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8/29/2023
Mr. Bryan Engelsen
ERM Northern Division (formerly ERM-North Central)
One Continental Towers
1701 Golf Road, Suite 1-700
Rolling Meadows IL 60008-4242

Project Name: Taylorville MGP
Project #: 0693965
Workorder #: 2308322

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 8/16/2023 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: Joel Tillman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Joel Tillman

Project Manager

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WORK ORDER #: 2308322

Work Order Summary

CLIENT:	Mr. Bryan Engelsen ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700 Rolling Meadows, IL 60008-4242	**BILL TO:**	Accounts Payable ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700
PHONE:	847-258-8991	**P.O. #**	012633-1257
FAX:	847-258-8901	**PROJECT #**	0693965 Taylorville MGP
DATE RECEIVED:	08/16/2023	**CONTACT:**	Joel Tillman
DATE COMPLETED:	08/29/2023		

FRACTION #	NAME	TEST
01A	20230731-0814-SAM1	EPA Method 325B
02A	20230731-0814-SAM2	EPA Method 325B
03A	20230731-0814-SAM3	EPA Method 325B
04A	20230731-0814-SAM4	EPA Method 325B
05A	20230731-0814-SAM5	EPA Method 325B
06A	20230731-0814-SAM6	EPA Method 325B
07A	Lab Blank	EPA Method 325B
08A	CCV	EPA Method 325B
08B	CCV	EPA Method 325B
08C	CCV	EPA Method 325B

CERTIFIED BY: Heidi Hayes DATE: 08/29/23

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.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
ATM EPA 325B
ERM Northern Division (formerly ERM-North Central)
Workorder# 2308322

Six Carbopack X ERM samples were received on August 16, 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

The Chain of Custody (COC) information for sample 20230731-0814-SAM6 did not match the information on the tube with regard to tube identification/barcode. The sample labeled 1181163 on the COC is labeled as 1181663 on the tube. Unless otherwise notified, Eurofins Air Toxics will proceed with the analysis using the information on the tube to process and report the sample.

Analytical Notes

The sample concentrations for Toluene in the field duplicate pair 20230731-0814-SAM5 and 20230731-0814-SAM4 were just above and below the method detection limit (MDL), respectively. In order to evaluate field precision against method criterion of </=30%RPD, the %RPD was calculated using the MDL value for sample 20230731-0814-SAM4. No data qualifier flags were applied to the data set.

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

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

Client Sample ID: 20230731-0814-SAM1

Lab ID#: 2308322-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.29 J
Toluene	0.48	0.26 J
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: 20230731-0814-SAM2

Lab ID#: 2308322-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.37
Toluene	0.48	0.47 J
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: 20230731-0814-SAM3

Lab ID#: 2308322-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.28 J
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

Client Sample ID: 20230731-0814-SAM4

Lab ID#: 2308322-04A

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

Client Sample ID: 20230731-0814-SAM4

Lab ID#: 2308322-04A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.31 J
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

Client Sample ID: 20230731-0814-SAM5

Lab ID#: 2308322-05A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.35 J
Toluene	0.48	0.28 J
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.27 U
o-Xylene	0.54	0.27 U

Client Sample ID: 20230731-0814-SAM6

Lab ID#: 2308322-06A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
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

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Client Sample ID: 20230731-0814-SAM1

Lab ID#: 2308322-01A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082225**	**Date of Collection: 8/14/23 12:10:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 09:38 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.29 J
Toluene	0.48	0.26 J
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.
J = Estimated value.
Container Type: Carbopack X ERM

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Client Sample ID: 20230731-0814-SAM2

Lab ID#: 2308322-02A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082227**	**Date of Collection: 8/14/23 12:15:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 10:37 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.37
Toluene	0.48	0.47 J
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.
J = Estimated value.
Container Type: Carbopack X ERM

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Client Sample ID: 20230731-0814-SAM3

Lab ID#: 2308322-03A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082228**	**Date of Collection: 8/14/23 12:17:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 11:08 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.28 J
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.
J = Estimated value.
Container Type: Carbopack X ERM

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Client Sample ID: 20230731-0814-SAM4

Lab ID#: 2308322-04A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082229**	**Date of Collection: 8/14/23 12:18:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 11:38 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.31 J
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.
J = Estimated value.
Container Type: Carbopack X ERM

