

**Environment Testing** 

# **ANALYTICAL REPORT**

### PREPARED FOR

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### JOB DESCRIPTION

Ford LTP - Off Site

### **JOB NUMBER**

240-180965-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203





### **Eurofins Canton**

### Job Notes

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#### Authorization

Your

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Generated 3/3/2023 5:09:57 AM

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| Qualifiers             |   | 3  |
|------------------------|---|----|
| GC/MS VOA<br>Qualifier | Qualifier Description   | Δ  |
| U                      | Indicates the analyte was analyzed for but not detected.  |    |
| Glossary               |   | 5  |
| Abbreviation           | These commonly used abbreviations may or may not be present in this report.                                 |    |
| ¤                      | 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   | 0  |
| CNF                    | Contains No Free Liquid   | Ο  |
| DER                    | Duplicate Error Ratio (normalized absolute difference)  |    |
| Dil Fac                | Dilution Factor   | 9  |
| 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)  | 13 |
| 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: 240-180965-1

#### Laboratory: Eurofins Canton

#### Narrative

Job Narrative 240-180965-1

#### Receipt

The samples were received on 2/25/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4°C and 0.6°C

#### GC/MS VOA

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

#### Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

| Method    | Method Description                  | Protocol | Laboratory |
|-----------|-------------------------------------|----------|------------|
| 8260D     | Volatile Organic Compounds by GC/MS | SW846    | EET CAN    |
| 8260D SIM | Volatile Organic Compounds (GC/MS)  | SW846    | EET CAN    |
| 5030C     | Purge and Trap                      | SW846    | EET CAN    |

#### Protocol References:

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

#### Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

### Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-180965-1  | TRIP BLANK_155   | Water  | 02/22/23 00:00 | 02/25/23 08:00 |
| 240-180965-2  | MW-123S_022223   | Water  | 02/22/23 12:20 | 02/25/23 08:00 |

#### **Detection Summary**

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

#### Client Sample ID: TRIP BLANK\_155

#### No Detections.

| Client Sample ID: MW-123S_022223 Lab Sample ID: 2 |        |           |     |      |      |         |   | 240-180965-2 |           |
|---|--------|-----------|-----|------|------|---------|---|--------------|-----------|
| Analyte   | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method       | Prep Type |
| Vinyl chloride                                    | 2.2    |           | 1.0 | 0.45 | ug/L | 1       | _ | 8260D        | Total/NA  |

Job ID: 240-180965-1

Lab Sample ID: 240-180965-1

#### Client Sample ID: TRIP BLANK\_155

Date Collected: 02/22/23 00:00 Date Received: 02/25/23 08:00

|                              | ile Organic Comp | ounds by G | C/MS     |      |      |   |          |                |         |
|------------------------------|------------------|------------|----------|------|------|---|----------|----------------|---------|
| Analyte                      | Result           | Qualifier  | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,1-Dichloroethene           | 1.0              | U          | 1.0      | 0.49 | ug/L |   |          | 03/01/23 14:27 | 1       |
| cis-1,2-Dichloroethene       | 1.0              | U          | 1.0      | 0.46 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Tetrachloroethene            | 1.0              | U          | 1.0      | 0.44 | ug/L |   |          | 03/01/23 14:27 | 1       |
| trans-1,2-Dichloroethene     | 1.0              | U          | 1.0      | 0.51 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Trichloroethene              | 1.0              | U          | 1.0      | 0.44 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Vinyl chloride               | 1.0              | U          | 1.0      | 0.45 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Surrogate                    | %Recovery        | Qualifier  | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 84               |            | 62 - 137 |      |      | - |          | 03/01/23 14:27 | 1       |
| 4-Bromofluorobenzene (Surr)  | 78               |            | 56 - 136 |      |      |   |          | 03/01/23 14:27 | 1       |
| Toluene-d8 (Surr)            | 85               |            | 78 - 122 |      |      |   |          | 03/01/23 14:27 | 1       |
| Dibromofluoromethane (Surr)  | 85               |            | 73 - 120 |      |      |   |          | 03/01/23 14:27 | 1       |

Job ID: 240-180965-1

Matrix: Water

Lab Sample ID: 240-180965-1

#### Client Sample ID: MW-123S\_022223

Date Collected: 02/22/23 12:20 Date Received: 02/25/23 08:00

| Analyte                      | Result          | Qualifier  | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane                  | 2.0             | U          | 2.0      | 0.86 | ug/L |   |          | 03/01/23 17:17 | 1       |
| Surrogate                    | %Recovery       | Qualifier  | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 82              |            | 66 - 120 |      |      | - |          | 03/01/23 17:17 | 1       |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS     |      |      |   |          |                |         |
| Analyte                      | Result          | Qualifier  | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,1-Dichloroethene           | 1.0             | U          | 1.0      | 0.49 | ug/L |   |          | 03/01/23 20:33 | 1       |
| cis-1,2-Dichloroethene       | 1.0             | U          | 1.0      | 0.46 | ug/L |   |          | 03/01/23 20:33 | 1       |
| Tetrachloroethene            | 1.0             | U          | 1.0      | 0.44 | ug/L |   |          | 03/01/23 20:33 | 1       |
| trans-1,2-Dichloroethene     | 1.0             | U          | 1.0      | 0.51 | ug/L |   |          | 03/01/23 20:33 | 1       |
| Trichloroethene              | 1.0             | U          | 1.0      | 0.44 | ug/L |   |          | 03/01/23 20:33 | 1       |
| Vinyl chloride               | 2.2             |            | 1.0      | 0.45 | ug/L |   |          | 03/01/23 20:33 | 1       |
| Surrogate                    | %Recovery       | Qualifier  | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108             |            | 62 - 137 |      |      | - |          | 03/01/23 20:33 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87              |            | 56 - 136 |      |      |   |          | 03/01/23 20:33 | 1       |
| Toluene-d8 (Surr)            | 91              |            | 78 - 122 |      |      |   |          | 03/01/23 20:33 | 1       |
| Dibromofluoromethane (Surr)  | 97              |            | 73 - 120 |      |      |   |          | 03/01/23 20:33 | 1       |

3/3/2023

Job ID: 240-180965-1

#### Lab Sample ID: 240-180965-2 Matrix: Water

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

#### Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Client Sample ID (62-137) (56-136) (78-122) (73-120) Lab Sample ID 240-180795-A-7 MS Matrix Spike 87 89 84 89 240-180795-A-7 MSD Matrix Spike Duplicate 84 84 87 88 240-180965-1 TRIP BLANK\_155 84 78 85 85 MW-123S\_022223 97 240-180965-2 108 87 91 240-180985-F-8 MS Matrix Spike 106 91 93 98 240-180985-I-8 MSD Matrix Spike Duplicate 104 90 93 98 LCS 240-563877/5 Lab Control Sample 81 81 84 88 LCS 240-563897/5 Lab Control Sample 93 92 99 110 MB 240-563877/8 Method Blank 85 80 85 87 MB 240-563897/8 Method Blank 108 87 90 97 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

#### Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

#### Matrix: Water

| Matrix: Water      |                        |          | Prep Type: Total/NA                            |
|--------------------|------------------------|----------|--|
|                    |                        |          | Percent Surrogate Recovery (Acceptance Limits) |
|                    |                        | DCA      |  |
| Lab Sample ID      | Client Sample ID       | (66-120) |  |
| 240-180965-2       | MW-123S_022223         | 82       |  |
| 240-180977-E-2 MS  | Matrix Spike           | 84       |  |
| 240-180977-K-2 MSD | Matrix Spike Duplicate | 83       |  |
| LCS 240-563886/4   | Lab Control Sample     | 87       |  |
| MB 240-563886/6    | Method Blank           | 95       |  |

#### Surrogate Legend

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

Prep Type: Total/NA

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

|                          | MB     | МВ        |     |      |      |   |          |                |         |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,1-Dichloroethene       | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/01/23 13:37 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/01/23 13:37 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/01/23 13:37 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/01/23 13:37 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/01/23 13:37 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/01/23 13:37 | 1       |
|                          |        |           |     |      |      |   |          |                |         |

|                              | МВ        | МВ        |          |   |         |                |         |
|------------------------------|-----------|-----------|----------|---|---------|----------------|---------|
| Surrogate                    | %Recovery | Qualifier | Limits   | P | repared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 62 - 137 |   |         | 03/01/23 13:37 | 1       |
| 4-Bromofluorobenzene (Surr)  | 80        |           | 56 - 136 |   |         | 03/01/23 13:37 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 78 - 122 |   |         | 03/01/23 13:37 | 1       |
| Dibromofluoromethane (Surr)  | 87        |           | 73 - 120 |   |         | 03/01/23 13:37 | 1       |

#### Lab Sample ID: LCS 240-563877/5 Matrix: Water Analysis Batch: 563877

|                          | Spike | LCS    | LCS       |      |   |      | %Rec     |  |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte                  | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| 1,1-Dichloroethene       | 25.0  | 25.2   |           | ug/L |   | 101  | 63 - 134 |  |
| cis-1,2-Dichloroethene   | 25.0  | 25.4   |           | ug/L |   | 102  | 77 - 123 |  |
| Tetrachloroethene        | 25.0  | 25.8   |           | ug/L |   | 103  | 76 - 123 |  |
| trans-1,2-Dichloroethene | 25.0  | 24.8   |           | ug/L |   | 99   | 75 - 124 |  |
| Trichloroethene          | 25.0  | 24.1   |           | ug/L |   | 96   | 70 - 122 |  |
| Vinyl chloride           | 12.5  | 12.2   |           | ug/L |   | 98   | 60 - 144 |  |

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 56 - 136 |
| Toluene-d8 (Surr)            | 84        |           | 78 - 122 |
| Dibromofluoromethane (Surr)  | 88        |           | 73 - 120 |

Sample Sample

#### Lab Sample ID: 240-180795-A-7 MS Matrix: Water

# Analysis Batch: 563877

| Analyte                      | Result    | Qualifier | Added    | Result | Qualifier | Unit | D | %Rec | Limits   |
|------------------------------|-----------|-----------|----------|--------|-----------|------|---|------|----------|
| 1,1-Dichloroethene           | 40        | U         | 1000     | 1020   |           | ug/L |   | 102  | 56 - 135 |
| cis-1,2-Dichloroethene       | 1300      |           | 1000     | 2410   |           | ug/L |   | 108  | 66 - 128 |
| Tetrachloroethene            | 40        | U         | 1000     | 991    |           | ug/L |   | 99   | 62 - 131 |
| trans-1,2-Dichloroethene     | 180       |           | 1000     | 1170   |           | ug/L |   | 100  | 56 - 136 |
| Trichloroethene              | 380       |           | 1000     | 1370   |           | ug/L |   | 99   | 61 - 124 |
| Vinyl chloride               | 40        | U         | 500      | 465    |           | ug/L |   | 93   | 43 - 157 |
|                              | MS        | MS        |          |        |           |      |   |      |          |
| Surrogate                    | %Recovery | Qualifier | Limits   |        |           |      |   |      |          |
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 62 - 137 |        |           |      |   |      |          |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 56 - 136 |        |           |      |   |      |          |
| Toluene-d8 (Surr)            | 89        |           | 78 - 122 |        |           |      |   |      |          |

