

#### **MEMORANDUM**

DATE : March 11, 2024

TO : Shane LaFave / Roers Companies, LLC

FROM : Pratap Singh, Ph.D., PE / KSingh

SUBJECT: Weekly Report for the Week Ending 03/09/2024

Community Within the Corridor - East Block

COPY TO : Que El-Amin / Scott Crawford, Inc., Robert Reineke, PE, Robert Fedorchak, PE

Project #40441B

The purpose of this memorandum is to report test results and provide a summary of the work performed for the referenced project for the week ending 03/09/2024. This week's focus was on building preparation activities including conducting screening / pre-commissioning activities in order to plan and prepare for the 2<sup>nd</sup> round of commissioning that is planned to begin on March 11, 2024.

Tasks performed in the past week included:

- 1. Thorough GC testing with simulation of actual conditions at over 175 locations:
- 2. Vacuum measurements confirming sufficient vacuum at all vapor pin locations;
- 3. Additional sealing in specific areas within the 1st floor;
- 4. Adjustment of blower speeds to optimize performance:

Based on another round of discrete sampling of columns, it has been determined that column sealing was effective and TCE concentrations related to columns have decreased.

Thorough GC testing was conducted throughout the East Block at over 175 locations, and indoor air quality throughout the buildings was consistent and under 2.1 ug/m³ throughout the week with the exception of the N. Mechanical Room, 1056 Mechanical Room, and 1089 Mechanical Room.

Additional work was performed to determine potential pathways for TCE in the mechanical rooms. A water sample was taken from the North Mechanical Room sump for analytical testing and TCE was detected at TCE is at 0.29 ug/L. Additional corrective measures were performed in all mechanical rooms including sealing of sump crocks and sealing of saw cuts. In addition, the GBR 89 designated as Blower 10 was replaced with a GBR 123.

Screening activities resumed upon completing the remaining corrective measures. Vacuum data and GC testing throughout the building has suggested that the East Block is ready for the 2<sup>nd</sup> Round of Commissioning.

#### **Attachments**

KSingh has included the following attachments for reference:

- Attachment A: Daily Logs of Indoor Air Quality
- Attachment B: Eurofins Lab Report



# Attachment A Indoor Air Quality Readings



### Daily TCE Detection Log Community Within the Corridor – East Block 2748 N. 32<sup>nd</sup> Street, Milwaukee, WI

| Date:                 | 03/04/2024                                    |
|-----------------------|---|
| Testing Performed by: | K. Singh & Associates, Inc., Ph: 262-821-1171 |
| Professional on Site: | Samuel Ramirez                                |
| Signature:            | Samuel Ramirez                                |

| No.                    | Location            | Time  | TCE Reading (µg/m³) |
|------------------------|---------------------|-------|---------------------|
| 1                      | Standard (2ppbv)    | 8:45  | 2.1 ppbv            |
| 2                      | N. Mechanical Room  | 8:53  | 9.9                 |
| 3                      | 3 1056              |       | 2.3                 |
| 4                      | 1049                | 9:11  | 2.5                 |
| 5                      | 1055                | 9:24  | 1.4                 |
| 6                      | 1054                | 9:35  | 1.2                 |
| 7                      | 1053                | 9:45  | 1.3                 |
| 8                      | 1048                | 9:55  | 1.2                 |
| 9                      | 1044                | 10:05 | 0.7                 |
| 10                     | 1043                | 10:14 | 0.7                 |
| 11                     | 1042                | 10:41 | ND                  |
| 12                     | 1041                | 10:52 | ND                  |
| 13                     | 1040                | 11:03 | ND                  |
| 14                     | NW Garage           | 11:12 | ND                  |
| 15                     | SW Garage           | 11:23 | ND                  |
| 16                     | C Gym               | 11:32 | ND                  |
| 17                     | 1052                | 11:40 | 0.6                 |
| <b>18</b> 1051         |                     | 11:49 | 0.6                 |
| <b>19</b> 1056 Hallway |                     | 11:59 | ND                  |
| 20                     | <b>20</b> Blower 10 |       | 639                 |
| 21                     | N. Mechanical Room  | 13:39 | 10.0                |
| 22                     | 1049                | 13:48 | 2.1                 |
| 23                     | 1056                | 14:02 | 2.3                 |
| 24                     | 1039                | 14:11 | ND                  |
| 25                     | 1037                | 14:26 | 0.7                 |
| 26                     | 1036                | 14:36 | ND                  |
| 27                     | 1035                | 14:44 | ND                  |
| 28                     | 1058                | 14:53 | 0.7                 |
| 29                     | 1026                | 15:03 | ND                  |
| 30                     | 1025                | 15:11 | ND                  |



| 31 | 1014         | 15:21 | ND |
|----|--------------|-------|----|
| 32 | Office Suite | 15:29 | ND |

<sup>\*\*</sup> Note that Workplace Safety Limit for TCE by OSHA is 100 ppm and NIOSH is 25 ppm.





<sup>\*\*</sup> It is strongly recommended to wear a fit-tested respirator in the construction areas, and to wear appropriate Personal Protective Equipment at all times.

<sup>\*\*</sup>For more information on TCE, please scan the QR Code or visit these links: <a href="https://www.dhs.wisconsin.gov/chemical/trichloroethylene.htm">https://www.dhs.wisconsin.gov/chemical/trichloroethylene.htm</a> and <a href="https://www.epa.gov/sites/default/files/2016-09/documents/trichloroethylene.pdf">https://www.epa.gov/sites/default/files/2016-09/documents/trichloroethylene.pdf</a>

| Date:                 | 03/05/2024                                    |  |
|-----------------------|---|--|
| Testing Performed by: | K. Singh & Associates, Inc., Ph: 262-821-1171 |  |
| Professional on Site: | Sam Ramirez                                   |  |
| Signature:            | Samuel Ramirez                                |  |

| No. | Location | Time  | TCE Reading (µg/m³) | Time | TCE Reading (µg/m³) |
|-----|----------|-------|---------------------|------|---------------------|
| 1   | 1051 C1  | 13:56 | ND                  |      |                     |
| 2   | 1045 C2  | 14:05 | 0.7                 |      |                     |
| 3   | 1045 C1  | 14:13 | 0.7                 |      |                     |
| 4   | 1055 C1  | 14:35 | 0.8                 |      |                     |
| 5   | 1053 C2  | 14:52 | 1.3                 |      |                     |
| 6   | 1053 C1  | 14:43 | 1.3                 |      |                     |
| 7   | 1044 C1  | 15:00 | 0.9                 |      |                     |
| 8   | 1044 C2  | 15:08 | 0.6                 |      |                     |
| 9   | 1043 C2  | 11:55 | 0.7                 |      |                     |
| 10  | 1043 C3  | 12:03 | 0.7                 |      |                     |
| 11  | 1043 C4  | 13:06 | 0.8                 |      |                     |
| 12  | 1043 C1  | 11:47 | 0.8                 |      |                     |
| 13  | 1049 C1  | 15:17 | 1.8                 |      |                     |
| 14  | 1050 C1  | 15:25 | 0.7                 |      |                     |
| 15  | 1048 C1  | 15:34 | 0.6                 |      |                     |
| 16  | 1052 C2  |       |                     |      |                     |



