

**TABLE 1. PASSIVE SUB-SLAB VENTILATION
VAPOR ANALYTICAL RESULTS**

733 N 12TH ST
(FORMERLY 1201-1221 W WELLS ST)
MILWAUKEE, WISCONSIN
RAMBOLL PROJECT NO. 1690005255-001

| Parameters | | Residential | | Small Commercial | | Large Commercial / Industrial | | North (Sub-Slab) | South (Sub-Slab) |
|--------------------------------------|----------|-------------------------------|------------------------------------|-------------------------------|------------------------------------|-------------------------------|------------------------------------|------------------|------------------|
| Analyte ($\mu\text{g}/\text{m}^3$) | CAS No. | Indoor Air VAL ⁽¹⁾ | Sub-Slab Vapor VRSL ⁽¹⁾ | Indoor Air VAL ⁽¹⁾ | Sub-Slab Vapor VRSL ⁽¹⁾ | Indoor Air VAL ⁽¹⁾ | Sub-Slab Vapor VRSL ⁽¹⁾ | 8/17/2021 | 8/17/2021 |
| Benzene | 71-43-2 | 3.6 | 120 | 16 | 530 | 16 | 1,600 | 0.75 | 1.1 |
| Naphthalene | 91-20-3 | 0.83 | 28 | 3.6 | 120 | 3.6 | 360 | <4.4 | <4.4 |
| Tetrachloroethylene | 127-18-4 | 42 | 1,400 | 180 | 6,000 | 180 | 18,000 | <0.59 | 6.5 |
| Toluene | 108-88-3 | 5,200 | 170,000 | 22,000 | 730,000 | 22,000 | 2,200,000 | 4.0 | 2.7 |
| Trichloroethylene | 79-01-6 | 2.1 | 70 | 8.8 | 290 | 8.8 | 880 | 4.7 | 2.0 |

Notes:

Standards based on May 2021 USEPA Regional Screening Level (RSL) Tables.

Samples analyzed using USEPA Method TO-15. Only the 5 VOC shown were analyzed and reported based on historic results.

$\mu\text{g}/\text{m}^3$ = Microgram per cubic meter

VAL= Indoor Air Vapor Action Level

VRSL = Vapor Risk Screening 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.

A = Exceeds Residential VRSL

B = Exceeds Small Commercial VRSL

C = Exceeds Large Commercial/Industrial VRSL

L:\Loop Project Files\CAD\1690005255-001_Marquette University\Acad\2021-09\06_Sub-Slab Ventilation System_Layout.dwg
 PROJECT: 1690005255-001 DATED: 9/9/2021 DESIGNER: HJW

