

9/14/2023

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 #: 2309073

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 9/7/2023 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

WORK ORDER #: 2309073

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 847-258-8991	BILL TO:	Accounts Payable ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700
PHONE:		P.O. #	012633-1257
FAX:	847-258-8901	PROJECT #	0693965 Taylorville MGP
DATE RECEIVED:	09/07/2023	CONTACT:	Joel Tillman
DATE COMPLETED:	09/14/2023		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	20230831-0901-SAM1	Modified TO-13A
02A	20230831-0901-SAM2	Modified TO-13A
03A	20230831-0901-SAM3	Modified TO-13A
04A(cancelled)	20230831-0901-SAM4	Modified TO-13A
05A	20230831-0901-SAM5	Modified TO-13A
06A	20230831-0901-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: 
 Technical Director

DATE: 09/14/23

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.

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 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000

LABORATORY NARRATIVE
Modified TO-13A
ERM Northern Division (formerly ERM-North Central)
Workorder# 2309073

Six PUF/XAD Cartridge-Low Volume samples were received on September 07, 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.

<i>Requirement</i>	<i>TO-13A</i>	<i>ATL Modifications</i>
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 included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of ice/blue ice was present. Analysis proceeded.

The cartridge for sample 20230831-0901-SAM4 was broken while still encased in bubble wrap and foil. Following client notification of this event, analysis was cancelled.

Analytical Notes

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

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

Preliminary

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

Client Sample ID: 20230831-0901-SAM1

Lab ID#: 2309073-01A

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

Client Sample ID: 20230831-0901-SAM2

Lab ID#: 2309073-02A

No Detections Were Found.

Client Sample ID: 20230831-0901-SAM3

Lab ID#: 2309073-03A

No Detections Were Found.

Client Sample ID: 20230831-0901-SAM5

Lab ID#: 2309073-05A

No Detections Were Found.

Client Sample ID: 20230831-0901-SAM6

Lab ID#: 2309073-06A

No Detections Were Found.

Client Sample ID: 20230831-0901-SAM1

Lab ID#: 2309073-01A

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

File Name:	12090728	Date of Collection: 9/1/23 1:48:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/7/23 11:31 PM
		Date of Extraction: 9/7/23

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	98	60-120
Pyrene-d10	99	60-120
Benzo(a)pyrene-d12	115	50-150
Fluoranthene-d10	96	50-150

Client Sample ID: 20230831-0901-SAM2

Lab ID#: 2309073-02A

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

File Name:	12090729	Date of Collection: 9/1/23 1:43:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/8/23 12:01 AM
		Date of Extraction: 9/7/23

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	93	60-120
Pyrene-d10	101	60-120
Benzo(a)pyrene-d12	92	50-150
Fluoranthene-d10	89	50-150

Client Sample ID: 20230831-0901-SAM3

Lab ID#: 2309073-03A

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

File Name:	12090730	Date of Collection: 9/1/23 1:38:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/8/23 12:31 AM
		Date of Extraction: 9/7/23

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	97	60-120
Benzo(a)pyrene-d12	92	50-150
Fluoranthene-d10	87	50-150

Client Sample ID: 20230831-0901-SAM5

Lab ID#: 2309073-05A

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

File Name:	12090732	Date of Collection: 9/1/23 1:51:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/8/23 01:31 AM
		Date of Extraction: 9/7/23

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	98	60-120
Benzo(a)pyrene-d12	88	50-150
Fluoranthene-d10	88	50-150

Client Sample ID: 20230831-0901-SAM6

Lab ID#: 2309073-06A

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

File Name:	12090733	Date of Collection: 9/1/23 2:00:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/8/23 02:01 AM
		Date of Extraction: 9/7/23

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	99	60-120
Benzo(a)pyrene-d12	112	50-150
Fluoranthene-d10	90	50-150

Client Sample ID: CCV

Lab ID#: 2309073-08A

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

File Name:	12090719	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/7/23 07:00 PM
		Date of Extraction: NA

Compound	%Recovery
Naphthalene	100
2-Methylnaphthalene	104
2-Chloronaphthalene	98
Acenaphthylene	102
Acenaphthene	96
Fluorene	98
Phenanthrene	95
Anthracene	101
Fluoranthene	98
Pyrene	107
Chrysene	94
Benzo(a)anthracene	102
Benzo(b)fluoranthene	116
Benzo(k)fluoranthene	104
Benzo(a)pyrene	109
Indeno(1,2,3-c,d)pyrene	75
Dibenz(a,h)anthracene	99
Benzo(g,h,i)perylene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	98	70-130
Pyrene-d10	104	70-130
Benzo(a)pyrene-d12	108	70-130
Fluoranthene-d10	99	70-130

