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9/12/2023
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 #: 2308625

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 8/29/2023 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 #: 2308625

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:	08/29/2023	**CONTACT:**	Joel Tillman
DATE COMPLETED:	09/12/2023		

FRACTION #	NAME	TEST
01A	20230814-0828-SAM1	EPA Method 325B
02A	20230814-0828-SAM2	EPA Method 325B
03A	20230814-0828-SAM3	EPA Method 325B
04A	20230814-0828-SAM4	EPA Method 325B
05A	20230814-0828-SAM5	EPA Method 325B
06A	20230814-0828-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: 09/12/23

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.

LABORATORY NARRATIVE
ATM EPA 325B
ERM Northern Division (formerly ERM-North Central)
Workorder# 2308625

Six Carbopack X ERM samples were received on August 29, 2023. Six Carbopack X ERM samples were received on August 29, 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

There were no analytical discrepancies.

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: 20230814-0828-SAM1

Lab ID#: 2308625-01A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.64
Toluene	0.48	0.56
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.30 J
o-Xylene	0.54	0.27 U

Client Sample ID: 20230814-0828-SAM2

Lab ID#: 2308625-02A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.92
Toluene	0.48	0.91
Ethyl Benzene	0.54	0.38 J
m,p-Xylene	0.54	0.53 J
o-Xylene	0.54	0.27 U

Client Sample ID: 20230814-0828-SAM3

Lab ID#: 2308625-03A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.47
Toluene	0.48	0.34 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: 20230814-0828-SAM4

Lab ID#: 2308625-04A

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

Client Sample ID: 20230814-0828-SAM4

Lab ID#: 2308625-04A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.61
Toluene	0.48	0.54
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.33 J
o-Xylene	0.54	0.27 U

Client Sample ID: 20230814-0828-SAM5

Lab ID#: 2308625-05A

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.64
Toluene	0.48	0.54
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.29 J
o-Xylene	0.54	0.27 U

Client Sample ID: 20230814-0828-SAM6

Lab ID#: 2308625-06A

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: 20230814-0828-SAM1

Lab ID#: 2308625-01A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083137**	**Date of Collection: 8/28/23 10:39:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/1/23 12:04 AM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.64
Toluene	0.48	0.56
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.30 J
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: 20230814-0828-SAM2

Lab ID#: 2308625-02A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083138**	**Date of Collection: 8/28/23 10:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/1/23 12:32 AM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.92
Toluene	0.48	0.91
Ethyl Benzene	0.54	0.38 J
m,p-Xylene	0.54	0.53 J
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: 20230814-0828-SAM3

Lab ID#: 2308625-03A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083139**	**Date of Collection: 8/28/23 10:32:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/1/23 01:00 AM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.47
Toluene	0.48	0.34 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: 20230814-0828-SAM4

Lab ID#: 2308625-04A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083140**	**Date of Collection: 8/28/23 10:42:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/1/23 01:28 AM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.61
Toluene	0.48	0.54
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.33 J
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: 20230814-0828-SAM5

Lab ID#: 2308625-05A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083142**	**Date of Collection: 8/28/23 10:43:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/1/23 02:18 AM**
		Date of Extraction: NA

Compound	Rpt. Limit (ug/m3)	Amount (ug/m3)
Styrene	0.50	0.20 U
Benzene	0.37	0.64
Toluene	0.48	0.54
Ethyl Benzene	0.54	0.27 U
m,p-Xylene	0.54	0.29 J
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: 20230814-0828-SAM6

Lab ID#: 2308625-06A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083136**	**Date of Collection: 8/28/23 11:30:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/31/23 11:37 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#: 2308625-07A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083108A**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/31/23 10:23 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#: 2308625-08A

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083130**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/31/23 08:52 PM**
		Date of Extraction: NA

Compound	%Recovery
Styrene	110
Benzene	106
Toluene	107
Ethyl Benzene	109
m,p-Xylene	109
o-Xylene	106

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2308625-08B

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083141**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 9/1/23 01:51 AM**
		Date of Extraction: NA

Compound	%Recovery
Styrene	93
Benzene	100
Toluene	98
Ethyl Benzene	94
m,p-Xylene	94
o-Xylene	92

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2308625-08C

EPA METHOD 325B GC/MS FULL SCAN

File Name:	**10083152**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 9/1/23 06:09 AM**
		Date of Extraction: NA

Compound	%Recovery
Styrene	110
Benzene	103
Toluene	110
Ethyl Benzene	108
m,p-Xylene	108
o-Xylene	108

Container Type: NA - Not Applicable

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9/8/2023
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 #: 2308640

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 8/29/2023 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 #: 2308640

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:	08/29/2023	**CONTACT:**	Joel Tillman
DATE COMPLETED:	09/08/2023		

FRACTION #	NAME	TEST
01A	20230824-0826-SAM-1	Modified TO-13A
02A	20230824-0826-SAM-2	Modified TO-13A
03A	20230824-0826-SAM-3	Modified TO-13A
04A	20230824-0826-SAM-4	Modified TO-13A
05A	20230824-0826-SAM-5	Modified TO-13A
06A	20230824-0826-SAM-6	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: 09/08/23

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.

