>

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H2H210443

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, VOST: 10°C)	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____ ☐ 2c Cooling initiated for recently collected samples, ice present. ☐ 3a Sample preservative =	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓		
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 ☐ 10a Holding time expired ☐ Incomplete information	
10. Were samples received within holding time?	✓			If no, was pH adjusted to pH 7 - 9 with sulfuric acid?	
11. For rad samples, was sample activity info. provided?			✓		
12. For 1613B water samples is pH<9?			✓		
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?	✓			☐ 19a Other	

Quote #: 90779 PM Instructions: _____

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Date: 8/21/12

Sample Receiving Associate: [Signature]

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: H2H210443

Initial Can Pressure					Subsequent Dilutions													
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	S	Pbarr (in)	Initial Pres. Pf (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second InCan Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
X 8/21/12	MA	28.9	MV8D1	6125 ✓	-0.5	-												9973
			MV8D4	1537 ✓	-7.4	+1.4												10017-
			MV8D6	S1501 ✓	-5.3	-												10019
			MV8D8	1340N ✓	-7.7	+1.5	DOF 8-22-12	5	28.9	DOF 8-22-12 -7.0	DOF 8-22-12 +0.9				6852	2	+0.5 DOF 8-22-12 +1.52	10017-
			MV8EC	6666 ✓	-6.7	-	DOF	1	1	-7.0	+0.9				6120	5	+1.52	10010
			MV8ED	93048 ✓	-5.4	-	DOF	4	4	-5.7	+0.5				04742	2	+0.5	10018
			MV8EF	6605 ✓	-6.7	-												10020

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: H2H210443

He Analysis

Initial Can Pressure										Subsequent Dilutions								
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First In-can Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third In-can Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
X 8/21/12	MA	28.9	MV8D1	6125 ✓	-0.5	-	8/23/12	X1	28.99	-3.8	+9.7							9973
			MV8D4	1537 ✓	-7.4	+1.4		X1		-2.5	+2.6							10017
			MV8D6	S1501 ✓	-5.3	-		X1	28.99	-10.0	+11.6							10019
			MV8D8	1340N ✓	-7.7	+1.5	8-22-12	S	28.99	-7.0	+8.1				6352	2	+0.5	10017
			MV8EC	6666 ✓	-6.7	-				-7.0	+0.9	+8.2			6120	5	+1.52	10010
			MV8ED	93048 ✓	-5.4	-				-5.7	+0.5	+12.3			04742	2	+0.5	10018
			MV8EF	6605 ✓	-6.7	-	8/23/12	X	28.99	-10.2	+10.1							10020

Page

* press ↑ org. cans
for He analysis
dp = 28.99 to 8/23/12

Shipping and Receiving Documents

TAL Knoxville
 5515 Middlebrook Pike
 Knoxville, TN 37921
 phone 865-291-3000 fax 865-584-4315

H2H210443
Canister Samples Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

08/29/2012

Client Contact Information		Project Manager: <i>ALLEG CARRILLO/ELIAS BERN</i>		Sampled By: <i>MALIN MUYST</i>		1 of 2 COCS	
Company: <i>CRA</i>		Phone: <i>297-76-8358-2142</i>		Site Contact:			
Address: <i>835 DECAWANE AVE</i>		TAL Contact:					
City/State/Zip: <i>BUFFALO, NY</i>							
Phone: <i>716-816-2142</i>							
FAX:							
Project Name: <i>GM WILMINGTON</i>		Analysis Turnaround Time					
Site location: <i>WILMINGTON, DE</i>		Standard (Specify)					
PO #		Rush (Specify) <i>3001</i>					

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	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SGA-17338-081712-MM-01	8/17/12	1100	1550	-29.1	0	K522	6125	X											-1
SG4-17338-081712-MM-02		1230	1257	-29.1	-4	R272	1537	X											-2
SG3-17338-081712-MM-03		1315	1345	-29.1	-4	R270	1501	X											-3
SG2-17338-081712-MM-04		1410	1438	-29.1	-6	R284	1310N	X											-4
SG7-17338-081712-MM-05		1445	1444	-29.1	-6	R284	1666b	X											-5
SG1-17338-081712-MM-06		1430	1457	-29.2	152.5	R243	93048	X											-6

