03/24/2023 Terry Kilian-Lewandowski 133 East Thomas Wausau, WI 54401

> SUBJECT: Vapor Sampling Results - <u>Contaminants Not Detected</u> PROPERTY: 133 East Thomas Street, Wausau, WI 54401; BRRTS #0237000273

Dear Terry Kilian-Lewandowski,

Included are the findings of a recent investigation completed by Arcadis U.S. Inc. (Arcadis) on your property located at 133 East Thomas Street, Wausau, WI 54401.

As you are aware, this investigation was conducted because of the potential for contaminant vapors to be generated from groundwater leaving the nearby Former Wausau Motor property and the potential for these vapors to migrate through soil, accumulate beneath the foundation of your home, and possibly enter your indoor air. The contaminant of concern at the former Wausau Motor property was trichloroethylene or TCE. The history of this site and the potential concerns to neighboring residents were described in detail in the original letter sent to your home. The former Wausau Motors site is currently used by 3M as a parking lot and rail car storage.

On 02/28/2023, Arcadis, hired by 3M, started collecting an indoor air sample and a duplicate indoor air sample in the basement of your building. These indoor air samples were collected the next day (03/01/2023) after 24 hours of sampling. On 03/01/2023 after collecting the indoor air samples, Arcadis collected a sub-slab vapor sample from the sub-slab sampling port. The sub-slab sample port was installed into the floor of your foundation during the first sampling event on 6/9/2022. The indoor air and sub-slab vapor samples were submitted to Eurofins Air Toxics LLC for laboratory analysis of four contaminants including TCE, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene and vinyl chloride.

### Your Test Results:

Attached is a copy of the laboratory report for your sub-slab vapor and indoor air samples. The results of this round of sampling show that TCE and/or by-products were not detected in the indoor air or sub-slab vapor, confirming the results of the previous sampling events conducted in June and August 2022. There does not appear to be a risk of TCE vapor entering your home from beneath the foundation at this time.

We will be submitting a recommendation of no further indoor air or sub-slab vapor sampling at your property to the Wisconsin Department of Natural Resources (WDNR). Once the WDNR confirms that there is no risk of TCE vapor entering your home from beneath the foundation, we will contact you to schedule a time to remove the sub-slab vapor sampling port from the basement that is convenient for you.

Please feel free to contact me at 651-381-2583 if you have any questions about these results.

Sincerely,

Kevin Madson, 3M Center, Bldg 224-5-W-17 Maplewood, MN 55114 651-381-2583

Copy: Matt Thompson; Phone: 715-492-2304 Terry Kilian-Lewandowski



Wisconsin Department of Natural Resources P.O. Box 7921, Madison, WI 53707 dnr.wi.gov, search "brownfield"



# Table 1Summary of Indoor Air and Sub-Slab Analytical Results133 East Thomas StreetWausau, WI



|                          | Location ID      | North ROW                  | North ROW                  | North ROW                  | 133 East Thomas | 133 East Thomas | 133 East Thomas | 133 East Thomas |
|--------------------------|------------------|----------------------------|----------------------------|----------------------------|-----------------|-----------------|-----------------|-----------------|
|                          | Location ID      | Thomas Street <sup>^</sup> | Thomas Street <sup>^</sup> | Thomas Street <sup>^</sup> | Street          | Street          | Street          | Street          |
|                          | Sample ID        | OA-1 (06082022)            | OA-1 (08292022)            | OA-1 (02282023)            | IA-04B          | IA-04B          | IA-04B          | IA-DUP          |
|                          | Sample Date      | 6/9/2022                   | 8/30/2022                  | 3/1/2023                   | 6/9/2022        | 8/30/2022       | 3/1/2023        | 3/1/2023        |
|                          | Indoor Air VALs* |                            |                            |                            |                 |                 |                 |                 |
| Chemical Name            | (µg/m³)          |                            |                            |                            |                 |                 |                 |                 |
| cis-1,2-Dichloroethene   | 42               | ND                         | ND                         | ND                         | ND              | ND              | ND              | ND              |
| trans-1,2-Dichloroethene | 42               | ND                         | ND                         | ND                         | ND              | ND              | ND              | ND              |
| Trichloroethene          | 2.1              | ND                         | ND                         | ND                         | ND              | ND              | ND              | ND              |
| Vinyl chloride           | 1.7              | ND                         | ND                         | ND                         | ND              | ND              | ND              | ND              |

|                          | Location ID     | 133 East Thomas | 133 East Thomas | 133 East Thomas |
|--------------------------|-----------------|-----------------|-----------------|-----------------|
|                          | Location ID     | Street          | Street          | Street          |
|                          | Sample ID       | SS-04           | SS-04           | SS-04           |
|                          | Sample Date     | 6/9/2022        | 8/30/2022       | 3/1/2023        |
|                          | Sub-Slab RSLs** |                 |                 |                 |
| Chemical Name            | (µg/m³)         |                 |                 |                 |
| cis-1,2-Dichloroethene   | 1400            | ND              | ND              | ND              |
| trans-1,2-Dichloroethene | 1400            | ND              | ND              | ND              |
| Trichloroethene          | 70              | ND              | ND              | ND              |
| Vinyl chloride           | 56              | ND              | ND              | ND              |

