RAMBOLL

ENVIRONMENT
& HEALTH

Sent Via E-Mail

Mr. Kevin McKnight
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
625 E. County Y, Suite 700
Oshkosh, WI 54901-9731

Mr. Sean Fraser
Fraser Properties LLC
398 Wellhouse Drive
Kimberly, WI 54136

NR 716.14 DATA TRANSMITTAL
VAPOR SAMPLING RESULTS
FORMER MIRRO PLANT NO. 20 SITE
44 WALNUT STREET, MANITOWOC, WISCONSIN
BRRTS NOS. 02-08-520157 (ERP) AND 06-08-426946 (VPLE)

April 20, 2022

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

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F +1 414 837 3608
www.ramboll.com

Ref. 1690019558

Dear Mr. McKnight and Mr. Fraser:

Ramboll US Consulting, Inc. (Ramboll), on behalf of Newell Operating Company (NOC), is providing the Wisconsin Department of Natural Resources (WDNR) and the current property owner with the attached vapor sample analytical results from sampling activities conducted on March 25, 2022, at the former Mirro Plant No. 20 facility. Consistent with the scope of work described in our September 14, 2021 e-mail to the WDNR, three indoor air (8-hour) samples (IA-B-1, IA-B-2, and IA-B-3) were collected from the basement level and four sub-slab vapor samples (VP-1 through VP-4) were collected from the machine shop occupied by JTD Enterprises, Inc. (slab on grade portion of the first floor). A concurrent outdoor air sample was also collected (OA). The laboratory analytical report, tabulated results, and figures showing the vapor locations are attached. Please note that this is the same information provided to you via e-mail on April 11, 2022.

The analytical results documented the presence of low-level concentrations of select chlorinated volatile organic compounds (CVOCs) in the basement indoor air and first floor sub-slab vapor samples; however, none of the detected concentrations exceeded their applicable vapor action level (VAL) or vapor risk screening level (VRSL). These vapor intrusion investigation results, along with the additional items outlined in the WDNR approved Site Investigation Work Plan, will be formally documented in the Wisconsin Administrative Code NR 716 Site Investigation Report planned for Summer 2022.

If you have any questions or require additional information, feel free to contact the undersigned or NOC representative Hudson Green (hgreen@patriotenviro.com, 610-323-4634).

Sincerely,

Ramboll US Consulting, Inc.

Susan Petrofske
Senior Managing Consultant

D 262 901 3501
spetrofske@ramboll.com

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

D 262 901 0085
jtarvin@ramboll.com

cc: Kristin Jones, NOC
Hudson Green, Patriot
Tom Nordgren, Floor Space Development, LLC

ATTACHMENTS

Table 1: Air Sample Analytical Results – March 2022

Figure 1A: Vapor Sampling - Basement Locations

Figure 1B: Vapor Sampling – First Floor Locations

Laboratory Analytical Report (Pace Analytical)

Table 1. Air Sample Analytical Results - March 2022

Former Mirro Plant No. 20
44 Walnut Street, Chilton, WI
BRRTS No.: 02-08-520157 (ERP) & 06-08-426946 (VPLE)

Sample Location	Sample Type	Sample Date	CVOC 1,1,1-Trichloroethane	CVOC 1,1-Dichloroethene	CVOC 1,2-Dichloroethane	CVOC cis-1,2-Dichloroethene	CVOC Tetrachloroethene	CVOC trans-1,2-Dichloroethene	CVOC Trichloroethene	CVOC Vinyl Chloride
Reporting Units:			µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
VRSL Large Commercial/Industrial:			**2,200,000**	**88,000**	**470**	**NS**	**18,000**	**18,000**	**880**	**2,800**
VAL Large Commercial/Industrial:			22,000	880	4.7	NS	180	180	8.8	28
IA-B-1	Indoor Air	03/25/2022	<0.27	<0.20	<0.28	61.6	4.1	0.94 J	3.0	2.0
IA-B-2	Indoor Air	03/25/2022	<0.29	<0.22	<0.31	3.6	<0.46	<0.27	<0.31	<0.14
IA-B-3	Indoor Air	03/25/2022	<0.27	<0.20	<0.28	3.2	<0.42	<0.24	<0.28	<0.12
OA	Outdoor Air	03/25/2022	<0.28	<0.21	<0.29	<0.30	<0.44	<0.26	<0.30	<0.13
VP-1	Sub-Slab Vapor	03/25/2022	21.9	<0.21	<0.29	<0.30	674	<0.26	12.1	<0.13
VP-2	Sub-Slab Vapor	03/25/2022	27.1	<0.21	<0.29	<0.30	590	<0.26	<0.30	<0.13
VP-3	Sub-Slab Vapor	03/25/2022	10.5	<0.22	<0.31	<0.31	245	<0.27	0.40 J	<0.14
VP-4	Sub-Slab Vapor	03/25/2022	2.0	<0.21	<0.30	<0.30	34.4	<0.26	<0.30	<0.13
IA-B-1 CERT#1233	QA/QC	03/28/2022	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043
IA-B-2 CERT#1750	QA/QC	03/28/2022	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043
IA-B-3 CERT#1188	QA/QC	03/28/2022	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043
OA CERT#2702	QA/QC	03/28/2022	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043
VP-1 CERT#3902	QA/QC	03/28/2022	<0.19	<0.14	<0.19	<0.20	<0.29	<0.17	<0.20	<0.087
VP-2 CERT#0713	QA/QC	03/28/2022	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043
VP-3 CERT#0007	QA/QC	03/28/2022	<0.19	<0.14	<0.19	<0.20	<0.29	<0.17	<0.20	<0.087
VP-4 CERT#1582	QA/QC	03/28/2022	<0.093	<0.069	<0.097	<0.098	<0.15	<0.084	<0.098	<0.043

