eurofins | Air Toxics

1/2/2024
Ms. Cheryl Tophinke
Burns & McDonnell
425 South Wood Mill Road
Suite 300
Chesterfield MO 63017

Project Name: AUS Fuels Fenceline
Project #: 33133.50ENS-SLO.03
Workorder #: 2312376

Dear Ms. Cheryl Tophinke

The following report includes the data for the above referenced project for sample(s) received on 12/18/2023 at Eurofins Air Toxics LLC.

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 LLC. 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: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kathleen Kaneko

Project Manager

eurofins | Air Toxics

WORK ORDER #: 2312376

Work Order Summary

CLIENT:	Ms. Cheryl Tophinke Burns & McDonnell 425 South Wood Mill Road Suite 300 Chesterfield, MO 63017	**BILL TO:**	Accounts Payable-Standard invoicing Burns & McDonnell 9400 Ward Parkway Kansas City, MO 64114
PHONE:	314-682-1653	**P.O. #**	215765
FAX:	314-682-1600	**PROJECT #**	33133.50ENS-SLO.03 AUS Fuels Fenceline
DATE RECEIVED:	12/18/2023	**CONTACT:**	Kathleen Kaneko
DATE COMPLETED:	12/21/2023		

FRACTION #	NAME	TEST
01A	Station-01	EPA Method 325B
02A	Station-02	EPA Method 325B
03A	Station-03	EPA Method 325B
04A	Station-04	EPA Method 325B
05A	Station-05	EPA Method 325B
06A	Duplicate	EPA Method 325B
07A	Field Blank	EPA Method 325B
08A	Lab Blank	EPA Method 325B
09A	CCV	EPA Method 325B
09B	CCV	EPA Method 325B

CERTIFIED BY: Heidi Hayes DATE: 01/02/24

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
ATM EPA 325B
Burns & McDonnell
Workorder# 2312376

Seven Carbopack B CAMSCO samples were received on December 18, 2023. 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 the required calculations in EPA Method 325B. These adjustments are reflected in the dilution factor.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Project specified analytes 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and 1,2,3-Trimethylbenzene are outside the laboratory's NELAP scope of accreditation. The reported concentrations were supported by an initial calibration compliant with EPA 325B and a desorption efficiency verification. A second source verification and a Method Detection Limit (MDL) study were not analyzed. In the absence of MDL values, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and 1,2,3-Trimethylbenzene were evaluated to the Reporting Limit. All other analytes were reported to the MDL per method requirement.

The field duplicate pair Station-05 and Duplicate exceeded the method required 30%RPD criterion with a precision of 44 %RPD for Naphthalene. 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 of the sample and its duplicate 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.

Pl - Field Duplicate(s) exceed 30%RPD, lab anomaly 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

eurofins | Air Toxics

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

Client Sample ID: Station-01

Lab ID#: 2312376-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.92
m,p-Xylene	0.54	3.7
o-Xylene	0.54	1.1
Naphthalene	0.11	0.076 JPC

Client Sample ID: Station-02

Lab ID#: 2312376-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.30 J
m,p-Xylene	0.54	1.2
o-Xylene	0.54	0.38 J
Naphthalene	0.11	0.13 PC

Client Sample ID: Station-03

Lab ID#: 2312376-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.25 U
m,p-Xylene	0.54	0.79
o-Xylene	0.54	0.27 U
Naphthalene	0.11	0.11 PC

Client Sample ID: Station-04

Lab ID#: 2312376-04A

eurofins | Air Toxics

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

Client Sample ID: Station-04

Lab ID#: 2312376-04A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	2.0
Ethyl Benzene	0.51	0.28 J
m,p-Xylene	0.54	1.1
o-Xylene	0.54	0.34 J
Naphthalene	0.11	0.093 JPC

Client Sample ID: Station-05

Lab ID#: 2312376-05A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.3
Toluene	0.45	2.1
Ethyl Benzene	0.51	0.34 J
m,p-Xylene	0.54	1.2
o-Xylene	0.54	0.40 J
Naphthalene	0.11	0.072 JPC

Client Sample ID: Duplicate

Lab ID#: 2312376-06A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.2
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.31 J
m,p-Xylene	0.54	1.2
o-Xylene	0.54	0.38 J
Naphthalene	0.11	0.11 PC

Client Sample ID: Field Blank

Lab ID#: 2312376-07A

eurofins | Air Toxics

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

Client Sample ID: Field Blank

Lab ID#: 2312376-07A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	0.21 J
Toluene	0.45	0.23 U
Ethyl Benzene	0.51	0.25 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U
Naphthalene	0.11	0.068 UPC

eurofins | Air Toxics

Client Sample ID: Station-01

Lab ID#: 2312376-01A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121914**	**Date of Collection: 12/14/23 9:33:00 AM**
Dil. Factor:	**1.02**	**Date of Analysis: 12/19/23 04:30 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.92
m,p-Xylene	0.54	3.7
o-Xylene	0.54	1.1
Naphthalene	0.11	0.076 JPC
1,2,4-Trimethylbenzene	0.57	Not Detected
1,3,5-Trimethylbenzene	0.57	Not Detected
1,2,3-Trimethylbenzene	0.57	Not Detected