#### Acronyms and Abbreviations:

ID - Identification ND - Not Detected RL - Reporting Limit ROW - Right-of-way RSL - Risk Screening Level µg/m<sup>3</sup> - microgram per cubic meter VAL - Vapor Action Levels

\*WI Remediation and Redevelopment Residential Indoor Air Vapor Action Levels - January 2023 \*\*WI Remediation and Redevelopment Residential Sub-Slab Risk Screening Levels - January 2023 ^North ROW of Thomas Street, Across from 127/129 East Thomas Street



### **Analytical Report**

3/16/2023 Amir Roghani Arcadis U.S., Inc. 2464 Fortune Drive #170

Lexington KY 40509

Project Name: 3M-Wausau Project #: Workorder #: 2303169A

Dear Amir Roghani

The following report includes the data for the above referenced project for sample(s) received on 3/3/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Brian Whittaker Project Manager

180 Blue Ravine Road, Suite B Folsom, CA 95630



#### WORK ORDER #: 2303169A

#### Work Order Summary

| CLIENT:                           | Amir Roghani<br>Arcadis U.S., Inc.<br>2464 Fortune Drive #170<br>Lexington, KY 40509 | BILL TO:      | Accounts Payable<br>Arcadis U.S., Inc.<br>630 Plaza Drive<br>Suite 600<br>Highlands Ranch, CO 80129 |
|-----------------------------------|--|---------------|---|
| PHONE:                            | 859-253-9036   | <b>P.O.</b> # | 30130403  |
| FAX:                              | (859) 253-9136   | PROJECT #     | 3M-Wausau   |
| DATE RECEIVED:<br>DATE COMPLETED: | 03/03/2023<br>03/16/2023   | CONTACT:      | Brian Whittaker   |

|            |                |                    | RECEIPT    | FINAL    |
|------------|----------------|--------------------|------------|----------|
| FRACTION # | NAME           | <u>TEST</u>        | VAC./PRES. | PRESSURE |
| 01A        | OA-1(022823)   | Modified TO-15 SIM | 4.5 "Hg    | 2 psi    |
| 02A        | IA-04B(022823) | Modified TO-15 SIM | 5.5 "Hg    | 2 psi    |
| 03A        | IA-DUP(022823) | Modified TO-15 SIM | 5.0 "Hg    | 2 psi    |
| 04A        | Lab Blank      | Modified TO-15 SIM | NA         | NA       |
| 05A        | CCV            | Modified TO-15 SIM | NA         | NA       |
| 06A        | LCS            | Modified TO-15 SIM | NA         | NA       |
| 06AA       | LCSD           | Modified TO-15 SIM | NA         | NA       |

CERTIFIED BY:

layes ero

03/16/23 DATE:

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E87680, LA NELAP - 02089, NH NELAP - 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-22-18, UT NELAP - CA009332022-14, VA NELAP - 12240, WA ELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

> This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC. 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

#### LABORATORY NARRATIVE Modified TO-15 SIM Arcadis U.S., Inc. Workorder# 2303169A

Three 6 Liter Summa Canister (100% SIM Ambient) samples were received on March 03, 2023. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

| Requirement                   | TO-15  | ATL Modifications   |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | =30% RSD with 2<br compounds allowed out<br>to < 40% RSD | Project specific; default criteria is =30% RSD with 10% of compounds allowed out to < 40% RSD</td   |
| Daily Calibration             | +- 30% Difference  | Project specific; default criteria is = 30% Difference<br with 10% of compounds allowed out up to =40%.; flag<br and narrate outliers   |
| Blank and standards           | Zero air   | Nitrogen  |
| Method Detection Limit        | Follow 40CFR Pt.136<br>App. B                            | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

### **Receiving Notes**

🛟 eurofins

There were no receiving discrepancies.

### **Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

The following qualifiers may have been used on the data analysis sheets and indicate as follows:

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

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN- See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified



b-File was quantified by a second column and detector r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: OA-1(022823)

Lab ID#: 2303169A-01A No Detections Were Found.

#### Client Sample ID: IA-04B(022823)

Lab ID#: 2303169A-02A No Detections Were Found.

#### Client Sample ID: IA-DUP(022823)

Lab ID#: 2303169A-03A No Detections Were Found.



# Client Sample ID: OA-1(022823) Lab ID#: 2303169A-01A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:<br>Dil. Factor: | 20031018sim<br>1.34  |                  | of Collection: 3/1<br>of Analysis: 3/10/ |                   |
|----------------------------|----------------------|------------------|--|-------------------|
| Compound                   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3)                    | Amount<br>(ug/m3) |
| Vinyl Chloride             | 0.013                | Not Detected     | 0.034                                    | Not Detected      |
| cis-1,2-Dichloroethene     | 0.027                | Not Detected     | 0.11                                     | Not Detected      |
| Trichloroethene            | 0.027                | Not Detected     | 0.14                                     | Not Detected      |
| trans-1,2-Dichloroethene   | 0.13                 | Not Detected     | 0.53                                     | Not Detected      |

Т

|                       | (         | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 104       | 70-130 |
| Toluene-d8            | 102       | 70-130 |
| 4-Bromofluorobenzene  | 95        | 70-130 |



