

9/19/2018

Mr. Peter Langtry
Cornerstone Earth Group
1220 Oakland Boulevard
Suite 220
Walnut Creek CA 94596

Project Name: 3141-3155 El Camino Real, Santa Clara
Project #: 958-4-1
Workorder #: 1809292A

Dear Mr. Peter Langtry

The following report includes the data for the above referenced project for sample(s) received on 9/18/2018 at Air Toxics Ltd.

The data and associated QC analyzed by 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Sarah Westerman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Sarah Westerman
Project Manager

WORK ORDER #: 1809292A

Work Order Summary

CLIENT: Mr. Peter Langtry
 Cornerstone Earth Group
 1220 Oakland Boulevard
 Suite 220
 Walnut Creek, CA 94596

BILL TO: Accounts Payable
 Cornerstone Earth Group
 1259 Oakmead Parkway
 Sunnyvale, CA 94085

PHONE: 925-988-9500

P.O. #

FAX:

PROJECT # 958-4-1 3141-3155 El Camino Real,

DATE RECEIVED: 09/18/2018

CONTACT: Santa Clara
 Sarah Westerman

DATE COMPLETED: 09/19/2018

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SV-2Ad13.1	TO-15	5.7 "Hg	14.6 psi
02A	SV-7Ad12.7	TO-15	5.1 "Hg	15.5 psi
03A	SV-10Ad13.0	TO-15	4.9 "Hg	14.9 psi
04A	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA

CERTIFIED BY:



Technical Director

DATE: 09/19/18

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

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
EPA Method TO-15
Cornerstone Earth Group
Workorder# 1809292A

Three 1 Liter Summa Canister samples were received on September 18, 2018. The laboratory performed analysis via 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.

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

Ten 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.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

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

Client Sample ID: SV-2Ad13.1

Lab ID#: 1809292A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	7.9	6.1	39
Acetone	12	14	29	32
Chloroform	1.2	2.6	6.0	13
Benzene	1.2	1.5	3.9	4.8
4-Methyl-2-pentanone	1.2	1.9	5.0	7.8
Toluene	1.2	24	4.6	89
Tetrachloroethene	1.2	27	8.3	190
m,p-Xylene	1.2	2.5	5.3	11
1,2,4-Trimethylbenzene	1.2	1.5	6.0	7.5

Client Sample ID: SV-7Ad12.7

Lab ID#: 1809292A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	6.3	6.1	31
Chloroform	1.2	2.5	6.0	12
4-Methyl-2-pentanone	1.2	1.8	5.1	7.2
Toluene	1.2	1.4	4.7	5.5
Tetrachloroethene	1.2	42	8.4	280

Client Sample ID: SV-10Ad13.0

Lab ID#: 1809292A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	5.6	6.0	28
Chloroform	1.2	1.5	5.9	7.3
Toluene	1.2	1.5	4.5	5.5
Tetrachloroethene	1.2	22	8.2	150
m,p-Xylene	1.2	1.7	5.2	7.6



Air Toxics

Client Sample ID: SV-2Ad13.1

Lab ID#: 1809292A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091820	Date of Collection:	9/16/18 2:23:00 PM
Dil. Factor:	2.46	Date of Analysis:	9/18/18 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	7.9	6.1	39
Freon 114	1.2	Not Detected	8.6	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Ethanol	4.9	Not Detected	9.3	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	14	29	32
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected UJ	15	Not Detected UJ
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	4.9	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	2.6	6.0	13
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.7	Not Detected
Benzene	1.2	1.5	3.9	4.8
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	1.9	5.0	7.8
Toluene	1.2	24	4.6	89
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	27	8.3	190
2-Hexanone	4.9	Not Detected	20	Not Detected

Client Sample ID: SV-2Ad13.1

Lab ID#: 1809292A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091820	Date of Collection:	9/16/18 2:23:00 PM
Dil. Factor:	2.46	Date of Analysis:	9/18/18 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	2.5	5.3	11
o-Xylene	1.2	Not Detected	5.3	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.0	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
Propylbenzene	1.2	Not Detected	6.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	1.5	6.0	7.5
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: SV-7Ad12.7

Lab ID#: 1809292A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091821	Date of Collection:	9/16/18 2:59:00 PM
Dil. Factor:	2.48	Date of Analysis:	9/18/18 09:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	6.3	6.1	31
Freon 114	1.2	Not Detected	8.7	Not Detected
Chloromethane	12	Not Detected	26	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	48	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	7.0	Not Detected
Ethanol	5.0	Not Detected	9.3	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	15	Not Detected
3-Chloropropene	5.0	Not Detected UJ	16	Not Detected UJ
Methylene Chloride	12	Not Detected	43	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	2.5	6.0	12
1,1,1-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Cyclohexane	1.2	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	Not Detected	6.7	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	1.8	5.1	7.2
Toluene	1.2	1.4	4.7	5.5
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.8	Not Detected
Tetrachloroethene	1.2	42	8.4	280
2-Hexanone	5.0	Not Detected	20	Not Detected

Client Sample ID: SV-7Ad12.7

Lab ID#: 1809292A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091821	Date of Collection:	9/16/18 2:59:00 PM
Dil. Factor:	2.48	Date of Analysis:	9/18/18 09:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	53	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SV-10Ad13.0

Lab ID#: 1809292A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091822	Date of Collection:	9/16/18 3:38:00 PM
Dil. Factor:	2.41	Date of Analysis:	9/18/18 10:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	5.6	6.0	28
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected UJ	15	Not Detected UJ
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	1.5	5.9	7.3
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	1.5	4.5	5.5
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	22	8.2	150
2-Hexanone	4.8	Not Detected	20	Not Detected