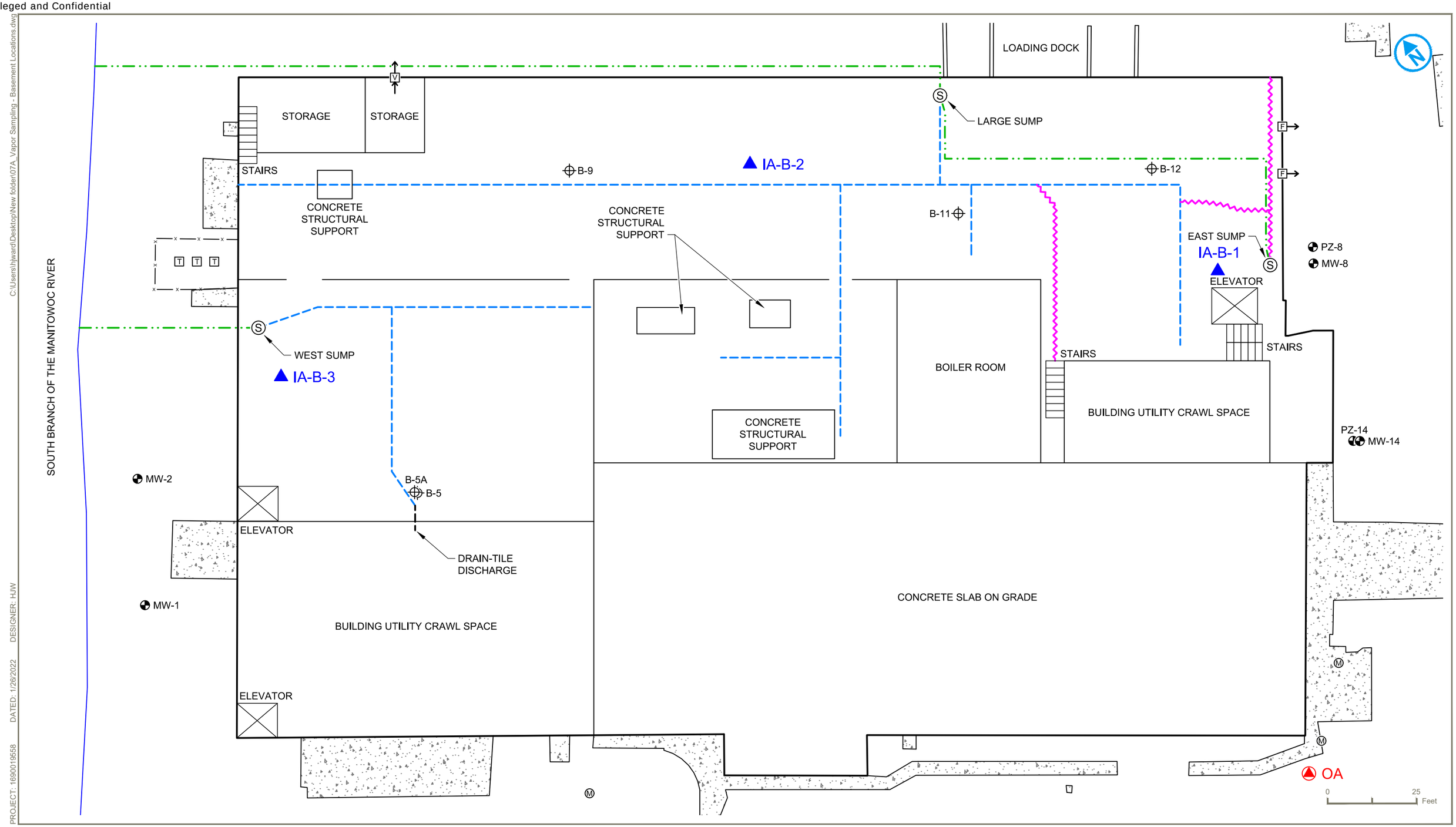
[O:MGP 4/10/22, C:ECB 4/11/22]

Notes:
Gray Text analyte not detected

Results & Flags:
< = Concentration was not detected above the reported limit
J = Estimated concentration

Acronyms:
µg/m³ = micrograms per cubic meter
BRRTS = Bureau for Remediation and Redevelopment Tracking System (Wisconsin Department of Natural Resources (WDNR))
CVOC = Chlorinated Volatile Organic Compound
VAL = Vapor Action Level for indoor air
VRSL = Vapor Risk Screening Level (= VAL/Attenuation Factor) for subsurface samples

VALs and VRSLs based on U.S.EPA Regional Screening Level Tables; see http://dnr.wi.gov/topic/brownfields/vapor.html for more details.