### Client Sample ID: IA-04B(022823) Lab ID#: 2303169A-02A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:<br>Dil. Factor: | 20031019sim<br>1.39  |                  | Date of Collection: 3/1/23 3:29:00 PM<br>Date of Analysis: 3/10/23 10:25 PM |                   |
|----------------------------|----------------------|------------------|---|-------------------|
| Compound                   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3)   | Amount<br>(ug/m3) |
| Vinyl Chloride             | 0.014                | Not Detected     | 0.036   | Not Detected      |
| cis-1,2-Dichloroethene     | 0.028                | Not Detected     | 0.11  | Not Detected      |
| Trichloroethene            | 0.028                | Not Detected     | 0.15  | Not Detected      |
| trans-1,2-Dichloroethene   | 0.14                 | Not Detected     | 0.55  | Not Detected      |

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|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 100       | 70-130 |
| Toluene-d8            | 102       | 70-130 |
| 4-Bromofluorobenzene  | 94        | 70-130 |



# Client Sample ID: IA-DUP(022823) Lab ID#: 2303169A-03A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:               | 20031020sim          | Date of Collection: 3/1/23 |                       |                   |  |
|--------------------------|----------------------|----------------------------|-----------------------|-------------------|--|
| Dil. Factor:             | 1.36                 | Date                       | of Analysis: 3/10/    | 23 11:04 PM       |  |
| Compound                 | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv)           | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |  |
| Vinyl Chloride           | 0.014                | Not Detected               | 0.035                 | Not Detected      |  |
| cis-1,2-Dichloroethene   | 0.027                | Not Detected               | 0.11                  | Not Detected      |  |
| Trichloroethene          | 0.027                | Not Detected               | 0.15                  | Not Detected      |  |
| trans-1,2-Dichloroethene | 0.14                 | Not Detected               | 0.54                  | Not Detected      |  |

Т

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 100       | 70-130 |
| Toluene-d8            | 103       | 70-130 |
| 4-Bromofluorobenzene  | 97        | 70-130 |



# Client Sample ID: Lab Blank Lab ID#: 2303169A-04A MODIFIED EPA METHOD TO-15 GC/MS SIM

Т

| File Name:               | 20031006simc         | Date of Collection: NA |                       |                   |  |
|--------------------------|----------------------|------------------------|-----------------------|-------------------|--|
| Dil. Factor:             | 1.00                 | Date                   | of Analysis: 3/10/    | 23 12:25 PM       |  |
| Compound                 | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv)       | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |  |
| Vinyl Chloride           | 0.010                | Not Detected           | 0.026                 | Not Detected      |  |
| cis-1,2-Dichloroethene   | 0.020                | Not Detected           | 0.079                 | Not Detected      |  |
| Trichloroethene          | 0.020                | Not Detected           | 0.11                  | Not Detected      |  |
| trans-1,2-Dichloroethene | 0.10                 | Not Detected           | 0.40                  | Not Detected      |  |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 105       | 70-130 |
| Toluene-d8            | 100       | 70-130 |
| 4-Bromofluorobenzene  | 88        | 70-130 |



# Client Sample ID: CCV Lab ID#: 2303169A-05A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:               | 20031002sim | Date of Collection: NA             |
|--------------------------|-------------|------------------------------------|
| Dil. Factor:             | 1.00        | Date of Analysis: 3/10/23 08:47 AM |
| Compound                 |             | %Recovery                          |
| Vinyl Chloride           |             | 121                                |
| cis-1,2-Dichloroethene   |             | 116                                |
| Trichloroethene          |             | 99                                 |
| trans-1,2-Dichloroethene |             | 112                                |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 95        | 70-130 |
| Toluene-d8            | 104       | 70-130 |
| 4-Bromofluorobenzene  | 98        | 70-130 |



# Client Sample ID: LCS Lab ID#: 2303169A-06A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:<br>Dil. Factor: | 20031003sim<br>1.00 | Date of Collect<br>Date of Analys | is: 3/10/23 09:58 AM |
|----------------------------|---------------------|-----------------------------------|----------------------|
| Compound                   |                     | %Recovery                         | Method<br>Limits     |
| Vinyl Chloride             |                     | 122                               | 70-130               |
| cis-1,2-Dichloroethene     |                     | 117                               | 70-130               |
| Trichloroethene            |                     | 94                                | 70-130               |
| trans-1,2-Dichloroethene   |                     | 116                               | 70-130               |
|                            | nlicabla            | 116                               | 70                   |
| ntainer Type: NA - Not Ap  | рисаріе             |                                   | Method               |

| Surrogates            | %Recovery | Limits |
|-----------------------|-----------|--------|
| 1,2-Dichloroethane-d4 | 95        | 70-130 |
| Toluene-d8            | 103       | 70-130 |
| 4-Bromofluorobenzene  | 97        | 70-130 |