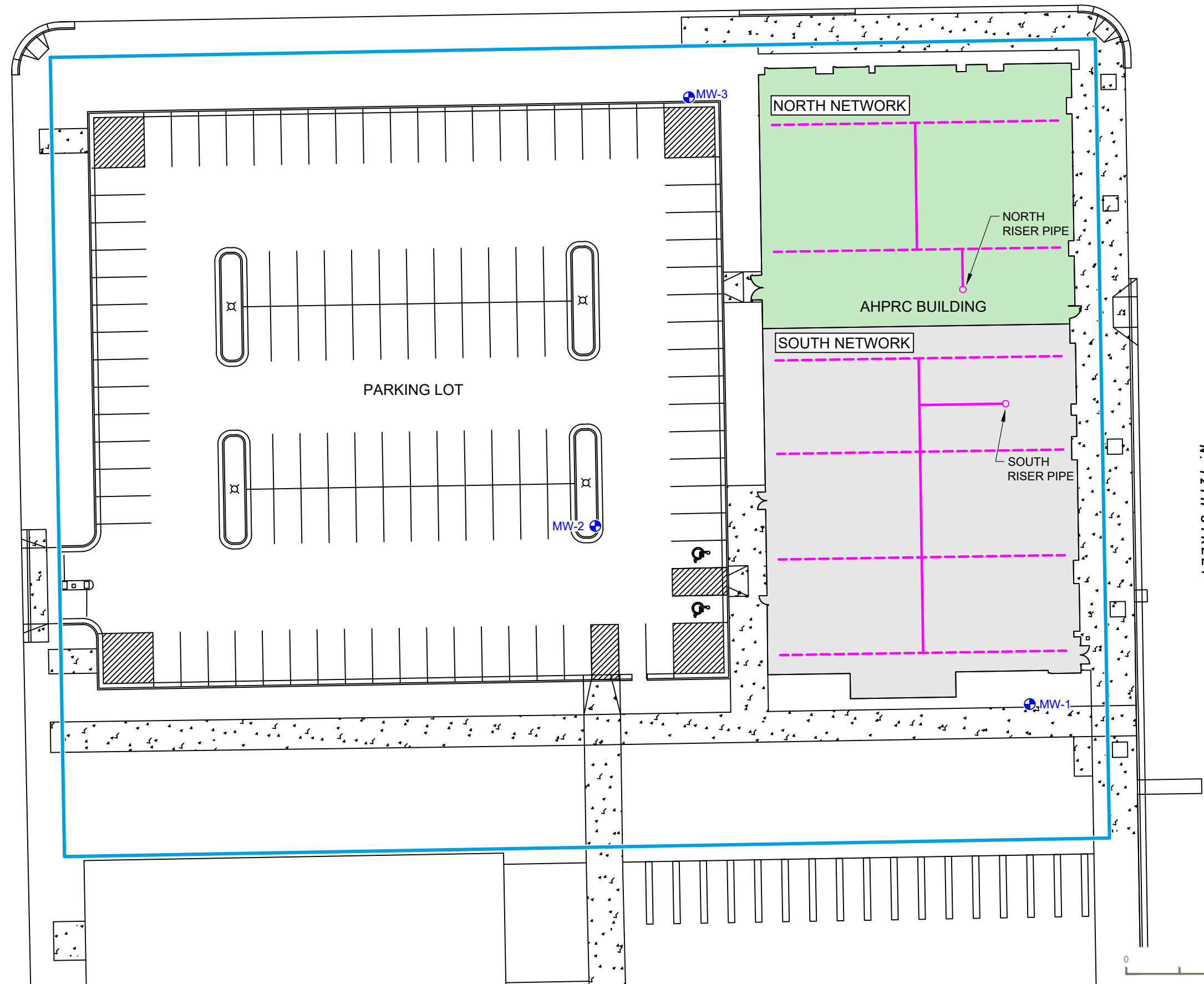
N. 13TH STREET

W. WELLS STREET

N. 12TH STREET



- PROPERTY BOUNDARY (APPROXIMATE)
- MONITORING WELL
- CONCRETE SLAB ON-GRADE
- BASEMENT CONCRETE SLAB
- PASSIVE VENTILATION SYSTEM SOLID PIPE
- - - PASSIVE VENTILATION SYSTEM SLOTTED PIPE
- VERTICAL RISER PIPE



- NOTES**
1. ALL INTERIOR FEATURES ARE APPROXIMATE.
 2. PASSIVE SUB-SLAB VENTILATION SYSTEM PIPING LAYOUT PROVIDED BY GRAEF-USA AND ARE APPROXIMATE.
 3. NORTH VAPOR SAMPLE COLLECTED FROM THE GROUND LEVEL RISER PIPE ACCESS IN DROP-CEILING.
 4. SOUTH VAPOR SAMPLE COLLECTED FROM ROOF TOP RISER PIPE.

PASSIVE SUB-SLAB VENTILATION SYSTEM LAYOUT AND VAPOR SAMPLE LOCATIONS

AHPRC
 MARQUETTE UNIVERSITY
 733 N 12TH STREET
 (FORMERLY 1201-1221 W WELLS STREET)
 MILWAUKEE, WISCONSIN

DRAFT

FIGURE 6

RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY



August 26, 2021

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

RE: Project: 1690005255 AHPRC
Pace Project No.: 10575439

Dear Paul Lindquist:

Enclosed are the analytical results for sample(s) received by the laboratory on August 20, 2021. 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@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Donna Volk, Ramboll US Consulting, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1690005255 AHPRC

Pace Project No.: 10575439

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 ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1690005255 AHPRC
Pace Project No.: 10575439

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------------|--------|----------------|----------------|
| 10575439001 | NORTH | Air | 08/17/21 11:40 | 08/20/21 11:40 |
| 10575439002 | SOUTH | Air | 08/17/21 10:15 | 08/20/21 11:40 |
| 10575439003 | NORTH Cert# 2457 | Air | | 08/20/21 11:40 |
| 10575439004 | SOUTH Cert# 2536 | Air | | 08/20/21 11:40 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1690005255 AHPRC
Pace Project No.: 10575439