C:\Users\hjward\Desktop\New folder\07A_Vapor Sampling - Basement Locations.dwg

DESIGNER: HJW

DATED: 1/26/2022

PROJECT: 1690019558

LEGEND

- CHAIN LINK FENCE
- CONCRETE AREA
- SUMP PIT
- MANHOLE
- TRANSFORMER
- GROUNDWATER MONITORING WELL
- ORIGINAL TRENCH NETWORK
- POST-2002 FLOOR SAWCUTS
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- GROUNDWATER MONITORING POINT
- FAN
- WALL VENT
- SUMP DISCHARGE LINE

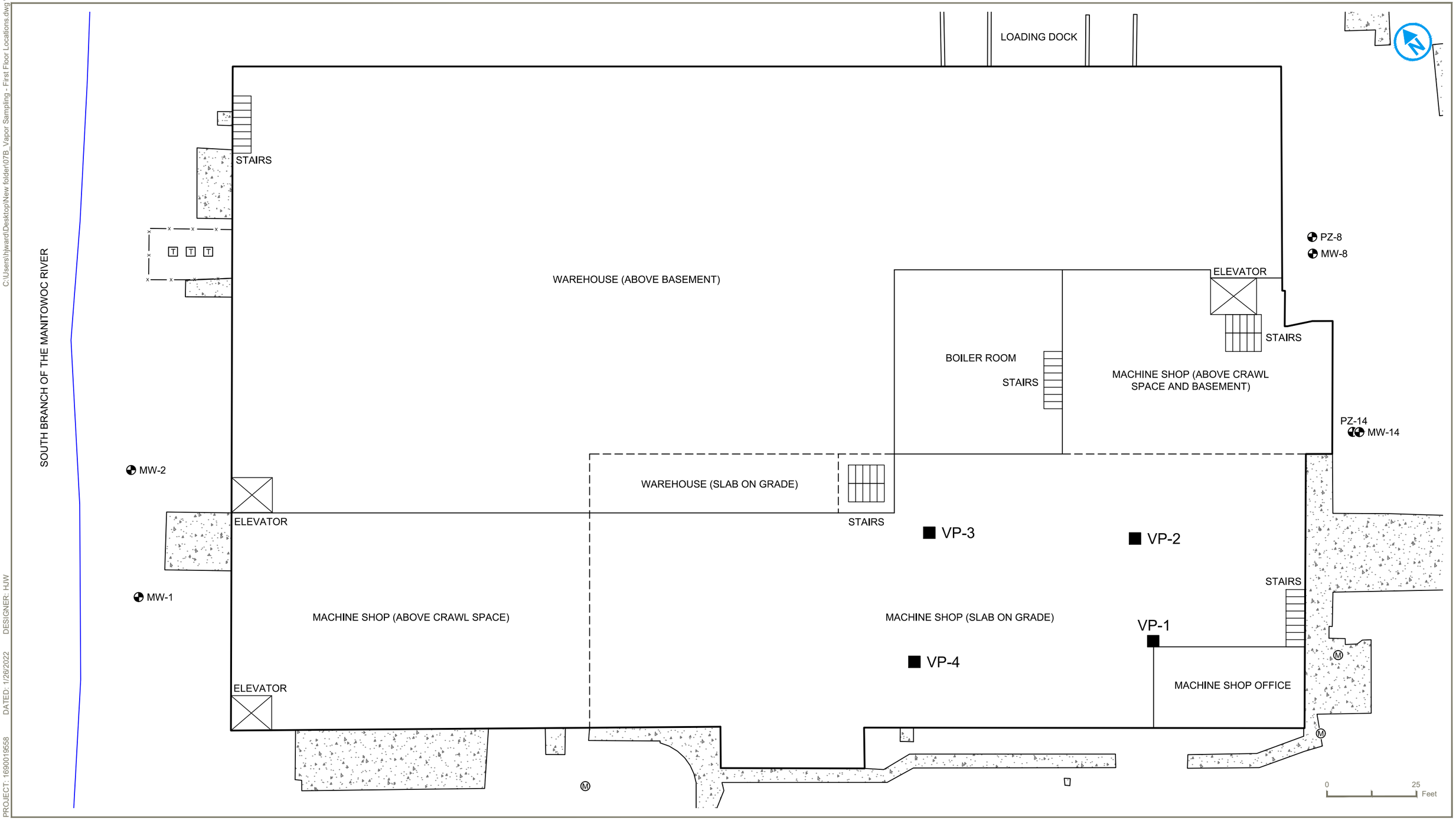
NOTE
LOCATIONS OF INTERIOR BUILDING FEATURES AND HISTORIC INTERIOR SAMPLE LOCATIONS ARE APPROXIMATE.

VAPOR SAMPLING - BASEMENT LOCATIONS

NEWELL OPERATING COMPANY
FORMER MIRRO PLANT NO. 20
44 WALNUT STREET
CHILTON, WISCONSIN

FIGURE 1A

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



LEGEND

- CHAIN LINK FENCE
- CONCRETE AREA
- MANHOLE
- TRANSFORMER
- GROUNDWATER MONITORING WELL
- SUB-SLAB VAPOR MONITORING LOCATION
- GROUNDWATER MONITORING POINT
- FAN

NOTE
LOCATIONS OF INTERIOR BUILDING FEATURES AND HISTORIC INTERIOR SAMPLE LOCATIONS ARE APPROXIMATE.