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 B CAMSCO

eurofins | Air Toxics

Client Sample ID: Station-02

Lab ID#: 2312376-02A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121915**	**Date of Collection: 12/14/23 9:42:00 AM**
Dil. Factor:	**1.02**	**Date of Analysis: 12/19/23 04:59 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.30 J
m,p-Xylene	0.54	1.2
o-Xylene	0.54	0.38 J
Naphthalene	0.11	0.13 PC
1,2,4-Trimethylbenzene	0.57	Not Detected
1,3,5-Trimethylbenzene	0.57	Not Detected
1,2,3-Trimethylbenzene	0.57	Not Detected

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 B CAMSCO

eurofins | Air Toxics

Client Sample ID: Station-03

Lab ID#: 2312376-03A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121919**	**Date of Collection: 12/14/23 9:03:00 AM**
Dil. Factor:	**1.02**	**Date of Analysis: 12/19/23 06:53 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.25 U
m,p-Xylene	0.54	0.79
o-Xylene	0.54	0.27 U
Naphthalene	0.11	0.11 PC
1,2,4-Trimethylbenzene	0.57	Not Detected
1,3,5-Trimethylbenzene	0.57	Not Detected
1,2,3-Trimethylbenzene	0.57	Not Detected

U = The analyte was not present above the Method Detection Limit.
Pc = Field duplicate(s) exceed 30% RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.
Container Type: Carbopack B CAMSCO

eurofins | Air Toxics

Client Sample ID: Station-04

Lab ID#: 2312376-04A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121920**	**Date of Collection: 12/14/23 9:11:00 AM**
Dil. Factor:	**1.02**	**Date of Analysis: 12/19/23 07:22 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.1
Toluene	0.45	2.0
Ethyl Benzene	0.51	0.28 J
m,p-Xylene	0.54	1.1
o-Xylene	0.54	0.34 J
Naphthalene	0.11	0.093 JPC
1,2,4-Trimethylbenzene	0.57	Not Detected
1,3,5-Trimethylbenzene	0.57	Not Detected
1,2,3-Trimethylbenzene	0.57	Not Detected

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 B CAMSCO

eurofins | Air Toxics

Client Sample ID: Station-05

Lab ID#: 2312376-05A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121921**	**Date of Collection: 12/14/23 9:25:00 AM**
Dil. Factor:	**1.02**	**Date of Analysis: 12/19/23 07:51 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.3
Toluene	0.45	2.1
Ethyl Benzene	0.51	0.34 J
m,p-Xylene	0.54	1.2
o-Xylene	0.54	0.40 J
Naphthalene	0.11	0.072 JPC
1,2,4-Trimethylbenzene	0.57	Not Detected
1,3,5-Trimethylbenzene	0.57	Not Detected
1,2,3-Trimethylbenzene	0.57	Not Detected

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 B CAMSCO

eurofins | Air Toxics

Client Sample ID: Duplicate

Lab ID#: 2312376-06A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121922**	**Date of Collection: 12/14/23 9:26:00 AM**
Dil. Factor:	**1.02**	**Date of Analysis: 12/19/23 08:19 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	1.2
Toluene	0.45	1.9
Ethyl Benzene	0.51	0.31 J
m,p-Xylene	0.54	1.2
o-Xylene	0.54	0.38 J
Naphthalene	0.11	0.11 PC
1,2,4-Trimethylbenzene	0.57	Not Detected
1,3,5-Trimethylbenzene	0.57	Not Detected
1,2,3-Trimethylbenzene	0.57	Not Detected

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 B CAMSCO

eurofins | Air Toxics

Client Sample ID: Field Blank

Lab ID#: 2312376-07A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121913**	**Date of Collection: 12/14/23 9:27:00 AM**
Dil. Factor:	**1.02**	**Date of Analysis: 12/19/23 04:02 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.40	0.21 J
Toluene	0.45	0.23 U
Ethyl Benzene	0.51	0.25 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U
Naphthalene	0.11	0.068 UPC
1,2,4-Trimethylbenzene	0.57	Not Detected
1,3,5-Trimethylbenzene	0.57	Not Detected
1,2,3-Trimethylbenzene	0.57	Not Detected

J = Estimated value.
U = The analyte was not present above the Method Detection Limit.
Pc = Field duplicate(s) exceed 30% RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.
Container Type: Carbopack B CAMSCO

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2312376-08A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/23 11:51 AM**	
		Date of Extraction: NA	

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.39	0.20 U
Toluene	0.44	0.22 U
Ethyl Benzene	0.50	0.25 U
m,p-Xylene	0.53	0.26 U
o-Xylene	0.53	0.26 U
Naphthalene	0.11	0.26 U
1,2,4-Trimethylbenzene	0.56	Not Detected
1,3,5-Trimethylbenzene	0.56	Not Detected
1,2,3-Trimethylbenzene	0.56	Not Detected

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

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2312376-09A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121917**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/23 05:56 PM**
		Date of Extraction: NA

Compound	%Recovery
Benzene	90
Toluene	84
Ethyl Benzene	93
m,p-Xylene	95
o-Xylene	92
Naphthalene	74
1,2,4-Trimethylbenzene	81
1,3,5-Trimethylbenzene	90
1,2,3-Trimethylbenzene	83

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2312376-09B

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f121928**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 12/19/23 11:07 PM**
		Date of Extraction: NA

Compound	%Recovery
Benzene	101
Toluene	104
Ethyl Benzene	98
m,p-Xylene	97
o-Xylene	98
Naphthalene	95
1,2,4-Trimethylbenzene	98
1,3,5-Trimethylbenzene	97
1,2,3-Trimethylbenzene	96

Container Type: NA - Not Applicable