Hanson, David L - DNR

From: Heidi Woelfel <Heidi.Woelfel@gza.com>
Sent: Wednesday, June 21, 2023 7:00 AM
To: Hanson, David L - DNR; Becky Rowland
Cc: Nobile, Trevor W - DNR; Alessi, Timothy G - DNR; Kloczko, Nathan F - DHS; Heidi Woelfel; Bernard Fenelon; John Ausburn
Subject: FW: Proj. Name: Building 3 Lydell, Project ID: 27259, Project #: 20.0150985.27, Final Report: WO# 2306391A, Eurofins Air Toxics, LLC
Attachments: 2306391A_d.pdf; 2306391ACOC.pdf; ATLSTDEDD_2306391A.xls

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Good Morning,
Additional data from Building 3 came in late night. Please note the outdoor sample results along with the rest of the data.
Thank you,
Heidi

Heidi Woelfel
Senior Project Manager
GZA | 17975 West Sarah Lane, Suite 100 | Brookfield, WI 53045
O: 262-754-2594 c: 414.687.3313 | heidi.woelfel@gza.com | www.gza.com | LinkedIn

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From: Jade.White@et.eurofinsus.com <Jade.White@et.eurofinsus.com>
Sent: Tuesday, June 20, 2023 11:29 PM
To: Heidi Woelfel <Heidi.Woelfel@gza.com>
Subject: [EXTERNAL] Proj. Name: Building 3 Lydell, Project ID: 27259, Project #: 20.0150985.27, Final Report: WO# 2306391A, Eurofins Air Toxics, LLC

Proj. Name: Building 3 Lydell, Project ID: 27259, Project #: 20.0150985.27, Final Report: WO# 2306391A, Eurofins Air Toxics, LLC

Dear Ms. Heidi Woelfel ,

Thank you for choosing Eurofins Air Toxics, LLC to provide your analytical services.

Your final report information appears below.

Project Name: Building 3 Lydell
Date Received: 6/19/2023
Date Promised: 6/20/2023

Sample Listing

Sample	Analysis	Collection Date
3-116	Passive RAD 145 (TD)	6/17/2023
3-114	Passive RAD 145 (TD)	6/17/2023
3-108	Passive RAD 145 (TD)	6/17/2023
3-1-Common	Passive RAD 145 (TD)	6/17/2023
3-2-Elevator	Passive RAD 145 (TD)	6/17/2023
3-3-Elevator	Passive RAD 145 (TD)	6/17/2023
3-4-Elevator	Passive RAD 145 (TD)	6/17/2023
3-Outdoor	Passive RAD 145 (TD)	6/17/2023
3-126	Passive RAD 145 (TD)	6/17/2023

Attached to this email are your Final Report and Chain of Custody. These documents are provided in Adobe PDF Format for your convenience. Additionally, we are pleased to provide the data as an EXCEL Report for your added convenience.

If you are expecting a Client Specific Electronic Data Deliverable (EDD) or Data Validation Package (eCVP), you will receive a separate notification when it is complete.

If you have any questions or concerns please contact me at your earliest convenience. My goal is to ensure that your project expectations are met with early and prompt resolution.

Your Final Report and EXCEL Report (as well as all project related documents) can also be accessed at https://airtoxics.eurofins.com. Please contact me if you eed assistance accessing this service.

Thank you for your continued business.

Notes:
This Workorder (2306391A) is one of a multipart workorder, consisting of the following fractions:
2306391A,2306391B
Each Workorder Fraction will be delivered in a separate report.

Sincerely,

Jade White
Project Manager
Eurofins Air Toxics, LLC
180 Blue Ravine Road, Ste. B
Folsom, CA 95630

916-985-1000

Jade.White@et.eurofinsus.com
www.airtoxics.com

GM

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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.

