Grittner, Paul V - DNR

From: Susan Petrofske <SPETROFSKE@ramboll.com>
Sent: Thursday, February 16, 2023 4:11 PM
To: Grittner, Paul V - DNR
Cc: Kristin Jones (Kristin.Jones@newellco.com); Hedman, Curtis J - DHS; Jeanne Tarvin
Subject: BRRTS #: 02-41-183146 (EZ Paintr/Shur-Line)
Attachments: 1829 E Tesch_Results Notification-January 2023_Redacted.pdf

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Good Afternoon Paul,

Attached is a copy of the data transmittal letter being provided to the property owner at 1829 E. Tesch. The property owner name has been redacted for privacy purposes. This letter includes both the 24-hr and 7-day sampling results. No compounds were detected above the applicable VAL during this sampling event.

(Note: this is the first post SSDS optimization sampling event. The air purifying unit was turned off 24-hrs prior to the start of the sampling event and operation resumed once the 7-day passive sampling was complete.)

Please let us know if you have any questions or if you would like us to upload a copy of this letter to the WDNR submittal portal.

Kind regards
Susan Petrofske

Senior Managing Consultant

D +1 (262) 901-3501
spetrofske@ramboll.com

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA
https://ramboll.com

Classification: Confidential

RAMBOLL

ENVIRONMENT
& HEALTH

Via Overnight Delivery

[redacted]
1829 E. Tesch Avenue
St. Francis, WI 53235

VAPOR SAMPLING RESULTS
FORMER SHUR-LINE FACILITY, 4051 SOUTH IOWA AVENUE
ST. FRANCIS, WISCONSIN, BRRTS NO. 02-41-183146

Dear [redacted]:

February 16, 2023

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T +1 414 837 3607
F +1 414 837 3608
www.ramboll.com

Ref. 1690004991

The purpose of this letter is to provide you with the results of recent testing on your property by Newell Operating Company (NOC) with the oversight of the Wisconsin Department of Natural Resources (WDNR). As you are aware, this testing was conducted because of the potential for contaminant vapors, including trichloroethylene (TCE), from the nearby former Shur-Line facility to migrate through soil, accumulate beneath the foundation of your home, and possibly enter your indoor air.

From January 23 through January 30, 2023, NOC's environmental consultant, Ramboll US Consulting, Inc. (Ramboll), collected samples from your indoor air using both 24-hour and 7-day sampling methods to confirm that the sub-slab depressurization system (SSDS) installed in March 2022 is working properly. Concurrent outdoor air samples were also collected.

Your Test Results

Attached are copies of the laboratory reports and a data summary table that includes both your 24-hour and 7-day indoor and outdoor air samples. The results of this round of sampling show that there were no detections of TCE in the indoor air samples.

The laboratory reports did show the detection of tetrachloroethylene (PCE) in both your 24-hour and 7-day indoor air samples at a concentration of 1.4 micrograms per cubic meter (µg/m^3) and 1.1 µg/m^3, respectively, which are below the WDNR Vapor Action Level (VAL) of 42 µg/m^3. This is referred to as a "detection below screening level." There were no other compounds detected in your 24-hour and 7-day indoor air samples.

PCE was also detected in your 24-hour outdoor air sample at a laboratory estimated ("J"-flagged) concentration of 0.77 µg/m^3. There were no other compounds detected in your 24-hour and 7-day outdoor air samples.

Next Steps

While there were no exceedances of the applicable criteria, NOC, with your permission, will likely need to periodically check on the SSDS and conduct additional

sampling to confirm that levels continue to remain protective over time. We will contact you to discuss a sampling schedule, should the WDNR require additional testing. The SSDS system should remain in operation. Please follow the instructions previously provided if any problems are encountered with the system. In addition, we advise the continued operation of the air purifier placed in your basement until Ramboll can discuss these results with the WDNR. After discussions with the WDNR, a NOC representative will contact you regarding any changes to operation of the air purifier.