# Client Sample ID: LCSD Lab ID#: 2303169A-06AA MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:<br>Dil. Factor:  | 20031004sim<br>1.00 | Date of Collect<br>Date of Analys | ion: NA<br>is:  3/10/23 10:36 AM |
|-----------------------------|---------------------|-----------------------------------|----------------------------------|
| Compound                    |                     | %Recovery                         | Method<br>Limits                 |
| Vinyl Chloride              |                     | 121                               | 70-130                           |
| cis-1,2-Dichloroethene      |                     | 117                               | 70-130                           |
| Trichloroethene             |                     | 93                                | 70-130                           |
| trans-1,2-Dichloroethene    |                     | 116                               | 70-130                           |
| Container Type: NA - Not Ap | plicable            |                                   |                                  |
|                             |                     |                                   | Method                           |
| Surrogates                  |                     | %Recovery                         | Limits                           |

| /01\CCOVC1 y | Ellinto   |
|--------------|-----------|
| 94           | 70-130    |
| 102          | 70-130    |
| 98           | 70-130    |
|              | 94<br>102 |



### **Analytical Report**

3/16/2023 Amir Roghani Arcadis U.S., Inc. 2464 Fortune Drive #170

Lexington KY 40509

Project Name: 3M-Wausau Project #: Workorder #: 2303169B

Dear Amir Roghani

The following report includes the data for the above referenced project for sample(s) received on 3/3/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Brian Whittaker Project Manager

180 Blue Ravine Road, Suite B Folsom, CA 95630



#### WORK ORDER #: 2303169B

#### Work Order Summary

| CLIENT:                           | Amir Roghani<br>Arcadis U.S., Inc.<br>2464 Fortune Drive #170<br>Lexington, KY 40509 | BILL TO:      | Accounts Payable<br>Arcadis U.S., Inc.<br>630 Plaza Drive<br>Suite 600<br>Highlands Ranch, CO 80129 |
|-----------------------------------|--|---------------|---|
| PHONE:                            | 859-253-9036   | <b>P.O.</b> # | 30130403  |
| FAX:                              | (859) 253-9136   | PROJECT #     | 3M-Wausau   |
| DATE RECEIVED:<br>DATE COMPLETED: | 03/03/2023<br>03/16/2023   | CONTACT:      | Brian Whittaker   |

|            |               |       | RECEIPT    | FINAL    |
|------------|---------------|-------|------------|----------|
| FRACTION # | NAME          | TEST  | VAC./PRES. | PRESSURE |
| 04A        | SS-04(030123) | TO-15 | 5.7 "Hg    | 9.9 psi  |
| 05A        | Lab Blank     | TO-15 | NA         | NA       |
| 06A        | CCV           | TO-15 | NA         | NA       |
| 07A        | LCS           | TO-15 | NA         | NA       |
| 07AA       | LCSD          | TO-15 | NA         | NA       |

CERTIFIED BY:

Layes

DATE: 03/16/23

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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### LABORATORY NARRATIVE EPA Method TO-15 Arcadis U.S., Inc. Workorder# 2303169B

One 1 Liter Summa Canister sample was received on March 03, 2023. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

### **Receiving Notes**

There were no receiving discrepancies.

### **Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

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

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

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: SS-04(030123)

Lab ID#: 2303169B-04A No Detections Were Found.



# Client Sample ID: SS-04(030123) Lab ID#: 2303169B-04A EPA METHOD TO-15 GC/MS

T

| File Name:<br>Dil. Factor: | a031416<br>2.07                    |              | of Collection: 3/1<br>of Analysis: 3/14/ |              |
|----------------------------|------------------------------------|--------------|--|--------------|
| Compound                   | Rpt. Limit Amount<br>(ppbv) (ppbv) |              | Rpt. Limit Amo<br>(ug/m3) (ug/           |              |
| Vinyl Chloride             | 1.0                                | Not Detected | 2.6                                      | Not Detected |
| cis-1,2-Dichloroethene     | 1.0                                | Not Detected | 4.1                                      | Not Detected |
| Trichloroethene            | 1.0                                | Not Detected | 5.6                                      | Not Detected |
| trans-1,2-Dichloroethene   | 1.0                                | Not Detected | 4.1                                      | Not Detected |

#### Container Type: 1 Liter Summa Canister

|                       |           | Method |  |
|-----------------------|-----------|--------|--|
| Surrogates            | %Recovery | Limits |  |
| 1,2-Dichloroethane-d4 | 99        | 70-130 |  |
| Toluene-d8            | 96        | 70-130 |  |
| 4-Bromofluorobenzene  | 99        | 70-130 |  |



# Client Sample ID: Lab Blank Lab ID#: 2303169B-05A EPA METHOD TO-15 GC/MS

Т

| File Name:<br>Dil. Factor: | a031406f<br>1.00     |                  | of Collection: NA of Analysis: 3/14/ | 23 02:40 PM  |
|----------------------------|----------------------|------------------|--------------------------------------|--------------|
| Compound                   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit Amou<br>(ug/m3) (ug/m3    |              |
| Vinyl Chloride             | 0.50                 | Not Detected     | 1.3                                  | Not Detected |
| cis-1,2-Dichloroethene     | 0.50                 | Not Detected     | 2.0                                  | Not Detected |
| Trichloroethene            | 0.50                 | Not Detected     | 2.7                                  | Not Detected |
| trans-1,2-Dichloroethene   | 0.50                 | Not Detected     | 2.0                                  | Not Detected |