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6/20/2023
Ms. Heidi Woelfel
GZA GeoEnvironmental, Inc.
17975 West Sarah Lane
Suite 150
Brookfield WI 53045

Project Name: Building 3 Lydell
Project #: 20.0150985.27
Workorder #: 2306391A

Dear Ms. Heidi Woelfel

The following report includes the data for the above referenced project for sample(s) received on 6/19/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive RAD 145 (TD) 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: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2306391A

Work Order Summary

CLIENT:	Ms. Heidi Woelfel GZA GeoEnvironmental, Inc. 17975 West Sarah Lane Suite 150 Brookfield, WI 53045	**BILL TO:**	Ms. Heidi Woelfel GZA GeoEnvironmental, Inc. 17975 West Sarah Lane Suite 150 Brookfield, WI 53045
PHONE:	262-754-2560	**P.O. #**	
FAX:	262754-9711	**PROJECT #**	20.0150985.27 Building 3 Lydell
DATE RECEIVED:	06/19/2023	**CONTACT:**	Jade White
DATE COMPLETED:	06/20/2023		

FRACTION #	NAME	TEST
01A	3-116	Passive RAD 145 (TD)
02A	3-114	Passive RAD 145 (TD)
03A	3-108	Passive RAD 145 (TD)
05A	3-1-Common	Passive RAD 145 (TD)
06A	3-2-Elevator	Passive RAD 145 (TD)
07A	3-3-Elevator	Passive RAD 145 (TD)
08A	3-4-Elevator	Passive RAD 145 (TD)
09A	3-Outdoor	Passive RAD 145 (TD)
10A	3-126	Passive RAD 145 (TD)
11A	Lab Blank	Passive RAD 145 (TD)
12A	CCV	Passive RAD 145 (TD)
13A	LCS	Passive RAD 145 (TD)
13AA	LCSD	Passive RAD 145 (TD)

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 06/20/23

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 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Passive TO-17 GC/MS
GZA GeoEnvironmental, Inc.
Workorder# 2306391A

Nine Radiello 145 (VOC TD) samples were received on June 19, 2023. The laboratory performed the analysis via EPA Method TO-17 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 sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value.

The modification to EPA Method TO-17 method is based on the sample collection procedures. Method TO-17 relies on active sample collection rather than passive sample collection.

Receiving Notes

The Chain of Custody contained incorrect method information. EATL proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 1490 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

The recovery of surrogate 4-Bromofluorobenzene in samples 3-114, 3-2-Elevator, 3-3-Elevator and 3-4-Elevator was outside control limits due to high level hydrocarbon matrix interference.

Trichloroethene in sample 3-114 exceeded the instrument calibration range. Data is reported as qualified.

Toluene in samples 3-108, 3-1-Common, 3-2-Elevator, 3-3-Elevator, 3-4-Elevator and 3-126 exceeded the instrument calibration range. Data is reported as qualified.

Styrene in samples 3-116, 3-114, 3-108, 3-2-Elevator, 3-3-Elevator, 3-4-Elevator and 3-126 exceeded the instrument calibration range. Data is reported as qualified.

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.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
CN - See case narrative explanation.
C - Estimated concentration due to calculated uptake rate

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
PASSIVE RAD 145 (TD)

Client Sample ID: 3-116

Lab ID#: 2306391A-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.25	13	0.33
Benzene	20	0.50	130	3.2
Trichloroethene	5.0	0.13	190	4.7
Toluene	50	1.1	330	7.6
Tetrachloroethene	5.0	0.14	6.2	0.17
Ethyl Benzene	10	0.27	140	3.9
m,p-Xylene	20	0.52	460	12
o-Xylene	10	0.28	190	5.2
Styrene	10	0.25	3100 E	79 E

Client Sample ID: 3-114

Lab ID#: 2306391A-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.25	12	0.30
Benzene	20	0.50	100	2.5
Trichloroethene	5.0	0.13	2200 E	56 E
Toluene	50	1.2	420	9.6
Ethyl Benzene	10	0.27	140	3.6
m,p-Xylene	20	0.52	450	12
o-Xylene	10	0.28	180	4.9
Styrene	10	0.25	2100 E	54 E

