



CHAIN-OF-CUSTODY RECORD

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Project Manager: Michael Paris 180 BLUE RAVINE ROAD, SUITE B
 FOLSOM, CA 95630-4719
 (916) 985-1000 FAX (916) 985-1020

Collected by: (Print and Sign) Michael Paris Page 1 of 1

Company: MWDNR Email: Michael.Paris@state.ca.gov

Address: P.O. Box 146 City: Merced State: CA Zip: 95109

Phone: (543) 526 3118 Fax: _____

Project Info:
 P.O. #: 3559 400007
 Project #: _____
 Project Name: Bridgeport LF

Turn Around Time:
 Normal
 Rush
 specify: _____

Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 No. _____ He _____

Lab I.D.	Field Sample I.D. (Location)	Can #	Date		Time	Analyses Requested	Canister Pressure/Vacuum		
			of Collection	of Collection			Initial	Final	Receipt
01A	D1 (141531)	610046	8/6/14	0955	1452	TO-15	-29.5	-6.5	
02A	D2 (141532)	25271	8/6/14	1640	1523	TO-15	-30	-5	
03A	U1 (141533)	33378	8/6/14	1620	1515	TO-15	-30	-5.5	
04A	U2 (141534)	34333	8/6/14	1629	1445	TO-15	-29.5	-7	

Relinquished by: (signature) [Signature] Date/Time 8/7/14 1430
 Received by: (signature) [Signature] Date/Time 8/7/14 1015

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Shipper Name: UPS Air Bill #: _____ Temp (°C): NA Condition: Good Custody Seals Intact? Yes No None Work Order #: 1408214

Notes:
 Shipped via UPS.
 Tracking #: 1Z6721880343262606

8/27/2014

Mr. Dennis Schroeder
Missouri Dept. of Natural Resources
2710 West Main

Jefferson City MO 65109

Project Name: Bridgeton LF

Project #:

Workorder #: 1408214

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 8/13/2014 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 #: 1408214

Work Order Summary

CLIENT:	Mr. Dennis Schroeder Missouri Dept. of Natural Resources 2710 West Main Jefferson City, MO 65109	BILL TO:	Accounts Payable Missouri Dept. of Natural Resources P.O Box 176 Jefferson City, MO 65102
PHONE:	573-526-4428	P.O. #	3ESP4000007
FAX:	573-526-3350	PROJECT #	Bridgeton LF
DATE RECEIVED:	08/13/2014	CONTACT:	Brian Whittaker
DATE COMPLETED:	08/27/2014		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (1411531)	Modified TO-15	7.3 "Hg	5 psi
02A	D2 (1411532)	Modified TO-15	6.7 "Hg	5.1 psi
03A	U1 (1411533)	Modified TO-15	6.3 "Hg	5.2 psi
04A	U2 (1411534)	Modified TO-15	8.2 "Hg	4.8 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: 08/27/14

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
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Missouri Dept. of Natural Resources
Workorder# 1408214

Four 6 Liter Summa Canister (100% Certified) samples were received on August 13, 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	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=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.

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 (1411531)

Lab ID#: 1408214-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.53	0.88	2.6
Freon 11	0.18	0.21	0.99	1.2
Ethanol	0.88	3.0	1.7	5.7
Acetone	0.88	5.5	2.1	13
Carbon Disulfide	0.88	4.3	2.8	13
Benzene	0.18	0.22	0.56	0.71
Toluene	0.18	0.23	0.67	0.88

Client Sample ID: D2 (1411532)

Lab ID#: 1408214-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.51	0.86	2.5
Freon 11	0.17	0.24	0.98	1.4
Ethanol	0.87	2.4	1.6	4.6
Acetone	0.87	6.1	2.1	14
Methylene Chloride	0.35	0.42	1.2	1.5
Hexane	0.17	0.22	0.61	0.79
Benzene	0.17	0.79	0.56	2.5
Heptane	0.17	0.27	0.71	1.1
Ethyl Benzene	0.17	0.39	0.76	1.7
m,p-Xylene	0.17	0.64	0.76	2.8
4-Ethyltoluene	0.17	0.20	0.86	1.0
1,2,4-Trimethylbenzene	0.17	0.29	0.86	1.4

Client Sample ID: U1 (1411533)