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Client Sample ID: 20230731-0814-SAM5

Lab ID#: 2308322-05A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082230**	**Date of Collection: 8/14/23 12:19:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 12:09 AM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.35 J
Toluene	0.48	0.28 J
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.
J = Estimated value.
Container Type: Carbopack X ERM

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Client Sample ID: 20230731-0814-SAM6

Lab ID#: 2308322-06A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082224**	**Date of Collection: 8/14/23 12:25:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 09:07 PM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
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: Carbopack X ERM

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Client Sample ID: Lab Blank

Lab ID#: 2308322-07A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 10:40 AM**	
		Date of Extraction: NA	

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
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

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Client Sample ID: CCV

Lab ID#: 2308322-08A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082215**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 04:31 PM**
		Date of Extraction: NA

Compound	%Recovery
Styrene	102
Benzene	90
Toluene	106
Ethyl Benzene	108
m,p-Xylene	107
o-Xylene	105

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2308322-08B

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082226**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/23 10:06 PM**
		Date of Extraction: NA

Compound	%Recovery
Styrene	112
Benzene	85
Toluene	105
Ethyl Benzene	109
m,p-Xylene	112
o-Xylene	113

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2308322-08C

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**f082237**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 03:24 AM**
		Date of Extraction: NA

Compound	%Recovery
Styrene	91
Benzene	87
Toluene	102
Ethyl Benzene	95
m,p-Xylene	94
o-Xylene	91

Container Type: NA - Not Applicable

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8/24/2023
Mr. Bryan Engelsen
ERM Northern Division (formerly ERM-North Central)
One Continental Towers
1701 Golf Road, Suite 1-700
Rolling Meadows IL 60008-4242

Project Name: Taylorville MGP
Project #: 0693965
Workorder #: 2308457

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 8/22/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-13A 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: Joel Tillman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Joel Tillman

Project Manager

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WORK ORDER #: 2308457

Work Order Summary

CLIENT:	Mr. Bryan Engelsen ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700 Rolling Meadows, IL 60008-4242	**BILL TO:**	Accounts Payable ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700
PHONE:	847-258-8991	**P.O. #**	012633-1257
FAX:	847-258-8901	**PROJECT #**	0693965 Taylorville MGP
DATE RECEIVED:	08/22/2023	**CONTACT:**	Joel Tillman
DATE COMPLETED:	08/24/2023		

FRACTION #	NAME	TEST
01A	20230814-0817-SAM1	Modified TO-13A
02A	20230814-0817-SAM2	Modified TO-13A
03A	20230814-0817-SAM3	Modified TO-13A
04A	20230814-0817-SAM4	Modified TO-13A
05A	20230814-0817-SAM5	Modified TO-13A
06A	20230814-0817-SAM6	Modified TO-13A
07A	Lab Blank	Modified TO-13A
08A	CCV	Modified TO-13A
09A	LCS	Modified TO-13A
09AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 08/24/23

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.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-13A
ERM Northern Division (formerly ERM-North Central)
Workorder# 2308457

Six PUF/XAD Cartridge-Low Volume samples were received on August 22, 2023. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-500 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

The custody seals arrived broken and analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 08/10/2023.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data

page for project specific U-flag definition.
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

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 20230814-0817-SAM1

Lab ID#: 2308457-01A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.6

Client Sample ID: 20230814-0817-SAM2

Lab ID#: 2308457-02A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	7.6
2-Methylnaphthalene	1.0	2.0

Client Sample ID: 20230814-0817-SAM3

Lab ID#: 2308457-03A

No Detections Were Found.

Client Sample ID: 20230814-0817-SAM4

Lab ID#: 2308457-04A

No Detections Were Found.

Client Sample ID: 20230814-0817-SAM5

Lab ID#: 2308457-05A

No Detections Were Found.

Client Sample ID: 20230814-0817-SAM6

Lab ID#: 2308457-06A

No Detections Were Found.

