



Air Toxics

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Page 1 of 1

Project Manager Michael Parris

Collected by: (Print and Sign) Cedric Carison

Company MO DUE Email Michael.parris@dhr.mo.gov

Address PO Box 176 City Jefferson City State MO Zip 65102

Phone \_\_\_\_\_ Fax \_\_\_\_\_

<b>Project Info:</b>		<b>Turn Around Time:</b>		<b>Lab Use Only</b>	
P.O. #	<u>9ESP400007</u>	<input checked="" type="checkbox"/> Normal	Pressurized by:	Date:	
Project #		<input type="checkbox"/> Rush	Pressurization Gas:		
Project Name	<u>Bridgeton LF</u>				
		specify		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 Final (psi)
O1A	D1 (1411589)	14882	8/28/14	103-1415	TO-15	-30	-10.5	
D2A	D2 (1411590)	1555	8/28/14	1023-1434	TO-15	-24.5	-7.5	
D3A	U1 (1411591)	4244	8/28/14	1037-1445	TO-15	-30	-7.5	
D4A	U2 (1411592)	33961	8/28/14	1044-1456	TO-15	-30	-9.5	

Relinquished by: (signature) <u>[Signature]</u>	Date/Time <u>8/28/14 1400</u>	Received by: (signature) <u>[Signature]</u>	Date/Time <u>8/28/14 1400</u>	<b>Notes:</b> Shipped via UPS. Tracking # 1Z6727886345428620
Relinquished by: (signature) <u>[Signature]</u>	Date/Time <u>9/2/14 1240</u>	Received by: (signature) <u>[Signature]</u>	Date/Time <u>9/8/14 1105</u>	
Relinquished by: (signature) _____	Date/Time _____	Received by: (signature) _____	Date/Time _____	

Lab Use Only	Shipper Name <u>cds</u>	Air Bill #	Temp (°C) <u>NA</u>	Condition <u>Good</u>	Custody Seals Intact? <u>Yes</u> <input type="checkbox"/> No <input type="checkbox"/> None <input type="checkbox"/>	Work Order # <u>1A09095</u>
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9/18/2014  
Mr. Dennis Schroeder  
Missouri Dept. of Natural Resources  
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton  
Project #:  
Workorder #: 1409095

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 9/8/2014 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 #: 1409095**

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
<b>DATE RECEIVED:</b>	09/08/2014	<b>CONTACT:</b>	Brian Whittaker
<b>DATE COMPLETED:</b>	09/18/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (1411589)	Modified TO-15	9.6 "Hg	5 psi
01B	D1 (1411589)	Modified TO-15	9.6 "Hg	5 psi
02A	D2 (1411590)	Modified TO-15	9 "Hg	4.8 psi
02B	D2 (1411590)	Modified TO-15	9 "Hg	4.8 psi
03A	U1 (1411591)	Modified TO-15	8 "Hg	4.8 psi
03B	U1 (1411591)	Modified TO-15	8 "Hg	4.8 psi
04A	U2 (1411592)	Modified TO-15	9 "Hg	5 psi
04B	U2 (1411592)	Modified TO-15	9 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA
07BB	LCSD	Modified TO-15	NA	NA

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

DATE: 09/18/14

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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**LABORATORY NARRATIVE**  
**Modified TO-15 Full Scan/SIM**  
**Missouri Dept. of Natural Resources**  
**Workorder# 1409095**

Four 6 Liter Summa Canister (100% Certified) samples were received on September 08, 2014. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD  For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$ .; flag and narrate outliers  For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$ .; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded the acceptance limit for Heptane.

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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.

**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.

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 (1411589)**

**Lab ID#: 1409095-01A**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.20	0.60	0.97	3.0
Freon 11	0.20	0.26	1.1	1.5
Ethanol	0.98	4.1	1.8	7.8
Acetone	0.98	6.8	2.3	16
2-Propanol	0.98	0.99	2.4	2.4
Hexane	0.20	0.36	0.69	1.3
2-Butanone (Methyl Ethyl Ketone)	0.98	1.1	2.9	3.2
Benzene	0.20	0.24	0.63	0.76
Toluene	0.20	0.59	0.74	2.2
m,p-Xylene	0.20	0.24	0.86	1.0

**Client Sample ID: D1 (1411589)**

**Lab ID#: 1409095-01B**

No Detections Were Found.