Client Sample ID: LCS

Lab ID#: 2309073-09A

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

File Name:	12090720	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/7/23 07:30 PM
		Date of Extraction: 9/7/23

Compound	%Recovery	Method Limits
Naphthalene	71	60-120
2-Methylnaphthalene	81	60-120
2-Chloronaphthalene	82	60-120
Acenaphthylene	84	60-120
Acenaphthene	78	60-120
Fluorene	86	60-120
Phenanthrene	82	60-120
Anthracene	92	60-120
Fluoranthene	89	60-120
Pyrene	95	60-120
Chrysene	84	60-120
Benzo(a)anthracene	94	60-120
Benzo(b)fluoranthene	105	60-120
Benzo(k)fluoranthene	94	60-120
Benzo(a)pyrene	99	60-120
Indeno(1,2,3-c,d)pyrene	67	60-120
Dibenz(a,h)anthracene	86	60-120
Benzo(g,h,i)perylene	84	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	90	60-120
Pyrene-d10	96	60-120
Benzo(a)pyrene-d12	111	50-150
Fluoranthene-d10	87	50-150

Client Sample ID: LCSD

Lab ID#: 2309073-09AA

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

File Name:	12090721	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/7/23 08:00 PM
		Date of Extraction: 9/7/23

Compound	%Recovery	Method Limits
Naphthalene	78	60-120
2-Methylnaphthalene	88	60-120
2-Chloronaphthalene	87	60-120
Acenaphthylene	86	60-120
Acenaphthene	81	60-120
Fluorene	89	60-120
Phenanthrene	87	60-120
Anthracene	95	60-120
Fluoranthene	93	60-120
Pyrene	100	60-120
Chrysene	88	60-120
Benzo(a)anthracene	100	60-120
Benzo(b)fluoranthene	109	60-120
Benzo(k)fluoranthene	98	60-120
Benzo(a)pyrene	103	60-120
Indeno(1,2,3-c,d)pyrene	71	60-120
Dibenz(a,h)anthracene	92	60-120
Benzo(g,h,i)perylene	91	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	91	60-120
Pyrene-d10	99	60-120
Benzo(a)pyrene-d12	114	50-150
Fluoranthene-d10	89	50-150

9/19/2023

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 #: 0698874

Workorder #: 2309111

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 9/8/2023 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

WORK ORDER #: 2309111

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 847-258-8991	BILL TO:	Accounts Payable ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700
PHONE:		P.O. #	012633-1257
FAX:	847-258-8901	PROJECT #	0698874 Taylorville MGP
DATE RECEIVED:	09/08/2023	CONTACT:	Joel Tillman
DATE COMPLETED:	09/19/2023		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	20230905-0907-SAM1	Modified TO-13A
02A	20230905-0907-SAM2	Modified TO-13A
03A	20230905-0907-SAM3	Modified TO-13A
04A	20230905-0907-SAM4	Modified TO-13A
05A	20230905-0907-SAM5	Modified TO-13A
06A	20230905-0907-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: 
 Technical Director

DATE: 09/19/23

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.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000

LABORATORY NARRATIVE
Modified TO-13A
ERM Northern Division (formerly ERM-North Central)
Workorder# 2309111

Six PUF/XAD Cartridge-Low Volume samples were received on September 08, 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.

<i>Requirement</i>	<i>TO-13A</i>	<i>ATL Modifications</i>
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 08/29/2023.

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

Preliminary

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

Client Sample ID: 20230905-0907-SAM1

Lab ID#: 2309111-01A

No Detections Were Found.

Client Sample ID: 20230905-0907-SAM2

Lab ID#: 2309111-02A

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

Client Sample ID: 20230905-0907-SAM3

Lab ID#: 2309111-03A

No Detections Were Found.

Client Sample ID: 20230905-0907-SAM4

Lab ID#: 2309111-04A

No Detections Were Found.

Client Sample ID: 20230905-0907-SAM5

Lab ID#: 2309111-05A

No Detections Were Found.