VAPOR SAMPLING - FIRST FLOOR LOCATIONS

NEWELL OPERATING COMPANY
FORMER MIRRO PLANT NO. 20
44 WALNUT STREET
CHILTON, WISCONSIN

FIGURE 1B

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

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

April 08, 2022

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

RE: Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Dear Susan Petrofske:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2022. 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: Paul Lindquist, Ramboll US Consulting, Inc.

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

CERTIFICATIONS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

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
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 #: 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 (*).

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

SAMPLE SUMMARY

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10602311001	**IA-B-1**	Air	03/25/22 13:15	03/28/22 10:54
10602311002	**IA-B-1 CERT#1233**	Air		03/28/22 10:54
10602311003	**IA-B-2**	Air	03/25/22 13:17	03/28/22 10:54
10602311004	**IA-B-2 CERT#1750**	Air		03/28/22 10:54
10602311005	**IA-B-3**	Air	03/25/22 13:19	03/28/22 10:54
10602311006	**IA-B-3 CERT#1188**	Air		03/28/22 10:54
10602311007	**OA**	Air	03/25/22 12:41	03/28/22 10:54
10602311008	**OA CERT#2702**	Air		03/28/22 10:54
10602311009	**VP-1**	Air	03/25/22 14:09	03/28/22 10:54
10602311010	**VP-1 CERT#3902**	Air		03/28/22 10:54
10602311011	**VP-2**	Air	03/25/22 14:12	03/28/22 10:54
10602311012	**VP-2 CERT#0713**	Air		03/28/22 10:54
10602311013	**VP-3**	Air	03/25/22 14:17	03/28/22 10:54
10602311014	**VP-3 CERT#0007**	Air		03/28/22 10:54
10602311015	**VP-4**	Air	03/25/22 14:26	03/28/22 10:54
10602311016	**VP-4 CERT#1582**	Air		03/28/22 10:54

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10602311001	**IA-B-1**	TO-15	SW	8
10602311002	**IA-B-1 CERT#1233**	TO-15	GT	8
10602311003	**IA-B-2**	TO-15	SW	8
10602311004	**IA-B-2 CERT#1750**	TO-15	AJA	8
10602311005	**IA-B-3**	TO-15	SW	8
10602311006	**IA-B-3 CERT#1188**	TO-15	SW	8
10602311007	**OA**	TO-15	SW	8
10602311008	**OA CERT#2702**	TO-15	AJA	8
10602311009	**VP-1**	TO-15	MJL, SW	8
10602311010	**VP-1 CERT#3902**	TO-15	HMH	8
10602311011	**VP-2**	TO-15	HMH	8
10602311012	**VP-2 CERT#0713**	TO-15	MJL	8
10602311013	**VP-3**	TO-15	AFV	8
10602311014	**VP-3 CERT#0007**	TO-15	AJA	8
10602311015	**VP-4**	TO-15	AFV	8
10602311016	**VP-4 CERT#1582**	TO-15	AJA	8

PASI-M = Pace Analytical Services - Minneapolis

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

PROJECT NARRATIVE

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Date: April 08, 2022

VP-2 (Lab ID: 10602311011)

- K1: The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

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

PROJECT NARRATIVE

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Method: **TO-15**
Description: TO15 MSV AIR
Client: Ramboll Environ- WI
Date: April 08, 2022

General Information:
8 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Method: **TO-15**
Description: Individual Can Certification
Client: Ramboll Environ- WI
Date: April 08, 2022

General Information:
8 samples were analyzed for TO-15 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Sample: IA-B-1 **Lab ID: 10602311001** Collected: 03/25/22 13:15 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.28**	ug/m3	1.2	0.28	1.46		04/06/22 22:52	107-06-2	
1,1-Dichloroethene	**<0.20**	ug/m3	1.2	0.20	1.46		04/06/22 22:52	75-35-4	
cis-1,2-Dichloroethene	**61.6**	ug/m3	1.2	0.28	1.46		04/06/22 22:52	156-59-2	
trans-1,2-Dichloroethene	**0.94J**	ug/m3	1.2	0.25	1.46		04/06/22 22:52	156-60-5	
Tetrachloroethene	**4.1**	ug/m3	1.0	0.43	1.46		04/06/22 22:52	127-18-4	
1,1,1-Trichloroethane	**<0.27**	ug/m3	1.6	0.27	1.46		04/06/22 22:52	71-55-6	
Trichloroethene	**3.0**	ug/m3	0.80	0.29	1.46		04/06/22 22:52	79-01-6	
Vinyl chloride	**2.0**	ug/m3	0.38	0.13	1.46		04/06/22 22:52	75-01-4	

Sample: IA-B-1 CERT#1233 **Lab ID: 10602311002** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		03/22/22 08:19	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		03/22/22 08:19	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		03/22/22 08:19	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		03/22/22 08:19	156-60-5	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		03/22/22 08:19	127-18-4	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		03/22/22 08:19	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		03/22/22 08:19	79-01-6	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		03/22/22 08:19	75-01-4	