#### Container Type: NA - Not Applicable

| <i></i>               |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 97        | 70-130 |
| Toluene-d8            | 95        | 70-130 |
| 4-Bromofluorobenzene  | 98        | 70-130 |



# **Client Sample ID: CCV** Lab ID#: 2303169B-06A EPA METHOD TO-15 GC/MS

| File Name:               |  |           |
|--------------------------|--|-----------|
| Dil. Factor:             |  |           |
| Compound                 |  | %Recovery |
| Vinyl Chloride           |  | 102       |
| cis-1,2-Dichloroethene   |  | 98        |
| Trichloroethene          |  | 100       |
| trans-1,2-Dichloroethene |  | 101       |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 97        | 70-130 |
| Toluene-d8            | 96        | 70-130 |
| 4-Bromofluorobenzene  | 102       | 70-130 |



# Client Sample ID: LCS Lab ID#: 2303169B-07A EPA METHOD TO-15 GC/MS

T

| File Name:<br>Dil. Factor: | a031403<br>1.00 | Date of Collec<br>Date of Analys | tion: NA<br>sis:  3/14/23 12:54 PM |
|----------------------------|-----------------|----------------------------------|------------------------------------|
| Compound                   |                 | %Recovery                        | Method<br>Limits                   |
| Vinyl Chloride             |                 | 109                              | 70-130                             |
| cis-1,2-Dichloroethene     |                 | 96                               | 70-130                             |
| Trichloroethene            |                 | 100                              | 70-130                             |
| trans-1,2-Dichloroethene   |                 | 103                              | 70-130                             |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 93        | 70-130 |
| Toluene-d8            | 94        | 70-130 |
| 4-Bromofluorobenzene  | 102       | 70-130 |



# Client Sample ID: LCSD Lab ID#: 2303169B-07AA EPA METHOD TO-15 GC/MS

Т

| Dil. Factor:             | a031404<br>1.00 |           | Date of Collection: NA<br>Date of Analysis: 3/14/23 01:19 PM |  |
|--------------------------|-----------------|-----------|--|--|
| Compound                 |                 | %Recovery | Method<br>Limits   |  |
| Vinyl Chloride           |                 | 108       | 70-130   |  |
| cis-1,2-Dichloroethene   |                 | 98        | 70-130   |  |
| Trichloroethene          |                 | 99        | 70-130   |  |
| trans-1,2-Dichloroethene |                 | 103       | 70-130   |  |

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 94        | 70-130 |
| Toluene-d8            | 94        | 70-130 |
| 4-Bromofluorobenzene  | 100       | 70-130 |



### **Analytical Report**

3/16/2023 Amir Roghani Arcadis U.S., Inc. 2464 Fortune Drive #170

Lexington KY 40509

Project Name: 3M-Wausau Project #: Workorder #: 2303169A

Dear Amir Roghani

The following report includes the data for the above referenced project for sample(s) received on 3/3/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Brian Whittaker Project Manager

180 Blue Ravine Road, Suite B Folsom, CA 95630



#### WORK ORDER #: 2303169A

#### Work Order Summary

| CLIENT:                           | Amir Roghani<br>Arcadis U.S., Inc.<br>2464 Fortune Drive #170<br>Lexington, KY 40509 | BILL TO:      | Accounts Payable<br>Arcadis U.S., Inc.<br>630 Plaza Drive<br>Suite 600<br>Highlands Ranch, CO 80129 |
|-----------------------------------|--|---------------|---|
| PHONE:                            | 859-253-9036   | <b>P.O.</b> # | 30130403  |
| FAX:                              | (859) 253-9136   | PROJECT #     | 3M-Wausau   |
| DATE RECEIVED:<br>DATE COMPLETED: | 03/03/2023<br>03/16/2023   | CONTACT:      | Brian Whittaker   |

|            |                |                    | RECEIPT    | FINAL    |
|------------|----------------|--------------------|------------|----------|
| FRACTION # | NAME           | <u>TEST</u>        | VAC./PRES. | PRESSURE |
| 01A        | OA-1(022823)   | Modified TO-15 SIM | 4.5 "Hg    | 2 psi    |
| 02A        | IA-04B(022823) | Modified TO-15 SIM | 5.5 "Hg    | 2 psi    |
| 03A        | IA-DUP(022823) | Modified TO-15 SIM | 5.0 "Hg    | 2 psi    |
| 04A        | Lab Blank      | Modified TO-15 SIM | NA         | NA       |
| 05A        | CCV            | Modified TO-15 SIM | NA         | NA       |
| 06A        | LCS            | Modified TO-15 SIM | NA         | NA       |
| 06AA       | LCSD           | Modified TO-15 SIM | NA         | NA       |

CERTIFIED BY:

layes ero

03/16/23 DATE:

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E87680, LA NELAP - 02089, NH NELAP - 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-22-18, UT NELAP - CA009332022-14, VA NELAP - 12240, WA ELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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#### LABORATORY NARRATIVE Modified TO-15 SIM Arcadis U.S., Inc. Workorder# 2303169A

Three 6 Liter Summa Canister (100% SIM Ambient) samples were received on March 03, 2023. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

| Requirement                   | TO-15  | ATL Modifications   |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | =30% RSD with 2<br compounds allowed out<br>to < 40% RSD | Project specific; default criteria is =30% RSD with 10% of compounds allowed out to < 40% RSD</td   |
| Daily Calibration             | +- 30% Difference  | Project specific; default criteria is = 30% Difference<br with 10% of compounds allowed out up to =40%.; flag<br and narrate outliers   |
| Blank and standards           | Zero air   | Nitrogen  |
| Method Detection Limit        | Follow 40CFR Pt.136<br>App. B                            | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

### **Receiving Notes**

🛟 eurofins

There were no receiving discrepancies.