If you have any questions regarding the quality of the indoor air, please contact us at the numbers listed below or you may also contact the following:

- Paul Grittner, WDNR, 414-405-0764, Paul.Grittner@wisconsin.gov; or
- Curtis Hedman, Wisconsin Department of Health Services (WDHS), 608-266-6677, Curtis.Hedman@dhs.wisconsin.gov

Sincerely,

Susan Petrofske
Senior Managing Consultant

D +1 262 901 3501
spetrofske@ramboll.com

Jeanne Tarvin, PG, CPG
E&H Americas Country Market Director

D +1 262 901 0085
jtarvin@ramboll.com

cc: Paul Grittner, WDNR
Curtis Hedman, WDHS
Kristin Jones, Newell

ATTACHMENT A

TABLE AND LABORATORY REPORTS (24-HOUR AND 7-DAY)

Table 1. Vapor Analytical Results
1829 East Tesch Avenue
St. Francis, Wisconsin
Ramboll Project No. 1690004991

			Indoor Air		Outdoor Air	
			IA-B		OA	
Target Analyte (µg/m^3)	CAS No.	Residential Indoor Air VAL[1]	24-Hours	7-Days	24-Hours	7-Days
			1/24/2023	1/30/2023	1/24/2023	1/30/2023
Dichloroethane, 1,1-	75-34-3	18	<0.16	<0.16 C	<0.14	<0.16 C
Dichloroethylene, 1,1-	75-35-4	210	<0.25	<0.52 C	<0.22	<0.52 C
Dichloroethylene, 1,2-cis-	156-59-2	42	<0.33	<0.16 C	<0.29	<0.16 C
Dichloroethylene, 1,2-trans-	156-60-5	42	<0.63	<0.33 C	<0.56	<0.33 C
Tetrachloroethylene	127-18-4	42	1.4	1.1	0.77 J	<0.17
Trichloroethane, 1,1,1-	71-55-6	5,200	<0.28	<0.16	<0.24	<0.16
Trichloroethane, 1,1,2-	79-00-5	0.21	<0.39	<0.15 C	<0.35	<0.15 C
Trichloroethylene	79-01-6	2.1	<0.36	<0.14	<0.32	<0.14
Vinyl Chloride	75-01-4	1.7	<0.15	NA	<0.13	NA

Notes:
Standards based on November 2022 USEPA Regional Screening Level Tables.
Samples collected over a duration of 24-hours are collected using a stainless steel Summa canister equipped with a vacuum flow regulator and analyzed using USEPA method TO-15. Samples collected over 7-days are collected using a Radiello 130 passive sampler media and analyzed using USEPA method TO-17.
An air purifier was placed in the basement of residence in July 2022. Subsequent indoor air samples were collected with the air purifier not operational at least 24-hours prior to, and during sample collection. After sample collection the air purifier was returned into service.

µg/m^3 = Microgram per cubic meter
VAL= Indoor Air Vapor Action Level

[1] Indoor Air VALs and Sub-Slab Vapor VRSLs are based on an USEPA risk level of 1 in 100,000 or a Hazard Index of 1, whichever is more stringent.

B = Indoor Air Sample Exceeds Residential VAL
C = Estimated concentration due to calculated sampling rate**.**
J = Estimated concentration at or above the level of detection and below the level of quantification.
NA = Not analyzed

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

January 27, 2023

Susan Petrofske
Ramboll US Consulting, Inc.
234 West Florida St.
5th floor
Milwaukee, WI 53204

RE: Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

Dear Susan Petrofske:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Kyle Heimstead, Ramboll US Consulting, Inc.
Paul Lindquist, Ramboll US Consulting, Inc.

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Minneapolis, MN 55414
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CERTIFICATIONS

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10640815001	**1829 E TESCH IA-B**	Air	01/24/23 10:05	01/25/23 10:07
10640815002	**1829 E TESCH OA**	Air	01/24/23 10:10	01/25/23 10:07
10640815003	**1829 E TESCH IA-B CERT#2189**	Air		01/25/23 10:07
10640815004	**1829 E TESCH OA CERT#1613**	Air		01/25/23 10:07
10640815005	**UNUSED PACE0208**	Air		01/25/23 10:07

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SAMPLE ANALYTE COUNT

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10640815001	**1829 E TESCH IA-B**	TO-15	SW	9	PASI-M
10640815002	**1829 E TESCH OA**	TO-15	SW	9	PASI-M
10640815003	**1829 E TESCH IA-B CERT#2189**	TO-15	GT	9	PASI-M
10640815004	**1829 E TESCH OA CERT#1613**	TO-15	GT	9	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

