



Air Toxics

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Michael Paris

Collected by: (Print and Sign) Dan Pelikan

Company MO DNR Email Michael.Paris@dmr.mo.gov

Address PO Box 176 City Jefferson State MO Zip 65702

Phone (573) 526-3918 Fax _____

Project Info:

P.O. # 953400007

Project # _____

Project Name Bridgeton Landfill

Turn Around Time:

Normal

Rush

Lab Use Only

Pressurized by: _____

Date: _____

Pressurization Gas: _____

specify N₂ 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)
01A	U1 (153075)	661291	7/23/15	10:02-14:53	To-15	-30	-8	
02A	U2 (153076)	4344	7/23/15	10:14-14:58	To-15	-30	-8	
03A	D1 (153077)	34313	7/23/15	10:35-15:04	To-15	-30	-9	
04A	D2 (153078)	24479	7/23/15	10:38-15:11	To-15	-30	-8	

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time	Notes:
<u>Dan Pelikan</u>	7-24-15 8:18	<u>Michael Paris</u>	7/24/15 0818	Shipped via UPS
<u>Michael Paris</u>	7/21/15 1246	<u>WHEAT</u>	7/21/15 1045	Tracking # 1Z6727880343364265

Lab Use Only

Shipper Name UPS Air Bill # _____ Temp (°C) N/A Condition Good Custody Seals Intact? Yes No None Work Order # 1507520

8/13/2015

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

Jefferson City MO 65109

Project Name: Bridgeton Landfill

Project #:

Workorder #: 1507520

Dear Mr. Dennis Schroeder

The following report includes the data for the above referenced project for sample(s) received on 7/31/2015 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 #: 1507520

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:	07/31/2015	CONTACT:	Brian Whittaker
DATE COMPLETED:	08/13/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	U1 (153075)	Modified TO-15	7.6 "Hg	4.8 psi
02A	U2 (153076)	Modified TO-15	7.8 "Hg	5.1 psi
03A	D1 (153077)	Modified TO-15	8 "Hg	4.7 psi
04A	D2 (153078)	Modified TO-15	5.9 "Hg	4.7 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: 08/13/15

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# 1507520

Four 6 Liter Summa Canister (100% Certified) samples were received on July 31, 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	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	$\leq 30\%$ RSD with 4 compounds allowed out to $< 40\%$ RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

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

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

Client Sample ID: U1 (153075)

Lab ID#: 1507520-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.41	0.88	2.0
Freon 11	0.18	0.20	0.99	1.1
Ethanol	0.88	5.4	1.7	10
Acetone	0.88	11	2.1	27
2-Butanone (Methyl Ethyl Ketone)	0.88	1.4	2.6	4.2
Toluene	0.18	0.23	0.67	0.85

Client Sample ID: U2 (153076)

Lab ID#: 1507520-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.40	0.90	2.0
Freon 11	0.18	0.19	1.0	1.0
Ethanol	0.91	3.5	1.7	6.6
Acetone	0.91	4.3	2.2	10
Toluene	0.18	0.18	0.68	0.68

Client Sample ID: D1 (153077)

Lab ID#: 1507520-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.46	0.89	2.3
Freon 11	0.18	0.23	1.0	1.3
Ethanol	0.90	5.9	1.7	11
Acetone	0.90	9.0	2.1	21
Hexane	0.18	0.63	0.63	2.2
2-Butanone (Methyl Ethyl Ketone)	0.90	1.6	2.6	4.8
Cyclohexane	0.18	0.52	0.62	1.8
Heptane	0.18	0.23	0.74	0.93
Toluene	0.18	6.4	0.68	24

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

Client Sample ID: D2 (153078)

Lab ID#: 1507520-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.81	2.1
Freon 11	0.16	0.22	0.92	1.2
Ethanol	0.82	17	1.5	32
Acetone	0.82	80 E	1.9	190 E
2-Propanol	0.82	37	2.0	91
Methylene Chloride	0.33	0.87	1.1	3.0
Hexane	0.16	1.0	0.58	3.6
2-Butanone (Methyl Ethyl Ketone)	0.82	15	2.4	45
Cyclohexane	0.16	0.70	0.56	2.4
Heptane	0.16	0.38	0.67	1.6
4-Methyl-2-pentanone	0.16	0.50	0.67	2.0
Toluene	0.16	15	0.62	56
Ethyl Benzene	0.16	1.3	0.71	5.5
m,p-Xylene	0.16	4.0	0.71	17
o-Xylene	0.16	1.0	0.71	4.4
Styrene	0.16	0.29	0.70	1.2
4-Ethyltoluene	0.16	0.24	0.81	1.2
1,2,4-Trimethylbenzene	0.16	0.27	0.81	1.4