Client Sample ID: 3-108

Lab ID#: 2306391A-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.25	15	0.38
Benzene	20	0.50	120	3.1
Trichloroethene	5.0	0.13	220	5.6
Toluene	50	1.2	640 E	15 E
Ethyl Benzene	10	0.27	120	3.2
m,p-Xylene	20	0.52	420	11

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 3-108

Lab ID#: 2306391A-03A

o-Xylene	10	0.28	160	4.4
Styrene	10	0.26	2300 E	58 E

Client Sample ID: 3-1-Common

Lab ID#: 2306391A-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.25	32	0.79
Benzene	20	0.49	94	2.3
Trichloroethene	5.0	0.13	120	2.9
Toluene	50	1.1	2600 E	59 E
Tetrachloroethene	5.0	0.13	8.1	0.22
Ethyl Benzene	10	0.27	65	1.7
m,p-Xylene	20	0.52	240	6.1
o-Xylene	10	0.28	100	2.9
Styrene	10	0.25	310	7.8

Client Sample ID: 3-2-Elevator

Lab ID#: 2306391A-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.25	48	1.2
Benzene	20	0.49	110	2.6
Trichloroethene	5.0	0.13	210	5.4
Toluene	50	1.1	580 E	13 E
Ethyl Benzene	10	0.27	44	1.2
m,p-Xylene	20	0.51	130	3.4
o-Xylene	10	0.28	55	1.5
Styrene	10	0.25	940 E	24 E

Client Sample ID: 3-3-Elevator

Lab ID#: 2306391A-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 3-3-Elevator

Lab ID#: 2306391A-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.25	38	0.94
Benzene	20	0.49	140	3.4
Trichloroethene	5.0	0.12	160	4.0
Toluene	50	1.1	620 E	14 E
Tetrachloroethene	5.0	0.13	7.4	0.20
Ethyl Benzene	10	0.26	41	1.1
m,p-Xylene	20	0.51	120	3.2
o-Xylene	10	0.28	55	1.5
Styrene	10	0.25	1200 E	29 E

Client Sample ID: 3-4-Elevator

Lab ID#: 2306391A-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.25	68	1.7
Benzene	20	0.49	64	1.6
Trichloroethene	5.0	0.13	150	3.7
Toluene	50	1.1	600 E	14 E
Tetrachloroethene	5.0	0.14	5.4	0.14
Ethyl Benzene	10	0.27	33	0.89
m,p-Xylene	20	0.52	100	2.7
o-Xylene	10	0.28	45	1.2
Styrene	10	0.25	770 E	19 E

Client Sample ID: 3-Outdoor

Lab ID#: 2306391A-09A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Benzene	20	0.52	83	2.2
Toluene	50	1.2	130	3.2
Ethyl Benzene	10	0.28	19	0.54
m,p-Xylene	20	0.54	64	1.7
o-Xylene	10	0.29	23	0.68

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Summary of Detected Compounds
PASSIVE RAD 145 (TD)

Client Sample ID: 3-Outdoor

Lab ID#: 2306391A-09A

Styrene	10	0.27	33	0.89

Client Sample ID: 3-126

Lab ID#: 2306391A-10A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Cyclohexane	10	0.26	61	1.6
Benzene	20	0.52	91	2.4
Trichloroethene	5.0	0.13	23	0.62
Toluene	50	1.2	1000 E	25 E
Ethyl Benzene	10	0.28	82	2.3
m,p-Xylene	20	0.54	270	7.2
o-Xylene	10	0.29	110	3.3
Styrene	10	0.26	1100 E	30 E

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Client Sample ID: 3-116

Lab ID#: 2306391A-01A

PASSIVE RAD 145 (TD)

File Name:	**9062006**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 2:01:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 12:49 PM**

Compound	**Rpt. Limit (ng)**	**Rpt. Limit (ug/m3)**	**Amount (ng)**	**Amount (ug/m3)**
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Cyclohexane	10	0.25	13	0.33
Benzene	20	0.50	130	3.2
Trichloroethene	5.0	0.13	190	4.7
Toluene	50	1.1	330	7.6
Tetrachloroethene	5.0	0.14	6.2	0.17
Ethyl Benzene	10	0.27	140	3.9
m,p-Xylene	20	0.52	460	12
o-Xylene	10	0.28	190	5.2
Styrene	10	0.25	3100 E	79 E

E = Exceeds instrument calibration range.