Sample: 1829 E TESCH IA-B **Lab ID: 10640815001** Collected: 01/24/23 10:05 Received: 01/25/23 10:07 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
1,1-Dichloroethane	**<0.16**	ug/m3	1.3	0.16	1.52		01/26/23 13:52	75-34-3	
1,1-Dichloroethene	**<0.25**	ug/m3	1.2	0.25	1.52		01/26/23 13:52	75-35-4	
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.52		01/26/23 13:52	156-59-2	
trans-1,2-Dichloroethene	**<0.63**	ug/m3	1.2	0.63	1.52		01/26/23 13:52	156-60-5	
Tetrachloroethene	**1.4**	ug/m3	1.0	0.38	1.52		01/26/23 13:52	127-18-4	
1,1,1-Trichloroethane	**<0.28**	ug/m3	1.7	0.28	1.52		01/26/23 13:52	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/m3	0.84	0.39	1.52		01/26/23 13:52	79-00-5	
Trichloroethene	**<0.36**	ug/m3	0.83	0.36	1.52		01/26/23 13:52	79-01-6	
Vinyl chloride	**<0.15**	ug/m3	0.40	0.15	1.52		01/26/23 13:52	75-01-4	

Sample: 1829 E TESCH OA **Lab ID: 10640815002** Collected: 01/24/23 10:10 Received: 01/25/23 10:07 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
1,1-Dichloroethane	**<0.14**	ug/m3	1.1	0.14	1.34		01/26/23 14:59	75-34-3	
1,1-Dichloroethene	**<0.22**	ug/m3	1.1	0.22	1.34		01/26/23 14:59	75-35-4	
cis-1,2-Dichloroethene	**<0.29**	ug/m3	1.1	0.29	1.34		01/26/23 14:59	156-59-2	
trans-1,2-Dichloroethene	**<0.56**	ug/m3	1.1	0.56	1.34		01/26/23 14:59	156-60-5	
Tetrachloroethene	**0.77J**	ug/m3	0.92	0.33	1.34		01/26/23 14:59	127-18-4	
1,1,1-Trichloroethane	**<0.24**	ug/m3	1.5	0.24	1.34		01/26/23 14:59	71-55-6	
1,1,2-Trichloroethane	**<0.35**	ug/m3	0.74	0.35	1.34		01/26/23 14:59	79-00-5	
Trichloroethene	**<0.32**	ug/m3	0.73	0.32	1.34		01/26/23 14:59	79-01-6	
Vinyl chloride	**<0.13**	ug/m3	0.35	0.13	1.34		01/26/23 14:59	75-01-4	

Sample: 1829 E TESCH IA-B CERT#2189 **Lab ID: 10640815003** Collected: Received: 01/25/23 10:07 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
1,1-Dichloroethane	**<0.054**	ug/m3	0.41	0.054	0.5		01/14/23 01:49	75-34-3	
1,1-Dichloroethene	**<0.082**	ug/m3	0.40	0.082	0.5		01/14/23 01:49	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		01/14/23 01:49	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/m3	0.40	0.21	0.5		01/14/23 01:49	156-60-5	
Tetrachloroethene	**<0.12**	ug/m3	0.34	0.12	0.5		01/14/23 01:49	127-18-4	
1,1,1-Trichloroethane	**<0.090**	ug/m3	0.56	0.090	0.5		01/14/23 01:49	71-55-6	
1,1,2-Trichloroethane	**<0.13**	ug/m3	0.28	0.13	0.5		01/14/23 01:49	79-00-5	
Trichloroethene	**<0.12**	ug/m3	0.27	0.12	0.5		01/14/23 01:49	79-01-6	
Vinyl chloride	**<0.048**	ug/m3	0.13	0.048	0.5		01/14/23 01:49	75-01-4	