Lab ID#: 1408214-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.85	2.5
Freon 11	0.17	0.20	0.97	1.1
Ethanol	0.86	2.4	1.6	4.5
Acetone	0.86	5.7	2.0	14

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

Client Sample ID: U1 (1411533)

Lab ID#: 1408214-03A

Client Sample ID: U2 (1411534)

Lab ID#: 1408214-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.52	0.90	2.6
Freon 11	0.18	0.19	1.0	1.0
Ethanol	0.91	3.3	1.7	6.2
Acetone	0.91	7.6	2.2	18



Air Toxics

Client Sample ID: D1 (1411531)

Lab ID#: 1408214-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082211	Date of Collection:	8/6/14 2:52:00 PM
Dil. Factor:	1.77	Date of Analysis:	8/22/14 05:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.53	0.88	2.6
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	0.21	0.99	1.2
Ethanol	0.88	3.0	1.7	5.7
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	5.5	2.1	13
2-Propanol	0.88	Not Detected	2.2	Not Detected
Carbon Disulfide	0.88	4.3	2.8	13
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	0.64	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Hexane	0.18	Not Detected	0.62	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.72	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	0.61	Not Detected
Carbon Tetrachloride	0.18	Not Detected UJ	1.1	Not Detected UJ
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Benzene	0.18	0.22	0.56	0.71
1,2-Dichloroethane	0.18	Not Detected	0.72	Not Detected
Heptane	0.18	Not Detected	0.72	Not Detected
Trichloroethene	0.18	Not Detected	0.95	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.82	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	0.80	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
Toluene	0.18	0.23	0.67	0.88
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 (1411531)

Lab ID#: 1408214-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082211	Date of Collection:	8/6/14 2:52:00 PM
Dil. Factor:	1.77	Date of Analysis:	8/22/14 05:55 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	0.77	Not Detected
m,p-Xylene	0.18	Not Detected	0.77	Not Detected
o-Xylene	0.18	Not Detected	0.77	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	0.87	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.87	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.87	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.87	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.87	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	0.92	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.4	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: D2 (1411532)

Lab ID#: 1408214-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082212	Date of Collection:	8/6/14 3:03:00 PM
Dil. Factor:	1.74	Date of Analysis:	8/22/14 06:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.51	0.86	2.5
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.87	Not Detected	1.8	Not Detected
Vinyl Chloride	0.17	Not Detected	0.44	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.87	Not Detected	3.4	Not Detected
Chloroethane	0.87	Not Detected	2.3	Not Detected
Freon 11	0.17	0.24	0.98	1.4
Ethanol	0.87	2.4	1.6	4.6
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Acetone	0.87	6.1	2.1	14
2-Propanol	0.87	Not Detected	2.1	Not Detected
Carbon Disulfide	0.87	Not Detected	2.7	Not Detected
3-Chloropropene	0.87	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	0.42	1.2	1.5
Methyl tert-butyl ether	0.17	Not Detected	0.63	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Hexane	0.17	0.22	0.61	0.79
1,1-Dichloroethane	0.17	Not Detected	0.70	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.87	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.69	Not Detected
Tetrahydrofuran	0.87	Not Detected	2.6	Not Detected
Chloroform	0.17	Not Detected	0.85	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.95	Not Detected
Cyclohexane	0.17	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.17	Not Detected UJ	1.1	Not Detected UJ
2,2,4-Trimethylpentane	0.87	Not Detected	4.1	Not Detected
Benzene	0.17	0.79	0.56	2.5
1,2-Dichloroethane	0.17	Not Detected	0.70	Not Detected
Heptane	0.17	0.27	0.71	1.1
Trichloroethene	0.17	Not Detected	0.94	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.80	Not Detected
1,4-Dioxane	0.17	Not Detected	0.63	Not Detected
Bromodichloromethane	0.17	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.71	Not Detected
Toluene	0.17	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.79	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.95	Not Detected
Tetrachloroethene	0.17	Not Detected	1.2	Not Detected
2-Hexanone	0.87	Not Detected	3.6	Not Detected

Client Sample ID: D2 (1411532)

Lab ID#: 1408214-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082212	Date of Collection:	8/6/14 3:03:00 PM
Dil. Factor:	1.74	Date of Analysis:	8/22/14 06:48 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	0.39	0.76	1.7
m,p-Xylene	0.17	0.64	0.76	2.8
o-Xylene	0.17	Not Detected	0.76	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	0.86	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.17	0.20	0.86	1.0
1,3,5-Trimethylbenzene	0.17	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.17	0.29	0.86	1.4
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	0.87	Not Detected	6.4	Not Detected
Hexachlorobutadiene	0.87	Not Detected	9.3	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: U1 (1411533)