Sample: IA-B-2 **Lab ID: 10602311003** Collected: 03/25/22 13:17 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.31**	ug/m3	1.3	0.31	1.58		04/06/22 23:26	107-06-2	
1,1-Dichloroethene	**<0.22**	ug/m3	1.3	0.22	1.58		04/06/22 23:26	75-35-4	
cis-1,2-Dichloroethene	**3.6**	ug/m3	1.3	0.31	1.58		04/06/22 23:26	156-59-2	
trans-1,2-Dichloroethene	**<0.27**	ug/m3	1.3	0.27	1.58		04/06/22 23:26	156-60-5	
Tetrachloroethene	**<0.46**	ug/m3	1.1	0.46	1.58		04/06/22 23:26	127-18-4	
1,1,1-Trichloroethane	**<0.29**	ug/m3	1.8	0.29	1.58		04/06/22 23:26	71-55-6	
Trichloroethene	**<0.31**	ug/m3	0.86	0.31	1.58		04/06/22 23:26	79-01-6	
Vinyl chloride	**<0.14**	ug/m3	0.41	0.14	1.58		04/06/22 23:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Sample: IA-B-2 CERT#1750 **Lab ID: 10602311004** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		03/20/22 03:13	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		03/20/22 03:13	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		03/20/22 03:13	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		03/20/22 03:13	156-60-5	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		03/20/22 03:13	127-18-4	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		03/20/22 03:13	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		03/20/22 03:13	79-01-6	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		03/20/22 03:13	75-01-4	

Sample: IA-B-3 **Lab ID: 10602311005** Collected: 03/25/22 13:19 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.28**	ug/m3	1.2	0.28	1.44		04/06/22 23:59	107-06-2	
1,1-Dichloroethene	**<0.20**	ug/m3	1.2	0.20	1.44		04/06/22 23:59	75-35-4	
cis-1,2-Dichloroethene	**3.2**	ug/m3	1.2	0.28	1.44		04/06/22 23:59	156-59-2	
trans-1,2-Dichloroethene	**<0.24**	ug/m3	1.2	0.24	1.44		04/06/22 23:59	156-60-5	
Tetrachloroethene	**<0.42**	ug/m3	0.99	0.42	1.44		04/06/22 23:59	127-18-4	
1,1,1-Trichloroethane	**<0.27**	ug/m3	1.6	0.27	1.44		04/06/22 23:59	71-55-6	
Trichloroethene	**<0.28**	ug/m3	0.79	0.28	1.44		04/06/22 23:59	79-01-6	
Vinyl chloride	**<0.12**	ug/m3	0.37	0.12	1.44		04/06/22 23:59	75-01-4	

Sample: IA-B-3 CERT#1188 **Lab ID: 10602311006** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		03/19/22 10:44	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		03/19/22 10:44	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		03/19/22 10:44	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		03/19/22 10:44	156-60-5	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		03/19/22 10:44	127-18-4	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		03/19/22 10:44	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		03/19/22 10:44	79-01-6	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		03/19/22 10:44	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Sample: OA **Lab ID: 10602311007** Collected: 03/25/22 12:41 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.29**	ug/m3	1.3	0.29	1.52		04/07/22 00:33	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.52		04/07/22 00:33	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.2	0.30	1.52		04/07/22 00:33	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/m3	1.2	0.26	1.52		04/07/22 00:33	156-60-5	
Tetrachloroethene	**<0.44**	ug/m3	1.0	0.44	1.52		04/07/22 00:33	127-18-4	
1,1,1-Trichloroethane	**<0.28**	ug/m3	1.7	0.28	1.52		04/07/22 00:33	71-55-6	
Trichloroethene	**<0.30**	ug/m3	0.83	0.30	1.52		04/07/22 00:33	79-01-6	
Vinyl chloride	**<0.13**	ug/m3	0.40	0.13	1.52		04/07/22 00:33	75-01-4	

Sample: OA CERT#2702 **Lab ID: 10602311008** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		03/20/22 06:56	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		03/20/22 06:56	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		03/20/22 06:56	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		03/20/22 06:56	156-60-5	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		03/20/22 06:56	127-18-4	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		03/20/22 06:56	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		03/20/22 06:56	79-01-6	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		03/20/22 06:56	75-01-4	

Sample: VP-1 **Lab ID: 10602311009** Collected: 03/25/22 14:09 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.29**	ug/m3	1.3	0.29	1.52		04/07/22 01:06	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.52		04/07/22 01:06	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.2	0.30	1.52		04/07/22 01:06	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/m3	1.2	0.26	1.52		04/07/22 01:06	156-60-5	
Tetrachloroethene	**674**	ug/m3	10.5	4.4	15.2		04/07/22 12:06	127-18-4	
1,1,1-Trichloroethane	**21.9**	ug/m3	1.7	0.28	1.52		04/07/22 01:06	71-55-6	
Trichloroethene	**12.1**	ug/m3	0.83	0.30	1.52		04/07/22 01:06	79-01-6	
Vinyl chloride	**<0.13**	ug/m3	0.40	0.13	1.52		04/07/22 01:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Sample: VP-1 CERT#3902 **Lab ID: 10602311010** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.19**	ug/m3	0.82	0.19	1		03/22/22 08:33	107-06-2	
1,1-Dichloroethene	**<0.14**	ug/m3	0.81	0.14	1		03/22/22 08:33	75-35-4	
cis-1,2-Dichloroethene	**<0.20**	ug/m3	0.81	0.20	1		03/22/22 08:33	156-59-2	
trans-1,2-Dichloroethene	**<0.17**	ug/m3	0.81	0.17	1		03/22/22 08:33	156-60-5	
Tetrachloroethene	**<0.29**	ug/m3	0.69	0.29	1		03/22/22 08:33	127-18-4	
1,1,1-Trichloroethane	**<0.19**	ug/m3	1.1	0.19	1		03/22/22 08:33	71-55-6	
Trichloroethene	**<0.20**	ug/m3	0.55	0.20	1		03/22/22 08:33	79-01-6	
Vinyl chloride	**<0.087**	ug/m3	0.26	0.087	1		03/22/22 08:33	75-01-4	