#### **CWC EB Pre-Commissioning Building Preparation Activities** 3/5/2024 **TCE Vacuum Anenometer** Unit **Time Vapor Pin ID Blower %** inches H2O ug/m3 (fpm) N. Mech. Room 9:21 11 -0.499VP-3 1056 8:20 2 1045 8:28 ND -0.15 **VP-29** ---1050 8:37 0.7 -0.124 **VP-28** ---Hall Outside 1050 9:04 ND -0.146**VP-27** ---1048 0.7 8:45 -0.236VP-26 VP-25 1049 9:13 1.8 -0.448 1051 9:29 ND -0.144 VP-24 Standard 8:56 1043 9:37 ND 1055 0.9 9:45 1054 2.3 VP-21 9:54 -0.605 1053 10:02 0.9 1044 10:11 0.6 1042 11:01 1.3 10:28 1 1041 1040 10:36 8.0 1039 10:44 0.6 Blower 5 (initial) 10:53 370 4607 60% NWG ND 11:38 **SWG** 11:30 ND 1037 11:10 0.9 Blower 5 + 10% 13:14 340.1 5434 70% 13:22 2.3 1056 1048 VP-26 13:30 0.6 -0.231 1049 13:39 1.9 -0.458**VP-25** 1054 13:47 1.4 -0.682VP-21 1054 15:42 1.2 N. Mech. Room 15:51 4.7 1056 15:59 1.9



| Date:                 | 03/06/2024                                    |  |  |
|-----------------------|---|--|--|
| Testing Performed by: | K. Singh & Associates, Inc., Ph: 262-821-1171 |  |  |
| Professional on Site: | Sam Ramirez                                   |  |  |
| Signature:            | Samuel Ramirez                                |  |  |

| No. | Location                         | Time  | TCE Reading (µg/m³) | Time  | TCE Reading (µg/m³) |
|-----|----------------------------------|-------|---------------------|-------|---------------------|
| 1   | Standard                         | 10:18 | 2.0 ppbv            |       |                     |
| 2   | N. Mechanical Room               | 10:28 | 0.8                 | 14:58 | 1.1                 |
| 3   | 1056                             | 10:36 | 1.8                 | 15:17 | 1.9                 |
| 4   | 1052 C2                          | 10:45 | ND                  |       |                     |
| 5   | 1052                             | 10:53 | ND                  |       |                     |
| 6   | 1054                             | 11:01 | 0.9                 |       |                     |
| 7   | 1049                             | 11:11 | 1.8                 | 15:09 | 1.7                 |
| 8   | 1048                             | 11:20 | 1.2                 |       |                     |
| 9   | St. 3 3 <sup>rd</sup> Floor      | 11:33 | ND                  |       |                     |
| 10  | St. 2 3 <sup>rd</sup> Floor      | 11:41 | ND                  |       |                     |
| 11  | 3039 Hall                        | 11:50 | ND                  |       |                     |
| 12  | Elevator 1 3 <sup>rd</sup> Floor | 12:00 | ND                  |       |                     |
| 13  | Elevator 2 3 <sup>rd</sup> Floor | 13:02 | ND                  |       |                     |
| 14  | 3058 Hall                        | 13:11 | ND                  |       |                     |
| 15  | Elevator 3 3 <sup>rd</sup> Floor | 13:25 | ND                  |       |                     |
| 16  | Elevator 3 2 <sup>nd</sup> Floor | 13:34 | ND                  |       |                     |
| 17  | Stair 5 2 <sup>nd</sup> Floor    | 13:45 | ND                  |       |                     |
| 18  | Elevator 2 2 <sup>nd</sup> Floor | 13:56 | ND                  |       |                     |
| 19  | 2077                             | 14:14 | ND                  |       |                     |
| 20  | St. 4 2 <sup>nd</sup> Floor      | 14:22 | ND                  |       |                     |
| 21  | Elevator 1 2 <sup>nd</sup> Floor | 14:31 | ND                  |       |                     |
| 22  | St. 2 2 <sup>nd</sup> Floor      | 14:40 | ND                  |       |                     |
| 23  | St. 3 2 <sup>nd</sup> Floor      | 14:48 | ND                  |       |                     |
| 24  |                                  |       |                     |       |                     |
| 25  |                                  |       |                     |       |                     |



| Date:                 | 03/07/2024                                    |
|-----------------------|---|
| Testing Performed by: | K. Singh & Associates, Inc., Ph: 262-821-1171 |
| Professional on Site: | Sam Ramirez                                   |
| Signature:            | Samuel Ramirez                                |

| No. | Location               | Time  | TCE Reading (µg/m³) | Notes   |
|-----|------------------------|-------|---------------------|---|
| 1   | N. Mechanical Room     | 8:48  | 0.9                 |   |
| 2   | Elevator 3 Lobby (NMR) | 8:57  | 0.8                 | Ran elevator prior to testing                       |
| 3   | 1056 Mechanical        | 9:06  | 1.4                 |   |
| 4   | 1054 Fitness Room      | 9:14  | ND                  |   |
| 5   | 1053 Men's Locker      | 9:22  | 0.6                 |   |
| 6   | 1055 Women's Locker    | 9:31  | ND                  |   |
| 7   | 1049 Storage           | 9:40  | 1.3                 |   |
| 8   | 1048 Laundry           | 9:49  | ND                  |   |
| 9   | Unit 1045              | 9:59  | ND                  | Kitchen Exhaust on                                  |
| 10  | Unit 1044              | 10:11 | 0.6                 |   |
| 11  | SWG1                   | 10:19 | ND                  |   |
| 12  | Unit 1051              | 10:28 | ND                  |   |
| 13  | Unit 1050              | 10:37 | ND                  | Kitchen Exhaust on                                  |
| 14  | Unit 1050 Bathroom     | 10:47 | ND                  | Bathroom Fan on                                     |
| 15  | GYM 2                  | 10:55 | ND                  |   |
| 16  | NWG1                   | 11:05 | ND                  |   |
| 17  | 1089 Mechanical        | 11:13 | 16.2                | Room has been closed for months during construction |
| 18  | Unit 1026              | 11:21 | ND                  |   |
| 19  | Unit 1037              | 11:48 | ND                  |   |
| 20  | Unit 1043 Bathroom     | 11:56 | 0.6                 | Bathroom Fan On                                     |
| 21  | Unit 2044              | 13:19 | ND                  |   |
| 22  | Unit 2042              | 13:27 | ND                  |   |
| 23  | Unit 2041              | 13:35 | ND                  |   |
| 24  | Unit 2040              | 13:44 | ND                  |   |
| 25  | Unit 2056              | 13:02 | ND                  | -   |
| 26  | Unit 2074              | 13:55 | ND                  | Ran Elevator 2 prior to testing                     |
| 27  | Unit 2037              | 14:03 | ND                  |   |
| 28  | Unit 2035              | 14:11 | ND                  |   |
| 29  | Unit 2026              | 14:19 | ND                  |   |