**Client Sample ID: D2 (1411590)**

**Lab ID#: 1409095-02A**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.55	0.94	2.7
Freon 11	0.19	0.25	1.1	1.4
Ethanol	0.95	10	1.8	19
Acetone	0.95	7.7	2.2	18
2-Propanol	0.95	6.0	2.3	15
Hexane	0.19	0.29	0.67	1.0
2-Butanone (Methyl Ethyl Ketone)	0.95	3.2	2.8	9.6
Cyclohexane	0.19	0.45	0.65	1.6
Benzene	0.19	0.37	0.61	1.2
Heptane	0.19	0.22	0.78	0.90
Toluene	0.19	1.4	0.72	5.4

## Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

**Client Sample ID: D2 (1411590)**

**Lab ID#: 1409095-02B**

No Detections Were Found.

**Client Sample ID: U1 (1411591)**

**Lab ID#: 1409095-03A**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.58	0.90	2.9
Chloromethane	0.90	1.0	1.9	2.1
Freon 11	0.18	0.28	1.0	1.6
Ethanol	0.90	14	1.7	26
Acetone	0.90	18	2.1	44
2-Propanol	0.90	7.3	2.2	18
Carbon Disulfide	0.90	1.3	2.8	4.0
Methylene Chloride	0.36	0.37	1.2	1.3
Hexane	0.18	0.44	0.64	1.6
2-Butanone (Methyl Ethyl Ketone)	0.90	2.4	2.7	7.2
Cyclohexane	0.18	0.51	0.62	1.8
Benzene	0.18	0.28	0.58	0.89
Heptane	0.18	0.31	0.74	1.3
Toluene	0.18	1.6	0.68	6.2
m,p-Xylene	0.18	0.27	0.78	1.2

**Client Sample ID: U1 (1411591)**

**Lab ID#: 1409095-03B**

No Detections Were Found.

**Client Sample ID: U2 (1411592)**

**Lab ID#: 1409095-04A**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.58	0.94	2.9
Freon 11	0.19	0.28	1.1	1.6
Ethanol	0.96	7.2	1.8	14
Acetone	0.96	9.7	2.3	23

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

**Client Sample ID: U2 (1411592)**

**Lab ID#: 1409095-04A**

2-Propanol	0.96	2.6	2.3	6.3
Methylene Chloride	0.38	0.43	1.3	1.5
Hexane	0.19	0.33	0.67	1.2
2-Butanone (Methyl Ethyl Ketone)	0.96	1.5	2.8	4.6
Cyclohexane	0.19	0.19 J	0.66	0.64 J
Benzene	0.19	0.27	0.61	0.86
Toluene	0.19	1.6	0.72	5.9
m,p-Xylene	0.19	0.27	0.83	1.2

**Client Sample ID: U2 (1411592)**

**Lab ID#: 1409095-04B**

No Detections Were Found.





Air Toxics

Client Sample ID: D1 (1411589)

Lab ID#: 1409095-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091214	Date of Collection:	8/27/14 2:15:00 PM
Dil. Factor:	1.97	Date of Analysis:	9/12/14 11:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.20	0.60	0.97	3.0
Freon 114	0.20	Not Detected	1.4	Not Detected
Chloromethane	0.98	Not Detected	2.0	Not Detected
1,3-Butadiene	0.20	Not Detected	0.44	Not Detected
Bromomethane	0.98	Not Detected	3.8	Not Detected
Chloroethane	0.98	Not Detected	2.6	Not Detected
Freon 11	0.20	0.26	1.1	1.5
Ethanol	0.98	4.1	1.8	7.8
Freon 113	0.20	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Acetone	0.98	6.8	2.3	16
2-Propanol	0.98	0.99	2.4	2.4
Carbon Disulfide	0.98	Not Detected	3.1	Not Detected
3-Chloropropene	0.98	Not Detected	3.1	Not Detected
Methylene Chloride	0.39	Not Detected	1.4	Not Detected
Methyl tert-butyl ether	0.20	Not Detected	0.71	Not Detected
trans-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Hexane	0.20	0.36	0.69	1.3
1,1-Dichloroethane	0.20	Not Detected	0.80	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.98	1.1	2.9	3.2
cis-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
Chloroform	0.20	Not Detected	0.96	Not Detected
1,1,1-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Cyclohexane	0.20	Not Detected	0.68	Not Detected
Carbon Tetrachloride	0.20	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.98	Not Detected	4.6	Not Detected
Benzene	0.20	0.24	0.63	0.76
1,2-Dichloroethane	0.20	Not Detected	0.80	Not Detected
Heptane	0.20	Not Detected	0.81	Not Detected
Trichloroethene	0.20	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.20	Not Detected	0.91	Not Detected
1,4-Dioxane	0.20	Not Detected	0.71	Not Detected
Bromodichloromethane	0.20	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.20	Not Detected	0.89	Not Detected
4-Methyl-2-pentanone	0.20	Not Detected	0.81	Not Detected
Toluene	0.20	0.59	0.74	2.2
trans-1,3-Dichloropropene	0.20	Not Detected	0.89	Not Detected
1,1,2-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Tetrachloroethene	0.20	Not Detected	1.3	Not Detected
2-Hexanone	0.98	Not Detected	4.0	Not Detected
Dibromochloromethane	0.20	Not Detected	1.7	Not Detected