Client Sample ID: SV-10Ad13.0

Lab ID#: 1809292A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091822	Date of Collection:	9/16/18 3:38:00 PM
Dil. Factor:	2.41	Date of Analysis:	9/18/18 10:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	1.7	5.2	7.6
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1809292A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091806	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/18/18 12:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected UJ	6.3	Not Detected UJ
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1809292A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091806	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/18/18 12:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: CCV

Lab ID#: 1809292A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/18/18 09:22 AM

Compound	%Recovery
Freon 12	91
Freon 114	95
Chloromethane	80
Vinyl Chloride	78
1,3-Butadiene	82
Bromomethane	87
Chloroethane	71
Freon 11	98
Ethanol	73
Freon 113	94
1,1-Dichloroethene	74
Acetone	76
2-Propanol	72
Carbon Disulfide	71
3-Chloropropene	68 Q
Methylene Chloride	81
Methyl tert-butyl ether	75
trans-1,2-Dichloroethene	79
Hexane	74
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	74
cis-1,2-Dichloroethene	84
Tetrahydrofuran	79
Chloroform	87
1,1,1-Trichloroethane	96
Cyclohexane	77
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	83
Benzene	89
1,2-Dichloroethane	104
Heptane	84
Trichloroethene	100
1,2-Dichloropropane	95
1,4-Dioxane	95
Bromodichloromethane	101
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	94
Toluene	99
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	95
Tetrachloroethene	108
2-Hexanone	88

Client Sample ID: CCV

Lab ID#: 1809292A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/18/18 09:22 AM

Compound	%Recovery
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	101
Chlorobenzene	101
Ethyl Benzene	94
m,p-Xylene	92
o-Xylene	93
Styrene	95
Bromoform	113
Cumene	98
1,1,2,2-Tetrachloroethane	96
Propylbenzene	96
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	113

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1809292A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/18/18 09:47 AM

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	97	70-130
Chloromethane	83	70-130
Vinyl Chloride	91	70-130
1,3-Butadiene	82	70-130
Bromomethane	88	70-130
Chloroethane	74	70-130
Freon 11	100	70-130
Ethanol	77	70-130
Freon 113	95	70-130
1,1-Dichloroethene	76	70-130
Acetone	77	70-130
2-Propanol	75	70-130
Carbon Disulfide	74	70-130
3-Chloropropene	75	70-130
Methylene Chloride	82	70-130
Methyl tert-butyl ether	76	70-130
trans-1,2-Dichloroethene	88	70-130
Hexane	77	70-130
1,1-Dichloroethane	82	70-130
2-Butanone (Methyl Ethyl Ketone)	80	70-130
cis-1,2-Dichloroethene	79	70-130
Tetrahydrofuran	84	70-130
Chloroform	89	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	80	70-130
Carbon Tetrachloride	108	70-130
2,2,4-Trimethylpentane	87	70-130
Benzene	91	70-130
1,2-Dichloroethane	105	70-130
Heptane	87	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	100	70-130
Bromodichloromethane	107	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	102	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	93	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	112	70-130
2-Hexanone	98	70-130

Client Sample ID: LCS

Lab ID#: 1809292A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/18/18 09:47 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	116	70-130
1,2-Dibromoethane (EDB)	106	70-130
Chlorobenzene	106	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	97	70-130
o-Xylene	99	70-130
Styrene	100	70-130
Bromoform	123	70-130
Cumene	103	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Propylbenzene	102	70-130
4-Ethyltoluene	110	70-130
1,3,5-Trimethylbenzene	111	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	116	70-130
1,4-Dichlorobenzene	119	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	118	70-130
1,2,4-Trichlorobenzene	117	70-130
Hexachlorobutadiene	123	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: LCSD

Lab ID#: 1809292A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/18/18 10:12 AM

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	97	70-130
Chloromethane	83	70-130
Vinyl Chloride	81	70-130
1,3-Butadiene	82	70-130
Bromomethane	87	70-130
Chloroethane	74	70-130
Freon 11	99	70-130
Ethanol	72	70-130
Freon 113	94	70-130
1,1-Dichloroethene	77	70-130
Acetone	76	70-130
2-Propanol	74	70-130
Carbon Disulfide	74	70-130
3-Chloropropene	72	70-130
Methylene Chloride	80	70-130
Methyl tert-butyl ether	75	70-130
trans-1,2-Dichloroethene	88	70-130
Hexane	76	70-130
1,1-Dichloroethane	82	70-130
2-Butanone (Methyl Ethyl Ketone)	80	70-130
cis-1,2-Dichloroethene	79	70-130
Tetrahydrofuran	82	70-130
Chloroform	88	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	78	70-130
Carbon Tetrachloride	106	70-130
2,2,4-Trimethylpentane	86	70-130
Benzene	87	70-130
1,2-Dichloroethane	99	70-130
Heptane	86	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	99	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	108	70-130
2-Hexanone	94	70-130

Client Sample ID: LCSD

Lab ID#: 1809292A-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p091804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/18/18 10:12 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	111	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	94	70-130
o-Xylene	96	70-130
Styrene	96	70-130
Bromoform	118	70-130
Cumene	99	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	115	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	114	70-130
1,2,4-Trichlorobenzene	117	70-130
Hexachlorobutadiene	121	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	109	70-130