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|------------------|--------|----------|-------------------|
| 10575439001 | NORTH | TO-15 | AFV | 5 |
| 10575439002 | SOUTH | TO-15 | AFV | 5 |
| 10575439003 | NORTH Cert# 2457 | TO-15 | MJL | 61 |
| 10575439004 | SOUTH Cert# 2536 | TO-15 | MJL | 61 |

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1690005255 AHPRC

Pace Project No.: 10575439

Method: TO-15

Description: TO15 MSV AIR

Client: Ramboll Environ- WI AIR

Date: August 26, 2021

General Information:

2 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1690005255 AHPRC

Pace Project No.: 10575439

Method: TO-15

Description: Individual Can Certification

Client: Ramboll Environ- WI AIR

Date: August 26, 2021

General Information:

2 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690005255 AHPRC

Pace Project No.: 10575439

Sample: NORTH **Lab ID: 10575439001** Collected: 08/17/21 11:40 Received: 08/20/21 11:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | | |
| Benzene | 0.75 | ug/m3 | 0.66 | 0.23 | 2.02 | | 08/24/21 23:42 | 71-43-2 | |
| Naphthalene | <4.4 | ug/m3 | 5.4 | 4.4 | 2.02 | | 08/24/21 23:42 | 91-20-3 | |
| Tetrachloroethene | <0.59 | ug/m3 | 1.4 | 0.59 | 2.02 | | 08/24/21 23:42 | 127-18-4 | |
| Toluene | 4.0 | ug/m3 | 1.5 | 0.49 | 2.02 | | 08/24/21 23:42 | 108-88-3 | |
| Trichloroethene | 4.7 | ug/m3 | 1.1 | 0.40 | 2.02 | | 08/24/21 23:42 | 79-01-6 | |

Sample: SOUTH **Lab ID: 10575439002** Collected: 08/17/21 10:15 Received: 08/20/21 11:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | | |
| Benzene | 1.1 | ug/m3 | 0.66 | 0.23 | 2.02 | | 08/25/21 00:17 | 71-43-2 | |
| Naphthalene | <4.4 | ug/m3 | 5.4 | 4.4 | 2.02 | | 08/25/21 00:17 | 91-20-3 | |
| Tetrachloroethene | 6.5 | ug/m3 | 1.4 | 0.59 | 2.02 | | 08/25/21 00:17 | 127-18-4 | |
| Toluene | 2.7 | ug/m3 | 1.5 | 0.49 | 2.02 | | 08/25/21 00:17 | 108-88-3 | |
| Trichloroethene | 2.0 | ug/m3 | 1.1 | 0.40 | 2.02 | | 08/25/21 00:17 | 79-01-6 | |

Sample: NORTH Cert# 2457 **Lab ID: 10575439003** Collected: Received: 08/20/21 11:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|-------|----|----------|----------------|----------|------|
| Individual Can Certification | | | | | | | | | |
| Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | <1.8 | ug/m3 | 6.0 | 1.8 | 1 | | 08/10/21 10:01 | 67-64-1 | |
| Benzene | <0.11 | ug/m3 | 0.32 | 0.11 | 1 | | 08/10/21 10:01 | 71-43-2 | |
| Benzyl chloride | <0.89 | ug/m3 | 2.6 | 0.89 | 1 | | 08/10/21 10:01 | 100-44-7 | |
| Bromodichloromethane | <0.24 | ug/m3 | 1.4 | 0.24 | 1 | | 08/10/21 10:01 | 75-27-4 | |
| Bromoform | <1.6 | ug/m3 | 5.2 | 1.6 | 1 | | 08/10/21 10:01 | 75-25-2 | |
| Bromomethane | <0.15 | ug/m3 | 0.79 | 0.15 | 1 | | 08/10/21 10:01 | 74-83-9 | |
| 1,3-Butadiene | <0.12 | ug/m3 | 0.45 | 0.12 | 1 | | 08/10/21 10:01 | 106-99-0 | |
| 2-Butanone (MEK) | <0.46 | ug/m3 | 3.0 | 0.46 | 1 | | 08/10/21 10:01 | 78-93-3 | |
| Carbon disulfide | <0.13 | ug/m3 | 0.63 | 0.13 | 1 | | 08/10/21 10:01 | 75-15-0 | |
| Carbon tetrachloride | <0.28 | ug/m3 | 1.3 | 0.28 | 1 | | 08/10/21 10:01 | 56-23-5 | |
| Chlorobenzene | <0.16 | ug/m3 | 0.94 | 0.16 | 1 | | 08/10/21 10:01 | 108-90-7 | |
| Chloroethane | <0.22 | ug/m3 | 0.54 | 0.22 | 1 | | 08/10/21 10:01 | 75-00-3 | |
| Chloroform | <0.18 | ug/m3 | 0.50 | 0.18 | 1 | | 08/10/21 10:01 | 67-66-3 | |
| Chloromethane | <0.085 | ug/m3 | 0.42 | 0.085 | 1 | | 08/10/21 10:01 | 74-87-3 | |
| Cyclohexane | <0.22 | ug/m3 | 1.8 | 0.22 | 1 | | 08/10/21 10:01 | 110-82-7 | |
| Dibromochloromethane | <0.52 | ug/m3 | 1.7 | 0.52 | 1 | | 08/10/21 10:01 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.30 | ug/m3 | 0.78 | 0.30 | 1 | | 08/10/21 10:01 | 106-93-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690005255 AHPRC