Air Toxics

Client Sample ID: D1 (1411589)

Lab ID#: 1409095-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091214	Date of Collection:	8/27/14 2:15:00 PM
Dil. Factor:	1.97	Date of Analysis:	9/12/14 11:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dibromoethane (EDB)	0.20	Not Detected	1.5	Not Detected
Chlorobenzene	0.20	Not Detected	0.91	Not Detected
Ethyl Benzene	0.20	Not Detected	0.86	Not Detected
m,p-Xylene	0.20	0.24	0.86	1.0
o-Xylene	0.20	Not Detected	0.86	Not Detected
Styrene	0.20	Not Detected	0.84	Not Detected
Bromoform	0.20	Not Detected	2.0	Not Detected
Cumene	0.20	Not Detected	0.97	Not Detected
1,1,2,2-Tetrachloroethane	0.20	Not Detected	1.4	Not Detected
Propylbenzene	0.20	Not Detected	0.97	Not Detected
4-Ethyltoluene	0.20	Not Detected	0.97	Not Detected
1,3,5-Trimethylbenzene	0.20	Not Detected	0.97	Not Detected
1,2,4-Trimethylbenzene	0.20	Not Detected	0.97	Not Detected
1,3-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,4-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
alpha-Chlorotoluene	0.20	Not Detected	1.0	Not Detected
1,2-Dichlorobenzene	0.20	Not Detected	1.2	Not Detected
1,2,4-Trichlorobenzene	0.98	Not Detected	7.3	Not Detected
Hexachlorobutadiene	0.98	Not Detected	10	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: D1 (1411589)

Lab ID#: 1409095-01B

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

File Name:	a091214sim	Date of Collection:	8/27/14 2:15:00 PM	
Dil. Factor:	1.97	Date of Analysis:	9/12/14 11:13 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.20	Not Detected	0.50	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: D2 (1411590)

Lab ID#: 1409095-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091216	Date of Collection:	8/27/14 2:34:00 PM
Dil. Factor:	1.90	Date of Analysis:	9/13/14 12:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.55	0.94	2.7
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.95	Not Detected	2.0	Not Detected
1,3-Butadiene	0.19	Not Detected	0.42	Not Detected
Bromomethane	0.95	Not Detected	3.7	Not Detected
Chloroethane	0.95	Not Detected	2.5	Not Detected
Freon 11	0.19	0.25	1.1	1.4
Ethanol	0.95	10	1.8	19
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.75	Not Detected
Acetone	0.95	7.7	2.2	18
2-Propanol	0.95	6.0	2.3	15
Carbon Disulfide	0.95	Not Detected	3.0	Not Detected
3-Chloropropene	0.95	Not Detected	3.0	Not Detected
Methylene Chloride	0.38	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.68	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.75	Not Detected
Hexane	0.19	0.29	0.67	1.0
1,1-Dichloroethane	0.19	Not Detected	0.77	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.95	3.2	2.8	9.6
cis-1,2-Dichloroethene	0.19	Not Detected	0.75	Not Detected
Tetrahydrofuran	0.95	Not Detected	2.8	Not Detected
Chloroform	0.19	Not Detected	0.93	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	0.45	0.65	1.6
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.95	Not Detected	4.4	Not Detected
Benzene	0.19	0.37	0.61	1.2
1,2-Dichloroethane	0.19	Not Detected	0.77	Not Detected
Heptane	0.19	0.22	0.78	0.90
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.88	Not Detected
1,4-Dioxane	0.19	Not Detected	0.68	Not Detected
Bromodichloromethane	0.19	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.86	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.78	Not Detected
Toluene	0.19	1.4	0.72	5.4
trans-1,3-Dichloropropene	0.19	Not Detected	0.86	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.95	Not Detected	3.9	Not Detected
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected



