



**CHAIN-OF-CUSTODY RECORD**

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Page 1 of 1

Project Manager: Michael Parry  
 Collected by: (Print and Sign) Michael Parry  
 Company: MO DNR Email: Michael.parry@dnr.wa.gov  
 Address: PO Box 176 City: Le State: MO Zip: 65162  
 Phone: 573 526-3918 Fax: \_\_\_\_\_

Project Info:  
 P.O. # 3ESP400007  
 Project # \_\_\_\_\_  
 Project Name: Bridgeport LF  
 Turn Around Time:  Normal  Rush  
 Lab Use Only: Pressurized by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Pressurization Gas: \_\_\_\_\_ N<sub>2</sub> He \_\_\_\_\_

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt (psf)
01A	D1 (141A16)	13860	8/22/14	0930 1530	T0-15	-30	-6.5	
02A	D2 (141A17)	1877	8/22/14	0945 1435	T0-15	-30	-6	
03A	U1 (141A18)	34414	8/22/14	0956 1441	T0-15	-21.5	-6	
04A	U2 (141A19)	35290	8/22/14	1003 1447	T0-15	-30	-7	
Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/25/14 1305</u> Received by: (signature) <u>Reed McCall</u> Date/Time <u>8/24/14 0940</u> Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____ Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____								
Notes: <u>Skipped via UPS. Tracking # 1Z61228803A5364912</u>								
Lab Use Only	Shipper Name: <u>UPS</u>	Air Bill #	Temp. (°C): <u>NA</u>	Condition: <u>Good</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	Work Order #	<u>1403512</u>	

9/12/2014  
Mr. Dennis Schroeder  
Missouri Dept. of Natural Resources  
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton LF  
Project #:  
Workorder #: 1408512

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 8/29/2014 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker  
Project Manager

**WORK ORDER #: 1408512**

Work Order Summary

<b>CLIENT:</b>	Mr. Dennis Schroeder Missouri Dept. of Natural Resources 2710 West Main Jefferson City, MO 65109	<b>BILL TO:</b>	Accounts Payable Missouri Dept. of Natural Resources P.O Box 176 Jefferson City, MO 65102
<b>PHONE:</b>	573-526-4428	<b>P.O. #</b>	3ESP4000007
<b>FAX:</b>	573-526-3350	<b>PROJECT #</b>	Bridgeton LF
<b>DATE RECEIVED:</b>	08/29/2014	<b>CONTACT:</b>	Brian Whittaker
<b>DATE COMPLETED:</b>	09/12/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (1411416)	Modified TO-15	7.1 "Hg	5 psi
02A	D2 (1411417)	Modified TO-15	6.9 "Hg	4.9 psi
03A	U1 (1411418)	Modified TO-15	6.9 "Hg	5.1 psi
04A	U2 (1411419)	Modified TO-15	7.6 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 09/12/14

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,  
 TX NELAP - T104704434-13-6, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935  
 Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)  
 Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563  
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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Missouri Dept. of Natural Resources**  
**Workorder# 1408512**

Four 6 Liter Summa Canister (100% Certified) samples were received on August 29, 2014. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	$\leq 30\%$ RSD with 4 compounds allowed out to $< 40\%$ RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

### **Receiving Notes**

There were no receiving discrepancies.

### **Analytical Notes**

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in CCV analyses have not been flagged.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector  
r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds**  
**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

**Client Sample ID: D1 (1411416)**

**Lab ID#: 1408512-01A**

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Freon 12	0.18	0.50	0.87	2.5
Freon 11	0.18	0.22	0.99	1.2
Ethanol	0.88	6.9 J	1.6	13 J
Acetone	0.88	11	2.1	26
2-Propanol	0.88	0.91	2.2	2.2
Hexane	0.18	0.38	0.62	1.3
Toluene	0.18	0.40	0.66	1.5

**Client Sample ID: D2 (1411417)**

**Lab ID#: 1408512-02A**

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Freon 12	0.17	0.47	0.86	2.3
Chloromethane	0.86	0.88	1.8	1.8
Freon 11	0.17	0.22	0.97	1.2
Ethanol	0.86	4.7 J	1.6	8.9 J
Acetone	0.86	6.0	2.0	14
Hexane	0.17	0.17 J	0.61	0.59 J
Toluene	0.17	0.23	0.65	0.86