Client Sample ID: 20230905-0907-SAM6

Lab ID#: 2309111-06A

No Detections Were Found.

Client Sample ID: 20230905-0907-SAM1

Lab ID#: 2309111-01A

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

File Name:	12091533	Date of Collection: 9/7/23 7:54:00 AM
Dil. Factor:	1.00	Date of Analysis: 9/15/23 11:43 PM
		Date of Extraction: 9/13/23

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	87	60-120
Pyrene-d10	93	60-120
Benzo(a)pyrene-d12	96	50-150
Fluoranthene-d10	86	50-150

Client Sample ID: 20230905-0907-SAM2

Lab ID#: 2309111-02A

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

File Name:	12091534	Date of Collection: 9/7/23 8:06:00 AM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 12:13 AM
		Date of Extraction: 9/13/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.0
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	89	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	79	50-150

Client Sample ID: 20230905-0907-SAM3

Lab ID#: 2309111-03A

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

File Name:	12091535	Date of Collection: 9/7/23 8:15:00 AM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 12:43 AM
		Date of Extraction: 9/13/23

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	86	60-120
Pyrene-d10	91	60-120
Benzo(a)pyrene-d12	90	50-150
Fluoranthene-d10	85	50-150

Client Sample ID: 20230905-0907-SAM4

Lab ID#: 2309111-04A

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

File Name:	12091536	Date of Collection: 9/7/23 8:39:00 AM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 01:13 AM
		Date of Extraction: 9/13/23

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	60-120
Pyrene-d10	91	60-120
Benzo(a)pyrene-d12	89	50-150
Fluoranthene-d10	88	50-150

Client Sample ID: 20230905-0907-SAM5

Lab ID#: 2309111-05A

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

File Name:	12091537	Date of Collection: 9/7/23 8:48:00 AM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 01:43 AM
		Date of Extraction: 9/13/23

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	91	60-120
Benzo(a)pyrene-d12	87	50-150
Fluoranthene-d10	80	50-150

Client Sample ID: 20230905-0907-SAM6

Lab ID#: 2309111-06A

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

File Name:	12091538	Date of Collection: 9/7/23 8:50:00 AM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 02:13 AM
		Date of Extraction: 9/13/23

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	88	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	104	50-150
Fluoranthene-d10	87	50-150

Client Sample ID: Lab Blank

Lab ID#: 2309111-07A

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

File Name:	12091532	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/15/23 11:13 PM
		Date of Extraction: 9/13/23

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	94	60-120
Benzo(a)pyrene-d12	108	50-150
Fluoranthene-d10	86	50-150

Client Sample ID: CCV

Lab ID#: 2309111-08A

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

File Name:	12091529	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/15/23 09:42 PM
		Date of Extraction: NA

Compound	%Recovery
Naphthalene	98
2-Methylnaphthalene	100
2-Chloronaphthalene	98
Acenaphthylene	103
Acenaphthene	97
Fluorene	100
Phenanthrene	95
Anthracene	100
Fluoranthene	101
Pyrene	97
Chrysene	95
Benzo(a)anthracene	102
Benzo(b)fluoranthene	104
Benzo(k)fluoranthene	104
Benzo(a)pyrene	110
Indeno(1,2,3-c,d)pyrene	109
Dibenz(a,h)anthracene	103
Benzo(g,h,i)perylene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	97	70-130
Pyrene-d10	98	70-130
Benzo(a)pyrene-d12	107	70-130
Fluoranthene-d10	100	70-130

Client Sample ID: LCS

Lab ID#: 2309111-09A

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

File Name:	12091530	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/15/23 10:13 PM
		Date of Extraction: 9/13/23

Compound	%Recovery	Method Limits
Naphthalene	76	60-120
2-Methylnaphthalene	81	60-120
2-Chloronaphthalene	85	60-120
Acenaphthylene	84	60-120
Acenaphthene	78	60-120
Fluorene	83	60-120
Phenanthrene	82	60-120
Anthracene	88	60-120
Fluoranthene	85	60-120
Pyrene	89	60-120
Chrysene	84	60-120
Benzo(a)anthracene	94	60-120
Benzo(b)fluoranthene	94	60-120
Benzo(k)fluoranthene	88	60-120
Benzo(a)pyrene	96	60-120
Indeno(1,2,3-c,d)pyrene	88	60-120
Dibenz(a,h)anthracene	85	60-120
Benzo(g,h,i)perylene	78	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	86	60-120
Pyrene-d10	92	60-120
Benzo(a)pyrene-d12	112	50-150
Fluoranthene-d10	87	50-150