Air Toxics

Client Sample ID: U1 (153075)

Lab ID#: 1507520-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080518	Date of Collection:	7/23/15 2:53:00 PM
Dil. Factor:	1.77	Date of Analysis:	8/5/15 08:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.41	0.88	2.0
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	0.20	0.99	1.1
Ethanol	0.88	5.4	1.7	10
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Acetone	0.88	11	2.1	27
2-Propanol	0.88	Not Detected	2.2	Not Detected
Carbon Disulfide	0.88	Not Detected	2.8	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	0.64	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	1.4	2.6	4.2
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	Not Detected	0.56	Not Detected
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	0.85
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: U1 (153075)

Lab ID#: 1507520-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080518	Date of Collection: 7/23/15 2:53:00 PM
Dil. Factor:	1.77	Date of Analysis: 8/5/15 08:37 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 UJ	6.6	Not Detected UJ
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	106	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: U2 (153076)

Lab ID#: 1507520-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080520	Date of Collection:	7/23/15 2:58:00 PM
Dil. Factor:	1.82	Date of Analysis:	8/5/15 10:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.40	0.90	2.0
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	3.5	1.7	6.6
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Acetone	0.91	4.3	2.2	10
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	0.18	0.68	0.68
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 (153076)

Lab ID#: 1507520-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080520	Date of Collection:	7/23/15 2:58:00 PM
Dil. Factor:	1.82	Date of Analysis:	8/5/15 10:14 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 UJ	6.8	Not Detected UJ
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	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: D1 (153077)

Lab ID#: 1507520-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081109	Date of Collection:	7/23/15 3:04:00 PM
Dil. Factor:	1.80	Date of Analysis:	8/11/15 05:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.46	0.89	2.3
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.90	Not Detected	1.8	Not Detected
Vinyl Chloride	0.18	Not Detected	0.46	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.18	0.23	1.0	1.3
Ethanol	0.90	5.9	1.7	11
Freon 113	0.18	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Acetone	0.90	9.0	2.1	21
2-Propanol	0.90	Not Detected	2.2	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.65	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Hexane	0.18	0.63	0.63	2.2
1,1-Dichloroethane	0.18	Not Detected	0.73	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.6	2.6	4.8
cis-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.88	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Cyclohexane	0.18	0.52	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	Not Detected	0.58	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.73	Not Detected
Heptane	0.18	0.23	0.74	0.93
Trichloroethene	0.18	Not Detected	0.97	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.83	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	6.4	0.68	24
trans-1,3-Dichloropropene	0.18	Not Detected	0.82	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	0.98	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected



Client Sample ID: D1 (153077)

Lab ID#: 1507520-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081109	Date of Collection: 7/23/15 3:04:00 PM
Dil. Factor:	1.80	Date of Analysis: 8/11/15 05:12 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	0.83	Not Detected
Ethyl Benzene	0.18	Not Detected	0.78	Not Detected
m,p-Xylene	0.18	Not Detected	0.78	Not Detected
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	0.88	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.88	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.7	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	117	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: D2 (153078)

Lab ID#: 1507520-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081110	Date of Collection:	7/23/15 3:11:00 PM
Dil. Factor:	1.64	Date of Analysis:	8/11/15 06:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.81	2.1
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.22	0.92	1.2
Ethanol	0.82	17	1.5	32
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	80 E	1.9	190 E
2-Propanol	0.82	37	2.0	91
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	0.87	1.1	3.0
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Hexane	0.16	1.0	0.58	3.6
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	15	2.4	45
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Cyclohexane	0.16	0.70	0.56	2.4
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Benzene	0.16	Not Detected	0.52	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Heptane	0.16	0.38	0.67	1.6
Trichloroethene	0.16	Not Detected	0.88	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	0.50	0.67	2.0
Toluene	0.16	15	0.62	56
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected

Client Sample ID: D2 (153078)

Lab ID#: 1507520-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081110	Date of Collection:	7/23/15 3:11:00 PM
Dil. Factor:	1.64	Date of Analysis:	8/11/15 06:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Ethyl Benzene	0.16	1.3	0.71	5.5
m,p-Xylene	0.16	4.0	0.71	17
o-Xylene	0.16	1.0	0.71	4.4
Styrene	0.16	0.29	0.70	1.2
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	0.24	0.81	1.2
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	0.27	0.81	1.4
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

E = Exceeds instrument calibration range.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507520-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080510	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/5/15 01:15 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#: 1507520-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080510	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 01:15 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 UJ	3.7	Not Detected UJ
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	106	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507520-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081108	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/11/15 04:14 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	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#: 1507520-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081108	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/15 04:14 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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507520-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 07:35 AM