MS MS

Spike

#### Client Sample ID: Method Blank Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Matrix Spike** 

%Rec

Prep Type: Total/NA

Prep Type: Total/NA

**Eurofins Canton** 

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

| Lab Sample ID: 240-180795-/<br>Matrix: Water<br>Analysis Batch: 563877 | A-7 MS      |         |           |          |        |      |      |      |              |      | Client   | Sample ID<br>Prep 1 | : Matrix<br>Type: To                    | -       |
|--|-------------|---------|-----------|----------|--------|------|------|------|--------------|------|----------|---------------------|---|---------|
|  | MS M        | мs      |           |          |        |      |      |      |              |      |          |                     |   |         |
| Surrogate  | %Recovery ( | Qualifi | ier       | Limits   |        |      |      |      |              |      |          |                     |   |         |
| Dibromofluoromethane (Surr)  | 89          |         |           | 73 - 120 |        |      |      |      |              |      |          |                     |   |         |
| _<br>Lab Sample ID: 240-180795-/                                       | A-7 MSD     |         |           |          |        |      |      |      | Clien        | t Sa | ample ID | : Matrix Sp         | oike Du                                 | plicate |
| Matrix: Water  |             |         |           |          |        |      |      |      |              |      |          |                     | ype: To                                 |         |
| Analysis Batch: 563877   |             |         |           |          |        |      |      |      |              |      |          |                     | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |         |
| ·  | Sample S    | Sampl   | е         | Spike    | MSD    | MSD  | )    |      |              |      |          | %Rec                |   | RPD     |
| Analyte  | Result 0    | •       |           | Added    | Result |      |      | Unit |              | D    | %Rec     | Limits              | RPD                                     | Limit   |
| 1,1-Dichloroethene   | 40          |         |           | 1000     | 1010   |      |      | ug/L |              | _    | 101      | 56 - 135            | 2                                       | 26      |
| cis-1,2-Dichloroethene   | 1300        |         |           | 1000     | 2400   |      |      | ug/L |              |      | 107      | 66 - 128            | 0                                       | 14      |
| Tetrachloroethene  | 40 L        | IJ      |           | 1000     | 1020   |      |      | ug/L |              |      | 102      | 62 - 131            | 3                                       | 20      |
| trans-1,2-Dichloroethene   | 180         |         |           | 1000     | 1160   |      |      | ug/L |              |      | 98       | 56 - 136            | 1                                       | 15      |
| Trichloroethene  | 380         |         |           | 1000     | 1350   |      |      | ug/L |              |      | 97       | 61 - 124            | 2                                       | 15      |
| Vinyl chloride   | 40 L        | U       |           | 500      | 474    |      |      | ug/L |              |      | 95       | 43 - 157            | 2                                       | 24      |
| ,  |             |         |           |          |        |      |      | 5    |              |      |          |                     |   |         |
|  | MSD N       | MSD     |           |          |        |      |      |      |              |      |          |                     |   |         |
| Surrogate  |             | Qualifi | ier       | Limits   |        |      |      |      |              |      |          |                     |   |         |
| 1,2-Dichloroethane-d4 (Surr)   | 84          |         |           | 62 - 137 |        |      |      |      |              |      |          |                     |   |         |
| 4-Bromofluorobenzene (Surr)  | 84          |         |           | 56 - 136 |        |      |      |      |              |      |          |                     |   |         |
| Toluene-d8 (Surr)  | 87          |         |           | 78 - 122 |        |      |      |      |              |      |          |                     |   |         |
| Dibromofluoromethane (Surr)  | 88          |         |           | 73 - 120 |        |      |      |      |              |      |          |                     |   |         |
|  | 07/0        |         |           |          |        |      |      |      |              |      | 0        |                     |   | DI      |
| Lab Sample ID: MB 240-5638   | 97/8        |         |           |          |        |      |      |      |              |      | Client S | ample ID:           |   |         |
| Matrix: Water  |             |         |           |          |        |      |      |      |              |      |          | Prep                | ype: To                                 | otal/NA |
| Analysis Batch: 563897   |             |         | 40        |          |        |      |      |      |              |      |          |                     |   |         |
|  |             | MB N    |           |          |        |      |      |      | _            | _    |          |                     |   |         |
| Analyte  |             |         | Qualifier |          |        |      | Unit |      | _ <u>D</u> _ | PI   | repared  | Analyz              |   | Dil Fac |
| 1,1-Dichloroethene   |             | 1.0 L   |           | 1.0      |        | 0.49 | ug/L |      |              |      |          | 03/01/23            |   | 1       |
| cis-1,2-Dichloroethene   |             | 1.0 L   |           | 1.0      |        |      | ug/L |      |              |      |          | 03/01/23            |   | 1       |
| Tetrachloroethene  |             | 1.0 L   |           | 1.0      |        |      | ug/L |      |              |      |          | 03/01/23            |   | 1       |
| trans-1,2-Dichloroethene   |             | 1.0 L   |           | 1.0      |        |      | ug/L |      |              |      |          | 03/01/23            |   | 1       |
| Trichloroethene  |             | 1.0 L   |           | 1.0      |        |      | ug/L |      |              |      |          | 03/01/23            |   | 1       |
| Vinyl chloride   |             | 1.0 L   | J         | 1.0      |        | 0.45 | ug/L |      |              |      |          | 03/01/23            | 15:46                                   | 1       |
|  | I           | мв л    | ИВ        |          |        |      |      |      |              |      |          |                     |   |         |
| Surrogate  | %Recov      | ery G   | Qualifier | Limits   |        |      |      |      |              | P    | repared  | Analyz              | ed                                      | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr)   |             | 108     |           | 62 - 137 |        |      |      |      |              |      | •        | 03/01/23            |   | 1       |
| 4-Bromofluorobenzene (Surr)  |             | 87      |           | 56 - 136 |        |      |      |      |              |      |          | 03/01/23            |   | 1       |
| Toluene-d8 (Surr)  |             | 90      |           | 78 - 122 |        |      |      |      |              |      |          | 03/01/23            | 15:46                                   | 1       |
| Dibromofluoromethane (Surr)  |             | 97      |           | 73 - 120 |        |      |      |      |              |      |          | 03/01/23            | 15:46                                   | 1       |
| Lab Sample ID: LCS 240-563   | 897/5       |         |           |          |        |      |      |      | Cli          | ent  | Sample   | ID: Lab Co          | ontrol                                  | ample   |
| Matrix: Water  | UUTIV       |         |           |          |        |      |      |      | 01           |      | Sample   |                     | Type: To                                |         |
| Analysis Batch: 563897   |             |         |           |          |        |      |      |      |              |      |          | i ieh i             | <b>, po</b> . 10                        |         |
| Analysis Datoll. 303031  |             |         |           | 0        | 1.00   |      |      |      |              |      |          | 0/ <b>D</b>         |   |         |
|  |             |         |           | Spike    | 105    | LCS  |      |      |              |      |          | %Rec                |   |         |

|   | Analyte                  | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
|---|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| - | 1,1-Dichloroethene       | 20.0  | 16.3   |           | ug/L |   | 82   | 63 - 134 |  |
| 0 | cis-1,2-Dichloroethene   | 20.0  | 18.1   |           | ug/L |   | 90   | 77 - 123 |  |
| - | Tetrachloroethene        | 20.0  | 19.1   |           | ug/L |   | 95   | 76 - 123 |  |
| t | trans-1,2-Dichloroethene | 20.0  | 19.8   |           | ug/L |   | 99   | 75 - 124 |  |
| - | Trichloroethene          | 20.0  | 19.2   |           | ug/L |   | 96   | 70 - 122 |  |

**Eurofins Canton** 

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

| Lab Sample ID: LCS 240-563<br>Matrix: Water | 897/5     |           |          |        |           |      | Clien | it Sample | e ID: Lab Control Sample<br>Prep Type: Total/NA |
|---|-----------|-----------|----------|--------|-----------|------|-------|-----------|---|
| Analysis Batch: 563897                      |           |           | o "      |        |           |      |       |           | 0/ <b>D</b>                                     |
|   |           |           | Spike    |        | LCS       |      |       |           | %Rec  |
| Analyte                                     |           |           | Added    | Result | Qualifier | Unit | D     | %Rec      | Limits  |
| Vinyl chloride                              |           |           | 20.0     | 20.7   |           | ug/L |       | 103       | 60 - 144  |
|   | LCS       | LCS       |          |        |           |      |       |           |   |
| Surrogate                                   | %Recovery | Qualifier | Limits   |        |           |      |       |           |   |
| 1,2-Dichloroethane-d4 (Surr)                | 110       |           | 62 - 137 |        |           |      |       |           |   |
| 4-Bromofluorobenzene (Surr)                 | 93        |           | 56 - 136 |        |           |      |       |           |   |
| Toluene-d8 (Surr)                           | 92        |           | 78 - 122 |        |           |      |       |           |   |
| Dibromofluoromethane (Surr)                 | 99        |           | 73 - 120 |        |           |      |       |           |   |