Lab ID#: 1408214-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082508	Date of Collection:	8/6/14 3:15:00 PM
Dil. Factor:	1.72	Date of Analysis:	8/25/14 02:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.50	0.85	2.5
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.86	Not Detected	1.8	Not Detected
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	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.3	Not Detected
Freon 11	0.17	0.20	0.97	1.1
Ethanol	0.86	2.4	1.6	4.5
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Acetone	0.86	5.7	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	0.34	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	Not Detected	0.61	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.70	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	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	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected UJ	1.1	Not Detected UJ
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	0.70	Not Detected
Trichloroethene	0.17	Not Detected	0.92	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	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	0.70	Not Detected
Toluene	0.17	Not Detected	0.65	Not Detected
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: U1 (1411533)

Lab ID#: 1408214-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082508	Date of Collection:	8/6/14 3:15:00 PM
Dil. Factor:	1.72	Date of Analysis:	8/25/14 02:28 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	0.79	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	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	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	0.89	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

UJ = Analyte associated with low bias in the CCV and/or LCS.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: U2 (1411534)

Lab ID#: 1408214-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082509	Date of Collection:	8/6/14 2:45:00 PM
Dil. Factor:	1.82	Date of Analysis:	8/25/14 03:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.52	0.90	2.6
Freon 114	0.18	Not Detected	1.3	Not Detected
Chloromethane	0.91	Not Detected	1.9	Not Detected
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.91	Not Detected	3.5	Not Detected
Chloroethane	0.91	Not Detected	2.4	Not Detected
Freon 11	0.18	0.19	1.0	1.0
Ethanol	0.91	3.3	1.7	6.2
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Acetone	0.91	7.6	2.2	18
2-Propanol	0.91	Not Detected	2.2	Not Detected
Carbon Disulfide	0.91	Not Detected	2.8	Not Detected
3-Chloropropene	0.91	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.3	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.66	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Hexane	0.18	Not Detected	0.64	Not Detected
1,1-Dichloroethane	0.18	Not Detected	0.74	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.91	Not Detected	2.7	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Tetrahydrofuran	0.91	Not Detected	2.7	Not Detected
Chloroform	0.18	Not Detected	0.89	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.99	Not Detected
Cyclohexane	0.18	Not Detected	0.63	Not Detected
Carbon Tetrachloride	0.18	Not Detected UJ	1.1	Not Detected UJ
2,2,4-Trimethylpentane	0.91	Not Detected	4.2	Not Detected
Benzene	0.18	Not Detected	0.58	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.74	Not Detected
Heptane	0.18	Not Detected	0.74	Not Detected
Trichloroethene	0.18	Not Detected	0.98	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.84	Not Detected
1,4-Dioxane	0.18	Not Detected	0.66	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.83	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.74	Not Detected
Toluene	0.18	Not Detected	0.68	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.83	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	0.91	Not Detected	3.7	Not Detected



Client Sample ID: U2 (1411534)

Lab ID#: 1408214-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082509	Date of Collection:	8/6/14 2:45:00 PM
Dil. Factor:	1.82	Date of Analysis:	8/25/14 03:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.18	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.84	Not Detected
Ethyl Benzene	0.18	Not Detected	0.79	Not Detected
m,p-Xylene	0.18	Not Detected	0.79	Not Detected
o-Xylene	0.18	Not Detected	0.79	Not Detected
Styrene	0.18	Not Detected	0.78	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	0.91	Not Detected	6.8	Not Detected
Hexachlorobutadiene	0.91	Not Detected	9.7	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1408214-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082207	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/22/14 01:05 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
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 UJ	0.63	Not Detected UJ
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#: 1408214-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082207	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/22/14 01:05 PM

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

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1408214-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082507	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/25/14 12:57 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
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 UJ	0.63	Not Detected UJ
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#: 1408214-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082507	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/25/14 12:57 PM

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

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1408214-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/14 08:58 AM