Compound	%Recovery
Freon 12	90
Freon 114	94
Chloromethane	102
Vinyl Chloride	98
1,3-Butadiene	90
Bromomethane	94
Chloroethane	92
Freon 11	88
Ethanol	100
Freon 113	88
1,1-Dichloroethene	87
Acetone	84
2-Propanol	98
Carbon Disulfide	90
3-Chloropropene	89
Methylene Chloride	92
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	90
Hexane	107
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	93
Tetrahydrofuran	100
Chloroform	95
1,1,1-Trichloroethane	96
Cyclohexane	104
Carbon Tetrachloride	66 Q
2,2,4-Trimethylpentane	100
Benzene	90
1,2-Dichloroethane	86
Heptane	92
Trichloroethene	77
1,2-Dichloropropane	83
1,4-Dioxane	81
Bromodichloromethane	81
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	90
Toluene	87
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	81
Tetrachloroethene	78
2-Hexanone	99



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507520-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 07:35 AM

Compound	%Recovery
Dibromochloromethane	82
1,2-Dibromoethane (EDB)	84
Chlorobenzene	85
Ethyl Benzene	86
m,p-Xylene	85
o-Xylene	89
Styrene	90
Bromoform	80
Cumene	88
1,1,2,2-Tetrachloroethane	87
Propylbenzene	85
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	84
1,3-Dichlorobenzene	76
1,4-Dichlorobenzene	80
alpha-Chlorotoluene	84
1,2-Dichlorobenzene	81
1,2,4-Trichlorobenzene	68 Q
Hexachlorobutadiene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507520-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/15 12:32 PM

Compound	%Recovery
Freon 12	108
Freon 114	114
Chloromethane	125
Vinyl Chloride	119
1,3-Butadiene	110
Bromomethane	110
Chloroethane	118
Freon 11	109
Ethanol	123
Freon 113	98
1,1-Dichloroethene	107
Acetone	104
2-Propanol	118
Carbon Disulfide	107
3-Chloropropene	102
Methylene Chloride	111
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	100
Hexane	125
1,1-Dichloroethane	120
2-Butanone (Methyl Ethyl Ketone)	120
cis-1,2-Dichloroethene	112
Tetrahydrofuran	150 Q
Chloroform	113
1,1,1-Trichloroethane	117
Cyclohexane	114
Carbon Tetrachloride	77
2,2,4-Trimethylpentane	119
Benzene	112
1,2-Dichloroethane	117
Heptane	117
Trichloroethene	96
1,2-Dichloropropane	115
1,4-Dioxane	100
Bromodichloromethane	101
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	122
Toluene	104
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	105
Tetrachloroethene	96
2-Hexanone	126



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507520-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/15 12:32 PM

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	106
Chlorobenzene	108
Ethyl Benzene	109
m,p-Xylene	107
o-Xylene	114
Styrene	114
Bromoform	98
Cumene	116
1,1,2,2-Tetrachloroethane	119
Propylbenzene	112
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	97

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1507520-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 09:10 AM

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	107	70-130
Chloromethane	98	70-130
Vinyl Chloride	103	70-130
1,3-Butadiene	89	70-130
Bromomethane	96	70-130
Chloroethane	98	70-130
Freon 11	90	70-130
Ethanol	112	70-130
Freon 113	89	70-130
1,1-Dichloroethene	95	70-130
Acetone	91	70-130
2-Propanol	103	70-130
Carbon Disulfide	80	70-130
3-Chloropropene	87	70-130
Methylene Chloride	96	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	80	70-130
Hexane	108	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	104	70-130
Chloroform	97	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	108	70-130
2,2,4-Trimethylpentane	99	70-130
Benzene	100	70-130
1,2-Dichloroethane	101	70-130
Heptane	108	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	99	70-130
1,4-Dioxane	92	70-130
Bromodichloromethane	96	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	102	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	95	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	91	70-130
2-Hexanone	102	70-130

Client Sample ID: LCS

Lab ID#: 1507520-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 09:10 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	99	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	100	70-130
o-Xylene	107	70-130
Styrene	109	70-130
Bromoform	101	70-130
Cumene	106	70-130
1,1,2,2-Tetrachloroethane	110	70-130
Propylbenzene	105	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	104	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	99	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	91	70-130
Hexachlorobutadiene	97	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1507520-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 09:52 AM

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	104	70-130
Chloromethane	101	70-130
Vinyl Chloride	101	70-130
1,3-Butadiene	92	70-130
Bromomethane	99	70-130
Chloroethane	104	70-130
Freon 11	94	70-130
Ethanol	115	70-130
Freon 113	89	70-130
1,1-Dichloroethene	91	70-130
Acetone	92	70-130
2-Propanol	103	70-130
Carbon Disulfide	79	70-130
3-Chloropropene	87	70-130
Methylene Chloride	97	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	82	70-130
Hexane	109	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	100	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	105	70-130
Carbon Tetrachloride	107	70-130
2,2,4-Trimethylpentane	99	70-130
Benzene	101	70-130
1,2-Dichloroethane	101	70-130
Heptane	108	70-130
Trichloroethene	90	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	91	70-130
Bromodichloromethane	92	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	99	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	95	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	92	70-130
2-Hexanone	100	70-130