**Client Sample ID: U1 (1411418)**

**Lab ID#: 1408512-03A**

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Freon 12	0.18	0.49	0.86	2.4
Freon 11	0.18	0.22	0.98	1.2
Ethanol	0.88	4.3 J	1.6	8.1 J
Acetone	0.88	8.2	2.1	19
2-Butanone (Methyl Ethyl Ketone)	0.88	1.4	2.6	4.0

**Client Sample ID: U2 (1411419)**

**Lab ID#: 1408512-04A**

**Summary of Detected Compounds**  
**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

**Client Sample ID: U2 (1411419)**

**Lab ID#: 1408512-04A**

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (ug/m3)</b>	<b>Amount (ug/m3)</b>
Freon 12	0.18	0.48	0.88	2.4
Freon 11	0.18	0.22	1.0	1.2
Ethanol	0.90	8.8 J	1.7	16 J
Acetone	0.90	10	2.1	24
2-Propanol	0.90	1.2	2.2	3.1
Hexane	0.18	1.8	0.63	6.3
2-Butanone (Methyl Ethyl Ketone)	0.90	1.6	2.6	4.6
cis-1,2-Dichloroethene	0.18	0.29	0.71	1.1
Benzene	0.18	0.18 J	0.57	0.56 J
1,2-Dichloroethane	0.18	0.30	0.72	1.2
Heptane	0.18	0.46	0.73	1.9
Toluene	0.18	1.2	0.67	4.7
Tetrachloroethene	0.18	0.22	1.2	1.5
m,p-Xylene	0.18	0.22	0.78	0.96



Air Toxics

Client Sample ID: D1 (1411416)

Lab ID#: 1408512-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091111	Date of Collection:	8/22/14 2:30:00 PM
Dil. Factor:	1.76	Date of Analysis:	9/11/14 03:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.50	0.87	2.5
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.88	Not Detected	1.8	Not Detected
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.18	0.22	0.99	1.2
Ethanol	0.88	6.9 J	1.6	13 J
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	11	2.1	26
2-Propanol	0.88	0.91	2.2	2.2
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.8	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Hexane	0.18	0.38	0.62	1.3
1,1-Dichloroethane	0.18	Not Detected	0.71	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.86	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Benzene	0.18	Not Detected	0.56	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.71	Not Detected
Heptane	0.18	Not Detected	0.72	Not Detected
Trichloroethene	0.18	Not Detected	0.94	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	0.40	0.66	1.5
trans-1,3-Dichloropropene	0.18	Not Detected	0.80	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.96	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected





Client Sample ID: D1 (1411416)

Lab ID#: 1408512-01A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	v091111	Date of Collection:	8/22/14 2:30:00 PM
Dil. Factor:	1.76	Date of Analysis:	9/11/14 03:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.81	Not Detected
Ethyl Benzene	0.18	Not Detected	0.76	Not Detected
m,p-Xylene	0.18	Not Detected	0.76	Not Detected
o-Xylene	0.18	Not Detected	0.76	Not Detected
Styrene	0.18	Not Detected	0.75	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.91	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.4	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: D2 (1411417)

Lab ID#: 1408512-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091112	Date of Collection:	8/22/14 2:35:00 PM
Dil. Factor:	1.73	Date of Analysis:	9/11/14 04:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.47	0.86	2.3
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.86	0.88	1.8	1.8
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.86	Not Detected	3.4	Not Detected
Chloroethane	0.86	Not Detected	2.3	Not Detected
Freon 11	0.17	0.22	0.97	1.2
Ethanol	0.86	4.7 J	1.6	8.9 J
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	6.0	2.0	14
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Hexane	0.17	0.17 J	0.61	0.59 J
1,1-Dichloroethane	0.17	Not Detected	0.70	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.6	Not Detected
Chloroform	0.17	Not Detected	0.84	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Cyclohexane	0.17	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.17	Not Detected	0.55	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
Heptane	0.17	Not Detected	0.71	Not Detected
Trichloroethene	0.17	Not Detected	0.93	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.80	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.71	Not Detected
Toluene	0.17	0.23	0.65	0.86
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.94	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected



Client Sample ID: D2 (1411417)

Lab ID#: 1408512-02A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	v091112	Date of Collection:	8/22/14 2:35:00 PM
Dil. Factor:	1.73	Date of Analysis:	9/11/14 04:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.80	Not Detected
Ethyl Benzene	0.17	Not Detected	0.75	Not Detected
m,p-Xylene	0.17	Not Detected	0.75	Not Detected
o-Xylene	0.17	Not Detected	0.75	Not Detected
Styrene	0.17	Not Detected	0.74	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.85	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.85	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.85	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.85	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.85	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.4	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.2	Not Detected

J = Estimated value due to bias in the CCV.