Compound	%Recovery
Freon 12	90
Freon 114	90
Chloromethane	75
Vinyl Chloride	80
1,3-Butadiene	78
Bromomethane	105
Chloroethane	100
Freon 11	94
Ethanol	99
Freon 113	101
1,1-Dichloroethene	101
Acetone	88
2-Propanol	99
Carbon Disulfide	102
3-Chloropropene	100
Methylene Chloride	101
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	105
Hexane	98
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	100
Tetrahydrofuran	100
Chloroform	95
1,1,1-Trichloroethane	99
Cyclohexane	101
Carbon Tetrachloride	69 Q
2,2,4-Trimethylpentane	97
Benzene	102
1,2-Dichloroethane	97
Heptane	101
Trichloroethene	102
1,2-Dichloropropane	99
1,4-Dioxane	104
Bromodichloromethane	100
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	101
Toluene	98
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	97
Tetrachloroethene	102
2-Hexanone	97

Client Sample ID: CCV

Lab ID#: 1408214-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/14 08:58 AM

Compound	%Recovery
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	106
Chlorobenzene	99
Ethyl Benzene	106
m,p-Xylene	101
o-Xylene	101
Styrene	108
Bromoform	96
Cumene	100
1,1,2,2-Tetrachloroethane	100
Propylbenzene	95
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	70
Hexachlorobutadiene	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1408214-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/25/14 07:38 AM

Compound	%Recovery
Freon 12	91
Freon 114	95
Chloromethane	73
Vinyl Chloride	80
1,3-Butadiene	80
Bromomethane	105
Chloroethane	95
Freon 11	98
Ethanol	95
Freon 113	96
1,1-Dichloroethene	90
Acetone	90
2-Propanol	94
Carbon Disulfide	100
3-Chloropropene	98
Methylene Chloride	98
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	102
Hexane	101
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	95
Tetrahydrofuran	102
Chloroform	95
1,1,1-Trichloroethane	101
Cyclohexane	102
Carbon Tetrachloride	64 Q
2,2,4-Trimethylpentane	92
Benzene	98
1,2-Dichloroethane	100
Heptane	100
Trichloroethene	102
1,2-Dichloropropane	97
1,4-Dioxane	99
Bromodichloromethane	100
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	100
Toluene	100
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	97
Tetrachloroethene	107
2-Hexanone	96



Air Toxics

Client Sample ID: CCV

Lab ID#: 1408214-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/25/14 07:38 AM

Compound	%Recovery
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	106
Chlorobenzene	100
Ethyl Benzene	103
m,p-Xylene	97
o-Xylene	102
Styrene	105
Bromoform	96
Cumene	102
1,1,2,2-Tetrachloroethane	100
Propylbenzene	92
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	82
1,2,4-Trichlorobenzene	72
Hexachlorobutadiene	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1408214-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/14 09:58 AM

Compound	%Recovery	Method Limits
Freon 12	95	70-130
Freon 114	104	70-130
Chloromethane	80	70-130
Vinyl Chloride	84	70-130
1,3-Butadiene	82	70-130
Bromomethane	110	70-130
Chloroethane	97	70-130
Freon 11	95	70-130
Ethanol	90	70-130
Freon 113	110	70-130
1,1-Dichloroethene	111	70-130
Acetone	92	70-130
2-Propanol	98	70-130
Carbon Disulfide	90	70-130
3-Chloropropene	106	70-130
Methylene Chloride	110	70-130
Methyl tert-butyl ether	93	70-130
trans-1,2-Dichloroethene	88	70-130
Hexane	102	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	103	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	102	70-130
Carbon Tetrachloride	87	70-130
2,2,4-Trimethylpentane	94	70-130
Benzene	98	70-130
1,2-Dichloroethane	95	70-130
Heptane	104	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	103	70-130
4-Methyl-2-pentanone	100	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	102	70-130
2-Hexanone	102	70-130



Client Sample ID: LCS

Lab ID#: 1408214-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/14 09:58 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	107	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	97	70-130
o-Xylene	98	70-130
Styrene	103	70-130
Bromoform	107	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	96	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	90	70-130
1,3,5-Trimethylbenzene	89	70-130
1,2,4-Trimethylbenzene	81	70-130
1,3-Dichlorobenzene	87	70-130
1,4-Dichlorobenzene	87	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	82	70-130
1,2,4-Trichlorobenzene	71	70-130
Hexachlorobutadiene	73	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1408214-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/14 11:01 AM