### **Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

The following qualifiers may have been used on the data analysis sheets and indicate as follows:

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

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN- See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified



b-File was quantified by a second column and detector r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: OA-1(022823)

Lab ID#: 2303169A-01A No Detections Were Found.

#### Client Sample ID: IA-04B(022823)

Lab ID#: 2303169A-02A No Detections Were Found.

#### Client Sample ID: IA-DUP(022823)

Lab ID#: 2303169A-03A No Detections Were Found.



# Client Sample ID: OA-1(022823) Lab ID#: 2303169A-01A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name: 20031018sim<br>Dil. Factor: 1.34 |                      | Date of Collection: 3/1/23 2:20:00 PM<br>Date of Analysis: 3/10/23 09:44 PM |                       |                   |
|---|----------------------|---|-----------------------|-------------------|
| Compound                                    | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv)  | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
| Vinyl Chloride                              | 0.013                | Not Detected  | 0.034                 | Not Detected      |
| cis-1,2-Dichloroethene                      | 0.027                | Not Detected  | 0.11                  | Not Detected      |
| Trichloroethene                             | 0.027                | Not Detected  | 0.14                  | Not Detected      |
| trans-1,2-Dichloroethene                    | 0.13                 | Not Detected  | 0.53                  | Not Detected      |

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|                       | Method    |        |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 104       | 70-130 |
| Toluene-d8            | 102       | 70-130 |
| 4-Bromofluorobenzene  | 95        | 70-130 |



### Client Sample ID: IA-04B(022823) Lab ID#: 2303169A-02A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:<br>Dil. Factor: | 20031019sim<br>1.39  |                  | Date of Collection: 3/1/23 3:29:00 PM<br>Date of Analysis: 3/10/23 10:25 PM |                   |
|----------------------------|----------------------|------------------|---|-------------------|
| Compound                   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3)   | Amount<br>(ug/m3) |
| Vinyl Chloride             | 0.014                | Not Detected     | 0.036   | Not Detected      |
| cis-1,2-Dichloroethene     | 0.028                | Not Detected     | 0.11  | Not Detected      |
| Trichloroethene            | 0.028                | Not Detected     | 0.15  | Not Detected      |
| trans-1,2-Dichloroethene   | 0.14                 | Not Detected     | 0.55  | Not Detected      |

T

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 100       | 70-130 |
| Toluene-d8            | 102       | 70-130 |
| 4-Bromofluorobenzene  | 94        | 70-130 |



# Client Sample ID: IA-DUP(022823) Lab ID#: 2303169A-03A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name: 20031020sim   |                      | Date of Collection: 3/1/23         |                       |                   |
|--------------------------|----------------------|------------------------------------|-----------------------|-------------------|
| Dil. Factor:             | 1.36                 | Date of Analysis: 3/10/23 11:04 PM |                       |                   |
| Compound                 | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv)                   | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
| Vinyl Chloride           | 0.014                | Not Detected                       | 0.035                 | Not Detected      |
| cis-1,2-Dichloroethene   | 0.027                | Not Detected                       | 0.11                  | Not Detected      |
| Trichloroethene          | 0.027                | Not Detected                       | 0.15                  | Not Detected      |
| trans-1,2-Dichloroethene | 0.14                 | Not Detected                       | 0.54                  | Not Detected      |

Т

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 100       | 70-130 |
| Toluene-d8            | 103       | 70-130 |
| 4-Bromofluorobenzene  | 97        | 70-130 |



# Client Sample ID: Lab Blank Lab ID#: 2303169A-04A MODIFIED EPA METHOD TO-15 GC/MS SIM

Т

| File Name: 20031006simc  |                      | Date of Collection: NA             |                       |                   |
|--------------------------|----------------------|------------------------------------|-----------------------|-------------------|
| Dil. Factor:             | 1.00                 | Date of Analysis: 3/10/23 12:25 PM |                       |                   |
| Compound                 | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv)                   | Rpt. Limit<br>(ug/m3) | Amount<br>(ug/m3) |
| Vinyl Chloride           | 0.010                | Not Detected                       | 0.026                 | Not Detected      |
| cis-1,2-Dichloroethene   | 0.020                | Not Detected                       | 0.079                 | Not Detected      |
| Trichloroethene          | 0.020                | Not Detected                       | 0.11                  | Not Detected      |
| trans-1,2-Dichloroethene | 0.10                 | Not Detected                       | 0.40                  | Not Detected      |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 105       | 70-130 |
| Toluene-d8            | 100       | 70-130 |
| 4-Bromofluorobenzene  | 88        | 70-130 |