#### Lab Sample ID: 240-180985-F-8 MS Matrix: Water

#### Analysis Batch: 563897

|                          | Sample | Sample    | Spike | MS     | MS        |      |   |      | %Rec     |  |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte                  | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| 1,1-Dichloroethene       | 1.0    | U         | 20.0  | 16.2   |           | ug/L |   | 81   | 56 - 135 |  |
| cis-1,2-Dichloroethene   | 1.0    | U         | 20.0  | 16.8   |           | ug/L |   | 84   | 66 - 128 |  |
| Tetrachloroethene        | 1.0    | U         | 20.0  | 17.4   |           | ug/L |   | 87   | 62 - 131 |  |
| trans-1,2-Dichloroethene | 1.0    | U         | 20.0  | 17.9   |           | ug/L |   | 89   | 56 - 136 |  |
| Trichloroethene          | 1.0    | U         | 20.0  | 17.3   |           | ug/L |   | 87   | 61 - 124 |  |
| Vinyl chloride           | 1.0    | U         | 20.0  | 20.5   |           | ug/L |   | 103  | 43 - 157 |  |

|                              | MS        | MS        |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 56 - 136 |
| Toluene-d8 (Surr)            | 93        |           | 78 - 122 |
| Dibromofluoromethane (Surr)  | 98        |           | 73 - 120 |

#### Lab Sample ID: 240-180985-I-8 MSD Matrix: Water

#### Analysis Batch: 563897

| Analysis Datch. 505057   |        |           |       |        |           |      |   |      |          |     |       |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                          | Sample | Sample    | Spike | MSD    | MSD       |      |   |      | %Rec     |     | RPD   |
| Analyte                  | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
| 1,1-Dichloroethene       | 1.0    | U         | 20.0  | 16.0   |           | ug/L |   | 80   | 56 - 135 | 1   | 26    |
| cis-1,2-Dichloroethene   | 1.0    | U         | 20.0  | 17.2   |           | ug/L |   | 86   | 66 - 128 | 3   | 14    |
| Tetrachloroethene        | 1.0    | U         | 20.0  | 18.2   |           | ug/L |   | 91   | 62 - 131 | 5   | 20    |
| trans-1,2-Dichloroethene | 1.0    | U         | 20.0  | 18.0   |           | ug/L |   | 90   | 56 - 136 | 1   | 15    |
| Trichloroethene          | 1.0    | U         | 20.0  | 17.7   |           | ug/L |   | 88   | 61 - 124 | 2   | 15    |
| Vinyl chloride           | 1.0    | U         | 20.0  | 20.6   |           | ug/L |   | 103  | 43 - 157 | 1   | 24    |
|                          | MSD    | MSD       |       |        |           |      |   |      |          |     |       |

|                              | MSD       | MSD       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 56 _ 136 |
| Toluene-d8 (Surr)            | 93        |           | 78 - 122 |
| Dibromofluoromethane (Surr)  | 98        |           | 73 - 120 |

#### **Client Sample ID: Matrix Spike** Prep Type: Total/NA

# **Client Sample ID: Matrix Spike Duplicate**

#### Prep Type: Total/NA

**Eurofins Canton** 

Job ID: 240-180965-1

#### Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

| Lab Sample ID: MB 240-563    | 886/6     |       |           |          |        |      |       |      |        |     | Client S   | ample ID:   | Method   | Blan    |
|------------------------------|-----------|-------|-----------|----------|--------|------|-------|------|--------|-----|------------|-------------|----------|---------|
| Matrix: Water                |           |       |           |          |        |      |       |      |        |     |            | Prep 1      | ype: To  | otal/N/ |
| Analysis Batch: 563886       |           |       |           |          |        |      |       |      |        |     |            |             |          |         |
| -                            |           | мв    | МВ        |          |        |      |       |      |        |     |            |             |          |         |
| Analyte                      | Re        | esult | Qualifier | RL       |        | MDL  | Unit  |      | D      | P   | repared    | Analyz      | ed       | Dil Fa  |
| 1,4-Dioxane                  |           | 2.0   | U         | 2.0      |        | 0.86 | ug/L  |      |        |     |            | 03/01/23    | 13:13    |         |
|                              |           |       |           |          |        |      | -     |      |        |     |            |             |          |         |
|                              |           |       | МВ        |          |        |      |       |      |        |     |            |             |          |         |
| Surrogate                    | %Reco     |       | Qualifier | Limits   |        |      |       |      | _      | P   | repared    | Analyz      |          | Dil Fa  |
| 1,2-Dichloroethane-d4 (Surr) |           | 95    |           | 66 - 120 |        |      |       |      |        |     |            | 03/01/23    | 13:13    |         |
| Lab Sample ID: LCS 240-56    | 3886/4    |       |           |          |        |      |       |      | Cli    | ont | Sample     | ID: Lab Co  | ontrol S | ampl    |
| Matrix: Water                | 0000/4    |       |           |          |        |      |       |      | 011    |     | Campic     |             | ype: To  |         |
| Analysis Batch: 563886       |           |       |           |          |        |      |       |      |        |     |            | i ieh i     | ype. It  |         |
| Analysis Daton. 505000       |           |       |           | Spike    | 108    | LCS  |       |      |        |     |            | %Rec        |          |         |
| Analyte                      |           |       |           | Added    | Result |      | ifior | Unit |        | D   | %Rec       | Limits      |          |         |
| 1,4-Dioxane                  |           |       |           | 10.0     | 9.85   | duui |       | ug/L |        | _   | 98         | 80 - 122    |          |         |
|                              |           |       |           | 10.0     | 0.00   |      |       | ug/L |        |     | 50         | 00 - 122    |          |         |
|                              | LCS       | LCS   |           |          |        |      |       |      |        |     |            |             |          |         |
| Surrogate                    | %Recovery | Qual  | ifier     | Limits   |        |      |       |      |        |     |            |             |          |         |
| 1,2-Dichloroethane-d4 (Surr) | 87        |       |           | 66 - 120 |        |      |       |      |        |     |            |             |          |         |
| Lab Cample ID: 040 490077    | E 0.440   |       |           |          |        |      |       |      |        |     | Client     | Comple ID   | Mateix   | Onile   |
| Lab Sample ID: 240-180977    | -E-2 1015 |       |           |          |        |      |       |      |        |     | Client     | Sample ID   |          |         |
| Matrix: Water                |           |       |           |          |        |      |       |      |        |     |            | Prep        | ype: To  | al/N/   |
| Analysis Batch: 563886       | 0         | 0     |           | 0        |        |      |       |      |        |     |            | %Rec        |          |         |
|                              | Sample    |       |           | Spike    |        | MS   |       |      |        | _   | ~ <b>-</b> |             |          |         |
| Analyte                      | Result    |       | itier     | Added    | Result | Qual | ifier | Unit |        | D   | %Rec       | Limits      |          |         |
| 1,4-Dioxane                  | 2.0       | U     |           | 10.0     | 10.3   |      |       | ug/L |        |     | 103        | 51 - 153    |          |         |
|                              | MS        | MS    |           |          |        |      |       |      |        |     |            |             |          |         |
| Surrogate                    | %Recovery | Qual  | ifier     | Limits   |        |      |       |      |        |     |            |             |          |         |
| 1,2-Dichloroethane-d4 (Surr) |           |       |           | 66 - 120 |        |      |       |      |        |     |            |             |          |         |
| -<br>-                       |           |       |           |          |        |      |       |      |        |     |            |             |          |         |
| Lab Sample ID: 240-180977    | -K-2 MSD  |       |           |          |        |      |       |      | Client | Sa  | ample ID   | : Matrix Sp |          |         |
| Matrix: Water                |           |       |           |          |        |      |       |      |        |     |            | Prep 1      | ype: To  | otal/N/ |
| Analysis Batch: 563886       |           |       |           |          |        |      |       |      |        |     |            |             |          |         |
|                              | Sample    | Sam   | ple       | Spike    | MSD    | MSD  |       |      |        |     |            | %Rec        |          | RPI     |
| Analyte                      | Result    |       | ifier     | Added    | Result | Qual | ifier | Unit |        | D   | %Rec       | Limits      | RPD      | Lim     |
| 1,4-Dioxane                  | 2.0       | U     |           | 10.0     | 10.2   |      |       | ug/L |        |     | 102        | 51 - 153    | 1        | 10      |
|                              | MSD       | MSD   |           |          |        |      |       |      |        |     |            |             |          |         |
| Surrogate                    | %Recovery |       |           | Limits   |        |      |       |      |        |     |            |             |          |         |
|                              |           | auai  |           | 2        |        |      |       |      |        |     |            |             |          |         |

 surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 83
 66 - 120

#### GC/MS VOA Analysis Batch: 563877

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|----------------------|------------------------|-----------|--------|-----------|------------|
| 240-180965-1         | TRIP BLANK_155         | Total/NA  | Water  | 8260D     |            |
| MB 240-563877/8      | Method Blank           | Total/NA  | Water  | 8260D     |            |
| CS 240-563877/5      | Lab Control Sample     | Total/NA  | Water  | 8260D     |            |
| 40-180795-A-7 MS     | Matrix Spike           | Total/NA  | Water  | 8260D     |            |
| 40-180795-A-7 MSD    | Matrix Spike Duplicate | Total/NA  | Water  | 8260D     |            |
| nalysis Batch: 56388 | 6                      |           |        |           |            |
| _ab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
| 40-180965-2          | MW-123S_022223         | Total/NA  | Water  | 8260D SIM |            |
| IB 240-563886/6      | Method Blank           | Total/NA  | Water  | 8260D SIM |            |
| CS 240-563886/4      | Lab Control Sample     | Total/NA  | Water  | 8260D SIM |            |
| 40-180977-E-2 MS     | Matrix Spike           | Total/NA  | Water  | 8260D SIM |            |
| 240-180977-K-2 MSD   | Matrix Spike Duplicate | Total/NA  | Water  | 8260D SIM |            |
| nalysis Batch: 56389 | 7                      |           |        |           |            |
| _ab Sample ID        | Client Sample ID       | Ргер Туре | Matrix | Method    | Prep Batch |
| 40-180965-2          | MW-123S_022223         | Total/NA  | Water  | 8260D     |            |
| MB 240-563897/8      | Method Blank           | Total/NA  | Water  | 8260D     |            |
| CS 240-563897/5      | Lab Control Sample     | Total/NA  | Water  | 8260D     |            |
| 240-180985-F-8 MS    | Matrix Spike           | Total/NA  | Water  | 8260D     |            |
| 240-180985-I-8 MSD   | Matrix Spike Duplicate | Total/NA  | Water  | 8260D     |            |

#### Client Sample ID: TRIP BLANK\_155

| Lab Sample ID: 240-180965-1 |  |
|-----------------------------|--|
| Matrix: Water               |  |
|                             |  |
|                             |  |

Matrix: Water

#### Date Collected: 02/22/23 00:00 Date Received: 02/25/23 08:00

| _          | Batch        | Batch      |     | Dilution | Batch  |         |         | Prepared       |             |
|------------|--------------|------------|-----|----------|--------|---------|---------|----------------|-------------|
| Prep Type  | Туре         | Method     | Run | Factor   | Number | Analyst | Lab     | or Analyzed    |             |
| Total/NA   | Analysis     | 8260D      |     | 1        | 563877 | SAM     | EET CAN | 03/01/23 14:27 |             |
| lient Samp | le ID: MW-12 | 235 022223 |     |          |        |         |         | Lab Sample ID: | 240-180965- |

#### Client Sample ID: MW-123S\_022223 Date Collected: 02/22/23 12:20

Date Received: 02/25/23 08:00

|           | Batch    | Batch     |     | Dilution | Batch  |         |         | Prepared       |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре     | Method    | Run | Factor   | Number | Analyst | Lab     | or Analyzed    |
| Total/NA  | Analysis | 8260D     |     | 1        | 563897 | TES     | EET CAN | 03/01/23 20:33 |
| Total/NA  | Analysis | 8260D SIM |     | 1        | 563886 | BAJ     | EET CAN | 03/01/23 17:17 |

#### Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

<mark>12</mark> 13

#### Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

#### Laboratory: Eurofins Canton

| aboratory: Eurofins Can<br>I accreditations/certifications held by the |         | ions/certifications are applicable to this report |                 |  |
|--|---------|---|-----------------|--|
| Authority  | Program | Identification Number                             | Expiration Date |  |
| California   | State   | 2927  | 02-27-23 *      |  |
| Connecticut  | State   | PH-0590   | 12-31-23        |  |
| Florida  | NELAP   | E87225  | 06-30-23        |  |
| Georgia  | State   | 4062  | 02-27-23 *      |  |
| Illinois   | NELAP   | 200004  | 07-31-23        |  |
| lowa   | State   | 421   | 06-01-23        |  |
| Kentucky (UST)   | State   | 112225  | 02-27-23 *      |  |
| Kentucky (WW)  | State   | KY98016   | 12-31-23        |  |
| Michigan   | State   | 9135  | 02-27-23 *      |  |
| Minnesota  | NELAP   | 039-999-348                                       | 12-31-23        |  |
| Minnesota (Petrofund)  | State   | 3506  | 08-01-23        |  |
| New Jersey   | NELAP   | OH001   | 06-30-23        |  |
| New York   | NELAP   | 10975   | 04-01-23        |  |
| Ohio   | State   | 8303  | 02-27-23 *      |  |
| Ohio VAP   | State   | CL0024  | 02-27-23 *      |  |
| Oregon   | NELAP   | 4062  | 02-28-24        |  |
| Pennsylvania   | NELAP   | 68-00340  | 08-31-23        |  |
| Texas  | NELAP   | T104704517-22-17                                  | 08-31-23        |  |
| Virginia   | NELAP   | 460175  | 09-14-23        |  |
| West Virginia DEP  | State   | 210   | 12-31-23        |  |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

| regulatory program:       Client Project Manager: Kris Hinakey       Telephone: 248-994-2240       Telephone: 248-994-2240       Email: kristoffer. Minskey(@ arcadis.com       Sampler Name:       Sampler N  | Million         Million         Million         Million         Million         Million           Million         Million         Million         Million         Million         Million         Million         Million           Million <th>недения:         Полов         Полов</th> <th>MICHIGAN<br/>190</th> <th>Brighton</th> <th>Custody Record<br/>ve. Suite 200 / Brighton, MI 48116</th> <th>/ 810-229-2763</th> <th></th>   | недения:         Полов   | MICHIGAN<br>190 | Brighton  | Custody Record<br>ve. Suite 200 / Brighton, MI 48116   | / 810-229-2763   |  |
|--|--|--|-----------------|---|--|--|--|
| Information  | Antonic         Antonic <t< th=""><th>Marcaneta         Marcaneta         <t< th=""><th></th><th>Regulatory program: DW</th><th>2</th><th>Other</th><th>TestAmerica Laboratories, Inc.</th></t<></th></t<> | Marcaneta         Marcaneta <t< th=""><th></th><th>Regulatory program: DW</th><th>2</th><th>Other</th><th>TestAmerica Laboratories, Inc.</th></t<>   |                 | Regulatory program: DW                                      | 2  | Other  | TestAmerica Laboratories, Inc.                   |
| Tanik Interior         Analysis Transaction         Analysis Transaction         Analysis Transaction           Sample Yame:         Sample Transaction         Analysis Transaction         Analysis Transaction         Analysis Transaction           Sample Yame:         Sample Transaction         Analysis Transaction         <   | Continue         Author function         Author function           Contraction         Author function         Author function           Author function         Author functio  | (4)         (4) <td></td> <td>Telephone: 248-994-2240</td> <td>Sue Contact: Cortsina Weaver<br/>Telephone: 248-994-2240</td> <td>Lab Contact: Mike DelMonico<br/>Telenhone: 330-497-9396</td> <td>COC No:</td>   |                 | Telephone: 248-994-2240                                     | Sue Contact: Cortsina Weaver<br>Telephone: 248-994-2240  | Lab Contact: Mike DelMonico<br>Telenhone: 330-497-9396   | COC No:  |
| Sample Yane:         Mital of Signer Varie:           SAM         SVAMEATA           Annota of Signer Varie:         10 day           Yanadi of Signer Varie:         10 day           Mital of Signer Varie:         10 day           Name         Sample Part           Nipple pri         Nipple pri           Noss (r         Noss (r           No   | Interview  | Пинисал         <  |                 | Email: kristoffer.hinskey@arcadis.com                       | Analysis Turnaround Time   | Analyses   |  |
| Nypring/Tarcular Nu:           Nypring/Tarcular Nu:           Notified and the second of the second o  | Mitti         Attention           Attention         Attention  | Image: Second   |                 | Sampler Name:<br>SAM SUKARTA<br>Method of Shipmenu/Carrier: | ceks   | 8  | Walk-in client<br>Lab sampling                   |
| Anti-<br>transmission         Anti-<br>similarity         Anti-<br>similarity         Anti-<br>similarity         Anti-<br>similarity           al allocation         Allocation         Allocation         Allocation         Allocation         Allocation           al allocation         Allocation         Allocation         Allocation         Allocation         Allocation         Allocation           al allocation   | Matrix         Contact of a second state           Addition         Addition         Contact of a second state           Addition         Addition         Special instruction is special instruction in the instruction is special instruction instruction instruction is special instructin instruction instructin instruction instructin instruc   | Interview         Mutta         Continue         Continue <thcontinue< th=""> <thcontinue< th=""> <th< td=""><td></td><td></td><td></td><td>6 85608<br/>56 85608<br/>85608<br/>08<br/>08</td><td>Job/SDG No:</td></th<></thcontinue<></thcontinue<>  |                 |   |  | 6 85608<br>56 85608<br>85608<br>08<br>08   | Job/SDG No:                                      |
| 2/12/13     12/10     1  | 0       1  | 1     1     1     NG X X X X X X X X 3 000 500 500 500 500 500 500 500 500 5   |                 | Sample Time<br>Advents<br>Advents<br>Sample Time            | Oliber:<br>Containers<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>Autori<br>A | Composite-<br>1,1-DCE 8266<br>cis-1,2-DCE<br>778ns-1,2-DC<br>7CE 82608<br>7CE 82608<br>7CE 82608 | Sample Specific Notes /<br>Special Instructions: |
| 240-180965 Chain of Custody       240-180965 Chain of Custody       1       <  | 0       6       1       V       X  | 005     0<   |                 |   |  | GXXXXX   | 1 Trip Blank                                     |
| 240-180065 Chan of Custody   | Unknown  | Distribution     Distribution     Distribution     Distribution       Comparing     Comparing     Comparing     Distribution       2     2     2     2   | 53              | 0721  |  | × × × × × × × × × × × × × × × × × × ×  | 3 VOAs for 8260B SIM                             |
| 240-180965 Chain of Custody  | Unknown  | Annotation     Annotation       Annotation <td></td> <td></td> <td></td> <td></td> <td></td>   |                 |   |  |  |  |
| 240-180965 Chain of Custody  | Unknown Client & Disposal By Lab   | The second by  |                 |   |  |  |  |
|  | Unknown Culent > Disposal By Lab   | Clater     Sample Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Clater     Sample Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Clater     Sample Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Clater     Sample Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Clater     Sample Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Clater     Sample Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Clater     Sample Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Clater     Clange that 1 month)       Clater     Disposal (A fee may be assessed if samples are tetalined lange that 1 month)       Dater     Clater       Dater     Dater       Dater     Received by:       Dater     Company:       Dater     <  |                 |   |  | Chain of Custody   | 240-180965                                       |
| Contract (Contract (Contra | Unknown     Cample Disposal ( A fee may be assessed if samples are retained longer than 1 mo       Unknown     Return to Client  | Unknown     Sample Disposal (A fee may be ussessed if samples are retained longer than 1 month)       Linknown     Recur to Client     Disposal By Lab       Late/Time:     Received by:     Company:       Lock     Received by:     Company:       Area     Received by:     Company:       Date/Time:     Received by:     Company:       Date/Time:     Received by:     Company:       Date/Time:     Received by:     Company:       Date/Time:     Received by:     Company:  |                 |   |  |  |  |
| the provided and the provided and the provided and the provided to the termined to the termine | Unknown Client V Disposal By Lab Archive For I   | Unknown Return to Client & Disposal By Lab Archive For Months<br>TS Pare/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time: |                 |   | Sample Disposal ( A fee may be ussess  | sed if samples are retained longer than 1 month)   |  |
| Company: ARCADITS Date/Time: 2/23/23/13 1500 Received by: Company: ARCADITS Date/Time: Company: ARCADITS Date/Time: Date/Time: Company: ARCADITS Date/Time: Date/Time: Date/Time: Company: ARCADITS Date/Time: Da |  |  |                 | ETH 224   | 10/45  | Hype EET   | 0-35-73  |