Sample: VP-2 **Lab ID: 10602311011** Collected: 03/25/22 14:12 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.29**	ug/m3	1.3	0.29	1.52		04/07/22 16:29	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.52		04/07/22 16:29	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.2	0.30	1.52		04/07/22 16:29	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/m3	1.2	0.26	1.52		04/07/22 16:29	156-60-5	
Tetrachloroethene	**590**	ug/m3	5.2	2.2	7.6		04/08/22 11:46	127-18-4	
1,1,1-Trichloroethane	**27.1**	ug/m3	1.7	0.28	1.52		04/07/22 16:29	71-55-6	
Trichloroethene	**<0.30**	ug/m3	1.7	0.30	1.52		04/07/22 16:29	79-01-6	
Vinyl chloride	**<0.13**	ug/m3	0.40	0.13	1.52		04/07/22 16:29	75-01-4	

Sample: VP-2 CERT#0713 **Lab ID: 10602311012** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		03/21/22 10:56	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		03/21/22 10:56	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		03/21/22 10:56	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		03/21/22 10:56	156-60-5	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		03/21/22 10:56	127-18-4	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		03/21/22 10:56	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		03/21/22 10:56	79-01-6	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		03/21/22 10:56	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Sample: VP-3 **Lab ID: 10602311013** Collected: 03/25/22 14:17 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.31**	ug/m3	1.3	0.31	1.58		04/07/22 00:44	107-06-2	
1,1-Dichloroethene	**<0.22**	ug/m3	1.3	0.22	1.58		04/07/22 00:44	75-35-4	
cis-1,2-Dichloroethene	**<0.31**	ug/m3	1.3	0.31	1.58		04/07/22 00:44	156-59-2	
trans-1,2-Dichloroethene	**<0.27**	ug/m3	1.3	0.27	1.58		04/07/22 00:44	156-60-5	
Tetrachloroethene	**245**	ug/m3	1.1	0.46	1.58		04/07/22 00:44	127-18-4	
1,1,1-Trichloroethane	**10.5**	ug/m3	1.8	0.29	1.58		04/07/22 00:44	71-55-6	
Trichloroethene	**0.40J**	ug/m3	0.86	0.31	1.58		04/07/22 00:44	79-01-6	
Vinyl chloride	**<0.14**	ug/m3	0.82	0.14	1.58		04/07/22 00:44	75-01-4	

Sample: VP-3 CERT#0007 **Lab ID: 10602311014** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.19**	ug/m3	0.82	0.19	1		03/17/22 17:26	107-06-2	
1,1-Dichloroethene	**<0.14**	ug/m3	0.81	0.14	1		03/17/22 17:26	75-35-4	
cis-1,2-Dichloroethene	**<0.20**	ug/m3	0.81	0.20	1		03/17/22 17:26	156-59-2	
trans-1,2-Dichloroethene	**<0.17**	ug/m3	0.81	0.17	1		03/17/22 17:26	156-60-5	
Tetrachloroethene	**<0.29**	ug/m3	0.69	0.29	1		03/17/22 17:26	127-18-4	
1,1,1-Trichloroethane	**<0.19**	ug/m3	1.1	0.19	1		03/17/22 17:26	71-55-6	
Trichloroethene	**<0.20**	ug/m3	0.55	0.20	1		03/17/22 17:26	79-01-6	
Vinyl chloride	**<0.087**	ug/m3	0.26	0.087	1		03/17/22 17:26	75-01-4	

Sample: VP-4 **Lab ID: 10602311015** Collected: 03/25/22 14:26 Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.30**	ug/m3	1.3	0.30	1.55		04/07/22 01:12	107-06-2	
1,1-Dichloroethene	**<0.21**	ug/m3	1.2	0.21	1.55		04/07/22 01:12	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.2	0.30	1.55		04/07/22 01:12	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/m3	1.2	0.26	1.55		04/07/22 01:12	156-60-5	
Tetrachloroethene	**34.4**	ug/m3	1.1	0.45	1.55		04/07/22 01:12	127-18-4	
1,1,1-Trichloroethane	**2.0**	ug/m3	1.7	0.29	1.55		04/07/22 01:12	71-55-6	
Trichloroethene	**<0.30**	ug/m3	0.85	0.30	1.55		04/07/22 01:12	79-01-6	
Vinyl chloride	**<0.13**	ug/m3	0.81	0.13	1.55		04/07/22 01:12	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Sample: VP-4 CERT#1582 **Lab ID: 10602311016** Collected: Received: 03/28/22 10:54 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,2-Dichloroethane	**<0.097**	ug/m3	0.41	0.097	0.5		03/20/22 04:28	107-06-2	
1,1-Dichloroethene	**<0.069**	ug/m3	0.40	0.069	0.5		03/20/22 04:28	75-35-4	
cis-1,2-Dichloroethene	**<0.098**	ug/m3	0.40	0.098	0.5		03/20/22 04:28	156-59-2	
trans-1,2-Dichloroethene	**<0.084**	ug/m3	0.40	0.084	0.5		03/20/22 04:28	156-60-5	
Tetrachloroethene	**<0.15**	ug/m3	0.34	0.15	0.5		03/20/22 04:28	127-18-4	
1,1,1-Trichloroethane	**<0.093**	ug/m3	0.56	0.093	0.5		03/20/22 04:28	71-55-6	
Trichloroethene	**<0.098**	ug/m3	0.27	0.098	0.5		03/20/22 04:28	79-01-6	
Vinyl chloride	**<0.043**	ug/m3	0.13	0.043	0.5		03/20/22 04:28	75-01-4	