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: U1 (1411418)

Lab ID#: 1408512-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091113	Date of Collection:	8/22/14 2:41:00 PM
Dil. Factor:	1.75	Date of Analysis:	9/11/14 05:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.49	0.86	2.4
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.88	Not Detected	1.8	Not Detected
Vinyl Chloride	0.18	Not Detected	0.45	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.18	0.22	0.98	1.2
Ethanol	0.88	4.3 J	1.6	8.1 J
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Acetone	0.88	8.2	2.1	19
2-Propanol	0.88	Not Detected	2.2	Not Detected
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Hexane	0.18	Not Detected	0.62	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.71	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	1.4	2.6	4.0
cis-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.95	Not Detected
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Benzene	0.18	Not Detected	0.56	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.71	Not Detected
Heptane	0.18	Not Detected	0.72	Not Detected
Trichloroethene	0.18	Not Detected	0.94	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.95	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected



Client Sample ID: U1 (1411418)

Lab ID#: 1408512-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091113	Date of Collection:	8/22/14 2:41:00 PM
Dil. Factor:	1.75	Date of Analysis:	9/11/14 05:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.3	Not Detected
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Ethyl Benzene	0.18	Not Detected	0.76	Not Detected
m,p-Xylene	0.18	Not Detected	0.76	Not Detected
o-Xylene	0.18	Not Detected	0.76	Not Detected
Styrene	0.18	Not Detected	0.74	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.3	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: U2 (1411419)

Lab ID#: 1408512-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091114	Date of Collection:	8/22/14 2:47:00 PM
Dil. Factor:	1.79	Date of Analysis:	9/11/14 07:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.48	0.88	2.4
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.90	Not Detected	1.8	Not Detected
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.18	0.22	1.0	1.2
Ethanol	0.90	8.8 J	1.7	16 J
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Acetone	0.90	10	2.1	24
2-Propanol	0.90	1.2	2.2	3.1
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Hexane	0.18	1.8	0.63	6.3
1,1-Dichloroethane	0.18	Not Detected	0.72	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.6	2.6	4.6
cis-1,2-Dichloroethene	0.18	0.29	0.71	1.1
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.87	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Cyclohexane	0.18	Not Detected	0.62	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Benzene	0.18	0.18 J	0.57	0.56 J
1,2-Dichloroethane	0.18	0.30	0.72	1.2
Heptane	0.18	0.46	0.73	1.9
Trichloroethene	0.18	Not Detected	0.96	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.73	Not Detected
Toluene	0.18	1.2	0.67	4.7
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Tetrachloroethene	0.18	0.22	1.2	1.5
2-Hexanone	0.90	Not Detected	3.7	Not Detected

Client Sample ID: U2 (1411419)

Lab ID#: 1408512-04A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

File Name:	v091114	Date of Collection:	8/22/14 2:47:00 PM
Dil. Factor:	1.79	Date of Analysis:	9/11/14 07:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Ethyl Benzene	0.18	Not Detected	0.78	Not Detected
m,p-Xylene	0.18	0.22	0.78	0.96
o-Xylene	0.18	Not Detected	0.78	Not Detected
Styrene	0.18	Not Detected	0.76	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.88	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.5	Not Detected

J = Estimated value due to bias in the CCV.

J = Estimated value.