Client Sample ID: LCSD

Lab ID#: 1507520-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e080505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/5/15 09:52 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	97	70-130
1,2-Dibromoethane (EDB)	96	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	98	70-130
o-Xylene	106	70-130
Styrene	106	70-130
Bromoform	100	70-130
Cumene	106	70-130
1,1,2,2-Tetrachloroethane	109	70-130
Propylbenzene	102	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	98	70-130
1,2,4-Trimethylbenzene	102	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	98	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	88	70-130
Hexachlorobutadiene	95	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1507520-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/15 01:14 PM

Compound	%Recovery	Method Limits
Freon 12	99	70-130
Freon 114	112	70-130
Chloromethane	112	70-130
Vinyl Chloride	107	70-130
1,3-Butadiene	102	70-130
Bromomethane	102	70-130
Chloroethane	110	70-130
Freon 11	99	70-130
Ethanol	116	70-130
Freon 113	86	70-130
1,1-Dichloroethene	88	70-130
Acetone	102	70-130
2-Propanol	110	70-130
Carbon Disulfide	83	70-130
3-Chloropropene	91	70-130
Methylene Chloride	97	70-130
Methyl tert-butyl ether	95	70-130
trans-1,2-Dichloroethene	78	70-130
Hexane	114	70-130
1,1-Dichloroethane	105	70-130
2-Butanone (Methyl Ethyl Ketone)	105	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	136 Q	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	104	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	110	70-130
2,2,4-Trimethylpentane	110	70-130
Benzene	99	70-130
1,2-Dichloroethane	103	70-130
Heptane	112	70-130
Trichloroethene	89	70-130
1,2-Dichloropropane	100	70-130
1,4-Dioxane	91	70-130
Bromodichloromethane	94	70-130
cis-1,3-Dichloropropene	94	70-130
4-Methyl-2-pentanone	106	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	93	70-130
2-Hexanone	100	70-130

Client Sample ID: LCS

Lab ID#: 1507520-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/15 01:14 PM

Compound	%Recovery	Method Limits
Dibromochloromethane	97	70-130
1,2-Dibromoethane (EDB)	96	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	98	70-130
o-Xylene	105	70-130
Styrene	104	70-130
Bromoform	95	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	111	70-130
Propylbenzene	102	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	96	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3-Dichlorobenzene	92	70-130
1,4-Dichlorobenzene	94	70-130
alpha-Chlorotoluene	103	70-130
1,2-Dichlorobenzene	97	70-130
1,2,4-Trichlorobenzene	87	70-130
Hexachlorobutadiene	93	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1507520-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081106	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/11/15 01:57 PM

Compound	%Recovery	Method Limits
Freon 12	101	70-130
Freon 114	109	70-130
Chloromethane	115	70-130
Vinyl Chloride	113	70-130
1,3-Butadiene	104	70-130
Bromomethane	102	70-130
Chloroethane	115	70-130
Freon 11	103	70-130
Ethanol	122	70-130
Freon 113	90	70-130
1,1-Dichloroethene	100	70-130
Acetone	109	70-130
2-Propanol	118	70-130
Carbon Disulfide	86	70-130
3-Chloropropene	93	70-130
Methylene Chloride	106	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	86	70-130
Hexane	119	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	114	70-130
cis-1,2-Dichloroethene	114	70-130
Tetrahydrofuran	113	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	108	70-130
Carbon Tetrachloride	111	70-130
2,2,4-Trimethylpentane	111	70-130
Benzene	102	70-130
1,2-Dichloroethane	99	70-130
Heptane	111	70-130
Trichloroethene	88	70-130
1,2-Dichloropropane	100	70-130
1,4-Dioxane	85	70-130
Bromodichloromethane	94	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	106	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	87	70-130
2-Hexanone	99	70-130

Client Sample ID: LCSD

Lab ID#: 1507520-07BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e081106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/15 01:57 PM

Compound	%Recovery	Method Limits
Dibromochloromethane	97	70-130
1,2-Dibromoethane (EDB)	93	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	93	70-130
o-Xylene	104	70-130
Styrene	103	70-130
Bromoform	96	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	109	70-130
Propylbenzene	101	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	88	70-130
1,4-Dichlorobenzene	95	70-130
alpha-Chlorotoluene	101	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	85	70-130
Hexachlorobutadiene	97	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130