Pace Project No.: 10575439

Sample: NORTH Cert# 2457 **Lab ID: 10575439003** Collected: Received: 08/20/21 11:40 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-Dichlorobenzene | <0.40 | ug/m3 | 3.1 | 0.40 | 1 | | 08/10/21 10:01 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.51 | ug/m3 | 3.1 | 0.51 | 1 | | 08/10/21 10:01 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.88 | ug/m3 | 3.1 | 0.88 | 1 | | 08/10/21 10:01 | 106-46-7 | |
| Dichlorodifluoromethane | <0.19 | ug/m3 | 1.0 | 0.19 | 1 | | 08/10/21 10:01 | 75-71-8 | |
| 1,1-Dichloroethane | <0.16 | ug/m3 | 0.82 | 0.16 | 1 | | 08/10/21 10:01 | 75-34-3 | |
| 1,2-Dichloroethane | <0.19 | ug/m3 | 0.82 | 0.19 | 1 | | 08/10/21 10:01 | 107-06-2 | |
| 1,1-Dichloroethene | <0.14 | ug/m3 | 0.81 | 0.14 | 1 | | 08/10/21 10:01 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.20 | ug/m3 | 0.81 | 0.20 | 1 | | 08/10/21 10:01 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.17 | ug/m3 | 0.81 | 0.17 | 1 | | 08/10/21 10:01 | 156-60-5 | |
| 1,2-Dichloropropane | <0.27 | ug/m3 | 0.94 | 0.27 | 1 | | 08/10/21 10:01 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.26 | ug/m3 | 2.3 | 0.26 | 1 | | 08/10/21 10:01 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.54 | ug/m3 | 2.3 | 0.54 | 1 | | 08/10/21 10:01 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.20 | ug/m3 | 1.4 | 0.20 | 1 | | 08/10/21 10:01 | 76-14-2 | |
| Ethanol | <0.59 | ug/m3 | 1.9 | 0.59 | 1 | | 08/10/21 10:01 | 64-17-5 | |
| Ethyl acetate | <0.13 | ug/m3 | 0.73 | 0.13 | 1 | | 08/10/21 10:01 | 141-78-6 | |
| Ethylbenzene | <0.31 | ug/m3 | 0.88 | 0.31 | 1 | | 08/10/21 10:01 | 100-41-4 | |
| 4-Ethyltoluene | <0.47 | ug/m3 | 2.5 | 0.47 | 1 | | 08/10/21 10:01 | 622-96-8 | |
| n-Heptane | <0.18 | ug/m3 | 0.83 | 0.18 | 1 | | 08/10/21 10:01 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/m3 | 5.4 | 1.2 | 1 | | 08/10/21 10:01 | 87-68-3 | |
| n-Hexane | <0.19 | ug/m3 | 0.72 | 0.19 | 1 | | 08/10/21 10:01 | 110-54-3 | |
| 2-Hexanone | <0.44 | ug/m3 | 4.2 | 0.44 | 1 | | 08/10/21 10:01 | 591-78-6 | |
| Methylene Chloride | <0.59 | ug/m3 | 3.5 | 0.59 | 1 | | 08/10/21 10:01 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.32 | ug/m3 | 4.2 | 0.32 | 1 | | 08/10/21 10:01 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.13 | ug/m3 | 3.7 | 0.13 | 1 | | 08/10/21 10:01 | 1634-04-4 | |
| Naphthalene | <2.2 | ug/m3 | 2.7 | 2.2 | 1 | | 08/10/21 10:01 | 91-20-3 | |
| 2-Propanol | <0.51 | ug/m3 | 2.5 | 0.51 | 1 | | 08/10/21 10:01 | 67-63-0 | |
| Propylene | <0.13 | ug/m3 | 0.88 | 0.13 | 1 | | 08/10/21 10:01 | 115-07-1 | |
| Styrene | <0.38 | ug/m3 | 0.87 | 0.38 | 1 | | 08/10/21 10:01 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.37 | ug/m3 | 1.4 | 0.37 | 1 | | 08/10/21 10:01 | 79-34-5 | |
| Tetrachloroethene | <0.29 | ug/m3 | 0.69 | 0.29 | 1 | | 08/10/21 10:01 | 127-18-4 | |
| Tetrahydrofuran | <0.18 | ug/m3 | 0.60 | 0.18 | 1 | | 08/10/21 10:01 | 109-99-9 | |
| Toluene | <0.24 | ug/m3 | 0.77 | 0.24 | 1 | | 08/10/21 10:01 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <4.9 | ug/m3 | 7.5 | 4.9 | 1 | | 08/10/21 10:01 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.19 | ug/m3 | 1.1 | 0.19 | 1 | | 08/10/21 10:01 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/m3 | 0.56 | 0.20 | 1 | | 08/10/21 10:01 | 79-00-5 | |
| Trichloroethene | <0.20 | ug/m3 | 0.55 | 0.20 | 1 | | 08/10/21 10:01 | 79-01-6 | |
| Trichlorofluoromethane | <0.23 | ug/m3 | 1.1 | 0.23 | 1 | | 08/10/21 10:01 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.29 | ug/m3 | 1.6 | 0.29 | 1 | | 08/10/21 10:01 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.35 | ug/m3 | 1.0 | 0.35 | 1 | | 08/10/21 10:01 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.29 | ug/m3 | 1.0 | 0.29 | 1 | | 08/10/21 10:01 | 108-67-8 | |
| Vinyl acetate | <0.21 | ug/m3 | 0.72 | 0.21 | 1 | | 08/10/21 10:01 | 108-05-4 | |
| Vinyl chloride | <0.087 | ug/m3 | 0.26 | 0.087 | 1 | | 08/10/21 10:01 | 75-01-4 | |
| m&p-Xylene | <0.64 | ug/m3 | 1.8 | 0.64 | 1 | | 08/10/21 10:01 | 179601-23-1 | |
| o-Xylene | <0.27 | ug/m3 | 0.88 | 0.27 | 1 | | 08/10/21 10:01 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690005255 AHPRC