LABORATORY NARRATIVE
Modified TO-13A
ERM Northern Division (formerly ERM-North Central)
Workorder# 2308640

Six PUF/XAD Cartridge-Low Volume samples were received on August 29, 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

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 08/15/2023.

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: 20230824-0826-SAM-1

Lab ID#: 2308640-01A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.1

Client Sample ID: 20230824-0826-SAM-2

Lab ID#: 2308640-02A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	13
2-Methylnaphthalene	1.0	4.6

Client Sample ID: 20230824-0826-SAM-3

Lab ID#: 2308640-03A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.4

Client Sample ID: 20230824-0826-SAM-4

Lab ID#: 2308640-04A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.6

Client Sample ID: 20230824-0826-SAM-5

Lab ID#: 2308640-05A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.4

Client Sample ID: 20230824-0826-SAM-6

Lab ID#: 2308640-06A

No Detections Were Found.

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Client Sample ID: 20230824-0826-SAM-1

Lab ID#: 2308640-01A

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

File Name:	**12090614**	**Date of Collection: 8/26/23 11:18:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 01:53 PM**
		Date of Extraction: 8/31/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.1
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	91	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	85	50-150
Fluoranthene-d10	78	50-150

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Client Sample ID: 20230824-0826-SAM-2

Lab ID#: 2308640-02A

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

File Name:	**12090615**	**Date of Collection: 8/26/23 11:22:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 02:22 PM**
		Date of Extraction: 8/31/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	13
2-Methylnaphthalene	1.0	4.6
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	93	60-120
Pyrene-d10	98	60-120
Benzo(a)pyrene-d12	70	50-150
Fluoranthene-d10	76	50-150

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Client Sample ID: 20230824-0826-SAM-3

Lab ID#: 2308640-03A

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

File Name:	**12090616**	**Date of Collection: 8/26/23 11:28:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 02:52 PM**
		Date of Extraction: 8/31/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.4
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	94	60-120
Pyrene-d10	100	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	85	50-150

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Client Sample ID: 20230824-0826-SAM-4

Lab ID#: 2308640-04A

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

File Name:	**12090617**	**Date of Collection: 8/26/23 11:00:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 03:22 PM**
		Date of Extraction: 8/31/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.6
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	95	60-120
Pyrene-d10	99	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	84	50-150

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Client Sample ID: 20230824-0826-SAM-5

Lab ID#: 2308640-05A

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

File Name:	**12090618**	**Date of Collection: 8/26/23 11:04:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 03:52 PM**
		Date of Extraction: 8/31/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.4
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	95	60-120
Pyrene-d10	102	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	84	50-150

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Client Sample ID: 20230824-0826-SAM-6

Lab ID#: 2308640-06A

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

File Name:	**12090619**	**Date of Collection: 8/26/23 11:30:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 04:22 PM**
		Date of Extraction: 8/31/23

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	92	60-120
Pyrene-d10	100	60-120
Benzo(a)pyrene-d12	111	50-150
Fluoranthene-d10	92	50-150

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Client Sample ID: Lab Blank

Lab ID#: 2308640-07A

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

File Name:	**12090611**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 12:23 PM**	
		Date of Extraction: 8/31/23	

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	99	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	89	50-150

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Client Sample ID: CCV

Lab ID#: 2308640-08A

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

File Name:	**12090608**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 10:47 AM**
		Date of Extraction: NA

Compound	%Recovery
Naphthalene	117
2-Methylnaphthalene	122
2-Chloronaphthalene	117
Acenaphthylene	118
Acenaphthene	113
Fluorene	118
Phenanthrene	114
Anthracene	117
Fluoranthene	120
Pyrene	122
Chrysene	114
Benzo(a)anthracene	119
Benzo(b)fluoranthene	123
Benzo(k)fluoranthene	116
Benzo(a)pyrene	126
Indeno(1,2,3-c,d)pyrene	121
Dibenz(a,h)anthracene	123
Benzo(g,h,i)perylene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	116	70-130
Pyrene-d10	118	70-130
Benzo(a)pyrene-d12	123	70-130
Fluoranthene-d10	119	70-130

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Client Sample ID: LCS

Lab ID#: 2308640-09A

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

File Name:	**12090609**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 11:23 AM**	
		Date of Extraction: 8/31/23	