# Client Sample ID: CCV Lab ID#: 2303169A-05A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:               | 20031002sim | Date of Collection: NA             |
|--------------------------|-------------|------------------------------------|
| Dil. Factor: 1.00        |             | Date of Analysis: 3/10/23 08:47 AM |
| Compound                 |             | %Recovery                          |
| Vinyl Chloride           |             | 121                                |
| cis-1,2-Dichloroethene   |             | 116                                |
| Trichloroethene          |             | 99                                 |
| trans-1,2-Dichloroethene |             | 112                                |

#### Container Type: NA - Not Applicable

|                       |           | Method |  |
|-----------------------|-----------|--------|--|
| Surrogates            | %Recovery | Limits |  |
| 1,2-Dichloroethane-d4 | 95        | 70-130 |  |
| Toluene-d8            | 104       | 70-130 |  |
| 4-Bromofluorobenzene  | 98        | 70-130 |  |



# Client Sample ID: LCS Lab ID#: 2303169A-06A MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:<br>Dil. Factor: | 20031003sim<br>1.00 | Date of Collection: NA<br>Date of Analysis: 3/10/23 09:58 AM |        |
|----------------------------|---------------------|--|--------|
| Compound                   |                     | %Recovery  |        |
| Vinyl Chloride             |                     | 122  | 70-130 |
| cis-1,2-Dichloroethene     |                     | 117  | 70-130 |
| Trichloroethene            |                     | 94   | 70-130 |
| trans-1,2-Dichloroethene   |                     | 116  | 70-130 |
|                            | nlicabla            | 116  | 70     |
| ntainer Type: NA - Not Ap  | рисаріе             |  | Method |

| Surrogates            | %Recovery | Limits |
|-----------------------|-----------|--------|
| 1,2-Dichloroethane-d4 | 95        | 70-130 |
| Toluene-d8            | 103       | 70-130 |
| 4-Bromofluorobenzene  | 97        | 70-130 |



# Client Sample ID: LCSD Lab ID#: 2303169A-06AA MODIFIED EPA METHOD TO-15 GC/MS SIM

| File Name:<br>Dil. Factor:  | 20031004sim<br>1.00 | Date of Collection: NA<br>Date of Analysis: 3/10/23 10:36 AM |                  |
|-----------------------------|---------------------|--|------------------|
| Compound                    |                     | %Recovery  | Method<br>Limits |
| Vinyl Chloride              |                     | 121  | 70-130           |
| cis-1,2-Dichloroethene      |                     | 117  | 70-130           |
| Trichloroethene             |                     | 93   | 70-130           |
| trans-1,2-Dichloroethene    |                     | 116  | 70-130           |
| Container Type: NA - Not Ap | plicable            |  |                  |
|                             |                     |  | Method           |
| Surrogates                  |                     | %Recovery  | Limits           |

| /01\CCOVC1 y | Ellinto   |
|--------------|-----------|
| 94           | 70-130    |
| 102          | 70-130    |
| 98           | 70-130    |
|              | 94<br>102 |



### **Analytical Report**

3/16/2023 Amir Roghani Arcadis U.S., Inc. 2464 Fortune Drive #170

Lexington KY 40509

Project Name: 3M-Wausau Project #: Workorder #: 2303169B

Dear Amir Roghani

The following report includes the data for the above referenced project for sample(s) received on 3/3/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Brian Whittaker Project Manager

180 Blue Ravine Road, Suite B Folsom, CA 95630



#### WORK ORDER #: 2303169B

#### Work Order Summary

| CLIENT:                           | Amir Roghani<br>Arcadis U.S., Inc.<br>2464 Fortune Drive #170<br>Lexington, KY 40509 | BILL TO:      | Accounts Payable<br>Arcadis U.S., Inc.<br>630 Plaza Drive<br>Suite 600<br>Highlands Ranch, CO 80129 |
|-----------------------------------|--|---------------|---|
| PHONE:                            | 859-253-9036   | <b>P.O.</b> # | 30130403  |
| FAX:                              | (859) 253-9136   | PROJECT #     | 3M-Wausau   |
| DATE RECEIVED:<br>DATE COMPLETED: | 03/03/2023<br>03/16/2023   | CONTACT:      | Brian Whittaker   |

|            |               |       | RECEIPT    | FINAL           |
|------------|---------------|-------|------------|-----------------|
| FRACTION # | NAME          | TEST  | VAC./PRES. | <b>PRESSURE</b> |
| 04A        | SS-04(030123) | TO-15 | 5.7 "Hg    | 9.9 psi         |
| 05A        | Lab Blank     | TO-15 | NA         | NA              |
| 06A        | CCV           | TO-15 | NA         | NA              |
| 07A        | LCS           | TO-15 | NA         | NA              |
| 07AA       | LCSD          | TO-15 | NA         | NA              |

CERTIFIED BY:

Layes

DATE: 03/16/23

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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### LABORATORY NARRATIVE EPA Method TO-15 Arcadis U.S., Inc. Workorder# 2303169B

One 1 Liter Summa Canister sample was received on March 03, 2023. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

### **Receiving Notes**

There were no receiving discrepancies.