Pace Project No.: 10575439

Sample: SOUTH Cert# 2536 **Lab ID: 10575439004** Collected: Received: 08/20/21 11:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|-------|----|----------|----------------|------------|------|
| Individual Can Certification | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | <1.8 | ug/m3 | 6.0 | 1.8 | 1 | | 08/10/21 08:51 | 67-64-1 | |
| Benzene | <0.11 | ug/m3 | 0.32 | 0.11 | 1 | | 08/10/21 08:51 | 71-43-2 | |
| Benzyl chloride | <0.89 | ug/m3 | 2.6 | 0.89 | 1 | | 08/10/21 08:51 | 100-44-7 | |
| Bromodichloromethane | <0.24 | ug/m3 | 1.4 | 0.24 | 1 | | 08/10/21 08:51 | 75-27-4 | |
| Bromoform | <1.6 | ug/m3 | 5.2 | 1.6 | 1 | | 08/10/21 08:51 | 75-25-2 | |
| Bromomethane | <0.15 | ug/m3 | 0.79 | 0.15 | 1 | | 08/10/21 08:51 | 74-83-9 | |
| 1,3-Butadiene | <0.12 | ug/m3 | 0.45 | 0.12 | 1 | | 08/10/21 08:51 | 106-99-0 | |
| 2-Butanone (MEK) | <0.46 | ug/m3 | 3.0 | 0.46 | 1 | | 08/10/21 08:51 | 78-93-3 | |
| Carbon disulfide | <0.13 | ug/m3 | 0.63 | 0.13 | 1 | | 08/10/21 08:51 | 75-15-0 | |
| Carbon tetrachloride | <0.28 | ug/m3 | 1.3 | 0.28 | 1 | | 08/10/21 08:51 | 56-23-5 | |
| Chlorobenzene | <0.16 | ug/m3 | 0.94 | 0.16 | 1 | | 08/10/21 08:51 | 108-90-7 | |
| Chloroethane | <0.22 | ug/m3 | 0.54 | 0.22 | 1 | | 08/10/21 08:51 | 75-00-3 | |
| Chloroform | <0.18 | ug/m3 | 0.50 | 0.18 | 1 | | 08/10/21 08:51 | 67-66-3 | |
| Chloromethane | <0.085 | ug/m3 | 0.42 | 0.085 | 1 | | 08/10/21 08:51 | 74-87-3 | |
| Cyclohexane | <0.22 | ug/m3 | 1.8 | 0.22 | 1 | | 08/10/21 08:51 | 110-82-7 | |
| Dibromochloromethane | <0.52 | ug/m3 | 1.7 | 0.52 | 1 | | 08/10/21 08:51 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.30 | ug/m3 | 0.78 | 0.30 | 1 | | 08/10/21 08:51 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.40 | ug/m3 | 3.1 | 0.40 | 1 | | 08/10/21 08:51 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.51 | ug/m3 | 3.1 | 0.51 | 1 | | 08/10/21 08:51 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.88 | ug/m3 | 3.1 | 0.88 | 1 | | 08/10/21 08:51 | 106-46-7 | |
| Dichlorodifluoromethane | <0.19 | ug/m3 | 1.0 | 0.19 | 1 | | 08/10/21 08:51 | 75-71-8 | |
