

12/10/2019
Ms. Jesse Miller
CAMSCO
6732 Mayard

Houston TX 77041

Project Name:
Project #:
Workorder #: 1912129

Dear Ms. Jesse Miller

The following report includes the data for the above referenced project for sample(s) received on 12/6/2019 at Air Toxics Ltd.

The data and associated QC analyzed by EPA Method 325B 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: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Ausha Scott
Project Manager

WORK ORDER #: 1912129

Work Order Summary

CLIENT: Ms. Jesse Miller
 CAMSCO
 6732 Mayard
 Houston, TX 77041

BILL TO: Mr. Jason Robles
 CAMSCO
 6732 Mayard
 Houston, TX 77041

PHONE: 713-983-0200

P.O. #

FAX:

PROJECT #

DATE RECEIVED: 12/06/2019

CONTACT: Ausha Scott

DATE COMPLETED: 12/10/2019

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	1117858-01-010-R	EPA Method 325B
02A	1117864-01-010-D	EPA Method 325B
03A	1117870-02-010-R	EPA Method 325B
04A	1117873-03-010-R	EPA Method 325B
05A	1117883-04-010-R	EPA Method 325B
06A	1117894-05-010-R	EPA Method 325B
07A	1117905-06-010-R	EPA Method 325B
08A	1117908-06-010-B	EPA Method 325B
09A	1117922-07-010-R	EPA Method 325B
10A	1117923-08-010-R	EPA Method 325B
11A	1117931-09-010-R	EPA Method 325B
12A	1117943-10-010-R	EPA Method 325B
13A	1117960-11-010-R	EPA Method 325B
14A	1117962-12-010-R	EPA Method 325B
15A	1117986-13-010-R	EPA Method 325B
16A	Lab Blank	EPA Method 325B
17A	CCV	EPA Method 325B
17B	CCV	EPA Method 325B
17C	CCV	EPA Method 325B

CERTIFIED BY: 

DATE: 12/10/19

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
ATM EPA 325B
CAMSCO
Workorder# 1912129

Fifteen Carbopack X CAMSCO samples were received on December 06, 2019. The laboratory performed the analysis via EPA Method 325B using GC/MS in the full scan mode.

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the uptake rate for each VOC. Uptake rates are adjusted for local conditions and concentrations are reported based on normal ambient temperature and pressure conditions (25 deg C and 760 mm Hg) following EPA-approved calculations in Alternative Test Method 122. These adjustments are reflected in the dilution factor.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The field duplicate pair 1117858-01-010-R and 1117864-01-010-D exceeded the method required 30%RPD criterion with a precision of 31 %RPD. As required by the method, associated sample results from the monitoring period are qualified to indicate method precision was not met. The data qualifier "Pc" was applied to indicate that the sample concentrations in this field duplicate pair were less than 2 times the reporting limit which likely influenced the measured precision.

Definition of Data Qualifying Flags

The following qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte (background subtraction not performed).
- J - Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the MDL value.
- I - Internal Standard recovery outside acceptance limits
- P - Field Duplicate(s) exceed 30%RPD
- Pc- Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.
- PI - Field Duplicate(s) exceed 30%RPD, lab error noted.
- L - Recovery of bracketing CCV(s) exceeded acceptance limits.
- H - Sample analyzed outside of method hold time.
- D - Sample duration outside 14+/-1 days
- Fe - Field Error or discrepancy
- Te - Tube Error or discrepancy
- CN - See case narrative explanation.

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 325B GC/MS FULL SCAN**

Client Sample ID: 1117858-01-010-R

Lab ID#: 1912129-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	2.3
Toluene	0.50	0.99
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.38 JPC
o-Xylene	0.56	0.28 U

Client Sample ID: 1117864-01-010-D

Lab ID#: 1912129-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	2.2
Toluene	0.50	0.89
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 JPC
o-Xylene	0.56	0.28 U

Client Sample ID: 1117870-02-010-R

Lab ID#: 1912129-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	1.7
Toluene	0.50	0.86
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117873-03-010-R

Lab ID#: 1912129-04A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.93
Toluene	0.50	0.58

Summary of Detected Compounds EPA METHOD 325B GC/MS FULL SCAN

Client Sample ID: 1117873-03-010-R

Lab ID#: 1912129-04A

Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117883-04-010-R

Lab ID#: 1912129-05A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	1.1
Toluene	0.50	0.70
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117894-05-010-R

Lab ID#: 1912129-06A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.97
Toluene	0.50	0.60
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117905-06-010-R

Lab ID#: 1912129-07A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	1.2
Toluene	0.50	0.66
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

**Summary of Detected Compounds
EPA METHOD 325B GC/MS FULL SCAN**

Client Sample ID: 1117908-06-010-B

Lab ID#: 1912129-08A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.19 U
Toluene	0.50	0.25 U
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117922-07-010-R

Lab ID#: 1912129-09A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.84
Toluene	0.50	0.59
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117923-08-010-R

Lab ID#: 1912129-10A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.55
Toluene	0.50	0.38 J
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117931-09-010-R

Lab ID#: 1912129-11A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.62
Toluene	0.50	0.35 J