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Client Sample ID: 20230814-0817-SAM1

Lab ID#: 2308457-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082307**	**Date of Collection: 8/17/23 9:33:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 11:53 AM**
		Date of Extraction: 8/23/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.6
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	88	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	84	50-150

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Client Sample ID: 20230814-0817-SAM2

Lab ID#: 2308457-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082308**	**Date of Collection: 8/17/23 9:42:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 12:23 PM**
		Date of Extraction: 8/23/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	7.6
2-Methylnaphthalene	1.0	2.0
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	88	60-120
Pyrene-d10	76	60-120
Benzo(a)pyrene-d12	71	50-150
Fluoranthene-d10	84	50-150

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Client Sample ID: 20230814-0817-SAM3

Lab ID#: 2308457-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082309**	**Date of Collection: 8/17/23 9:47:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 12:53 PM**
		Date of Extraction: 8/23/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	85	60-120
Pyrene-d10	87	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	79	50-150

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Client Sample ID: 20230814-0817-SAM4

Lab ID#: 2308457-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082310**	**Date of Collection: 8/17/23 9:52:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 01:23 PM**
		Date of Extraction: 8/23/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	85	60-120
Pyrene-d10	91	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	77	50-150

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Client Sample ID: 20230814-0817-SAM5

Lab ID#: 2308457-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082311**	**Date of Collection: 8/17/23 9:55:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 01:53 PM**
		Date of Extraction: 8/23/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	85	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	82	50-150

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Client Sample ID: 20230814-0817-SAM6

Lab ID#: 2308457-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082312**	**Date of Collection: 8/17/23 10:00:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 02:23 PM**
		Date of Extraction: 8/23/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	76	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	87	50-150

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Client Sample ID: Lab Blank

Lab ID#: 2308457-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 11:23 AM**	
		Date of Extraction: 8/23/23	

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	83	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	89	50-150
Fluoranthene-d10	77	50-150

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Client Sample ID: CCV

Lab ID#: 2308457-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082303**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 09:52 AM**
		Date of Extraction: NA

Compound	%Recovery
Naphthalene	90
2-Methylnaphthalene	91
2-Chloronaphthalene	95
Acenaphthylene	90
Acenaphthene	88
Fluorene	91
Phenanthrene	88
Anthracene	74
Fluoranthene	93
Pyrene	90
Chrysene	88
Benzo(a)anthracene	87
Benzo(b)fluoranthene	96
Benzo(k)fluoranthene	96
Benzo(a)pyrene	92
Indeno(1,2,3-c,d)pyrene	83
Dibenz(a,h)anthracene	90
Benzo(g,h,i)perylene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	91	70-130
Pyrene-d10	89	70-130
Benzo(a)pyrene-d12	105	70-130
Fluoranthene-d10	95	70-130

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Client Sample ID: LCS

Lab ID#: 2308457-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 10:23 AM**	
		Date of Extraction: 8/23/23	

Compound	%Recovery	Method Limits
Naphthalene	64	60-120
2-Methylnaphthalene	72	60-120
2-Chloronaphthalene	76	60-120
Acenaphthylene	70	60-120
Acenaphthene	69	60-120
Fluorene	76	60-120
Phenanthrene	74	60-120
Anthracene	75	60-120
Fluoranthene	79	60-120
Pyrene	81	60-120
Chrysene	78	60-120
Benzo(a)anthracene	79	60-120
Benzo(b)fluoranthene	82	60-120
Benzo(k)fluoranthene	79	60-120
Benzo(a)pyrene	79	60-120
Indeno(1,2,3-c,d)pyrene	73	60-120
Dibenz(a,h)anthracene	78	60-120
Benzo(g,h,i)perylene	80	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	79	60-120
Pyrene-d10	82	60-120
Benzo(a)pyrene-d12	89	50-150
Fluoranthene-d10	76	50-150

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Client Sample ID: LCSD

Lab ID#: 2308457-09AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/23/23 10:53 AM**	
		Date of Extraction: 8/23/23	

Compound	%Recovery	Method Limits
Naphthalene	66	60-120
2-Methylnaphthalene	72	60-120
2-Chloronaphthalene	78	60-120
Acenaphthylene	70	60-120
Acenaphthene	67	60-120
Fluorene	75	60-120
Phenanthrene	72	60-120
Anthracene	74	60-120
Fluoranthene	78	60-120
Pyrene	79	60-120
Chrysene	76	60-120
Benzo(a)anthracene	76	60-120
Benzo(b)fluoranthene	85	60-120
Benzo(k)fluoranthene	76	60-120
Benzo(a)pyrene	77	60-120
Indeno(1,2,3-c,d)pyrene	65	60-120
Dibenz(a,h)anthracene	74	60-120
Benzo(g,h,i)perylene	75	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	78	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	74	50-150