| 30 | Blower 10                                | 14:28 | 559.1 |                                 |
|----|--|-------|-------|---------------------------------|
| 31 | Blower 8                                 | 15:01 | 6.9   |                                 |
| 32 | Blower 5                                 | 15:09 | 300.3 |                                 |
| 33 | N. Mechanical Room                       | 14:47 | 1.4   |                                 |
| 34 | Elevator 3 Lobby (2 <sup>nd</sup> Floor) | 15:18 | 1.4   | Ran Elevator 3 prior to testing |
| 35 | 1056 Mechanical                          | 15:26 | 1.6   | Retest                          |
| 36 | Stair 7, 1st floor                       | 13:11 | ND    |                                 |
| 37 | 1089 Mechanical Room                     | 14:36 | ND    | Retest                          |
| 38 | Stairwell 6                              | 15:37 | ND    |                                 |
| 39 | Stairwell 7                              | 15:47 | 0.7   |                                 |
| 40 | Stairwell 8                              | 15:56 | ND    |                                 |
| 41 | 1089 Mechanical Room                     | 16:04 | 4.2   | Closed door                     |



| Date:                 | 03/08/2024                                    |  |  |
|-----------------------|---|--|--|
| Testing Performed by: | K. Singh & Associates, Inc., Ph: 262-821-1171 |  |  |
| Professional on Site: | Sam Ramirez, Nick Bach                        |  |  |
| Signature:            | Samuel Ramirez                                |  |  |

| No. | Location               | Time  | TCE Reading (µg/m³) | Notes                      |
|-----|------------------------|-------|---------------------|----------------------------|
| 1   | N. Mechanical Room     | 07:58 | 1.6                 | Door Open                  |
| 2   | Unit 1089              | 07:49 | ND                  | Door Open                  |
| 3   | Elevator 3 Lobby (NMR) | 09:09 | ND                  |                            |
| 4   | 1056 Mechanical        | 08:07 | 1.3                 | Door Closed                |
| 5   | 1054 Fitness Room      | 08:15 | ND                  |                            |
| 6   | 1053 Men's Locker      | 08:24 | 0.6                 |                            |
| 7   | 1055 Women's Locker    | 08:33 | ND                  |                            |
| 8   | Standard               | 08:44 | 2.4 ppbv            | File Name: 3358            |
| 9   | 1049 Storage           | 08:52 | 1.2                 |                            |
| 10  | 1048 Laundry           | 09:00 | ND                  |                            |
| 11  | Room 1089 – Pipe       | 09:18 | 9.7                 | Pipe sealed after sampling |
| 12  | Unit 1045              | 09:52 | ND                  |                            |
| 13  | 1012 Community Room    | 09:34 | ND                  |                            |
| 14  | 1006 Office Suite      | 09:43 | ND                  |                            |
| 15  | 1009 Office            | 10:00 | ND                  |                            |
| 16  | 1011 Conference Room   | 10:09 | ND                  |                            |
| 17  | 1001 Lobby A           | 10:17 | 0.6                 |                            |
| 18  | 1001 Lobby B           | 10:26 | 1.1                 |                            |
| 19  | Unit 2016              | 10:34 | 1.6                 |                            |
| 20  | Unit 2018              | 10:42 | 0.6                 |                            |
| 21  | Unit 2022              | 10:50 | ND                  |                            |
| 22  | Unit 2093              | 11:07 | ND                  |                            |
| 23  | Unit 2110              | 11:18 | ND                  |                            |
| 24  | Gym Skywalk            | 11:27 | ND                  |                            |
| 25  | Unit 3095              | 11:39 | ND                  |                            |
| 26  | Unit 3093              | 11:46 | ND                  |                            |
| 27  | Unit 3092              | 11:55 | ND                  |                            |
| 28  | Unit 3087              | 13:29 | ND                  |                            |
| 29  | Unit 3083              | 13:39 | ND                  |                            |
| 30  | Unit 3110              | 13:47 | ND                  |                            |



| 31 | Unit 3113          | 14:02 | ND  |                              |
|----|--------------------|-------|-----|------------------------------|
| 32 | Unit 3079          | 14:12 | ND  |                              |
| 33 | Unit 3117          | 14:20 | ND  |                              |
| 34 | Unit 2112          | 14:40 | ND  |                              |
| 35 | Unit 2115          | 14:50 | ND  |                              |
| 36 | Unit 3027          | 14:32 | ND  |                              |
| 37 | Unit 3026          | 14:59 | ND  |                              |
| 38 | Unit 3036          | 15:07 | ND  |                              |
| 39 | Unit 3039          | 15:16 | ND  |                              |
| 40 | 1089               | 15:34 | ND  | Tested after pipe was sealed |
| 41 | N. Mechanical Room | 15:43 | 1.3 |                              |
| 42 | 1056               | 15:51 | 1.7 |                              |



#### Attachment B Eurofins Lab Report



## **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Mr. Robert Reineke K. Singh & Associates, Inc 3636 N. 124th Street Wauwatosa, Wisconsin 53222

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### **JOB DESCRIPTION**

Community Within the Corridor East Block - 40576

### **JOB NUMBER**

500-246935-1

Eurofins Chicago 2417 Bond Street University Park IL 60484

### **Eurofins Chicago**

#### **Job Notes**

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

#### **Compliance Statement**

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

#### **Definitions of Limits**

- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

#### **Authorization**

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Authorized for release by Sandie Fredrick, Senior Project Manager Sandra.Fredrick@et.eurofinsus.com

(920)261-1660

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#### **Case Narrative**

Client: K. Singh & Associates, Inc

Project: Community Within the Corridor East Block - 40576

Job ID: 500-246935-1 Eurofins Chicago

Job Narrative 500-246935-1

#### Receipt

The sample was received on 3/5/2024 9:55 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