| 1,1-Dichloroethane | <0.16 | ug/m3 | 0.82 | 0.16 | 1 | | 08/10/21 08:51 | 75-34-3 | |
| 1,2-Dichloroethane | <0.19 | ug/m3 | 0.82 | 0.19 | 1 | | 08/10/21 08:51 | 107-06-2 | |
| 1,1-Dichloroethene | <0.14 | ug/m3 | 0.81 | 0.14 | 1 | | 08/10/21 08:51 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.20 | ug/m3 | 0.81 | 0.20 | 1 | | 08/10/21 08:51 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.17 | ug/m3 | 0.81 | 0.17 | 1 | | 08/10/21 08:51 | 156-60-5 | |
| 1,2-Dichloropropane | <0.27 | ug/m3 | 0.94 | 0.27 | 1 | | 08/10/21 08:51 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.26 | ug/m3 | 2.3 | 0.26 | 1 | | 08/10/21 08:51 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.54 | ug/m3 | 2.3 | 0.54 | 1 | | 08/10/21 08:51 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.20 | ug/m3 | 1.4 | 0.20 | 1 | | 08/10/21 08:51 | 76-14-2 | |
| Ethanol | <0.59 | ug/m3 | 1.9 | 0.59 | 1 | | 08/10/21 08:51 | 64-17-5 | |
| Ethyl acetate | <0.13 | ug/m3 | 0.73 | 0.13 | 1 | | 08/10/21 08:51 | 141-78-6 | |
| Ethylbenzene | <0.31 | ug/m3 | 0.88 | 0.31 | 1 | | 08/10/21 08:51 | 100-41-4 | |
| 4-Ethyltoluene | <0.47 | ug/m3 | 2.5 | 0.47 | 1 | | 08/10/21 08:51 | 622-96-8 | |
| n-Heptane | <0.18 | ug/m3 | 0.83 | 0.18 | 1 | | 08/10/21 08:51 | 142-82-5 | |
| Hexachloro-1,3-butadiene | 1.3J | ug/m3 | 5.4 | 1.2 | 1 | | 08/10/21 08:51 | 87-68-3 | |
| n-Hexane | <0.19 | ug/m3 | 0.72 | 0.19 | 1 | | 08/10/21 08:51 | 110-54-3 | |
| 2-Hexanone | <0.44 | ug/m3 | 4.2 | 0.44 | 1 | | 08/10/21 08:51 | 591-78-6 | |
| Methylene Chloride | <0.59 | ug/m3 | 3.5 | 0.59 | 1 | | 08/10/21 08:51 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.32 | ug/m3 | 4.2 | 0.32 | 1 | | 08/10/21 08:51 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.13 | ug/m3 | 3.7 | 0.13 | 1 | | 08/10/21 08:51 | 1634-04-4 | |
| Naphthalene | <2.2 | ug/m3 | 2.7 | 2.2 | 1 | | 08/10/21 08:51 | 91-20-3 | |
| 2-Propanol | <0.51 | ug/m3 | 2.5 | 0.51 | 1 | | 08/10/21 08:51 | 67-63-0 | |
| Propylene | <0.13 | ug/m3 | 0.88 | 0.13 | 1 | | 08/10/21 08:51 | 115-07-1 | |
| Styrene | <0.38 | ug/m3 | 0.87 | 0.38 | 1 | | 08/10/21 08:51 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1690005255 AHPRC