Temperature = 68.0F , duration time = 1490 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	125	70-130

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Client Sample ID: 3-114

Lab ID#: 2306391A-02A

PASSIVE RAD 145 (TD)

File Name:	**9062007**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 1:59:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 01:29 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Cyclohexane	10	0.25	12	0.30
Benzene	20	0.50	100	2.5
Trichloroethene	5.0	0.13	2200 E	56 E
Toluene	50	1.2	420	9.6
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
Ethyl Benzene	10	0.27	140	3.6
m,p-Xylene	20	0.52	450	12
o-Xylene	10	0.28	180	4.9
Styrene	10	0.25	2100 E	54 E

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits.

Temperature = 68.0F , duration time = 1485 minutes.
Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	132 Q	70-130

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Client Sample ID: 3-108

Lab ID#: 2306391A-03A

PASSIVE RAD 145 (TD)

File Name:	**9062008**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 1:57:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 02:09 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.35	Not Detected	Not Detected
Cyclohexane	10	0.25	15	0.38
Benzene	20	0.50	120	3.1
Trichloroethene	5.0	0.13	220	5.6
Toluene	50	1.2	640 E	15 E
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
Ethyl Benzene	10	0.27	120	3.2
m,p-Xylene	20	0.52	420	11
o-Xylene	10	0.28	160	4.4
Styrene	10	0.26	2300 E	58 E

E = Exceeds instrument calibration range.

Temperature = 68.0F , duration time = 1480 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	130	70-130

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Client Sample ID: 3-1-Common

Lab ID#: 2306391A-05A

PASSIVE RAD 145 (TD)

File Name:	**9062009**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 2:07:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 02:49 PM**

Compound	**Rpt. Limit (ng)**	**Rpt. Limit (ug/m3)**	**Amount (ng)**	**Amount (ug/m3)**
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Cyclohexane	10	0.25	32	0.79
Benzene	20	0.49	94	2.3
Trichloroethene	5.0	0.13	120	2.9
Toluene	50	1.1	2600 E	59 E
Tetrachloroethene	5.0	0.13	8.1	0.22
Ethyl Benzene	10	0.27	65	1.7
m,p-Xylene	20	0.52	240	6.1
o-Xylene	10	0.28	100	2.9
Styrene	10	0.25	310	7.8

E = Exceeds instrument calibration range.

Temperature = 72.0F , duration time = 1481 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	129	70-130

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Client Sample ID: 3-2-Elevator

Lab ID#: 2306391A-06A

PASSIVE RAD 145 (TD)

File Name:	**9062010**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 2:18:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 03:30 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Cyclohexane	10	0.25	48	1.2
Benzene	20	0.49	110	2.6
Trichloroethene	5.0	0.13	210	5.4
Toluene	50	1.1	580 E	13 E
Tetrachloroethene	5.0	0.13	Not Detected	Not Detected
Ethyl Benzene	10	0.27	44	1.2
m,p-Xylene	20	0.51	130	3.4
o-Xylene	10	0.28	55	1.5
Styrene	10	0.25	940 E	24 E

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits.

Temperature = 70.0F , duration time = 1490 minutes.
Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	134 Q	70-130

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Client Sample ID: 3-3-Elevator

Lab ID#: 2306391A-07A

PASSIVE RAD 145 (TD)

File Name:	**9062011**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 2:16:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 04:10 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Cyclohexane	10	0.25	38	0.94
Benzene	20	0.49	140	3.4
Trichloroethene	5.0	0.12	160	4.0
Toluene	50	1.1	620 E	14 E
Tetrachloroethene	5.0	0.13	7.4	0.20
Ethyl Benzene	10	0.26	41	1.1
m,p-Xylene	20	0.51	120	3.2
o-Xylene	10	0.28	55	1.5
Styrene	10	0.25	1200 E	29 E

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits.