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ANALYTICAL RESULTS

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

Sample: 1829 E TESCH OA CERT#1613 **Lab ID: 10640815004** Collected: Received: 01/25/23 10:07 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15								
	Pace Analytical Services - Minneapolis								
1,1-Dichloroethane	**<0.054**	ug/m3	0.41	0.054	0.5		01/13/23 23:38	75-34-3	
1,1-Dichloroethene	**<0.082**	ug/m3	0.40	0.082	0.5		01/13/23 23:38	75-35-4	
cis-1,2-Dichloroethene	**<0.11**	ug/m3	0.40	0.11	0.5		01/13/23 23:38	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/m3	0.40	0.21	0.5		01/13/23 23:38	156-60-5	
Tetrachloroethene	**<0.12**	ug/m3	0.34	0.12	0.5		01/13/23 23:38	127-18-4	
1,1,1-Trichloroethane	**<0.090**	ug/m3	0.56	0.090	0.5		01/13/23 23:38	71-55-6	
1,1,2-Trichloroethane	**<0.13**	ug/m3	0.28	0.13	0.5		01/13/23 23:38	79-00-5	
Trichloroethene	**<0.12**	ug/m3	0.27	0.12	0.5		01/13/23 23:38	79-01-6	
Vinyl chloride	**<0.048**	ug/m3	0.13	0.048	0.5		01/13/23 23:38	75-01-4	

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QUALITY CONTROL DATA

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

QC Batch: 864734
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10640815001, 10640815002

METHOD BLANK: 4565257
Matrix: Air
Associated Lab Samples: 10640815001, 10640815002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.090	0.56	01/26/23 11:51	
1,1,2-Trichloroethane	ug/m3	<0.13	0.28	01/26/23 11:51	
1,1-Dichloroethane	ug/m3	<0.054	0.41	01/26/23 11:51	
1,1-Dichloroethene	ug/m3	<0.082	0.40	01/26/23 11:51	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	01/26/23 11:51	
Tetrachloroethene	ug/m3	<0.12	0.34	01/26/23 11:51	
trans-1,2-Dichloroethene	ug/m3	<0.21	0.40	01/26/23 11:51	
Trichloroethene	ug/m3	<0.12	0.27	01/26/23 11:51	
Vinyl chloride	ug/m3	<0.048	0.13	01/26/23 11:51	

LABORATORY CONTROL SAMPLE: 4565258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58	58.6	101	70-133	
1,1,2-Trichloroethane	ug/m3	58.3	61.9	106	70-133	
1,1-Dichloroethane	ug/m3	42.5	43.9	103	70-133	
1,1-Dichloroethene	ug/m3	41.9	41.2	98	69-134	
cis-1,2-Dichloroethene	ug/m3	42.1	45.5	108	70-133	
Tetrachloroethene	ug/m3	72	73.3	102	70-139	
trans-1,2-Dichloroethene	ug/m3	42.3	43.7	103	70-132	
Trichloroethene	ug/m3	57.2	59.0	103	70-132	
Vinyl chloride	ug/m3	27.2	26.6	98	64-136	

SAMPLE DUPLICATE: 4566309

Parameter	Units	10640815001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.28	<0.28		25	
1,1,2-Trichloroethane	ug/m3	<0.39	<0.39		25	
1,1-Dichloroethane	ug/m3	<0.16	<0.16		25	
1,1-Dichloroethene	ug/m3	<0.25	<0.25		25	
cis-1,2-Dichloroethene	ug/m3	<0.33	<0.33		25	
Tetrachloroethene	ug/m3	1.4	1.4	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.63	<0.63		25	
Trichloroethene	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.15	<0.15		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

SAMPLE DUPLICATE: 4566310

Parameter	Units	10640815002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.24	<0.24		25	
1,1,2-Trichloroethane	ug/m3	<0.35	<0.35		25	
1,1-Dichloroethane	ug/m3	<0.14	<0.14		25	
1,1-Dichloroethene	ug/m3	<0.22	<0.22		25	
cis-1,2-Dichloroethene	ug/m3	<0.29	<0.29		25	
Tetrachloroethene	ug/m3	0.77J	0.75J		25	
trans-1,2-Dichloroethene	ug/m3	<0.56	<0.56		25	
Trichloroethene	ug/m3	<0.32	<0.32		25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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(612)607-1700