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QUALITY CONTROL DATA

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

QC Batch: 807718
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10602311001, 10602311003, 10602311005, 10602311007, 10602311009

METHOD BLANK: 4286842 Matrix: Air
Associated Lab Samples: 10602311001, 10602311003, 10602311005, 10602311007, 10602311009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.093	0.56	04/06/22 11:45	
1,1-Dichloroethene	ug/m3	<0.069	0.40	04/06/22 11:45	
1,2-Dichloroethane	ug/m3	<0.097	0.41	04/06/22 11:45	
cis-1,2-Dichloroethene	ug/m3	<0.098	0.40	04/06/22 11:45	
Tetrachloroethene	ug/m3	<0.15	0.34	04/06/22 11:45	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	04/06/22 11:45	
Trichloroethene	ug/m3	<0.098	0.27	04/06/22 11:45	
Vinyl chloride	ug/m3	<0.043	0.13	04/06/22 11:45	

LABORATORY CONTROL SAMPLE: 4286843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	69.5	117	70-130	
1,1-Dichloroethene	ug/m3	43.5	51.6	119	70-130	
1,2-Dichloroethane	ug/m3	44.4	53.1	120	70-134	
cis-1,2-Dichloroethene	ug/m3	43.4	55.0	127	70-136	
Tetrachloroethene	ug/m3	73.4	85.9	117	70-134	
trans-1,2-Dichloroethene	ug/m3	43.6	52.4	120	70-134	
Trichloroethene	ug/m3	58.4	68.1	117	70-134	
Vinyl chloride	ug/m3	28	35.1	125	70-132	

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: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

QC Batch: 807821
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10602311013, 10602311015

METHOD BLANK: 4287352 Matrix: Air
Associated Lab Samples: 10602311013, 10602311015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	04/06/22 17:38	
1,1-Dichloroethene	ug/m3	<0.14	0.81	04/06/22 17:38	
1,2-Dichloroethane	ug/m3	<0.19	0.82	04/06/22 17:38	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	04/06/22 17:38	
Tetrachloroethene	ug/m3	<0.29	0.69	04/06/22 17:38	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	04/06/22 17:38	
Trichloroethene	ug/m3	<0.20	0.55	04/06/22 17:38	
Vinyl chloride	ug/m3	<0.087	0.52	04/06/22 17:38	

LABORATORY CONTROL SAMPLE: 4287353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.2	49.5	90	70-130	
1,1-Dichloroethene	ug/m3	41.5	35.2	85	70-130	
1,2-Dichloroethane	ug/m3	42.1	35.6	84	70-134	
cis-1,2-Dichloroethene	ug/m3	41	34.6	84	70-136	
Tetrachloroethene	ug/m3	69.9	64.2	92	70-134	
trans-1,2-Dichloroethene	ug/m3	40.8	34.0	83	70-134	
Trichloroethene	ug/m3	55.7	50.8	91	70-134	
Vinyl chloride	ug/m3	26.6	21.4	81	70-132	

SAMPLE DUPLICATE: 4288193

Parameter	Units	10602316001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.20	<0.20		25	
1,2-Dichloroethane	ug/m3	<0.28	<0.28		25	
cis-1,2-Dichloroethene	ug/m3	<0.28	<0.28		25	
Tetrachloroethene	ug/m3	<0.42	<0.42		25	
trans-1,2-Dichloroethene	ug/m3	<0.24	<0.24		25	
Trichloroethene	ug/m3	3.2	3.4	6	25	
Vinyl chloride	ug/m3	0.32J	0.33J		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

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

QUALITY CONTROL DATA

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

SAMPLE DUPLICATE: 4288194

Parameter	Units	10602316003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.29	<0.29		25	
1,1-Dichloroethene	ug/m3	<0.21	<0.21		25	
1,2-Dichloroethane	ug/m3	0.33J	<0.30		25	
cis-1,2-Dichloroethene	ug/m3	<0.30	<0.30		25	
Tetrachloroethene	ug/m3	<0.45	<0.45		25	
trans-1,2-Dichloroethene	ug/m3	<0.26	<0.26		25	
Trichloroethene	ug/m3	<0.30	<0.30		25	
Vinyl chloride	ug/m3	0.50J	0.54J		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

QC Batch: 808072
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10602311011

