



Air Toxics

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws...

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Michael Parry

Collected by: (Print and Sign) Michael Parry

Company MO DNR

Address PO Box 170 City Jefferson City State MO Zip 65102

Phone (573) 526 3918 Fax

Project Info:

P.O. # 3539400007

Project #

Project Name Breckton LT

Turn Around Time:

Normal

Rush

Lab Use Only

Pressurized by:

Date:

Pressurization Gas:

N2 He

Lab I.D. Field Sample I.D. (Location)

Can #

Date of Collection

Time of Collection

Analyses Requested

Canister Pressure/Vacuum

Table with columns: Lab I.D., Field Sample I.D., Can #, Date of Collection, Time of Collection, Analyses Requested, Canister Pressure/Vacuum. Rows include sample IDs D1, D2, U1 and their corresponding collection details.

Relinquished by: (signature) Date/Time

Received by: (signature) Date/Time

Notes:

Relinquished by: (signature) Date/Time

Received by: (signature) Date/Time

Shipped via UPS Tracking # 1Z6127880344146838

Relinquished by: (signature) Date/Time

Received by: (signature) Date/Time

Shipper Name

Air Bill #

Temp (°C)

Condition

Custody Seals Intact?

Work Order #

Form fields for Shipper Name, Air Bill #, Temp (°C), Condition, Custody Seals Intact?, Work Order #. Includes handwritten entries like 'UPS', 'Good', 'None', and '1504320'.

4/20/2015

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

Jefferson City MO 65109

Project Name: Bridgeton Landfill

Project #:

Workorder #: 1504139

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 4/8/2015 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 #: 1504139

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 Landfill
DATE RECEIVED:	04/08/2015	CONTACT:	Brian Whittaker
DATE COMPLETED:	04/20/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	D1 (151971)	Modified TO-15	5.7 "Hg	5.2 psi
02A	D2 (151973)	Modified TO-15	7.3 "Hg	4.9 psi
03A	U1 (151974)	Modified TO-15	5.9 "Hg	5.1 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 04/20/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

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
Missouri Dept. of Natural Resources
Workorder# 1504139

Three 6 Liter Summa Canister (100% Certified) samples were received on April 08, 2015. 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

There were no analytical discrepancies.

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 (151971)

Lab ID#: 1504139-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.37	0.82	1.8
Freon 11	0.17	0.19	0.94	1.0
Ethanol	0.84	2.4	1.6	4.5
Acetone	0.84	1.6	2.0	3.8

Client Sample ID: D2 (151973)

Lab ID#: 1504139-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.44	0.87	2.2
Freon 11	0.18	0.18	0.99	1.0
Ethanol	0.88	1.9	1.6	3.5
Acetone	0.88	2.0	2.1	4.7

Client Sample ID: U1 (151974)

Lab ID#: 1504139-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.42	0.83	2.1
Freon 11	0.17	0.19	0.94	1.1
Ethanol	0.84	1.6	1.6	3.1
Acetone	0.84	1.6	2.0	3.8



Air Toxics

Client Sample ID: D1 (151971)

Lab ID#: 1504139-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041308	Date of Collection:	3/31/15 2:53:00 PM
Dil. Factor:	1.67	Date of Analysis:	4/13/15 12:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.37	0.82	1.8
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.2	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.19	0.94	1.0
Ethanol	0.84	2.4	1.6	4.5
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Acetone	0.84	1.6	2.0	3.8
2-Propanol	0.84	Not Detected	2.0	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Hexane	0.17	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.91	Not Detected
Cyclohexane	0.17	Not Detected	0.57	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	Not Detected	0.53	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.68	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.77	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.68	Not Detected
Toluene	0.17	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.91	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected



Client Sample ID: D1 (151971)

Lab ID#: 1504139-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041308	Date of Collection:	3/31/15 2:53:00 PM
Dil. Factor:	1.67	Date of Analysis:	4/13/15 12:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.72	Not Detected
m,p-Xylene	0.17	Not Detected	0.72	Not Detected
o-Xylene	0.17	Not Detected	0.72	Not Detected
Styrene	0.17	Not Detected	0.71	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.1	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	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	0.86	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	8.9	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: D2 (151973)

Lab ID#: 1504139-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041309	Date of Collection:	3/31/15 2:45:00 PM
Dil. Factor:	1.76	Date of Analysis:	4/13/15 01:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.44	0.87	2.2
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	0.18	0.99	1.0
Ethanol	0.88	1.9	1.6	3.5
Freon 113	0.18	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	2.0	2.1	4.7
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	2.8	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	Not Detected	0.62	Not Detected
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	Not Detected	0.66	Not Detected
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: D2 (151973)

Lab ID#: 1504139-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041309	Date of Collection:	3/31/15 2:45:00 PM
Dil. Factor:	1.76	Date of Analysis:	4/13/15 01:24 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

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: U1 (151974)

Lab ID#: 1504139-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041310	Date of Collection:	3/31/15 3:06:00 PM
Dil. Factor:	1.68	Date of Analysis:	4/13/15 02:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.42	0.83	2.1
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.19	0.94	1.1
Ethanol	0.84	1.6	1.6	3.1
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Acetone	0.84	1.6	2.0	3.8
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Hexane	0.17	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.17	Not Detected	0.68	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Benzene	0.17	Not Detected	0.54	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Heptane	0.17	Not Detected	0.69	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
Toluene	0.17	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected

Client Sample ID: U1 (151974)

Lab ID#: 1504139-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041310	Date of Collection: 3/31/15 3:06:00 PM
Dil. Factor:	1.68	Date of Analysis: 4/13/15 02:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Ethyl Benzene	0.17	Not Detected	0.73	Not Detected
m,p-Xylene	0.17	Not Detected	0.73	Not Detected
o-Xylene	0.17	Not Detected	0.73	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	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	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1504139-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041307	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/13/15 11:10 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#: 1504139-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041307	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/13/15 11:10 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	97	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1504139-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/13/15 07:58 AM

Compound	%Recovery
Freon 12	90
Freon 114	97
Chloromethane	87
Vinyl Chloride	89
1,3-Butadiene	90
Bromomethane	87
Chloroethane	81
Freon 11	85
Ethanol	76
Freon 113	90
1,1-Dichloroethene	85
Acetone	71
2-Propanol	82
Carbon Disulfide	90
3-Chloropropene	87
Methylene Chloride	84
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	89
Hexane	94
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	93
Tetrahydrofuran	89
Chloroform	88
1,1,1-Trichloroethane	93
Cyclohexane	86
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	88
Benzene	97
1,2-Dichloroethane	100
Heptane	104
Trichloroethene	102
1,2-Dichloropropane	92
1,4-Dioxane	108
Bromodichloromethane	99
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	96
Tetrachloroethene	102
2-Hexanone	94

Client Sample ID: CCV

Lab ID#: 1504139-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/13/15 07:58 AM

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	100
Chlorobenzene	90
Ethyl Benzene	98
m,p-Xylene	99
o-Xylene	99
Styrene	107
Bromoform	100
Cumene	102
1,1,2,2-Tetrachloroethane	90
Propylbenzene	97
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	87

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1504139-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/13/15 08:48 AM

Compound	%Recovery	Method Limits
Freon 12	102	70-130
Freon 114	110	70-130
Chloromethane	93	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	93	70-130
Bromomethane	90	70-130
Chloroethane	91	70-130
Freon 11	95	70-130
Ethanol	82	70-130
Freon 113	92	70-130
1,1-Dichloroethene	96	70-130
Acetone	78	70-130
2-Propanol	96	70-130
Carbon Disulfide	83	70-130
3-Chloropropene	89	70-130
Methylene Chloride	91	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	86	70-130
Hexane	101	70-130
1,1-Dichloroethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
cis-1,2-Dichloroethene	111	70-130
Tetrahydrofuran	94	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	107	70-130
1,2-Dichloroethane	113	70-130
Heptane	110	70-130
Trichloroethene	112	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	113	70-130
cis-1,3-Dichloropropene	97	70-130
4-Methyl-2-pentanone	109	70-130
Toluene	107	70-130
trans-1,3-Dichloropropene	100	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	110	70-130
2-Hexanone	108	70-130

Client Sample ID: LCS

Lab ID#: 1504139-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/13/15 08:48 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	109	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	105	70-130
m,p-Xylene	106	70-130
o-Xylene	109	70-130
Styrene	117	70-130
Bromoform	111	70-130
Cumene	110	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	114	70-130
1,3,5-Trimethylbenzene	114	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	109	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	107	70-130
1,2,4-Trichlorobenzene	104	70-130
Hexachlorobutadiene	92	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1504139-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041305	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/13/15 09:30 AM

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Freon 114	116	70-130
Chloromethane	100	70-130
Vinyl Chloride	106	70-130
1,3-Butadiene	99	70-130
Bromomethane	96	70-130
Chloroethane	100	70-130
Freon 11	99	70-130
Ethanol	90	70-130
Freon 113	98	70-130
1,1-Dichloroethene	99	70-130
Acetone	80	70-130
2-Propanol	102	70-130
Carbon Disulfide	82	70-130
3-Chloropropene	95	70-130
Methylene Chloride	96	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	106	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	118	70-130
Tetrahydrofuran	98	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	105	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	107	70-130
1,2-Dichloroethane	110	70-130
Heptane	110	70-130
Trichloroethene	113	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	112	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	106	70-130
Toluene	107	70-130
trans-1,3-Dichloropropene	103	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	114	70-130
2-Hexanone	116	70-130

Client Sample ID: LCSD

Lab ID#: 1504139-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e041305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/13/15 09:30 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	115	70-130
1,2-Dibromoethane (EDB)	118	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	114	70-130
o-Xylene	115	70-130
Styrene	123	70-130
Bromoform	115	70-130
Cumene	116	70-130
1,1,2,2-Tetrachloroethane	102	70-130
Propylbenzene	112	70-130
4-Ethyltoluene	119	70-130
1,3,5-Trimethylbenzene	121	70-130
1,2,4-Trimethylbenzene	113	70-130
1,3-Dichlorobenzene	115	70-130
1,4-Dichlorobenzene	113	70-130
alpha-Chlorotoluene	118	70-130
1,2-Dichlorobenzene	114	70-130
1,2,4-Trichlorobenzene	117	70-130
Hexachlorobutadiene	103	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130