#### **GC/MS VOA**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-246935-1



| •                                   |   |               |               |   |                          |  |  |   |          |    |                              |           |         |         |      |             |            |             | 500-         | 246                                       | 935          | _                             |
|-------------------------------------|---|---------------|---------------|---|--------------------------|--|--|---|----------|----|------------------------------|-----------|---------|---------|------|-------------|------------|-------------|--------------|---|--------------|-------------------------------|
| Sample Collector(s)                 |   |               |               |   | Title                    |  | ¥1   |   |          |    | Telepho                      | ne # (ind | cl area | code)   |      |             |            | Report To   |              |   |              |                               |
| Samuel Ramirez & Rober              | t Reineke                               |               |               |   | Staff Geologist & Senior | Enginee                                | r  |   |          |    | (262) 82                     | 1 1171    |         |         |      |             |            | Pratap Sing | h, Robert Re | ineke, Lab Re                             | sults        |                               |
| Property Owner                      |   |               | 500           | )-246935 COC                                    | Property Address         |  |  |   |          |    | Telephone # (incl area code) |           |         |         |      | KSingh Proj | ect#       |             |              |   |              |                               |
| Community Within the Co             | rridor East I                           | Block         |               |   | 2748 N 3                 | 2nd Stre                               | et, Milw   | aukee, W                                | /I       |    |                              |           |         |         |      |             |            | 40576       | i            |   |              |                               |
| I hereby certify that I rece        |   | y, and dispos | ed of the san | nples as noted below                            |                          |  |  | *************************************** |          |    | Laborate                     |           |         | Eurofin | S    |             |            |             |              |   |              |                               |
| Relinquished By (Signatu            | re)                                     | American mil  |               |   | Date/Time                | 3                                      | -  | w                                       |          |    | Receive                      | E         | C       | 1       | 14/2 |             | мζ         |             | remaining,   | vere received<br>you may rep              | oort the ten | there was ice<br>nperature as |
| Relinquished By (Signatu            | re)                                     | R             |               |   | 3/4/Date/Time            | 24                                     | 170  | 00<br>irif                              | ins      |    | Receive                      | a By (Si  | gnature | hot     | 5    | 3,          | 157.<br>69 | 24<br>55    |              | n ice' If all o<br>of the melt r<br>blank |              |                               |
|                                     |   |               |               | (SL), surface water (S<br>le ID to the sampling | W), etc                  |  |  |   |          |    |                              |           |         |         |      |             |            |             | S            | ample Condit                              | ion          |                               |
| Z Gample dest                       | AIPRION MUSE                            |               | nples         | I to the sampling                               | TOORIUII                 |  |  |   |          |    |                              |           |         |         |      |             |            |             | # / Type o   | of Container                              |              |                               |
| Date Collected                      | Time<br>Collected                       | Туре (1)      | Device        | Locatio.  | n/Description (2)        | VOCs                                   |  |   | :        |    |                              |           |         |         |      |             |            | MeOH        | HCL          | H2SO4                                     | Unpres       | Other<br>Comment              |
| 3/3/2024                            | 16·00                                   | GW            | Bailer        |   | anical Room East Sump    | X                                      | <u> </u>   |   |          |    |                              |           |         |         |      |             |            |             | 3            |   |              | 24 hr TAT                     |
|                                     | -                                       |               |               |   |                          |  |  |   |          |    |                              |           |         |         |      |             |            |             |              | 1   |              |                               |
|                                     |   |               |               |   |                          | ļ                                      | <b>†</b>   |   |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     | *************************************** |               |               |   |                          |  | 1  |   |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  | <del></del>                             |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  |   |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  |   |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  |   |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          | ······································ |  |   | <u> </u> |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  | 1                                       |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  |   |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  | 1                                       |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  |  | <u> </u>                                |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
|                                     |   |               |               |   |                          |  | <del>                                     </del> | 1                                       |          | ļ  |                              |           |         |         |      |             |            |             |              |   |              |                               |
| DEPARTMENT USE / OF                 | TIONAL FO                               | R SOIL SAM    | PLES          |   |                          | DEPAR                                  | RTMEN  | T USE Of                                | VLY      | I  |                              | <u> </u>  | L       |         |      | I           | L          | <u> </u>    | .1           | I   |              | <u> </u>                      |
| Disposition of unused por           |   | е             |               |   |                          |  |  |   |          |    |                              |           |         |         |      |             |            |             |              |   |              |                               |
| Laboratory should (check<br>Dispose | )                                       | Return        | ſ             | Retain for                                      | Other                    | Split Sa                               | amples   |   | Offered  |    | L                            | Υ         |         |         | N    | Accepte     | ed By      |             |              |   |              |                               |
| Disposo                             | L                                       | 1             |               | (days)  |                          |  |  |   | Accepte  | ed |                              | Υ         |         |         | N    | Signatu     | re .       |             |              | ***************************************   |              |                               |





IAN EVANS EUROFINS 4125 N 124TH STREET

BILL RECIPIENT

ACTWG1: 47.10 LB CAD: 0780307/CAFE3755

TO SAMPLE RECEIPT **EUROFINS - CHICAGO** 

Part # 159469-434 MTW EXP 03/24 BROOKFIELD, WI 59005 UNITED STATES US 2417 BOND ST.

#### **UNIVERSITY PARK IL 60484**

(708) 534-5200

DEP 1:



REF:

FedEx Express

TRK# 7252 5234 1769

TUE - 05 MAR 10:30A PRIORITY OVERNIGHT.

**79 JOTA** 

\*4

60484



Page 6 of 20 3/6/2024

### **Detection Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Client Sample ID: Northern Mechanical Room East Sump

Lab Sample ID: 500-246935-1

Job ID: 500-246935-1

| Analyte                     | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|------|------|---------|---|--------|-----------|
| Benzene                     | 20     |           | 0.50 | 0.15 | ug/L | 1       | _ | 8260D  | Total/NA  |
| Chloroethane                | 100    |           | 5.0  | 0.51 | ug/L | 1       |   | 8260D  | Total/NA  |
| 1,1-Dichloroethane          | 180    |           | 1.0  | 0.41 | ug/L | 1       |   | 8260D  | Total/NA  |
| 1,1-Dichloroethene          | 10     |           | 1.0  | 0.39 | ug/L | 1       |   | 8260D  | Total/NA  |
| Isopropylbenzene            | 75     |           | 1.0  | 0.39 | ug/L | 1       |   | 8260D  | Total/NA  |
| Naphthalene                 | 100    |           | 1.0  | 0.34 | ug/L | 1       |   | 8260D  | Total/NA  |
| N-Propylbenzene             | 150    |           | 1.0  | 0.41 | ug/L | 1       |   | 8260D  | Total/NA  |
| p-Isopropyltoluene          | 120    |           | 1.0  | 0.36 | ug/L | 1       |   | 8260D  | Total/NA  |
| sec-Butylbenzene            | 90     |           | 1.0  | 0.40 | ug/L | 1       |   | 8260D  | Total/NA  |
| Tetrachloroethene           | 0.85   | J         | 1.0  | 0.37 | ug/L | 1       |   | 8260D  | Total/NA  |
| Toluene                     | 120    |           | 0.50 | 0.15 | ug/L | 1       |   | 8260D  | Total/NA  |
| Trichloroethene             | 0.29   | J         | 0.50 | 0.16 | ug/L | 1       |   | 8260D  | Total/NA  |
| Vinyl chloride              | 54     |           | 1.0  | 0.20 | ug/L | 1       |   | 8260D  | Total/NA  |
| cis-1,2-Dichloroethene - DL | 280    |           | 10   | 4.1  | ug/L | 10      |   | 8260D  | Total/NA  |
| Ethylbenzene - DL           | 180    |           | 5.0  | 1.8  | ug/L | 10      |   | 8260D  | Total/NA  |
| 1,1,1-Trichloroethane - DL  | 240    |           | 10   | 3.8  | ug/L | 10      |   | 8260D  | Total/NA  |
| 1,2,4-Trimethylbenzene - DL | 580    |           | 10   | 3.6  | ug/L | 10      |   | 8260D  | Total/NA  |
| 1,3,5-Trimethylbenzene - DL | 180    |           | 10   | 2.5  | ug/L | 10      |   | 8260D  | Total/NA  |
| Xylenes, Total - DL         | 550    |           | 10   | 2.2  | ug/L | 10      |   | 8260D  | Total/NA  |

This Detection Summary does not include radiochemical test results.