METHOD BLANK: 4288583 Matrix: Air
Associated Lab Samples: 10602311011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.19	1.1	04/07/22 12:05	
1,1-Dichloroethene	ug/m3	<0.14	0.81	04/07/22 12:05	
1,2-Dichloroethane	ug/m3	<0.19	0.82	04/07/22 12:05	
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	04/07/22 12:05	
Tetrachloroethene	ug/m3	<0.29	0.69	04/07/22 12:05	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	04/07/22 12:05	
Trichloroethene	ug/m3	<0.20	1.1	04/07/22 12:05	MN
Vinyl chloride	ug/m3	<0.087	0.26	04/07/22 12:05	

LABORATORY CONTROL SAMPLE: 4288584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	57.7	97	70-130	
1,1-Dichloroethene	ug/m3	43.5	40.3	92	70-130	
1,2-Dichloroethane	ug/m3	44.4	47.4	107	70-134	
cis-1,2-Dichloroethene	ug/m3	43.4	48.1	111	70-136	
Tetrachloroethene	ug/m3	73.4	79.4	108	70-134	
trans-1,2-Dichloroethene	ug/m3	43.6	43.1	99	70-134	
Trichloroethene	ug/m3	58.4	61.1	105	70-134	
Vinyl chloride	ug/m3	28	27.4	98	70-132	

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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QUALIFIERS

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

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.

SAMPLE QUALIFIERS

Sample: 10602311011

[1] The Total Hydrocarbon (THC) pattern occured in the first half of the chromatogram (before toluene).

ANALYTE QUALIFIERS

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690019558 MIRRO PLANT 20
Pace Project No.: 10602311

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10602311001	**IA-B-1**	TO-15	807718		
10602311003	**IA-B-2**	TO-15	807718		
10602311005	**IA-B-3**	TO-15	807718		
10602311007	**OA**	TO-15	807718		
10602311009	**VP-1**	TO-15	807718		
10602311011	**VP-2**	TO-15	808072		
10602311013	**VP-3**	TO-15	807821		
10602311015	**VP-4**	TO-15	807821		
10602311002	**IA-B-1 CERT#1233**	TO-15	806744		
10602311004	**IA-B-2 CERT#1750**	TO-15	806744		
10602311006	**IA-B-3 CERT#1188**	TO-15	806744		
10602311008	**OA CERT#2702**	TO-15	806744		
10602311010	**VP-1 CERT#3902**	TO-15	806744		
10602311012	**VP-2 CERT#0713**	TO-15	806744		
10602311014	**VP-3 CERT#0007**	TO-15	806744		
10602311016	**VP-4 CERT#1582**	TO-15	806744		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

52578

Page: 1 of 1

Section A Required Client Information:

Company: RAMBOLL
Address: 234 W. FLORIDA ST. 5TH FLOOR
MILWAUKEE WI 53204
Email To: KYLE.HEDMSTEAD
Phone: 262 901 0829 Fax:
Requested Due Date/TAT: 3/30/22 / 48 HR TAT

Section B Required Project Information:

Report To: SUSAN PETROFSKE
Copy To: PAUL LINDQUIST
Purchase Order No.:
Project Name: MIRRO PLANT 20
Project Number: 1690019553

Section C Invoice Information:

Attention: SUSAN PETROFSKE
Company Name: RAMBOLL
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 43268

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

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

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	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: 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	IA-B-1	6LC		3/25/22	0523	3/25/22	1315	-30	-3	1233	2744						X				001 002
2	IA-B-2	6LC			0525		1317	-30	-3	1750	2615						X				003 004
3	IA-B-3	6LC			0528		1319	-30	-2	1188	0400						X				005 006
4	OA	6LC			0537		1241	-30	-3	2702	2722						X				007 008
5	VP-1	6LC			1330		1409	-30	-3	3902	2911						X				009 010
6	VP-2	6LC			1335		1412	-30	-3	713	2732						X				011 012
7	VP-3	6LC			1340		1417	-30	-3	0007	2786						X				013 014
8	VP-4	6LC			1345		1426	-29	-3	1582	5888						X				015 016
9																					
10																					
11																					
12																					

Comments:
- ONLY REPORT 1,1,1-TCA, 1,1-DLE 1,2-DCA, CIS-1,2-DLE, PLE, TCE TRANS-1,2-DLE, AND VINYL CHLORIDE.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
KYLE HEDMSTEAD/RAMBOLL	3/25/22	1639	Matt Pace	3/28/22	10:54

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 03/25/2022

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

WO#: 10602311
10602311

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - Air**	Document Revised: 13Oct2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0113 Rev.01**	Pace Analytical Services - **Minneapolis**

Air Sample Condition Upon Receipt **Client Name:** Ramboll **Project #:** **WO#: 10602311**

PM: CT1 **Due Date: 03/30/22**

CLIENT: Ramboll-WI

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

Tracking Number: 975384502846, 2857, 2802 ☐ 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: 3-28-22 MT

				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. 2-DAY
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-1	1233	2744	-2.5	+5					
" B-2	1756	2615	-4.5						
" B-3	1188	400	-2						
OA	2702	2722	-3.5						
VP-1	3902	2911	-3.5						
"-2	713	2732	-3.5						
"-3	07	2786	-4.5						
"-4	1582	588	-4						

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Per Susan Petrofske, standard TAT

Project Manager Review: _____ **Date:** 3/29/22

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).*