Client Sample ID: LCSD

Lab ID#: 2309111-09AA

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

File Name:	12091531	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/15/23 10:43 PM
		Date of Extraction: 9/13/23

Compound	%Recovery	Method Limits
Naphthalene	69	60-120
2-Methylnaphthalene	76	60-120
2-Chloronaphthalene	80	60-120
Acenaphthylene	82	60-120
Acenaphthene	76	60-120
Fluorene	82	60-120
Phenanthrene	80	60-120
Anthracene	85	60-120
Fluoranthene	86	60-120
Pyrene	85	60-120
Chrysene	82	60-120
Benzo(a)anthracene	92	60-120
Benzo(b)fluoranthene	92	60-120
Benzo(k)fluoranthene	85	60-120
Benzo(a)pyrene	94	60-120
Indeno(1,2,3-c,d)pyrene	90	60-120
Dibenz(a,h)anthracene	85	60-120
Benzo(g,h,i)perylene	78	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	88	60-120
Benzo(a)pyrene-d12	108	50-150
Fluoranthene-d10	88	50-150

9/19/2023

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 #: 0698874

Workorder #: 2309169

Dear Mr. Bryan Engelsen

The following report includes the data for the above referenced project for sample(s) received on 9/12/2023 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

WORK ORDER #: 2309169

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 847-258-8991	BILL TO:	Accounts Payable ERM Northern Division (formerly ERM-North Central) One Continental Towers 1701 Golf Road, Suite 1-700
PHONE:		P.O. #	012633-1257
FAX:	847-258-8901	PROJECT #	0698874 Taylorville MGP
DATE RECEIVED:	09/12/2023	CONTACT:	Joel Tillman
DATE COMPLETED:	09/19/2023		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	20230907-0909-SAM1	Modified TO-13A
02A	20230907-0909-SAM2	Modified TO-13A
03A	20230907-0909-SAM3	Modified TO-13A
04A	20230907-0909-SAM4	Modified TO-13A
05A	20230907-0909-SAM5	Modified TO-13A
06A	20230907-0909-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: 
 Technical Director

DATE: 09/19/23

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# 2309169

Six PUF/XAD Cartridge-Low Volume samples were received on September 12, 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.

<i>Requirement</i>	<i>TO-13A</i>	<i>ATL Modifications</i>
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 09/05/2023.

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

Preliminary

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

Client Sample ID: 20230907-0909-SAM1

Lab ID#: 2309169-01A

No Detections Were Found.

Client Sample ID: 20230907-0909-SAM2

Lab ID#: 2309169-02A

No Detections Were Found.

Client Sample ID: 20230907-0909-SAM3

Lab ID#: 2309169-03A

No Detections Were Found.

Client Sample ID: 20230907-0909-SAM4

Lab ID#: 2309169-04A

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.2

Client Sample ID: 20230907-0909-SAM5

Lab ID#: 2309169-05A

No Detections Were Found.

Client Sample ID: 20230907-0909-SAM6

Lab ID#: 2309169-06A

No Detections Were Found.

Client Sample ID: 20230907-0909-SAM1

Lab ID#: 2309169-01A

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

File Name:	12091606	Date of Collection: 9/9/23 5:11:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 11:34 AM
		Date of Extraction: 9/14/23

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	81	60-120
Pyrene-d10	83	60-120
Benzo(a)pyrene-d12	80	50-150
Fluoranthene-d10	74	50-150

Client Sample ID: 20230907-0909-SAM2

Lab ID#: 2309169-02A

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

File Name:	12091607	Date of Collection: 9/9/23 5:16:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 12:03 PM
		Date of Extraction: 9/14/23

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	82	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	78	50-150

Client Sample ID: 20230907-0909-SAM3

Lab ID#: 2309169-03A

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

File Name:	12091608	Date of Collection: 9/9/23 5:21:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 12:33 PM
		Date of Extraction: 9/14/23

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	84	60-120
Benzo(a)pyrene-d12	84	50-150
Fluoranthene-d10	77	50-150

Client Sample ID: 20230907-0909-SAM4

Lab ID#: 2309169-04A

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

File Name:	12091609	Date of Collection: 9/9/23 5:24:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 01:03 PM
		Date of Extraction: 9/14/23