Temperature = 73.0F , duration time = 1485 minutes.
Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	131 Q	70-130

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Client Sample ID: 3-4-Elevator

Lab ID#: 2306391A-08A

PASSIVE RAD 145 (TD)

File Name:	**9062012**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 2:14:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 04:50 PM**

Compound	**Rpt. Limit (ng)**	**Rpt. Limit (ug/m3)**	**Amount (ng)**	**Amount (ug/m3)**
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Cyclohexane	10	0.25	68	1.7
Benzene	20	0.49	64	1.6
Trichloroethene	5.0	0.13	150	3.7
Toluene	50	1.1	600 E	14 E
Tetrachloroethene	5.0	0.14	5.4	0.14
Ethyl Benzene	10	0.27	33	0.89
m,p-Xylene	20	0.52	100	2.7
o-Xylene	10	0.28	45	1.2
Styrene	10	0.25	770 E	19 E

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits.

Temperature = 72.0F , duration time = 1480 minutes.
Container Type: Radiello 145 (VOC TD)

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	133 Q	70-130

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Client Sample ID: 3-Outdoor

Lab ID#: 2306391A-09A

PASSIVE RAD 145 (TD)

File Name:	**9062013**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 1:20:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 05:30 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Cyclohexane	10	0.26	Not Detected	Not Detected
Benzene	20	0.52	83	2.2
Trichloroethene	5.0	0.13	Not Detected	Not Detected
Toluene	50	1.2	130	3.2
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
Ethyl Benzene	10	0.28	19	0.54
m,p-Xylene	20	0.54	64	1.7
o-Xylene	10	0.29	23	0.68
Styrene	10	0.27	33	0.89

Temperature = 63.0F , duration time = 1441 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	127	70-130

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Client Sample ID: 3-126

Lab ID#: 2306391A-10A

PASSIVE RAD 145 (TD)

File Name:	**9062014**	**Date of Extraction: NA**	**Date of Collection: 6/17/23 3:51:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 06:10 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.36	Not Detected	Not Detected
Cyclohexane	10	0.26	61	1.6
Benzene	20	0.52	91	2.4
Trichloroethene	5.0	0.13	23	0.62
Toluene	50	1.2	1000 E	25 E
Tetrachloroethene	5.0	0.14	Not Detected	Not Detected
Ethyl Benzene	10	0.28	82	2.3
m,p-Xylene	20	0.54	270	7.2
o-Xylene	10	0.29	110	3.3
Styrene	10	0.26	1100 E	30 E

E = Exceeds instrument calibration range.

Temperature = 70.0F , duration time = 1416 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	126	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2306391A-11A

PASSIVE RAD 145 (TD)

File Name:	**9062005**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 10:41 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
1,1,1-Trichloroethane	10	0.34	Not Detected	Not Detected
Cyclohexane	10	0.24	Not Detected	Not Detected
Benzene	20	0.49	Not Detected	Not Detected
Trichloroethene	5.0	0.12	Not Detected	Not Detected
Toluene	50	1.1	Not Detected	Not Detected
Tetrachloroethene	5.0	0.13	Not Detected	Not Detected
Ethyl Benzene	10	0.26	Not Detected	Not Detected
m,p-Xylene	20	0.51	Not Detected	Not Detected
o-Xylene	10	0.28	Not Detected	Not Detected
Styrene	10	0.25	Not Detected	Not Detected

Temperature = 73.0F , duration time = 1490 minutes.