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8/28/2023
Mr. Bryan Engelsen
ERM Northern Division (formerly ERM-North Central)
One Continental Towers
1701 Golf Road, Suite 1-700
Rolling Meadows IL 60008-4242

Project Name: Taylorville MGP
Project #: 0693965
Workorder #: 2308458

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 8/22/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-13A 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: Joel Tillman at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Joel Tillman

Project Manager

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WORK ORDER #: 2308458

Work Order Summary

CLIENT:	Mr. Bryan Engelsen ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700 Rolling Meadows, IL 60008-4242	**BILL TO:**	Accounts Payable ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700
PHONE:	847-258-8991	**P.O. #**	012633-1257
FAX:	847-258-8901	**PROJECT #**	0693965 Taylorville MGP
DATE RECEIVED:	08/22/2023	**CONTACT:**	Joel Tillman
DATE COMPLETED:	08/28/2023		

FRACTION #	NAME	TEST
01A	20230817-0819-SAM1	Modified TO-13A
02A	20230817-0819-SAM2	Modified TO-13A
03A	20230817-0819-SAM3	Modified TO-13A
04A	20230817-0819-SAM4	Modified TO-13A
05A	20230817-0819-SAM5	Modified TO-13A
06A	20230817-0819-SAM6	Modified TO-13A
07A	Lab Blank	Modified TO-13A
08A	CCV	Modified TO-13A
09A	LCS	Modified TO-13A
09AA	LCSD	Modified TO-13A

CERTIFIED BY: Heidi Hayes DATE: 08/28/23

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.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-13A
ERM Northern Division (formerly ERM-North Central)
Workorder# 2308458

Six PUF/XAD Cartridge-Low Volume samples were received on August 22, 2023. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

To meet the quality control objectives outlined in Method TO-13A, a field blank is required for each sampling episode. If field blanks are not provided to the laboratory, any attendant risk to data quality is the responsibility of the data user.

The frequency of matrix spikes are determined by the different monitoring programs. Matrix spikes are not included in the routine calibration specifications for TO-13A.

Requirement	***TO-13A***	***ATL Modifications***
Initial Calibration	Calibration range: 0.1-2.5 ug/mL in Hexane	Calibration range: 1.0-500 ug/mL in Methylene chloride
Method Blank	<MDL	<Reporting limit
Surrogate Recoveries	60-120%	50-150% for Field Surrogates Fluoranthene-d10 and Benzo(a)pyrene-d12

Receiving Notes

A Temperature Blank was not included with the shipment. Temperature was measured on a representative sample and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

The custody seals arrived broken and analysis proceeded.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 08/10/2023.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.
J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data

page for project specific U-flag definition.
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

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: 20230817-0819-SAM1

Lab ID#: 2308458-01A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	9.7
2-Methylnaphthalene	1.0	2.3

Client Sample ID: 20230817-0819-SAM2

Lab ID#: 2308458-02A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	15
2-Methylnaphthalene	1.0	3.8

Client Sample ID: 20230817-0819-SAM3

Lab ID#: 2308458-03A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.5

Client Sample ID: 20230817-0819-SAM4

Lab ID#: 2308458-04A

No Detections Were Found.

Client Sample ID: 20230817-0819-SAM5

Lab ID#: 2308458-05A

No Detections Were Found.

Client Sample ID: 20230817-0819-SAM6

Lab ID#: 2308458-06A

No Detections Were Found.

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Client Sample ID: 20230817-0819-SAM1

Lab ID#: 2308458-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082407**	**Date of Collection: 8/19/23 4:33:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 12:17 PM**
		Date of Extraction: 8/24/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	9.7
2-Methylnaphthalene	1.0	2.3
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	76	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	73	50-150
Fluoranthene-d10	74	50-150

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Client Sample ID: 20230817-0819-SAM2

Lab ID#: 2308458-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082408**	**Date of Collection: 8/19/23 4:37:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 12:47 PM**
		Date of Extraction: 8/24/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	15
2-Methylnaphthalene	1.0	3.8
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	80	50-150

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Client Sample ID: 20230817-0819-SAM3

Lab ID#: 2308458-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082409**	**Date of Collection: 8/19/23 4:42:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 01:17 PM**
		Date of Extraction: 8/24/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.5
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	83	60-120
Pyrene-d10	93	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	75	50-150