Sampled by: <i>MALIN MUYST</i>		Temperature (Fahrenheit)	
Start	Interior	Ambient	
Stop			

Sample - 06 RAD HIGH PID		Pressure (Inches of Hg)	
Start	Interior	Ambient	
Stop			

Special Instructions/OC Requirements & Comments:

3-Day RUSH

TAL Knoxville

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

H2H210443

Canister Samples Chain of Custody Record

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

460-43815
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

08/29/2012

Client Contact Information

Company: CEN
Address: 2830 DEERWOOD AVENUE
City/State/Zip: ALBANY NY
Phone: 518-836-2112
FAX: _____

Project Manager: Gabe Gabel/Chris Gabel

Phone: 761-856-2442
Site Contact: _____
TAL Contact: _____

Sampled By: Michael Myler

Rich Evans

2 of 2 COCS

Project Name: Ch. 1000000000

Site/location: Wilmington DE
PO # 17338

Analysis Turnaround Time

Standard (Specify) _____
Rush (Specify) 3000

Sample Identification

SCS-17338-081712-MM-07

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	TO-14A	EPA 3C	EPA 26C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
8/17/12	1507	1535	-29.3	-7.5	EP201	6605	X											-17

Sampled by:

Michael Myler
Rich Evans

Temperature (Fahrenheit)

	Interior	Ambient	Pressure (inches of Hg)	Notes
Start				2 Boxes Read @ Ambient Temp with custody seals intact 8/21/12
Stop				2 Boxes Read X # 7957 & 3145 & 631 m

Special Instructions/AC Requirements & Comments:

3 Day RUSH

Trans 1 Place in Clear Bag 17 boxes

Canisters Shipped by:

Michael Myler

Date Time

8/29/12 1645

Canisters Received by:

Michael Myler

Samples Relinquished by:

Michael Myler

Date Time

8/20/12 1112

Received by:

Michael Myler

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H2H210443

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, VOST: 10°C)	☒			☐ 2a Temp Blank = ☐ 2b Cooler Temp = ☐ 2c Cooling initiated for recently collected samples, ice present.	
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 1613B water samples is pH < 9?				☒ If no, was pH adjusted to pH 7-9 with sulfuric acid?	
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?	☒			☐ 19a Other	
Quote #: <u>90779</u>				PM Instructions:	

Sample Receiving Associate: [Signature]

Date: 8/21/12

QA026R23.doc, 022812

Lysy, Susan

From: Capaci, Jamie
Sent: Thursday, August 23, 2012 11:53 AM
To: Edison - Sample Login
Subject: Please login - Lot H2H210443

Importance: High

Attachments: hallway_20120822_175943.pdf; hallway_20120822_175943.pdf

Hi Login,
Please login the following samples. They were sent to TA Knoxville. Please use project # 46003203. Thanks.



hallway_201
2_175943.pdf

From: Wasmund, Terry
Sent: Wednesday, August 22, 2012 6:45 PM
To: Capaci, Jamie
Subject: RUSH - Lot H2H210443
Importance: High

Hi, Jamie,

Attached is the COC for the GM Wilmington TO-15 samples... I did not know the client was expecting a 3-BD TAT until I was reviewing lot folders this evening. I'm checking with the lab, but am not certain we can accommodate the rush TAT as the lab is very busy right now.



hallway_201
2_175943.pdf

Please send me a work share agreement and job number for these...

Also, if we can do the rush, have surcharges already been worked out with the client?

Thanks,

Terry

TERRY WALKER WASMUND
Project Manager

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43815-1

Login Number: 43815

List Source: TestAmerica Edison

List Number: 1

Creator: Lysy, Susan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	Direct shipment to TA Knoxville
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.