**Container Type: 6 Liter Summa Canister (100% Certified)**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1408512-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091107	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/11/14 11:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected





Client Sample ID: Lab Blank

Lab ID#: 1408512-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091107	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/11/14 11:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	89	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1408512-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/11/14 07:13 AM

Compound	%Recovery
Freon 12	99
Freon 114	97
Chloromethane	118
Vinyl Chloride	108
1,3-Butadiene	117
Bromomethane	104
Chloroethane	106
Freon 11	99
Ethanol	139 Q
Freon 113	95
1,1-Dichloroethene	99
Acetone	103
2-Propanol	123
Carbon Disulfide	102
3-Chloropropene	113
Methylene Chloride	98
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	102
Hexane	108
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	101
Tetrahydrofuran	124
Chloroform	100
1,1,1-Trichloroethane	98
Cyclohexane	101
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	112
Benzene	91
1,2-Dichloroethane	94
Heptane	103
Trichloroethene	96
1,2-Dichloropropane	98
1,4-Dioxane	96
Bromodichloromethane	97
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	119
Toluene	92
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	93
Tetrachloroethene	93
2-Hexanone	105



Client Sample ID: CCV

Lab ID#: 1408512-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/11/14 07:13 AM

Compound	%Recovery
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	98
Chlorobenzene	92
Ethyl Benzene	96
m,p-Xylene	95
o-Xylene	96
Styrene	91
Bromoform	99
Cumene	95
1,1,2,2-Tetrachloroethane	95
Propylbenzene	96
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	78
Hexachlorobutadiene	76

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1408512-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/11/14 07:59 AM

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	99	70-130
Chloromethane	119	70-130
Vinyl Chloride	111	70-130
1,3-Butadiene	119	70-130
Bromomethane	108	70-130
Chloroethane	109	70-130
Freon 11	101	70-130
Ethanol	145 Q	70-130
Freon 113	112	70-130
1,1-Dichloroethene	117	70-130
Acetone	108	70-130
2-Propanol	128	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	113	70-130
Methylene Chloride	111	70-130
Methyl tert-butyl ether	105	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	113	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	116	70-130
cis-1,2-Dichloroethene	117	70-130
Tetrahydrofuran	127	70-130
Chloroform	103	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	106	70-130
Carbon Tetrachloride	69 Q	70-130
2,2,4-Trimethylpentane	111	70-130
Benzene	98	70-130
1,2-Dichloroethane	100	70-130
Heptane	109	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	108	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	136 Q	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	97	70-130
2-Hexanone	122	70-130

Client Sample ID: LCS

Lab ID#: 1408512-07A

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

<b>File Name:</b>	<b>v091103</b>	<b>Date of Collection: NA</b>
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 9/11/14 07:59 AM</b>

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	97	70-130
o-Xylene	96	70-130
Styrene	95	70-130
Bromoform	99	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	101	70-130
4-Ethyltoluene	86	70-130
1,3,5-Trimethylbenzene	99	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	89	70-130
1,4-Dichlorobenzene	84	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	88	70-130
1,2,4-Trichlorobenzene	80	70-130
Hexachlorobutadiene	81	70-130

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1408512-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v091104	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/11/14 08:39 AM

Compound	%Recovery	Method Limits
Freon 12	101	70-130
Freon 114	100	70-130
Chloromethane	119	70-130
Vinyl Chloride	111	70-130
1,3-Butadiene	119	70-130
Bromomethane	111	70-130
Chloroethane	110	70-130
Freon 11	102	70-130
Ethanol	147 Q	70-130
Freon 113	111	70-130
1,1-Dichloroethene	118	70-130
Acetone	107	70-130
2-Propanol	129	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	112	70-130
Methylene Chloride	111	70-130
Methyl tert-butyl ether	106	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	114	70-130
1,1-Dichloroethane	111	70-130
2-Butanone (Methyl Ethyl Ketone)	114	70-130
cis-1,2-Dichloroethene	118	70-130
Tetrahydrofuran	129	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	70	70-130
2,2,4-Trimethylpentane	114	70-130
Benzene	98	70-130
1,2-Dichloroethane	98	70-130
Heptane	110	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	106	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	134 Q	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	93	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	97	70-130
2-Hexanone	124	70-130

Client Sample ID: LCSD

Lab ID#: 1408512-07AA

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

<b>File Name:</b>	<b>v091104</b>	<b>Date of Collection: NA</b>
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 9/11/14 08:39 AM</b>

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	103	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	98	70-130
o-Xylene	98	70-130
Styrene	98	70-130
Bromoform	97	70-130
Cumene	103	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	102	70-130
4-Ethyltoluene	87	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3-Dichlorobenzene	92	70-130
1,4-Dichlorobenzene	85	70-130
alpha-Chlorotoluene	103	70-130
1,2-Dichlorobenzene	89	70-130
1,2,4-Trichlorobenzene	80	70-130
Hexachlorobutadiene	82	70-130

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130