Client Sample ID: D2 (1411590)

Lab ID#: 1409095-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091216	Date of Collection:	8/27/14 2:34:00 PM
Dil. Factor:	1.90	Date of Analysis:	9/13/14 12:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.5	Not Detected
Chlorobenzene	0.19	Not Detected	0.87	Not Detected
Ethyl Benzene	0.19	Not Detected	0.82	Not Detected
m,p-Xylene	0.19	Not Detected	0.82	Not Detected
o-Xylene	0.19	Not Detected	0.82	Not Detected
Styrene	0.19	Not Detected	0.81	Not Detected
Bromoform	0.19	Not Detected	2.0	Not Detected
Cumene	0.19	Not Detected	0.93	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.93	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.93	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.93	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.93	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.98	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.95	Not Detected	7.0	Not Detected
Hexachlorobutadiene	0.95	Not Detected	10	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: D2 (1411590)

Lab ID#: 1409095-02B

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

File Name:	a091216sim	Date of Collection:	8/27/14 2:34:00 PM
Dil. Factor:	1.90	Date of Analysis:	9/13/14 12:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: U1 (1411591)

Lab ID#: 1409095-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091218	Date of Collection:	8/27/14 2:45:00 PM
Dil. Factor:	1.81	Date of Analysis:	9/13/14 01:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.58	0.90	2.9
Freon 114	0.18	Not Detected	1.3	Not Detected
Chloromethane	0.90	1.0	1.9	2.1
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	0.28	1.0	1.6
Ethanol	0.90	14	1.7	26
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Acetone	0.90	18	2.1	44
2-Propanol	0.90	7.3	2.2	18
Carbon Disulfide	0.90	1.3	2.8	4.0
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	0.37	1.2	1.3
Methyl tert-butyl ether	0.18	Not Detected	0.65	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Hexane	0.18	0.44	0.64	1.6
1,1-Dichloroethane	0.18	Not Detected	0.73	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	2.4	2.7	7.2
cis-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.7	Not Detected
Chloroform	0.18	Not Detected	0.88	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.99	Not Detected
Cyclohexane	0.18	0.51	0.62	1.8
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	0.28	0.58	0.89
1,2-Dichloroethane	0.18	Not Detected	0.73	Not Detected
Heptane	0.18	0.31	0.74	1.3
Trichloroethene	0.18	Not Detected	0.97	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.84	Not Detected
1,4-Dioxane	0.18	Not Detected	0.65	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.82	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.74	Not Detected
Toluene	0.18	1.6	0.68	6.2
trans-1,3-Dichloropropene	0.18	Not Detected	0.82	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.99	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected



Air Toxics

Client Sample ID: U1 (1411591)

Lab ID#: 1409095-03A

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

<b>File Name:</b>	<b>a091218</b>	<b>Date of Collection:</b> 8/27/14 2:45:00 PM
<b>Dil. Factor:</b>	<b>1.81</b>	<b>Date of Analysis:</b> 9/13/14 01:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.83	Not Detected
Ethyl Benzene	0.18	Not Detected	0.78	Not Detected
m,p-Xylene	0.18	0.27	0.78	1.2
o-Xylene	0.18	Not Detected	0.78	Not Detected
Styrene	0.18	Not Detected	0.77	Not Detected
Bromoform	0.18	Not Detected	1.9	Not Detected
Cumene	0.18	Not Detected	0.89	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.89	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.89	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.89	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.89	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	0.94	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.7	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.6	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	103	70-130





Air Toxics

Client Sample ID: U1 (1411591)

Lab ID#: 1409095-03B

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

File Name:	a091218sim	Date of Collection:	8/27/14 2:45:00 PM	
Dil. Factor:	1.81	Date of Analysis:	9/13/14 01:30 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: U2 (1411592)