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Client Sample ID: 20230817-0819-SAM4

Lab ID#: 2308458-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082410**	**Date of Collection: 8/19/23 4:46:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 01:47 PM**
		Date of Extraction: 8/24/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	90	60-120
Pyrene-d10	77	60-120
Benzo(a)pyrene-d12	62	50-150
Fluoranthene-d10	81	50-150

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Client Sample ID: 20230817-0819-SAM5

Lab ID#: 2308458-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082411**	**Date of Collection: 8/19/23 4:48:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 02:17 PM**
		Date of Extraction: 8/24/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	75	50-150
Fluoranthene-d10	76	50-150

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Client Sample ID: 20230817-0819-SAM6

Lab ID#: 2308458-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082412**	**Date of Collection: 8/19/23 4:50:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 02:47 PM**
		Date of Extraction: 8/24/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	80	60-120
Pyrene-d10	87	60-120
Benzo(a)pyrene-d12	94	50-150
Fluoranthene-d10	85	50-150

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Client Sample ID: Lab Blank

Lab ID#: 2308458-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 11:47 AM**	
		Date of Extraction: 8/24/23	

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
Acenaphthylene	1.0	Not Detected
Acenaphthene	1.0	Not Detected
Fluorene	1.0	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	80	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	79	50-150

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Client Sample ID: CCV

Lab ID#: 2308458-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082403**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 10:13 AM**
		Date of Extraction: NA

Compound	%Recovery
Naphthalene	91
2-Methylnaphthalene	91
2-Chloronaphthalene	96
Acenaphthylene	91
Acenaphthene	88
Fluorene	93
Phenanthrene	88
Anthracene	74
Fluoranthene	93
Pyrene	89
Chrysene	88
Benzo(a)anthracene	86
Benzo(b)fluoranthene	98
Benzo(k)fluoranthene	96
Benzo(a)pyrene	92
Indeno(1,2,3-c,d)pyrene	83
Dibenz(a,h)anthracene	91
Benzo(g,h,i)perylene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	94	70-130
Pyrene-d10	89	70-130
Benzo(a)pyrene-d12	105	70-130
Fluoranthene-d10	96	70-130

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Client Sample ID: LCS

Lab ID#: 2308458-09A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 10:47 AM**	
		Date of Extraction: 8/24/23	

Compound	%Recovery	Method Limits
Naphthalene	66	60-120
2-Methylnaphthalene	74	60-120
2-Chloronaphthalene	76	60-120
Acenaphthylene	70	60-120
Acenaphthene	68	60-120
Fluorene	80	60-120
Phenanthrene	74	60-120
Anthracene	76	60-120
Fluoranthene	85	60-120
Pyrene	72	60-120
Chrysene	77	60-120
Benzo(a)anthracene	77	60-120
Benzo(b)fluoranthene	81	60-120
Benzo(k)fluoranthene	81	60-120
Benzo(a)pyrene	78	60-120
Indeno(1,2,3-c,d)pyrene	78	60-120
Dibenz(a,h)anthracene	80	60-120
Benzo(g,h,i)perylene	80	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	80	60-120
Pyrene-d10	71	60-120
Benzo(a)pyrene-d12	91	50-150
Fluoranthene-d10	83	50-150

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Client Sample ID: LCSD

Lab ID#: 2308458-09AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**12082425**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/24/23 09:17 PM**	
		Date of Extraction: 8/24/23	

Compound	%Recovery	Method Limits
Naphthalene	70	60-120
2-Methylnaphthalene	75	60-120
2-Chloronaphthalene	82	60-120
Acenaphthylene	75	60-120
Acenaphthene	71	60-120
Fluorene	80	60-120
Phenanthrene	77	60-120
Anthracene	78	60-120
Fluoranthene	83	60-120
Pyrene	80	60-120
Chrysene	78	60-120
Benzo(a)anthracene	80	60-120
Benzo(b)fluoranthene	91	60-120
Benzo(k)fluoranthene	81	60-120
Benzo(a)pyrene	80	60-120
Indeno(1,2,3-c,d)pyrene	67	60-120
Dibenz(a,h)anthracene	78	60-120
Benzo(g,h,i)perylene	79	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	83	60-120
Pyrene-d10	81	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	77	50-150