#### **Method Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Method **Method Description Protocol** Laboratory 8260D Volatile Organic Compounds by GC/MS SW846 EET CHI 5030B Purge and Trap SW846 **EET CHI** 

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Job ID: 500-246935-1

#### **Sample Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Lab Sample ID<br/>500-246935-1Client Sample IDMatrixCollectedReceivedNorthern Mechanical Room East SumpGround Water03/03/24 16:0003/05/24 09:55

Job ID: 500-246935-1

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#### **Client Sample Results**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Client Sample ID: Northern Mechanical Room East Sump

Lab Sample ID: 500-246935-1 Date Collected: 03/03/24 16:00 **Matrix: Ground Water** 

Date Received: 03/05/24 09:55

| Analyte                     | Result Qualifier   | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fa |
|-----------------------------|--------------------|------|------|------|---|----------|----------------|--------|
| Benzene                     | 20                 | 0.50 | 0.15 | ug/L |   |          | 03/06/24 11:01 |        |
| Bromobenzene                | <0.36              | 1.0  | 0.36 | ug/L |   |          | 03/06/24 11:01 |        |
| Bromochloromethane          | <0.43              | 1.0  | 0.43 | ug/L |   |          | 03/06/24 11:01 |        |
| Bromoform                   | <0.48              | 1.0  | 0.48 | ug/L |   |          | 03/06/24 11:01 |        |
| Bromomethane                | <0.80              | 3.0  | 0.80 | ug/L |   |          | 03/06/24 11:01 |        |
| Carbon tetrachloride        | <0.38              | 1.0  | 0.38 | ug/L |   |          | 03/06/24 11:01 |        |
| Chlorobenzene               | <0.39              | 1.0  | 0.39 | ug/L |   |          | 03/06/24 11:01 |        |
| Chloroethane                | 100                | 5.0  | 0.51 | ug/L |   |          | 03/06/24 11:01 |        |
| Chloroform                  | <0.37              | 2.0  | 0.37 | -    |   |          | 03/06/24 11:01 |        |
| Chloromethane               | <0.32              | 5.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 2-Chlorotoluene             | <0.31              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 4-Chlorotoluene             | <0.35              | 1.0  | 0.35 | -    |   |          | 03/06/24 11:01 |        |
| cis-1,3-Dichloropropene     | <0.42              | 1.0  | 0.42 |      |   |          | 03/06/24 11:01 |        |
| Dibromochloromethane        | <0.49              | 1.0  | 0.49 | -    |   |          | 03/06/24 11:01 |        |
| 1,2-Dibromo-3-Chloropropane | <2.0               | 5.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,2-Dibromoethane (EDB)     | <0.39              | 1.0  | 0.39 |      |   |          | 03/06/24 11:01 |        |
| Dibromomethane              | <0.27              | 1.0  | 0.27 | -    |   |          | 03/06/24 11:01 |        |
| 1,2-Dichlorobenzene         | <0.33              | 1.0  | 0.33 | _    |   |          | 03/06/24 11:01 |        |
| 1,3-Dichlorobenzene         | <0.40              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,4-Dichlorobenzene         | <0.36              | 1.0  | 0.36 | -    |   |          | 03/06/24 11:01 |        |
| Dichlorobromomethane        | <0.37              | 1.0  | 0.37 | -    |   |          | 03/06/24 11:01 |        |
| Dichlorodifluoromethane     | <0.67              | 3.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,1-Dichloroethane          | 180                | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,2-Dichloroethane          | <0.39              | 1.0  | 0.39 | -    |   |          | 03/06/24 11:01 |        |
| 1,1-Dichloroethene          | 10                 | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,2-Dichloropropane         | <0.43              | 1.0  | 0.43 | -    |   |          | 03/06/24 11:01 |        |
| 1,3-Dichloropropane         | <0.36              | 1.0  | 0.43 | -    |   |          | 03/06/24 11:01 |        |
| 2,2-Dichloropropane         | <0.44              | 5.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,1-Dichloropropene         | <0.30              | 1.0  | 0.30 | -    |   |          | 03/06/24 11:01 |        |
| Hexachlorobutadiene         | <0.45              | 1.0  | 0.30 | _    |   |          | 03/06/24 11:01 |        |
|                             |                    |      | 0.45 |      |   |          | 03/06/24 11:01 |        |
| Isopropylbenzene            | <b>75</b><br><0.28 | 1.0  |      | -    |   |          |                |        |
| Isopropyl ether             |                    | 1.0  | 0.28 | -    |   |          | 03/06/24 11:01 |        |
| Methylene Chloride          | <1.6               | 5.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| Methyl tert-butyl ether     | <0.39              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| Naphthalene                 | 100                | 1.0  | 0.34 | Ū    |   |          | 03/06/24 11:01 |        |
| n-Butylbenzene              | <0.39              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| N-Propylbenzene             | 150                | 1.0  |      | ug/L |   |          | 03/06/24 11:01 | •      |
| p-lsopropyltoluene          | 120                | 1.0  |      | ug/L |   |          | 03/06/24 11:01 | •      |
| sec-Butylbenzene            | 90                 | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| Styrene                     | <0.39              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| tert-Butylbenzene           | <0.40              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,1,1,2-Tetrachloroethane   | <0.46              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| 1,1,2,2-Tetrachloroethane   | <0.40              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| Tetrachloroethene           | 0.85 J             | 1.0  |      | ug/L |   |          | 03/06/24 11:01 |        |
| Toluene                     | 120                | 0.50 |      | ug/L |   |          | 03/06/24 11:01 |        |
| trans-1,2-Dichloroethene    | <0.35              | 1.0  |      | ug/L |   |          | 03/06/24 11:01 | •      |
| trans-1,3-Dichloropropene   | <0.36              | 1.0  | 0.36 | ug/L |   |          | 03/06/24 11:01 |        |
| 1,2,3-Trichlorobenzene      | <0.46              | 1.0  | 0.46 | ug/L |   |          | 03/06/24 11:01 |        |

**Eurofins Chicago** 

Page 10 of 20

Job ID: 500-246935-1

#### **Client Sample Results**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Client Sample ID: Northern Mechanical Room East Sump

105

Lab Sample ID: 500-246935-1 Date Collected: 03/03/24 16:00 **Matrix: Ground Water** 