Lab ID#: 1409095-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091220	Date of Collection:	8/27/14 2:56:00 PM
Dil. Factor:	1.91	Date of Analysis:	9/13/14 02:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.58	0.94	2.9
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.96	Not Detected	2.0	Not Detected
1,3-Butadiene	0.19	Not Detected	0.42	Not Detected
Bromomethane	0.96	Not Detected	3.7	Not Detected
Chloroethane	0.96	Not Detected	2.5	Not Detected
Freon 11	0.19	0.28	1.1	1.6
Ethanol	0.96	7.2	1.8	14
Freon 113	0.19	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Acetone	0.96	9.7	2.3	23
2-Propanol	0.96	2.6	2.3	6.3
Carbon Disulfide	0.96	Not Detected	3.0	Not Detected
3-Chloropropene	0.96	Not Detected	3.0	Not Detected
Methylene Chloride	0.38	0.43	1.3	1.5
Methyl tert-butyl ether	0.19	Not Detected	0.69	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Hexane	0.19	0.33	0.67	1.2
1,1-Dichloroethane	0.19	Not Detected	0.77	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.96	1.5	2.8	4.6
cis-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Tetrahydrofuran	0.96	Not Detected	2.8	Not Detected
Chloroform	0.19	Not Detected	0.93	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	0.19 J	0.66	0.64 J
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.96	Not Detected	4.5	Not Detected
Benzene	0.19	0.27	0.61	0.86
1,2-Dichloroethane	0.19	Not Detected	0.77	Not Detected
Heptane	0.19	Not Detected	0.78	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.88	Not Detected
1,4-Dioxane	0.19	Not Detected	0.69	Not Detected
Bromodichloromethane	0.19	Not Detected	1.3	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.87	Not Detected
4-Methyl-2-pentanone	0.19	Not Detected	0.78	Not Detected
Toluene	0.19	1.6	0.72	5.9
trans-1,3-Dichloropropene	0.19	Not Detected	0.87	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
2-Hexanone	0.96	Not Detected	3.9	Not Detected
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected



Air Toxics

Client Sample ID: U2 (1411592)

Lab ID#: 1409095-04A

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

File Name:	a091220	Date of Collection:	8/27/14 2:56:00 PM
Dil. Factor:	1.91	Date of Analysis:	9/13/14 02:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.5	Not Detected
Chlorobenzene	0.19	Not Detected	0.88	Not Detected
Ethyl Benzene	0.19	Not Detected	0.83	Not Detected
m,p-Xylene	0.19	0.27	0.83	1.2
o-Xylene	0.19	Not Detected	0.83	Not Detected
Styrene	0.19	Not Detected	0.81	Not Detected
Bromoform	0.19	Not Detected	2.0	Not Detected
Cumene	0.19	Not Detected	0.94	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.94	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.94	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.99	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.96	Not Detected	7.1	Not Detected
Hexachlorobutadiene	0.96	Not Detected	10	Not Detected

J = Estimated value.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: U2 (1411592)

Lab ID#: 1409095-04B

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

File Name:	a091220sim	Date of Collection:	8/27/14 2:56:00 PM	
Dil. Factor:	1.91	Date of Analysis:	9/13/14 02:38 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.19	Not Detected	0.49	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1409095-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091207	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/12/14 04:43 PM

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
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
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 1409095-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091207	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/12/14 04:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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	94	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1409095-05B

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

File Name:	a091207sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/12/14 04:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1409095-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/12/14 01:09 PM

Compound	%Recovery
Freon 12	104
Freon 114	105
Chloromethane	101
1,3-Butadiene	92
Bromomethane	118
Chloroethane	92
Freon 11	117
Ethanol	90
Freon 113	110
1,1-Dichloroethene	99
Acetone	79
2-Propanol	92
Carbon Disulfide	96
3-Chloropropene	108
Methylene Chloride	95
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	95
Hexane	87
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	87
Tetrahydrofuran	85
Chloroform	96
1,1,1-Trichloroethane	99
Cyclohexane	89
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	85
Benzene	93
1,2-Dichloroethane	104
Heptane	109
Trichloroethene	108
1,2-Dichloropropane	99
1,4-Dioxane	98
Bromodichloromethane	97
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	79
Toluene	112
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	100
Tetrachloroethene	111
2-Hexanone	84
Dibromochloromethane	105



Client Sample ID: CCV

Lab ID#: 1409095-06A

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

<b>File Name:</b>	<b>a091202</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 9/12/14 01:09 PM

<b>Compound</b>	<b>%Recovery</b>
1,2-Dibromoethane (EDB)	100
Chlorobenzene	102
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	98
Styrene	93
Bromoform	108
Cumene	90
1,1,2,2-Tetrachloroethane	100
Propylbenzene	94
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	115
Hexachlorobutadiene	117