| Eurofins - Canton Sample Receipt Form/Narrative       Login # :         Barberton Facility  |
|---|
|   |
| Client Arca di Site Name<br>Cooler Received on 2-25-23 Opened on 2-27-23  |
| FedEx: 1 <sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other   |
| FedEx:       1" Grd       Exp       UPS       FAS       Clipper       Client Drop Off       Eurofins Courier       Other       O         Receipt After-hours:       Drop-off       Date/Time       Storage Location |
| Eurofins Cooler # Foar Box Client Cooler Box Other  |
| Packing material used: Bubble Wrap Foam Plastic Bag None Other  |
| COOLANT: Wet Ice Blue Ice Dry Ice Water None  |
| 1. Cooler temperature upon receipt See Multiple Cooler Form   |
| IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. C Corrected Cooler Temp. °C   |
| IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C   |
| IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp. °C Corrected Gooler Temp. °C   |
| 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Cach Yes No   |
| -Were the seals on the outside of the cooler(s) signed & dated? (Fes No NA checked for pH by  |
| -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No Receiving:   |
| -Were tamper/custody seals intact and uncompromised?<br>3. Shippers' packing slip attached to the cooler(s)?<br>Yes No NA<br>Yes No VOAs  |
| <ol> <li>Shippers' packing slip attached to the cooler(s)?</li> <li>Did custody papers accompany the sample(s)?</li> <li>Yes No</li> <li>VOAs</li> <li>Oil and Grease</li> </ol>                                    |
| 5. Were the custody papers relinquished & signed in the appropriate place? Yes No TOC   |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC?  |
| 7. Did all bottles arrive in good condition (Unbroken)?   |
| 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?   |
| 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?   |
| 10. Were correct bottle(s) used for the test(s) indicated?  |
| 11. Sufficient quantity received to perform indicated analyses?   |
| 12. Are these work share samples and all listed on the COC? Yes No<br>If yes, Questions 13-17 have been checked at the originating laboratory.  |
| 13. Were all preserved sample(s) at the correct pH upon receipt? Kes No NA) pH Strip Lot# HC203864  |
| 14. Were VOAs on the COC?   |
| 15. Were air bubbles >6 mm in any VOA vials? Larger than this<br>16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # (2070 Yes No NA<br>Yes No NA   |
|   |
| 17. Was a LL Hg or Me Hg trip blank present? Yes No   |
| Contacted PM Date by via Verbal Voice Mail Other  |
| Concerning  |
| ······································  |
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:  |
|   |
|   |
|   |
|   |
|   |
| 19. SAMPLE CONDITION  |
| Sample(s) were received after the recommended holding time had expired.   |
| Sample(s) were received in a broken container.  |
| Sample(s) were received with bubble >6 mm in diameter. (Notify PM)  |
| 20. SAMPLE PRESERVATION   |
|   |
| Sample(s)       were further preserved in the laboratory.         Time preserved:       Preservative(s) added/Lot number(s):  |
|   |
| VOA Sample Preservation - Date/Time VOAs Frozen:  |

Login # : \_\_

| <b>Cooler Description</b> | IR Gun #          | Observed | Corrected | Coolant  |
|---------------------------|-------------------|----------|-----------|--|
| (Circle)                  | (Circle)          | Temp °C  | Temp °C   | (Circle)   |
| EC Client Box Other       | IR-13 IR-16 IR-17 | 0.6      | 0.4       | Wellice Sive Ice Dry I<br>Water None                 |
| EC Client Box Other       | 1R-13 HR-16 HR-17 | 0.8      | 0.6       | Wet ice Blue ice Dry is<br>Water None                |
| EC Client Box Other       | IR-13 IR-16 HR-17 |          |           | Welice Blue Ice Dry la<br>Water None                 |
| EC Client Box Other       | IR-13 JR-16 IR-17 |          |           | Wet ice Blue ice by ic<br>Water None                 |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Wet Ice Blue Ice Dry Ic<br>Water None                |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Wet Ice Dive Ice Dry Ic<br>Water None                |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Wet Ice Blue Ice Dry Ic<br>Water None                |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Weilce Bluelce Dry Ic                                |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Wellice Bluelice Dylc                                |
| EC Client Box Other       | R-13 R-16 H-17    |          |           | Water None<br>Wet ice Blue ice Dy ic                 |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ic                |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Water None<br>Wet Ice Blue Ice Dry Ic                |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Water None<br>Wetice Blue ice Dyic                   |
| EC Client Box Other       | R-13 R-16 R-17    |          | •         | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Water None<br>Wet ice Blue ice Dry ice               |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Wet ice Blue ice Dry ice<br>Water None               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Wet Ice Blue Ice Dry Ice                             |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Water Note<br>Water Due to Dry to<br>Water None      |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Wet ice Sive ice Dry ice                             |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | R-13 R-16 R-17    |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| EC Client Box Other       | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| C Client Box Other        | R-13 R-16 R-17    |          |           | Water None<br>Wet Ice Blue Ice Dry Ice               |
| C Client Box Other        | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet ice Blue ice Dry ice               |
| C Client Box Other        | IR-13 IR-16 IR-17 |          |           | Water None<br>Wet Ice Blue Ice Dry Ice<br>Water None |