Pace Project No.: 10575439

Sample: SOUTH Cert# 2536 **Lab ID: 10575439004** Collected: Received: 08/20/21 11:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-------------------------------------|---------|--|------|-------|----|----------|----------------|-------------|------|
| Individual Can Certification | | Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.37 | ug/m3 | 1.4 | 0.37 | 1 | | 08/10/21 08:51 | 79-34-5 | |
| Tetrachloroethene | <0.29 | ug/m3 | 0.69 | 0.29 | 1 | | 08/10/21 08:51 | 127-18-4 | |
| Tetrahydrofuran | <0.18 | ug/m3 | 0.60 | 0.18 | 1 | | 08/10/21 08:51 | 109-99-9 | |
| Toluene | <0.24 | ug/m3 | 0.77 | 0.24 | 1 | | 08/10/21 08:51 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | 5.1J | ug/m3 | 7.5 | 4.9 | 1 | | 08/10/21 08:51 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.19 | ug/m3 | 1.1 | 0.19 | 1 | | 08/10/21 08:51 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/m3 | 0.56 | 0.20 | 1 | | 08/10/21 08:51 | 79-00-5 | |
| Trichloroethene | <0.20 | ug/m3 | 0.55 | 0.20 | 1 | | 08/10/21 08:51 | 79-01-6 | |
| Trichlorofluoromethane | <0.23 | ug/m3 | 1.1 | 0.23 | 1 | | 08/10/21 08:51 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.29 | ug/m3 | 1.6 | 0.29 | 1 | | 08/10/21 08:51 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.35 | ug/m3 | 1.0 | 0.35 | 1 | | 08/10/21 08:51 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.29 | ug/m3 | 1.0 | 0.29 | 1 | | 08/10/21 08:51 | 108-67-8 | |
| Vinyl acetate | <0.21 | ug/m3 | 0.72 | 0.21 | 1 | | 08/10/21 08:51 | 108-05-4 | |
| Vinyl chloride | <0.087 | ug/m3 | 0.26 | 0.087 | 1 | | 08/10/21 08:51 | 75-01-4 | |
| m&p-Xylene | <0.64 | ug/m3 | 1.8 | 0.64 | 1 | | 08/10/21 08:51 | 179601-23-1 | |
| o-Xylene | <0.27 | ug/m3 | 0.88 | 0.27 | 1 | | 08/10/21 08:51 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1690005255 AHPRC

Pace Project No.: 10575439

QC Batch: 765729

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10575439001, 10575439002

METHOD BLANK: 4081073

Matrix: Air

Associated Lab Samples: 10575439001, 10575439002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Benzene | ug/m3 | <0.11 | 0.32 | 08/24/21 10:26 | |
| Naphthalene | ug/m3 | <2.2 | 2.7 | 08/24/21 10:26 | |
| Tetrachloroethene | ug/m3 | <0.29 | 0.69 | 08/24/21 10:26 | |
| Toluene | ug/m3 | <0.24 | 0.77 | 08/24/21 10:26 | |
| Trichloroethene | ug/m3 | <0.20 | 0.55 | 08/24/21 10:26 | |