**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	107	70-130

**Client Sample ID: CCV**
**Lab ID#: 1409095-06B**
**MODIFIED EPA METHOD TO-15 GC/MS SIM**

<b>File Name:</b>	<b>a091202sim</b>	<b>Date of Collection: NA</b>
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis: 9/12/14 01:09 PM</b>

<b>Compound</b>	<b>%Recovery</b>
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Vinyl Chloride	106
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**Container Type: NA - Not Applicable**

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
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1,2-Dichloroethane-d4	88	70-130
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Toluene-d8	96	70-130
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4-Bromofluorobenzene	110	70-130
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Air Toxics

Client Sample ID: LCS

Lab ID#: 1409095-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a091203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/12/14 01:49 PM

Compound	%Recovery	Method Limits
Freon 12	110	70-130
Freon 114	112	70-130
Chloromethane	107	70-130
1,3-Butadiene	95	70-130
Bromomethane	120	70-130
Chloroethane	98	70-130
Freon 11	118	70-130
Ethanol	98	70-130
Freon 113	127	70-130
1,1-Dichloroethene	119	70-130
Acetone	85	70-130
2-Propanol	94	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	115	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	86	70-130
Hexane	92	70-130
1,1-Dichloroethane	97	70-130
2-Butanone (Methyl Ethyl Ketone)	113	70-130
cis-1,2-Dichloroethene	100	70-130
Tetrahydrofuran	89	70-130
Chloroform	97	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	78	70-130
2,2,4-Trimethylpentane	113	70-130
Benzene	99	70-130
1,2-Dichloroethane	108	70-130
Heptane	118	70-130
Trichloroethene	109	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	106	70-130
4-Methyl-2-pentanone	84	70-130
Toluene	89	70-130
trans-1,3-Dichloropropene	88	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	111	70-130
2-Hexanone	86	70-130
Dibromochloromethane	109	70-130

Client Sample ID: LCS

Lab ID#: 1409095-07A

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

File Name:	a091203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/12/14 01:49 PM

Compound	%Recovery	Method Limits
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	96	70-130
o-Xylene	97	70-130
Styrene	92	70-130
Bromoform	113	70-130
Cumene	92	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	99	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	93	70-130
alpha-Chlorotoluene	98	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	98	70-130
Hexachlorobutadiene	102	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1409095-07AA

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

<b>File Name:</b>	<b>a091204</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 9/12/14 02:30 PM

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
Freon 12	115	70-130
Freon 114	120	70-130
Chloromethane	108	70-130
1,3-Butadiene	101	70-130
Bromomethane	126	70-130
Chloroethane	105	70-130
Freon 11	130	70-130
Ethanol	99	70-130
Freon 113	136 Q	70-130
1,1-Dichloroethene	125	70-130
Acetone	96	70-130
2-Propanol	100	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	114	70-130
Methylene Chloride	110	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	95	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	90	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	92	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	108	70-130
Cyclohexane	98	70-130
Carbon Tetrachloride	89	70-130
2,2,4-Trimethylpentane	116	70-130
Benzene	94	70-130
1,2-Dichloroethane	104	70-130
Heptane	88	70-130
Trichloroethene	107	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	81	70-130
Toluene	108	70-130
trans-1,3-Dichloropropene	88	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	111	70-130
2-Hexanone	86	70-130
Dibromochloromethane	113	70-130

Client Sample ID: LCSD

Lab ID#: 1409095-07AA

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

File Name:	a091204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/12/14 02:30 PM

Compound	%Recovery	Method Limits
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	94	70-130
o-Xylene	92	70-130
Styrene	89	70-130
Bromoform	112	70-130
Cumene	90	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	99	70-130
1,3,5-Trimethylbenzene	93	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	96	70-130
alpha-Chlorotoluene	101	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	114	70-130
Hexachlorobutadiene	119	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 1409095-07B

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

File Name:	a091203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/12/14 01:49 PM

Compound	%Recovery	Method Limits
Vinyl Chloride	109	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1409095-07BB

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

File Name:	a091204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/12/14 02:30 PM

<b>Compound</b>	<b>%Recovery</b>	<b>Method Limits</b>
Vinyl Chloride	111	70-130

Container Type: NA - Not Applicable

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	109	70-130