Compound	Rpt. Limit (ug)	Amount (ug)
Naphthalene	1.0	1.2
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	87	60-120
Benzo(a)pyrene-d12	81	50-150
Fluoranthene-d10	74	50-150

Client Sample ID: 20230907-0909-SAM5

Lab ID#: 2309169-05A

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

File Name:	12091610	Date of Collection: 9/9/23 5:27:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 01:33 PM
		Date of Extraction: 9/14/23

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	82	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	72	50-150
Fluoranthene-d10	72	50-150

Client Sample ID: 20230907-0909-SAM6

Lab ID#: 2309169-06A

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

File Name:	12091611	Date of Collection: 9/9/23 5:30:00 PM
Dil. Factor:	1.00	Date of Analysis: 9/16/23 02:03 PM
		Date of Extraction: 9/14/23

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	82	60-120
Benzo(a)pyrene-d12	99	50-150
Fluoranthene-d10	82	50-150

Client Sample ID: Lab Blank

Lab ID#: 2309169-07A

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

File Name:	12091605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/16/23 11:03 AM
		Date of Extraction: 9/14/23

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	82	60-120
Benzo(a)pyrene-d12	104	50-150
Fluoranthene-d10	82	50-150

Client Sample ID: CCV

Lab ID#: 2309169-08A

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

File Name:	12091602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/16/23 09:34 AM
		Date of Extraction: NA

Compound	%Recovery
Naphthalene	97
2-Methylnaphthalene	97
2-Chloronaphthalene	100
Acenaphthylene	106
Acenaphthene	98
Fluorene	100
Phenanthrene	96
Anthracene	103
Fluoranthene	102
Pyrene	95
Chrysene	95
Benzo(a)anthracene	103
Benzo(b)fluoranthene	109
Benzo(k)fluoranthene	106
Benzo(a)pyrene	110
Indeno(1,2,3-c,d)pyrene	93
Dibenz(a,h)anthracene	90
Benzo(g,h,i)perylene	81

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	99	70-130
Pyrene-d10	95	70-130
Benzo(a)pyrene-d12	107	70-130
Fluoranthene-d10	103	70-130

Client Sample ID: LCS

Lab ID#: 2309169-09A

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

File Name:	12091603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/16/23 10:03 AM
		Date of Extraction: 9/14/23

Compound	%Recovery	Method Limits
Naphthalene	74	60-120
2-Methylnaphthalene	81	60-120
2-Chloronaphthalene	82	60-120
Acenaphthylene	84	60-120
Acenaphthene	79	60-120
Fluorene	86	60-120
Phenanthrene	84	60-120
Anthracene	89	60-120
Fluoranthene	93	60-120
Pyrene	84	60-120
Chrysene	85	60-120
Benzo(a)anthracene	96	60-120
Benzo(b)fluoranthene	98	60-120
Benzo(k)fluoranthene	92	60-120
Benzo(a)pyrene	97	60-120
Indeno(1,2,3-c,d)pyrene	83	60-120
Dibenz(a,h)anthracene	78	60-120
Benzo(g,h,i)perylene	71	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	84	60-120
Pyrene-d10	84	60-120
Benzo(a)pyrene-d12	116	50-150
Fluoranthene-d10	95	50-150

Client Sample ID: LCSD

Lab ID#: 2309169-09AA

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

File Name:	12091604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/16/23 10:33 AM
		Date of Extraction: 9/14/23

Compound	%Recovery	Method Limits
Naphthalene	72	60-120
2-Methylnaphthalene	78	60-120
2-Chloronaphthalene	81	60-120
Acenaphthylene	83	60-120
Acenaphthene	75	60-120
Fluorene	82	60-120
Phenanthrene	80	60-120
Anthracene	84	60-120
Fluoranthene	86	60-120
Pyrene	83	60-120
Chrysene	83	60-120
Benzo(a)anthracene	92	60-120
Benzo(b)fluoranthene	95	60-120
Benzo(k)fluoranthene	90	60-120
Benzo(a)pyrene	94	60-120
Indeno(1,2,3-c,d)pyrene	75	60-120
Dibenz(a,h)anthracene	75	60-120
Benzo(g,h,i)perylene	67	60-120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorene-d10	85	60-120
Pyrene-d10	86	60-120
Benzo(a)pyrene-d12	109	50-150
Fluoranthene-d10	88	50-150