Compound	%Recovery	Method Limits
Freon 12	92	70-130
Freon 114	105	70-130
Chloromethane	77	70-130
Vinyl Chloride	83	70-130
1,3-Butadiene	84	70-130
Bromomethane	111	70-130
Chloroethane	96	70-130
Freon 11	92	70-130
Ethanol	86	70-130
Freon 113	111	70-130
1,1-Dichloroethene	108	70-130
Acetone	86	70-130
2-Propanol	98	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	103	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	100	70-130
1,1-Dichloroethane	97	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	106	70-130
Tetrahydrofuran	97	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	93	70-130
Cyclohexane	100	70-130
Carbon Tetrachloride	88	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	100	70-130
1,2-Dichloroethane	97	70-130
Heptane	103	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	103	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	102	70-130
2-Hexanone	105	70-130

Client Sample ID: LCSD

Lab ID#: 1408214-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/14 11:01 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	108	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	97	70-130
o-Xylene	100	70-130
Styrene	103	70-130
Bromoform	108	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	93	70-130
1,3,5-Trimethylbenzene	90	70-130
1,2,4-Trimethylbenzene	83	70-130
1,3-Dichlorobenzene	90	70-130
1,4-Dichlorobenzene	89	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	83	70-130
1,2,4-Trichlorobenzene	73	70-130
Hexachlorobutadiene	77	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1408214-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/25/14 08:32 AM

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	103	70-130
Chloromethane	78	70-130
Vinyl Chloride	88	70-130
1,3-Butadiene	87	70-130
Bromomethane	110	70-130
Chloroethane	99	70-130
Freon 11	100	70-130
Ethanol	94	70-130
Freon 113	115	70-130
1,1-Dichloroethene	116	70-130
Acetone	91	70-130
2-Propanol	102	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	108	70-130
Methylene Chloride	113	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	101	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	107	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	100	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	95	70-130
1,2-Dichloroethane	99	70-130
Heptane	100	70-130
Trichloroethene	95	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	99	70-130
Toluene	93	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	99	70-130
2-Hexanone	101	70-130

Client Sample ID: LCS

Lab ID#: 1408214-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/25/14 08:32 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	91	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	94	70-130
o-Xylene	93	70-130
Styrene	97	70-130
Bromoform	108	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	95	70-130
Propylbenzene	88	70-130
4-Ethyltoluene	89	70-130
1,3,5-Trimethylbenzene	87	70-130
1,2,4-Trimethylbenzene	81	70-130
1,3-Dichlorobenzene	86	70-130
1,4-Dichlorobenzene	85	70-130
alpha-Chlorotoluene	94	70-130
1,2-Dichlorobenzene	77	70-130
1,2,4-Trichlorobenzene	66 Q	70-130
Hexachlorobutadiene	72	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1408214-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/25/14 09:30 AM

Compound	%Recovery	Method Limits
Freon 12	92	70-130
Freon 114	104	70-130
Chloromethane	89	70-130
Vinyl Chloride	86	70-130
1,3-Butadiene	86	70-130
Bromomethane	107	70-130
Chloroethane	98	70-130
Freon 11	96	70-130
Ethanol	91	70-130
Freon 113	112	70-130
1,1-Dichloroethene	107	70-130
Acetone	90	70-130
2-Propanol	97	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	105	70-130
Methylene Chloride	110	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	99	70-130
1,1-Dichloroethane	99	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	96	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	96	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	89	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	96	70-130
1,2-Dichloroethane	96	70-130
Heptane	99	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	93	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	99	70-130
4-Methyl-2-pentanone	97	70-130
Toluene	92	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	91	70-130
Tetrachloroethene	99	70-130
2-Hexanone	102	70-130

Client Sample ID: LCSD

Lab ID#: 1408214-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	c082505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/25/14 09:30 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	93	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	95	70-130
o-Xylene	93	70-130
Styrene	99	70-130
Bromoform	106	70-130
Cumene	99	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Propylbenzene	91	70-130
4-Ethyltoluene	88	70-130
1,3,5-Trimethylbenzene	86	70-130
1,2,4-Trimethylbenzene	81	70-130
1,3-Dichlorobenzene	85	70-130
1,4-Dichlorobenzene	86	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	78	70-130
1,2,4-Trichlorobenzene	73	70-130
Hexachlorobutadiene	75	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130