Summary of Detected Compounds EPA METHOD 325B GC/MS FULL SCAN

Client Sample ID: 1117931-09-010-R

Lab ID#: 1912129-11A

Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117943-10-010-R

Lab ID#: 1912129-12A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.63
Toluene	0.50	0.49 J
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117960-11-010-R

Lab ID#: 1912129-13A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.72
Toluene	0.50	0.54
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Client Sample ID: 1117962-12-010-R

Lab ID#: 1912129-14A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.80
Toluene	0.50	0.50
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

Summary of Detected Compounds
EPA METHOD 325B GC/MS FULL SCAN

Client Sample ID: 1117986-13-010-R

Lab ID#: 1912129-15A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.53
Toluene	0.50	0.52
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U



Air Toxics

Client Sample ID: 1117858-01-010-R

Lab ID#: 1912129-01A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120730	Date of Collection:	12/4/19 2:01:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/7/19 10:53 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	2.3
Toluene	0.50	0.99
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.38 JPC
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

J = Estimated value.

Pc- Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117864-01-010-D

Lab ID#: 1912129-02A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120731	Date of Collection:	12/4/19 2:01:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/7/19 11:21 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	2.2
Toluene	0.50	0.89
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 JPC
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

J = Estimated value.

Pc- Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

Container Type: Carbopack X CAMSCO

Client Sample ID: 1117870-02-010-R

Lab ID#: 1912129-03A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120732	Date of Collection:	12/4/19 2:41:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/7/19 11:50 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	1.7
Toluene	0.50	0.86
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO

Client Sample ID: 1117873-03-010-R

Lab ID#: 1912129-04A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120733	Date of Collection:	12/4/19 2:44:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 12:18 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.93
Toluene	0.50	0.58
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO

Client Sample ID: 1117883-04-010-R

Lab ID#: 1912129-05A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120734	Date of Collection:	12/4/19 2:46:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 12:46 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	1.1
Toluene	0.50	0.70
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117894-05-010-R

Lab ID#: 1912129-06A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120735	Date of Collection:	12/4/19 2:48:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 01:15 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.97
Toluene	0.50	0.60
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117905-06-010-R

Lab ID#: 1912129-07A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120736	Date of Collection:	12/4/19 3:19:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 01:43 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	1.2
Toluene	0.50	0.66
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117908-06-010-B

Lab ID#: 1912129-08A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120729	Date of Collection:	12/4/19 3:19:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/7/19 10:25 PM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.19 U
Toluene	0.50	0.25 U
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117922-07-010-R

Lab ID#: 1912129-09A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120738	Date of Collection:	12/4/19 3:22:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 02:34 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.84
Toluene	0.50	0.59
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117923-08-010-R

Lab ID#: 1912129-10A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120739	Date of Collection:	12/4/19 3:25:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 03:03 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.55
Toluene	0.50	0.38 J
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

J = Estimated value.

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117931-09-010-R

Lab ID#: 1912129-11A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120740	Date of Collection:	12/4/19 3:31:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 03:31 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.62
Toluene	0.50	0.35 J
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

J = Estimated value.

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117943-10-010-R

Lab ID#: 1912129-12A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120741	Date of Collection:	12/4/19 3:10:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 03:59 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.63
Toluene	0.50	0.49 J
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

J = Estimated value.

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117960-11-010-R

Lab ID#: 1912129-13A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120742	Date of Collection:	12/4/19 2:52:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 04:28 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.72
Toluene	0.50	0.54
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117962-12-010-R

Lab ID#: 1912129-14A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120743	Date of Collection:	12/4/19 2:56:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 04:56 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.80
Toluene	0.50	0.50
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: 1117986-13-010-R

Lab ID#: 1912129-15A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120744	Date of Collection:	12/4/19 3:00:00 PM
Dil. Factor:	1.04	Date of Analysis:	12/8/19 05:24 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.38	0.53
Toluene	0.50	0.52
Ethyl Benzene	0.56	0.28 U
m,p-Xylene	0.56	0.28 U
o-Xylene	0.56	0.28 U

U = The analyte was not present above the Method Detection Limit.

Container Type: Carbopack X CAMSCO



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1912129-16A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120704	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	12/7/19 10:39 AM
		Date of Extraction:	NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.37	0.18 U
Toluene	0.48	0.24 U
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

U = The analyte was not present above the Method Detection Limit.

Container Type: NA - Not Applicable

Client Sample ID: CCV

Lab ID#: 1912129-17A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120726	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/19 09:00 PM
		Date of Extraction: NA

Compound	%Recovery
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Benzene	97
Toluene	100
Ethyl Benzene	105
m,p-Xylene	104
o-Xylene	105

Container Type: NA - Not Applicable

Client Sample ID: CCV

Lab ID#: 1912129-17B

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120737	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/8/19 02:06 AM
		Date of Extraction: NA

Compound	%Recovery
Benzene	97
Toluene	98
Ethyl Benzene	100
m,p-Xylene	100
o-Xylene	100

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: CCV

Lab ID#: 1912129-17C

EPA METHOD 325B GC/MS FULL SCAN

File Name:	f120748	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	12/8/19 06:56 AM
		Date of Extraction:	NA

Compound	%Recovery
Benzene	97
Toluene	97
Ethyl Benzene	98
m,p-Xylene	95
o-Xylene	98

Container Type: NA - Not Applicable