Date Received: 03/05/24 09:55

Toluene-d8 (Surr)

| Method: SW846 8260D - Vo     | latile Organic | Compoun   | ds by GC/MS | (Contin | ued) |   |          |                |         |
|------------------------------|----------------|-----------|-------------|---------|------|---|----------|----------------|---------|
| Analyte                      | Result         | Qualifier | RL          | MDL     | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,2,4-Trichlorobenzene       | <0.34          |           | 1.0         | 0.34    | ug/L |   |          | 03/06/24 11:01 | 1       |
| 1,1,2-Trichloroethane        | <0.35          |           | 1.0         | 0.35    | ug/L |   |          | 03/06/24 11:01 | 1       |
| Trichloroethene              | 0.29           | J         | 0.50        | 0.16    | ug/L |   |          | 03/06/24 11:01 | 1       |
| Trichlorofluoromethane       | <0.43          |           | 1.0         | 0.43    | ug/L |   |          | 03/06/24 11:01 | 1       |
| 1,2,3-Trichloropropane       | <0.41          |           | 2.0         | 0.41    | ug/L |   |          | 03/06/24 11:01 | 1       |
| Vinyl chloride               | 54             |           | 1.0         | 0.20    | ug/L |   |          | 03/06/24 11:01 | 1       |
| Surrogate                    | %Recovery      | Qualifier | Limits      |         |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 120            |           | 72 - 124    |         |      | - |          | 03/06/24 11:01 | 1       |
| Dibromofluoromethane (Surr)  | 108            |           | 75 - 120    |         |      |   |          | 03/06/24 11:01 | 1       |
| 1 2-Dichloroethane-d4 (Surr) | 103            |           | 75 - 126    |         |      |   |          | 03/06/24 11:01 | 1       |

75 - 120

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| cis-1,2-Dichloroethene       | 280       |           | 10       | 4.1 | ug/L |   |          | 03/06/24 11:26 | 10      |
| Ethylbenzene                 | 180       |           | 5.0      | 1.8 | ug/L |   |          | 03/06/24 11:26 | 10      |
| 1,1,1-Trichloroethane        | 240       |           | 10       | 3.8 | ug/L |   |          | 03/06/24 11:26 | 10      |
| 1,2,4-Trimethylbenzene       | 580       |           | 10       | 3.6 | ug/L |   |          | 03/06/24 11:26 | 10      |
| 1,3,5-Trimethylbenzene       | 180       |           | 10       | 2.5 | ug/L |   |          | 03/06/24 11:26 | 10      |
| Xylenes, Total               | 550       |           | 10       | 2.2 | ug/L |   |          | 03/06/24 11:26 | 10      |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 102       |           | 72 - 124 |     |      | - |          | 03/06/24 11:26 | 10      |
| Dibromofluoromethane (Surr)  | 105       |           | 75 - 120 |     |      |   |          | 03/06/24 11:26 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 75 - 126 |     |      |   |          | 03/06/24 11:26 | 10      |
| Toluene-d8 (Surr)            | 99        |           | 75 - 120 |     |      |   |          | 03/06/24 11:26 | 10      |

Job ID: 500-246935-1

03/06/24 11:01

#### **Definitions/Glossary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

**Qualifiers** 

**GC/MS VOA** 

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 500-246935-1

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### **QC Association Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

#### **GC/MS VOA**

#### Analysis Batch: 756998

|   | Lab Sample ID     | Client Sample ID                   | Prep Type | Matrix              | Method | Prep Batch |
|---|-------------------|------------------------------------|-----------|---------------------|--------|------------|
|   | 500-246935-1      | Northern Mechanical Room East Sump | Total/NA  | Ground Water        | 8260D  | <u> </u>   |
|   | 500-246935-1 - DL | Northern Mechanical Room East Sump | Total/NA  | <b>Ground Water</b> | 8260D  |            |
|   | MB 500-756998/6   | Method Blank                       | Total/NA  | Water               | 8260D  |            |
| İ | LCS 500-756998/4  | Lab Control Sample                 | Total/NA  | Water               | 8260D  |            |

Job ID: 500-246935-1

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#### **Surrogate Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Method: 8260D - Volatile Organic Compounds by GC/MS

**Matrix: Ground Water** Prep Type: Total/NA

|                   |                                       |          | Pe       | ercent Surre | ogate Reco |
|-------------------|---------------------------------------|----------|----------|--------------|------------|
|                   |                                       | BFB      | DBFM     | DCA          | TOL        |
| Lab Sample ID     | Client Sample ID                      | (72-124) | (75-120) | (75-126)     | (75-120)   |
| 500-246935-1 - DL | Northern Mechanical Room East         | 102      | 105      | 101          | 99         |
| 500-246935-1      | Northern Mechanical Room<br>East Sump | 120      | 108      | 103          | 105        |
| Surrogate Legend  | _uot 0 up                             |          |          |              |            |

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

**Matrix: Water** Prep Type: Total/NA

|                     |                    |          | Pe       | ercent Surre | ogate Reco |
|---------------------|--------------------|----------|----------|--------------|------------|
|                     |                    | BFB      | DBFM     | DCA          | TOL        |
| Lab Sample ID       | Client Sample ID   | (72-124) | (75-120) | (75-126)     | (75-120)   |
| LCS 500-756998/4    | Lab Control Sample | 94       | 107      | 95           | 99         |
| MB 500-756998/6     | Method Blank       | 99       | 108      | 101          | 97         |
| Surrogate Legend    |                    |          |          |              |            |
| BFB = 4-Bromofluoro | benzene (Surr)     |          |          |              |            |

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Job ID: 500-246935-1

#### **QC Sample Results**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-756998/6

**Matrix: Water** 

Analysis Batch: 756998

Client Sample ID: Method Blank

Job ID: 500-246935-1

**Prep Type: Total/NA** 

| D | Prepared | Analyzed       | Dil Fac |
|---|----------|----------------|---------|
| _ |          | 03/06/24 10:14 | 1       |
|   |          | 03/06/24 10:14 | 1       |