QUALIFIERS

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690004991 SHUR-LINE
Pace Project No.: 10640815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10640815001	**1829 E TESCH IA-B**	TO-15	864734		
10640815002	**1829 E TESCH OA**	TO-15	864734		
10640815003	**1829 E TESCH IA-B CERT#2189**	TO-15	864920		
10640815004	**1829 E TESCH OA CERT#1613**	TO-15	864920		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

56963

Page: 1 of 1

Section A Required Client Information:

Company: RAMBOLL
Address: 234 W. FLORIDA ST. 5TH FLOOR MILWAUKEE WI 53204
Email To: KYLE HEIMSTEAD
Phone: 262 901 0129 Fax:
Requested Due Date/TAT: 48 HR TAT

Section B Required Project Information:

Report To: SUSAN PETROFSKE
Copy To: PAUL LINDQUIST
Purchase Order No.:
Project Name: SHOR-LINE
Project Number: 1690000499.1

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State WI

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	1829 E TESCH IA-R	6LC		1/23/23	1032	1/24/23	1005 ~~1010~~	-30	-4	2189	1033								X		001 003
2	1829 E TESCH OA	6LC		1/23/23	1048	1/24/23	1010	-30	-1	1613	0049								X		002 004
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Method:

Comments:
- REPORT PCE, TCE, CIS 1,2 DCE, TRANS 1,2 DCE VINYL CHLORIDE, 1,1,1 TCA, 1,1,2 TCA 1,1 DCE, 1,1 DCA
- 48 HR TAT

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Kyle Heimstead / RAMBOLL	1/24/23	1030	FEDEX Matt / Pace	1-25-23	10:07

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: KYLE HEIMSTEAD
SIGNATURE of SAMPLER: Kyle Heimstead
DATE Signed (MM / DD / YY): 01/24/2023

WO#: 10640815

10640815

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0113 v01_Sample Condition Upon Receipt (SCUR) - Air
	Effective Date: 02/25/2022

Air Sample Condition Upon Receipt

Client Name: Ramboll

Project #: WO#:10640815

PM: CT1 Due Date: 01/27/23

CLIENT: Ramboll-WI

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 7710 5920 0775 ☐ See Exception

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other:

Date & Initials of Person Examining Contents: 1-25-23 MI

				Comments:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☒ Yes	☐ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-15 or APH)** -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes	☐ No		10.
Media: Air Can | Airbag				11. Individually Certified Cans? Y | N (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No		12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes	☐ No		13.

Gauge #: ☐ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 10AIR17 ☐ 10AIR47 ☒ 10AIR48

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA-B	2189	1033	-3.5	+5					
OA	1613	49	0	+5					
Return	208	2738	0	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carolynne Trout **Date:** 1/25/23

Note: *Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Qualtrax ID: 52723

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2/13/2023
Mr. Paul Lindquist
Ramboll
234 W. Florida St.
5th Floor
Milwaukee WI 53204

Project Name: SHUR-LINE
Project #: 1690004991
Workorder #: 2301550

Dear Mr. Paul Lindquist

The following report includes the data for the above referenced project for sample(s) received on 1/31/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC 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 #: 2301550

Work Order Summary

CLIENT:	Mr. Paul Lindquist Ramboll 234 W. Florida St. 5th Floor Milwaukee, WI 53204	**BILL TO:**	Accounts Payable Ramboll P.O. Box 4873 Syracuse, NY 13221-4873
PHONE:	414-837-3544	**P.O. #**	
FAX:		**PROJECT #**	1690004991 SHUR-LINE
DATE RECEIVED:	01/31/2023	**CONTACT:**	Jade White
DATE COMPLETED:	02/13/2023		

FRACTION #	NAME	TEST
01A	1829 E TESCH IA-B PASSIVE	Passive S.E. RAD130/SKC
02A	1829 E TESCH OA PASSIVE	Passive S.E. RAD130/SKC
03A	TRIP BLANK	Passive S.E. RAD130/SKC
04A	Lab Blank	Passive S.E. RAD130/SKC
05A	CCV	Passive S.E. RAD130/SKC
06A	LCS	Passive S.E. RAD130/SKC
06AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 02/13/23

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 NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-017, Effective date: 10/18/2022, Expiration date: 10/17/2023.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
Ramboll
Workorder# 2301550

Three Radiello 130 (Solvent) samples were received on January 31, 2023. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

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. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A time was not provided by the field sampler.