LABORATORY CONTROL SAMPLE: 4081074

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene | ug/m3 | 34.8 | 40.0 | 115 | 70-131 | |
| Naphthalene | ug/m3 | 65.2 | 71.1 | 109 | 67-132 | |
| Tetrachloroethene | ug/m3 | 73.4 | 76.6 | 104 | 70-130 | |
| Toluene | ug/m3 | 41.6 | 46.9 | 113 | 70-138 | |
| Trichloroethene | ug/m3 | 58.4 | 64.8 | 111 | 70-130 | |

SAMPLE DUPLICATE: 4082284

| Parameter | Units | 10574763005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-------------------|-------|--------------------|------------|-----|---------|------------|
| Benzene | ug/m3 | ND | <27.6 | | 25 | |
| Naphthalene | ug/m3 | ND | <526 | | 25 | |
| Tetrachloroethene | ug/m3 | 457 | 470 | 3 | 25 | |
| Toluene | ug/m3 | ND | 91.4J | | 25 | |
| Trichloroethene | ug/m3 | ND | <47.5 | | 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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QUALIFIERS

Project: 1690005255 AHPRC

Pace Project No.: 10575439

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1690005255 AHPRC
Pace Project No.: 10575439

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------------|-----------------|----------|-------------------|------------------|
| 10575439001 | NORTH | TO-15 | 765729 | | |
| 10575439002 | SOUTH | TO-15 | 765729 | | |
| 10575439003 | NORTH Cert# 2457 | TO-15 | 765664 | | |
| 10575439004 | SOUTH Cert# 2536 | TO-15 | 765664 | | |

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 10575439



10575439

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | | | | |
|---|-----------|---|---------|--|---------------------------|---------|------|--|
| Company: RAMBOLL | | Report To: SUSAN PETROFSKE | | Attention: RAMBOLL | | | | |
| Address: 234 W FLORIDA ST | | Copy To: PAUL LINDQUIST | | Company Name: RAMBOLL | | | | |
| MKE, WI 53024 | | Purchase Order No.: 1690005255 | | Address: | | | | |
| Email To: SPETROFSKE@RAMBOLL.COM | | Project Name: AHPRC | | Pace Quote Reference: | | | | |
| Phone: | | Project Number: 1690005255 | | Pace Project Manager/Sales Rep. CAROLYNNE TROUT | | | | |
| Requested Due Date/TAT: STANDARD | | Valid Media Codes | | Pace Profile #: 40343 #1 | | | | |
| *Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE | | MEDIA CODE TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10 | | Method: PM10 3C - Fixed Gas (%) TO-3 BTEX TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List Chlorinated TO-15 Short List (Other) | | | | |
| ITEM # | COLLECTED | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
| 1 | NORTH | PAUL LINDQUIST RAMBOLL | 8/17/21 | 1140 | PAUL LINDQUIST | 8/17/21 | 1600 | Temp in °C Received on Ice Custody Sealed Cooler Samples Intact |
| 2 | SOUTH | PAUL LINDQUIST RAMBOLL | 8/17/21 | 1015 | PAUL LINDQUIST | 8/20/21 | 1140 | Temp in °C Received on Ice Custody Sealed Cooler Samples Intact |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |

Comments :

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **PAUL LINDQUIST**
 SIGNATURE of SAMPLER: *Paul Lindquist*
 DATE Signed (MM/DD/YY) **08/17/21**



Document Name: Sample Condition Upon Receipt (SCUR) - Air

Document Revised: 24Mar2020

Document No.: ENV-FRM-MIN4-0113 Rev 00

Page 1 of 1
Pace Analytical Services - Minneapolis

WO#: 10575439

PM: CT1 Due Date: 08/27/21
CLIENT: Ramboll-WI

Air Sample Condition Upon Receipt

Client Name: Ramboll

Project #:

Courier: [X] Fed Ex [] UPS [] USPS [] Client [] Pace [] Speedee [] Commercial [] See Exception

Tracking Number: 9753 8444 9029

Custody Seal on Cooler/Box Present? [] Yes [X] No Seals Intact? [] Yes [X] No

Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other: Temp Blank rec: [] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): Thermometer Used: [] G87A9170600254 [] G87A9155100842

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: 8/20/21 MS

Type of ice Received [] Blue [] Wet [X] None

Comments:

Table with 13 rows of custody and inspection questions, including Chain of Custody Present, Filled Out, Relinquished, etc.

Gauge # [] 10AIR26 [X] 10AIR34 [] 10AIR35 [] 4097

Table with columns for Canisters (Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure) for North and South samples.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [] Yes [] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 08/20/21