| Amalusta                    |                | MB        | D.   | BAD! | l lmit       | _ | Duamana a' | A mal!                           | DU Es  |
|-----------------------------|----------------|-----------|------|------|--------------|---|------------|----------------------------------|--------|
| Analyte                     |                | Qualifier | RL   | MDL  |              | D | Prepared   | Analyzed                         | Dil Fa |
| Benzene                     | <0.15          |           | 0.50 |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Bromobenzene                | <0.36          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | •      |
| Bromochloromethane          | <0.43          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Bromoform                   | <0.48          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | Ź      |
| Bromomethane                | <0.80          |           | 3.0  |      | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| Carbon tetrachloride        | <0.38          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Chlorobenzene               | <0.39          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | •      |
| Chloroethane                | <0.51          |           | 5.0  |      | ug/L         |   |            | 03/06/24 10:14                   | •      |
| Chloroform                  | <0.37          |           | 2.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Chloromethane               | <0.32          |           | 5.0  | 0.32 | ug/L         |   |            | 03/06/24 10:14                   | •      |
| 2-Chlorotoluene             | <0.31          |           | 1.0  | 0.31 | ug/L         |   |            | 03/06/24 10:14                   | •      |
| 4-Chlorotoluene             | <0.35          |           | 1.0  | 0.35 | ug/L         |   |            | 03/06/24 10:14                   |        |
| cis-1,2-Dichloroethene      | <0.41          |           | 1.0  | 0.41 | ug/L         |   |            | 03/06/24 10:14                   | •      |
| cis-1,3-Dichloropropene     | <0.42          |           | 1.0  | 0.42 | ug/L         |   |            | 03/06/24 10:14                   | •      |
| Dibromochloromethane        | < 0.49         |           | 1.0  | 0.49 | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| 1,2-Dibromo-3-Chloropropane | <2.0           |           | 5.0  | 2.0  | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,2-Dibromoethane (EDB)     | < 0.39         |           | 1.0  | 0.39 | ug/L         |   |            | 03/06/24 10:14                   | •      |
| Dibromomethane              | <0.27          |           | 1.0  | 0.27 | ug/L         |   |            | 03/06/24 10:14                   | •      |
| 1,2-Dichlorobenzene         | <0.33          |           | 1.0  | 0.33 | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,3-Dichlorobenzene         | <0.40          |           | 1.0  | 0.40 | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,4-Dichlorobenzene         | < 0.36         |           | 1.0  | 0.36 | ug/L         |   |            | 03/06/24 10:14                   |        |
| Dichlorobromomethane        | <0.37          |           | 1.0  | 0.37 | ug/L         |   |            | 03/06/24 10:14                   | •      |
| Dichlorodifluoromethane     | < 0.67         |           | 3.0  | 0.67 | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,1-Dichloroethane          | <0.41          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,2-Dichloroethane          | <0.39          |           | 1.0  | 0.39 | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,1-Dichloroethene          | < 0.39         |           | 1.0  | 0.39 | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,2-Dichloropropane         | < 0.43         |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,3-Dichloropropane         | <0.36          |           | 1.0  | 0.36 | ug/L         |   |            | 03/06/24 10:14                   |        |
| 2,2-Dichloropropane         | <0.44          |           | 5.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| 1,1-Dichloropropene         | <0.30          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Ethylbenzene                | <0.18          |           | 0.50 |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Hexachlorobutadiene         | <0.45          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Isopropylbenzene            | <0.39          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Isopropyl ether             | <0.28          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| Methylene Chloride          | <1.6           |           | 5.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Methyl tert-butyl ether     | <0.39          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| Naphthalene                 | <0.34          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| n-Butylbenzene              | <0.39          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| N-Propylbenzene             | <0.41          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   |        |
| p-lsopropyltoluene          | <0.36          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| sec-Butylbenzene            | <0.40          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| Styrene                     | <0.39          |           | 1.0  |      | ug/L         |   |            | 03/06/24 10:14                   | ,      |
| tert-Butylbenzene           | <0.39          |           | 1.0  |      | ug/L<br>ug/L |   |            | 03/06/24 10:14                   | ,      |
| 1,1,1,2-Tetrachloroethane   | <0.46          |           | 1.0  |      | ug/L<br>ug/L |   |            | 03/06/24 10:14                   | ,      |
| 1,1,2-Tetrachloroethane     | <0.40          |           | 1.0  |      | -            |   |            | 03/06/24 10:14                   |        |
| Tetrachloroethene           |                |           | 1.0  |      | ug/L         |   |            |                                  |        |
| Toluene                     | <0.37<br><0.15 |           | 0.50 |      | ug/L<br>ug/L |   |            | 03/06/24 10:14<br>03/06/24 10:14 |        |

**Eurofins Chicago** 

#### **QC Sample Results**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-756998/6

**Matrix: Water** 

**Analysis Batch: 756998** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Job ID: 500-246935-1

|                           | MB     | MR        |      |      |      |   |          |                |         |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Analyte                   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| trans-1,2-Dichloroethene  | <0.35  |           | 1.0  | 0.35 | ug/L |   |          | 03/06/24 10:14 | 1       |
| trans-1,3-Dichloropropene | <0.36  |           | 1.0  | 0.36 | ug/L |   |          | 03/06/24 10:14 | 1       |
| 1,2,3-Trichlorobenzene    | <0.46  |           | 1.0  | 0.46 | ug/L |   |          | 03/06/24 10:14 | 1       |
| 1,2,4-Trichlorobenzene    | < 0.34 |           | 1.0  | 0.34 | ug/L |   |          | 03/06/24 10:14 | 1       |
| 1,1,1-Trichloroethane     | <0.38  |           | 1.0  | 0.38 | ug/L |   |          | 03/06/24 10:14 | 1       |
| 1,1,2-Trichloroethane     | < 0.35 |           | 1.0  | 0.35 | ug/L |   |          | 03/06/24 10:14 | 1       |
| Trichloroethene           | <0.16  |           | 0.50 | 0.16 | ug/L |   |          | 03/06/24 10:14 | 1       |
| Trichlorofluoromethane    | <0.43  |           | 1.0  | 0.43 | ug/L |   |          | 03/06/24 10:14 | 1       |
| 1,2,3-Trichloropropane    | <0.41  |           | 2.0  | 0.41 | ug/L |   |          | 03/06/24 10:14 | 1       |
| 1,2,4-Trimethylbenzene    | < 0.36 |           | 1.0  | 0.36 | ug/L |   |          | 03/06/24 10:14 | 1       |
| 1,3,5-Trimethylbenzene    | <0.25  |           | 1.0  | 0.25 | ug/L |   |          | 03/06/24 10:14 | 1       |
| Vinyl chloride            | <0.20  |           | 1.0  | 0.20 | ug/L |   |          | 03/06/24 10:14 | 1       |
| Xylenes, Total            | <0.22  |           | 1.0  | 0.22 | ug/L |   |          | 03/06/24 10:14 | 1       |
|                           |        |           |      |      |      |   |          |                |         |

MB MB Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 4-Bromofluorobenzene (Surr) 99 72 - 124 03/06/24 10:14 75 - 120 Dibromofluoromethane (Surr) 108 03/06/24 10:14 1,2-Dichloroethane-d4 (Surr) 101 75 - 126 03/06/24 10:14 Toluene-d8 (Surr) 97 75 - 120 03/06/24 10:14