Analytical Notes

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.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank and Trip Blank, a sampling duration of 10058 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.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate 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

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

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
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 1829 E TESCH IA-B PASSIVE

Lab ID#: 2301550-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Tetrachloroethene	0.10	0.17	0.68	1.1

Client Sample ID: 1829 E TESCH OA PASSIVE

Lab ID#: 2301550-02A

No Detections Were Found.

Client Sample ID: TRIP BLANK

Lab ID#: 2301550-03A

No Detections Were Found.

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Client Sample ID: 1829 E TESCH IA-B PASSIVE

Lab ID#: 2301550-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020923sim**	**Date of Collection: 1/30/23 10:10:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/23 04:11 PM**
		Date of Extraction: 2/9/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	0.68	1.1
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10058 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

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Client Sample ID: 1829 E TESCH OA PASSIVE

Lab ID#: 2301550-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020924sim**	**Date of Collection: 1/30/23 10:18:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/23 04:39 PM**
		Date of Extraction: 2/9/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10050 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

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Client Sample ID: TRIP BLANK

Lab ID#: 2301550-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020925sim**	**Date of Collection: 1/30/23**
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/23 05:07 PM**
		Date of Extraction: 2/9/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10058 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2301550-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020905sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/23 07:57 AM**
		Date of Extraction: 2/9/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10058 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

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Client Sample ID: CCV

Lab ID#: 2301550-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020902sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/23 06:38 AM**
		Date of Extraction: NA

Compound	%Recovery
1,1,1-Trichloroethane	102
Trichloroethene	105
Tetrachloroethene	111
1,1-Dichloroethane	91
1,1-Dichloroethene	101
cis-1,2-Dichloroethene	95
trans-1,2-Dichloroethene	97
1,1,2-Trichloroethane	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130

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Client Sample ID: LCS

Lab ID#: 2301550-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020903sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/23 07:04 AM**
		Date of Extraction: 2/9/23

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	93	70-130
Trichloroethene	94	70-130
Tetrachloroethene	94	70-130
1,1-Dichloroethane	90	70-130
1,1-Dichloroethene	102	70-130
cis-1,2-Dichloroethene	90	70-130
trans-1,2-Dichloroethene	94	70-130
1,1,2-Trichloroethane	87	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

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Client Sample ID: LCSD

Lab ID#: 2301550-06AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18020904sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/9/23 07:31 AM**
		Date of Extraction: 2/9/23

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	92	70-130
Trichloroethene	94	70-130
Tetrachloroethene	97	70-130
1,1-Dichloroethane	86	70-130
1,1-Dichloroethene	97	70-130
cis-1,2-Dichloroethene	88	70-130
trans-1,2-Dichloroethene	91	70-130
1,1,2-Trichloroethane	89	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

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Passive Sorbent Chain of Custody

WO# 2301550

Case Seal #: _____

Company: RAMBOLL
Project #: 1690004991
P.O. #:
Project Manager: PAUL LINDQUIST
Project Name: SHUR-LINE
Contact phone/email: 262-901-3510 PLINDQUIST@RAMBOLL.COM
Collected by: K. HOLMSTEAD

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

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

Turn Around Time: ☒ Normal ☐ Rush _____ Specify

Lab I.D.	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	1829 E. TECH IA-B PASSIVE	PE994	01/23/2023	10:32	01/30/2023	1010	X				TO-17 / VOC SHORT LIST	
02A	1829 E TECH OA PASSIVE	PE995	↓	10:48	↓	1018	X				↓	
03A	TRIP BLANK	PE996	↓	–	↓	–	X				↓	

Relinquished by: (signature)	Date	Time	Received by: (signature)	Date	Time	Notes to Lab:
[signature]			[signature]	1-30-23	1600	
[signature]	1-30-23	1700	[signature] 1058 FATL	01/31/23	1058	

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, of shipping of samples.

Lab Use Only

Shipper Name: FEDEX
Air Bill #:
Custody Seals Intact? Yes No None
Temperature (°C) NA
Sample Condition Upon Receipt: (circle) Good SDR