Container Type: Radiello 145 (VOC TD)

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	125	70-130

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Client Sample ID: CCV
Lab ID#: 2306391A-12A
PASSIVE RAD 145 (TD)

File Name:	**9062002**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 08:54 AM**

Compound	%Recovery
1,1,1-Trichloroethane	100
Cyclohexane	103
Benzene	98
Trichloroethene	96
Toluene	82
Tetrachloroethene	72
Ethyl Benzene	82
m,p-Xylene	82
o-Xylene	82
Styrene	79

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	124	70-130

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Client Sample ID: LCS
Lab ID#: 2306391A-13A
PASSIVE RAD 145 (TD)

File Name:	**9062003**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 09:34 AM**

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	74	60-140
Cyclohexane	91	70-130
Benzene	88	70-130
Trichloroethene	91	70-130
Toluene	71	70-130
Tetrachloroethene	63 Q	70-130
Ethyl Benzene	73	70-130
m,p-Xylene	76	70-130
o-Xylene	76	70-130
Styrene	67 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	128	70-130

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Client Sample ID: LCSD
Lab ID#: 2306391A-13AA
PASSIVE RAD 145 (TD)

File Name:	**9062004**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/20/23 10:06 AM**

Compound	**%Recovery**	**Method Limits**
1,1,1-Trichloroethane	69	60-140
Cyclohexane	98	70-130
Benzene	104	70-130
Trichloroethene	88	70-130
Toluene	77	70-130
Tetrachloroethene	62 Q	70-130
Ethyl Benzene	73	70-130
m,p-Xylene	76	70-130
o-Xylene	76	70-130
Styrene	63 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
4-Bromofluorobenzene	125	70-130

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Passive Sorbent Chain of Custody

WO#: 2306391

Case Seal #:

Company: GZA GeoEnvironmental

Project #: 20.0150985.27 P.O.#

Project Manager: Heidi Woelfel

Project Name: Building 3 Lydell

Contact phone/email: 414 687 3313

Collected by: H Woelfel

Sample Matrix (check one): Indoor/Outdoor Air | Soil Gas | Workplace Monitoring | Other

Reporting Units (circle): ppbv ug/m3 ppmv mg/m3 ug ng

Turn Around Time: Normal; Rush; Specify

Lab ID	Sample Identification	Sampler ID	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	Other	Analysis Requested	Sample Comments:
01A	~~3-130~~ 3-116	SU244	6-16-23	1311	6-17-23	1401	X				TO-15	68°~~85°~~ F indoor temp
02A	3-114	SU374	6-16-23	1314	6-17-23	1359	X				TO-15	68°~~85°~~ F indoor temp
03A	3-108	SL201	6-16-23	1317	6-17-23	1357	X				TO15	68°
04A	3-1-Elevator	SU250	6-16-23	1322	6-17-23	1410	X				TO15	68°
05A	3-1-Common	SU372	6-16-23	1326	6-17-23	1407	X				TO15	68°
06A	3-2-Elevator	SU371	6-16-23	1328	6-17-23	1418	X				TO15	~~68°~~ 75°
07A	3-3-Elevator	SU373	6-16-23	1331	6-17-23	1416	X				TO15	70°
08A	3-4-Elevator	SU367	6-16-23	1334	6-17-23	1414	X				TO15	73°
09A	3-Outdoor	SU375	6-16-23	1319	6-17-23	1320	X				TO15	72°
10A	3-126	SU370	6-16-23	1615	6-17-23	1551	X				TO15	63°
11A	3-122	SL670	6-16-23	1620	6-17-23	1555	X				TO15	70°
12A	3-120	SL671	6-16-23	1624	6-17-23	1557	X				TO15	70°
13A	3-422	SU247	6-16-23	1653	6-17-23	1606	X				TO15	70°
14A	~~3-316-3-302~~	SL668	6-16-23	1700	6-17-23	1628	X				TO15	72°
												73°

Relinquished by:	Date	Time	Received by:	Date	Time	Notes to Lab:
[signature]	6/17/23	1700	FedEx			
Relinquished by:	Date	Time	Received by:	Date	Time	
			K. Mitchell	6/19/23	1032	

Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples.

Shipper Name: FedEx

Air bill #:

Lab Use Only

Custody Seals Intact? Yes No None

Temperature (°C) NA

Sample Condition Upon Receipt: (circle) Good SDR