Compound	%Recovery	Method Limits
Naphthalene	73	60-120
2-Methylnaphthalene	85	60-120
2-Chloronaphthalene	84	60-120
Acenaphthylene	86	60-120
Acenaphthene	80	60-120
Fluorene	90	60-120
Phenanthrene	89	60-120
Anthracene	96	60-120
Fluoranthene	95	60-120
Pyrene	97	60-120
Chrysene	91	60-120
Benzo(a)anthracene	98	60-120
Benzo(b)fluoranthene	100	60-120
Benzo(k)fluoranthene	92	60-120
Benzo(a)pyrene	100	60-120
Indeno(1,2,3-c,d)pyrene	99	60-120
Dibenz(a,h)anthracene	100	60-120
Benzo(g,h,i)perylene	100	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	93	60-120
Pyrene-d10	97	60-120
Benzo(a)pyrene-d12	117	50-150
Fluoranthene-d10	93	50-150

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Client Sample ID: LCSD

Lab ID#: 2308640-09AA

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

File Name:	**12090610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 11:53 AM**	
		Date of Extraction: 8/31/23	

Compound	%Recovery	Method Limits
Naphthalene	79	60-120
2-Methylnaphthalene	88	60-120
2-Chloronaphthalene	86	60-120
Acenaphthylene	88	60-120
Acenaphthene	82	60-120
Fluorene	90	60-120
Phenanthrene	86	60-120
Anthracene	96	60-120
Fluoranthene	93	60-120
Pyrene	94	60-120
Chrysene	89	60-120
Benzo(a)anthracene	98	60-120
Benzo(b)fluoranthene	101	60-120
Benzo(k)fluoranthene	91	60-120
Benzo(a)pyrene	105	60-120
Indeno(1,2,3-c,d)pyrene	102	60-120
Dibenz(a,h)anthracene	105	60-120
Benzo(g,h,i)perylene	102	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	91	60-120
Pyrene-d10	95	60-120
Benzo(a)pyrene-d12	118	50-150
Fluoranthene-d10	92	50-150

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9/12/2023
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 #: 2309015

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 9/1/2023 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 #: 2309015

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:	09/01/2023	**CONTACT:**	Joel Tillman
DATE COMPLETED:	09/08/2023		

FRACTION #	NAME	TEST
01A	20230828-0831-SAM1	Modified TO-13A
02A	20230828-0831-SAM2	Modified TO-13A
03A	20230828-0831-SAM3	Modified TO-13A
04A	20230828-0831-SAM4	Modified TO-13A
05A	20230828-0831-SAM5	Modified TO-13A
06A	20230828-0831-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: 09/12/23

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.

LABORATORY NARRATIVE
Modified TO-13A
ERM Northern Division (formerly ERM-North Central)
Workorder# 2309015

Six PUF/XAD Cartridge-Low Volume samples were received on September 01, 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

There were no receiving discrepancies.

Analytical Notes

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 08/22/2023.

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

Definition of Data Qualifying Flags

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: 20230828-0831-SAM1

Lab ID#: 2309015-01A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.6

Client Sample ID: 20230828-0831-SAM2

Lab ID#: 2309015-02A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.5

Client Sample ID: 20230828-0831-SAM3

Lab ID#: 2309015-03A

No Detections Were Found.

Client Sample ID: 20230828-0831-SAM4

Lab ID#: 2309015-04A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.4

Client Sample ID: 20230828-0831-SAM5

Lab ID#: 2309015-05A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.8

Client Sample ID: 20230828-0831-SAM6

Lab ID#: 2309015-06A

No Detections Were Found.

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Client Sample ID: 20230828-0831-SAM1

Lab ID#: 2309015-01A

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

File Name:	**12090635**	**Date of Collection: 8/31/23 8:32:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/7/23 12:09 AM**
		Date of Extraction: 9/5/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.6
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	95	60-150
Pyrene-d10	94	60-150
Benzo(a)pyrene-d12	98	50-150
Fluoranthene-d10	92	50-150

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Client Sample ID: 20230828-0831-SAM2

Lab ID#: 2309015-02A

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

File Name:	**12090636**	**Date of Collection: 8/31/23 8:22:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/7/23 12:39 AM**
		Date of Extraction: 9/5/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.5
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	95	60-150
Pyrene-d10	100	60-150
Benzo(a)pyrene-d12	91	50-150
Fluoranthene-d10	90	50-150

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Client Sample ID: 20230828-0831-SAM3

Lab ID#: 2309015-03A

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

File Name:	**12090637**	**Date of Collection: 8/31/23 8:00:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/7/23 01:09 AM**
		Date of Extraction: 9/5/23