### **Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

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

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

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: SS-04(030123)

Lab ID#: 2303169B-04A No Detections Were Found.



# Client Sample ID: SS-04(030123) Lab ID#: 2303169B-04A EPA METHOD TO-15 GC/MS

T

| File Name:<br>Dil. Factor: | a031416<br>2.07      |                  | of Collection: 3/1<br>of Analysis: 3/14/ |                   |
|----------------------------|----------------------|------------------|--|-------------------|
| Compound                   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3)                    | Amount<br>(ug/m3) |
| Vinyl Chloride             | 1.0                  | Not Detected     | 2.6                                      | Not Detected      |
| cis-1,2-Dichloroethene     | 1.0                  | Not Detected     | 4.1                                      | Not Detected      |
| Trichloroethene            | 1.0                  | Not Detected     | 5.6                                      | Not Detected      |
| trans-1,2-Dichloroethene   | 1.0                  | Not Detected     | 4.1                                      | Not Detected      |

#### Container Type: 1 Liter Summa Canister

| Surrogates            | %Recovery   | Method<br>Limits |
|-----------------------|-------------|------------------|
| Sullogales            | /aitecovery | Lilling          |
| 1,2-Dichloroethane-d4 | 99          | 70-130           |
| Toluene-d8            | 96          | 70-130           |
| 4-Bromofluorobenzene  | 99          | 70-130           |



### Client Sample ID: Lab Blank Lab ID#: 2303169B-05A EPA METHOD TO-15 GC/MS

Т

| File Name:<br>Dil. Factor: | a031406f<br>1.00     |                  | of Collection: NA of Analysis: 3/14/ | 23 02:40 PM       |
|----------------------------|----------------------|------------------|--------------------------------------|-------------------|
| Compound                   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(ug/m3)                | Amount<br>(ug/m3) |
| Vinyl Chloride             | 0.50                 | Not Detected     | 1.3                                  | Not Detected      |
| cis-1,2-Dichloroethene     | 0.50                 | Not Detected     | 2.0                                  | Not Detected      |
| Trichloroethene            | 0.50                 | Not Detected     | 2.7                                  | Not Detected      |
| trans-1,2-Dichloroethene   | 0.50                 | Not Detected     | 2.0                                  | Not Detected      |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 97        | 70-130 |
| Toluene-d8            | 95        | 70-130 |
| 4-Bromofluorobenzene  | 98        | 70-130 |



# **Client Sample ID: CCV** Lab ID#: 2303169B-06A EPA METHOD TO-15 GC/MS

| File Name:               | a031402                             | Date of Collection: NA |
|--------------------------|-------------------------------------|------------------------|
| Dil. Factor:             | 1.00 Date of Analysis: 3/14/23 12:2 |                        |
| Compound                 |                                     | %Recovery              |
| Vinyl Chloride           |                                     | 102                    |
| cis-1,2-Dichloroethene   |                                     | 98                     |
| Trichloroethene          |                                     | 100                    |
| trans-1,2-Dichloroethene |                                     | 101                    |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 97        | 70-130 |
| Toluene-d8            | 96        | 70-130 |
| 4-Bromofluorobenzene  | 102       | 70-130 |



# Client Sample ID: LCS Lab ID#: 2303169B-07A EPA METHOD TO-15 GC/MS

T

| File Name:<br>Dil. Factor: | a031403<br>1.00 | Date of Collec<br>Date of Analys | tion: NA<br>sis:  3/14/23 12:54 PM |
|----------------------------|-----------------|----------------------------------|------------------------------------|
| Compound                   |                 | %Recovery                        | Method<br>Limits                   |
| Vinyl Chloride             |                 | 109                              | 70-130                             |
| cis-1,2-Dichloroethene     |                 | 96                               | 70-130                             |
| Trichloroethene            |                 | 100                              | 70-130                             |
| trans-1,2-Dichloroethene   |                 | 103                              | 70-130                             |

#### Container Type: NA - Not Applicable

|                       |           | Method |
|-----------------------|-----------|--------|
| Surrogates            | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 93        | 70-130 |
| Toluene-d8            | 94        | 70-130 |
| 4-Bromofluorobenzene  | 102       | 70-130 |



# Client Sample ID: LCSD Lab ID#: 2303169B-07AA EPA METHOD TO-15 GC/MS

Т

| Dil. Factor:             | a031404<br>1.00 | Date of Collect<br>Date of Analys | is: 3/14/23 01:19 PM |
|--------------------------|-----------------|-----------------------------------|----------------------|
| Compound                 |                 | %Recovery                         | Method<br>Limits     |
| Vinyl Chloride           |                 | 108                               | 70-130               |
| cis-1,2-Dichloroethene   |                 | 98                                | 70-130               |
| Trichloroethene          |                 | 99                                | 70-130               |
| trans-1,2-Dichloroethene |                 | 103                               | 70-130               |

|                       |           | Method |  |
|-----------------------|-----------|--------|--|
| Surrogates            | %Recovery | Limits |  |
| 1,2-Dichloroethane-d4 | 94        | 70-130 |  |
| Toluene-d8            | 94        | 70-130 |  |
| 4-Bromofluorobenzene  | 100       | 70-130 |  |