Lab Sample ID: LCS 500-756998/4

**Matrix: Water** 

**Analysis Batch: 756998** 

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

|                             | Spike | LCS    | LCS            |        | %Rec     |
|-----------------------------|-------|--------|----------------|--------|----------|
| Analyte                     | Added | Result | Qualifier Unit | D %Rec | Limits   |
| Benzene                     | 50.0  | 41.8   | ug/L           | 84     | 70 - 120 |
| Bromobenzene                | 50.0  | 46.7   | ug/L           | 93     | 70 - 122 |
| Bromochloromethane          | 50.0  | 49.3   | ug/L           | 99     | 65 - 122 |
| Bromoform                   | 50.0  | 43.8   | ug/L           | 88     | 56 - 132 |
| Bromomethane                | 50.0  | 58.8   | ug/L           | 118    | 40 - 152 |
| Carbon tetrachloride        | 50.0  | 50.5   | ug/L           | 101    | 59 - 133 |
| Chlorobenzene               | 50.0  | 46.3   | ug/L           | 93     | 70 - 120 |
| Chloroethane                | 50.0  | 42.2   | ug/L           | 84     | 48 - 136 |
| Chloroform                  | 50.0  | 44.1   | ug/L           | 88     | 70 - 120 |
| Chloromethane               | 50.0  | 33.6   | ug/L           | 67     | 56 - 152 |
| 2-Chlorotoluene             | 50.0  | 42.3   | ug/L           | 85     | 70 - 125 |
| 4-Chlorotoluene             | 50.0  | 42.4   | ug/L           | 85     | 68 - 124 |
| cis-1,2-Dichloroethene      | 50.0  | 45.2   | ug/L           | 90     | 70 - 125 |
| cis-1,3-Dichloropropene     | 50.0  | 37.0   | ug/L           | 74     | 64 - 127 |
| Dibromochloromethane        | 50.0  | 43.4   | ug/L           | 87     | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 50.0  | 34.6   | ug/L           | 69     | 56 - 123 |
| 1,2-Dibromoethane (EDB)     | 50.0  | 42.1   | ug/L           | 84     | 70 - 125 |
| Dibromomethane              | 50.0  | 43.5   | ug/L           | 87     | 70 - 120 |
| 1,2-Dichlorobenzene         | 50.0  | 46.4   | ug/L           | 93     | 70 - 125 |
| 1,3-Dichlorobenzene         | 50.0  | 45.8   | ug/L           | 92     | 70 - 125 |
| 1,4-Dichlorobenzene         | 50.0  | 46.5   | ug/L           | 93     | 70 - 120 |
| Dichlorobromomethane        | 50.0  | 42.8   | ug/L           | 86     | 69 - 120 |

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#### **QC Sample Results**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-756998/4

**Matrix: Water** 

Xylenes, Total

Analysis Batch: 756998

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Job ID: 500-246935-1

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Dichlorodifluoromethane 50.0 45.5 ug/L 91 40 - 159 1,1-Dichloroethane 50.0 40.4 ug/L 81 70 - 125 1,2-Dichloroethane 50.0 42.7 ug/L 85 68 - 127 67 - 122 50.0 97 1,1-Dichloroethene 48.4 ug/L 1,2-Dichloropropane 50.0 37.1 ug/L 74 67 - 1301,3-Dichloropropane 50.0 37.8 ug/L 76 62 - 136 2,2-Dichloropropane 50.0 46.9 ug/L 94 58 - 139 1,1-Dichloropropene 50.0 43.5 ug/L 87 70 - 121 Ethylbenzene 50.0 44.6 ug/L 89 70 - 123 Hexachlorobutadiene 50.0 50.0 ug/L 100 51 - 150 Isopropylbenzene 91 50.0 45.4 ug/L 70 - 126 Methylene Chloride 50.0 41.9 84 69 - 125 ug/L Methyl tert-butyl ether 50.0 36.6 ug/L 73 55 - 123 Naphthalene 50.0 41.0 ug/L 82 53 - 144 50.0 44.6 n-Butylbenzene ug/L 89 68 - 125 N-Propylbenzene 50.0 44.0 ug/L 88 69 - 127 50.0 48.2 96 70 - 125 p-Isopropyltoluene ug/L sec-Butylbenzene 50.0 45.6 ug/L 91 70 - 123 ug/L 50.0 44.9 90 70 - 120 Styrene ug/L tert-Butylbenzene 50.0 47.3 95 70 - 121 1.1.1.2-Tetrachloroethane 50.0 45.1 ug/L 90 70 - 125 1,1,2,2-Tetrachloroethane 50.0 36.7 ug/L 73 62 - 140 Tetrachloroethene 50.0 49.2 98 70 - 128 ug/L 80 Toluene 50.0 40.1 ug/L 70 - 125 50.0 47.3 95 70 - 125 trans-1,2-Dichloroethene ug/L 50.0 37.2 74 trans-1,3-Dichloropropene ug/L 62 - 128 1,2,3-Trichlorobenzene 50.0 45.7 ug/L 91 51 - 145 1,2,4-Trichlorobenzene 50.0 46.0 ug/L 92 57 - 137 1,1,1-Trichloroethane 50.0 48.5 ug/L 97 70 - 1251,1,2-Trichloroethane 50.0 39.7 ug/L 79 71 - 130 Trichloroethene 50.0 49.7 ug/L 99 70 - 125 Trichlorofluoromethane 50.0 56.4 ug/L 113 55 - 128 50.0 38.0 76 50 - 133 1,2,3-Trichloropropane ug/L 1,2,4-Trimethylbenzene 50.0 44.5 ug/L 89 70 - 123 1,3,5-Trimethylbenzene 50.0 45.5 ug/L 91 70 - 123 Vinyl chloride 50.0 38.8 ug/L 78 64 - 126

LCS LCS

| Surrogate                    | %Recovery | Qualifier | Limits              |
|------------------------------|-----------|-----------|---------------------|
| 4-Bromofluorobenzene (Surr)  | 94        |           | 72 - 124            |
| Dibromofluoromethane (Surr)  | 107       |           | 75 <sub>-</sub> 120 |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 75 - 126            |
| Toluene-d8 (Surr)            | 99        |           | 75 - 120            |

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70 - 125

100

82.5

ug/L

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#### **Lab Chronicle**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

Client Sample ID: Northern Mechanical Room East Sump

Lab Sample ID: 500-246935-1 Date Collected: 03/03/24 16:00 **Matrix: Ground Water** 

Date Received: 03/05/24 09:55

| _         | Batch    | Batch  |     | Dilution | Batch  |         |         | Prepared       |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type     | Method | Run | Factor   | Number | Analyst | Lab     | or Analyzed    |
| Total/NA  | Analysis | 8260D  |     | 1        | 756998 | EA      | EET CHI | 03/06/24 11:01 |
| Total/NA  | Analysis | 8260D  | DL  | 10       | 756998 | EA      | EET CHI | 03/06/24 11:26 |

#### **Laboratory References:**

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Job ID: 500-246935-1

### **Accreditation/Certification Summary**

Client: K. Singh & Associates, Inc

Project/Site: Community Within the Corridor East Block -

40576

#### **Laboratory: Eurofins Chicago**

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | <b>Expiration Date</b> |
|-----------|---------|-----------------------|------------------------|
| Wisconsin | State   | 999580010             | 08-31-24               |

Job ID: 500-246935-1

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#### **Login Sample Receipt Checklist**

Client: K. Singh & Associates, Inc Job Number: 500-246935-1

Login Number: 246935 List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

| Creator: Scott, Snerri L   |        |         |
|--|--------|---------|
| Question   | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | True   |         |
| Sample custody seals, if present, are intact.  | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   | 5.1     |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |

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