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	95	60-150
Pyrene-d10	103	60-150
Benzo(a)pyrene-d12	95	50-150
Fluoranthene-d10	88	50-150

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Client Sample ID: 20230828-0831-SAM4

Lab ID#: 2309015-04A

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

File Name:	**12090638**	**Date of Collection: 8/31/23 8:54:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/7/23 01:39 AM**
		Date of Extraction: 9/5/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	2.4
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	60-150
Pyrene-d10	100	60-150
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	83	50-150

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Client Sample ID: 20230828-0831-SAM5

Lab ID#: 2309015-05A

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

File Name:	**12090639**	**Date of Collection: 8/31/23 9:03:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/7/23 02:09 AM**
		Date of Extraction: 9/5/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.8
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	96	60-150
Pyrene-d10	101	60-150
Benzo(a)pyrene-d12	100	50-150
Fluoranthene-d10	90	50-150

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Client Sample ID: 20230828-0831-SAM6

Lab ID#: 2309015-06A

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

File Name:	**12090640**	**Date of Collection: 8/31/23 7:59:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 9/7/23 02:39 AM**
		Date of Extraction: 9/5/23

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	89	60-150
Pyrene-d10	94	60-150
Benzo(a)pyrene-d12	112	50-150
Fluoranthene-d10	93	50-150

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Client Sample ID: Lab Blank

Lab ID#: 2309015-07A

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

File Name:	**12090634**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 11:39 PM**	
		Date of Extraction: 9/5/23	

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	96	60-150
Pyrene-d10	103	60-150
Benzo(a)pyrene-d12	122	50-150
Fluoranthene-d10	98	50-150

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Client Sample ID: CCV

Lab ID#: 2309015-08A

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

File Name:	**12090631**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 10:09 PM**
		Date of Extraction: 8/28/23

Compound	%Recovery
Naphthalene	116
2-Methylnaphthalene	120
2-Chloronaphthalene	115
Acenaphthylene	120
Acenaphthene	113
Fluorene	117
Phenanthrene	113
Anthracene	113
Fluoranthene	120
Pyrene	116
Chrysene	111
Benzo(a)anthracene	120
Benzo(b)fluoranthene	131 Q
Benzo(k)fluoranthene	119
Benzo(a)pyrene	125
Indeno(1,2,3-c,d)pyrene	104
Dibenz(a,h)anthracene	117
Benzo(g,h,i)perylene	112

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	117	70-130
Pyrene-d10	114	70-130
Benzo(a)pyrene-d12	123	70-130
Fluoranthene-d10	120	70-130

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Client Sample ID: LCS

Lab ID#: 2309015-09A

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

File Name:	**12090632**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 10:39 PM**	
		Date of Extraction: 9/5/23	

Compound	%Recovery	Method Limits
Naphthalene	76	60-120
2-Methylnaphthalene	86	60-120
2-Chloronaphthalene	86	60-120
Acenaphthylene	88	60-120
Acenaphthene	81	60-120
Fluorene	90	60-120
Phenanthrene	87	60-120
Anthracene	97	60-120
Fluoranthene	93	60-120
Pyrene	95	60-120
Chrysene	88	60-120
Benzo(a)anthracene	100	60-120
Benzo(b)fluoranthene	109	60-120
Benzo(k)fluoranthene	96	60-120
Benzo(a)pyrene	105	60-120
Indeno(1,2,3-c,d)pyrene	79	60-120
Dibenz(a,h)anthracene	93	60-120
Benzo(g,h,i)perylene	91	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	94	60-150
Pyrene-d10	97	60-150
Benzo(a)pyrene-d12	124	50-150
Fluoranthene-d10	94	50-150

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Client Sample ID: LCSD

Lab ID#: 2309015-09AA

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

File Name:	**12090633**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/6/23 11:09 PM**	
		Date of Extraction: 9/5/23	

Compound	%Recovery	Method Limits
Naphthalene	88	60-120
2-Methylnaphthalene	98	60-120
2-Chloronaphthalene	92	60-120
Acenaphthylene	93	60-120
Acenaphthene	85	60-120
Fluorene	93	60-120
Phenanthrene	90	60-120
Anthracene	100	60-120
Fluoranthene	96	60-120
Pyrene	96	60-120
Chrysene	90	60-120
Benzo(a)anthracene	102	60-120
Benzo(b)fluoranthene	107	60-120
Benzo(k)fluoranthene	98	60-120
Benzo(a)pyrene	105	60-120
Indeno(1,2,3-c,d)pyrene	82	60-120
Dibenz(a,h)anthracene	94	60-120
Benzo(g,h,i)perylene	92	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	96	60-150
Pyrene-d10	96	60-150
Benzo(a)pyrene-d12	122	50-150
Fluoranthene-d10	98	50-150