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

### **DATA VERIFICATION REPORT**



March 06, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30146655.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 180965-1 Sample date: 2023-02-22 Report received by CADENA: 2023-03-03 Initial Data Verification completed by CADENA: 2023-03-06 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

**Project Scientist** 

### **CADENA Valid Qualifiers**

| Valid<br>Qualifiers | Description  |  |  |  |  |
|---------------------|--|--|--|--|--|
| <                   | Less than the reported concentration.  |  |  |  |  |
| >                   | Greater than the reported concentration.   |  |  |  |  |
| В                   | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration. |  |  |  |  |
| Е                   | The analyte / Compound reported exceeds the calibration range and is considered estimated.   |  |  |  |  |
| EMPC                | Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.  |  |  |  |  |
| J                   | Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.                     |  |  |  |  |
| J-                  | The result is an estimated quantity, but the result may be biased low.   |  |  |  |  |
| JB                  | NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED   |  |  |  |  |
| JH                  | The sample result is considered estimated and is potentially biased high.  |  |  |  |  |
| JL                  | The sample result is considered estimated and is potentially biased low.   |  |  |  |  |
| JUB                 | NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED  |  |  |  |  |
| NJ                  | Tentatively identified compound with approximated concentration.   |  |  |  |  |
| R                   | Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)  |  |  |  |  |
| TNTC                | Too Numerous to Count - Asbestos and Microbiological Results.  |  |  |  |  |
| U                   | Indicates that the analyte / compound was analyzed for, but not detected.  |  |  |  |  |
| UB                  | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than $10x$ the blank concentration and is considered non-detect at the RDL.                                       |  |  |  |  |
| UJ                  | The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.  |  |  |  |  |

### Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory Submittal: 180965-1

|                |                          | Sample Name:<br>Lab Sample ID:<br>Sample Date: | TRIP BLANK_155<br>2401809651<br>2/22/2023 |        |       | MW-123S_022223<br>2401809652<br>2/22/2023 |        |        |       |           |
|----------------|--------------------------|--|---|--------|-------|---|--------|--------|-------|-----------|
|                |                          |  |   | Report |       | Valid                                     |        | Report |       | Valid     |
|                | Analyte                  | Cas No.  | Result                                    | Limit  | Units | Qualifier                                 | Result | Limit  | Units | Qualifier |
| GC/MS VOC      |                          |  |   |        |       |   |        |        |       |           |
| <u>OSW-826</u> |                          |  |   |        |       |   |        |        |       |           |
|                | 1,1-Dichloroethene       | 75-35-4  | ND  | 1.0    | ug/l  |   | ND     | 1.0    | ug/l  |           |
|                | cis-1,2-Dichloroethene   | 156-59-2                                       | ND  | 1.0    | ug/l  |   | ND     | 1.0    | ug/l  |           |
|                | Tetrachloroethene        | 127-18-4                                       | ND  | 1.0    | ug/l  |   | ND     | 1.0    | ug/l  |           |
|                | trans-1,2-Dichloroethene | 156-60-5                                       | ND  | 1.0    | ug/l  |   | ND     | 1.0    | ug/l  |           |
|                | Trichloroethene          | 79-01-6  | ND  | 1.0    | ug/l  |   | ND     | 1.0    | ug/l  |           |
|                | Vinyl chloride           | 75-01-4  | ND  | 1.0    | ug/l  |   | 2.2    | 1.0    | ug/l  |           |
| <u>OSW-826</u> | <u>DDSIM</u>             |  |   |        |       |   |        |        |       |           |
|                | 1,4-Dioxane              | 123-91-1                                       |   |        |       |   | ND     | 2.0    | ug/l  |           |



### Ford Motor Company – Livonia Transmission Project

## **Data Review**

### Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-180965-1 CADENA Verification Report: 2023-03-06

Analyses Performed By: Eurofins North Canton, Ohio

Report # 48950R Review Level: Tier III Project: 30167538.601.01

### **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-180965-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

|                |              |        | Sample Collection |               | Analysis |         |  |
|----------------|--------------|--------|-------------------|---------------|----------|---------|--|
| Sample ID      | Lab ID       | Matrix | Date              | Parent Sample | voc      | VOC SIM |  |
| TRIP BLANK_155 | 240-180965-1 | Water  | 02/22/23          |               | Х        |         |  |
| MW-123S_022223 | 240-180965-2 | Water  | 02/22/23          |               | Х        | Х       |  |

#### DATA REVIEW

#### ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

| Items Reviewed  | Rep | orted | Performance<br>Acceptable |     | Not      |
|---|-----|-------|---------------------------|-----|----------|
|   | No  | Yes   | No                        | Yes | Required |
| 1. Sample receipt condition   |     | Х     |                           | Х   |          |
| 2. Requested analyses and sample results                                  |     | Х     |                           | Х   |          |
| 3. Master tracking list   |     | Х     |                           | Х   |          |
| 4. Methods of analysis  |     | Х     |                           | Х   |          |
| 5. Reporting limits   |     | Х     |                           | Х   |          |
| 6. Sample collection date   |     | Х     |                           | Х   |          |
| 7. Laboratory sample received date  |     | Х     |                           | Х   |          |
| 8. Sample preservation verification (as applicable)                       |     | Х     |                           | Х   |          |
| 9. Sample preparation/extraction/analysis dates                           |     | Х     |                           | Х   |          |
| 10. Fully executed Chain-of-Custody (COC) form                            |     | Х     |                           | Х   |          |
| 11. Narrative summary of Quality Assurance or sample<br>problems provided |     | х     |                           | Х   |          |
| 12. Data Package Completeness and Compliance                              |     | Х     |                           | Х   |          |

#### DATA REVIEW

#### **ORGANIC ANALYSIS INTRODUCTION**

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
  - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

#### VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method                 | Matrix | Holding Time                        | Preservation                    |
|------------------------|--------|-------------------------------------|---------------------------------|
| SW-846 8260D/8260D-SIM | Water  | 14 days from collection to analysis | Cool to < 6 °C; pH < 2 with HCI |

All samples were analyzed within the specified holding time criteria.

#### 2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

#### 3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

#### 3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

#### 3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

#### 4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

#### 5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

#### DATA REVIEW

#### 6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

#### 7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

#### DATA REVIEW

#### DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: 8260D/8260D-SIM                                       |       | Reported |    | rmance<br>ptable | Not<br>Required |
|---|-------|----------|----|------------------|-----------------|
|   | No    | Yes      | No | Yes              | Required        |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G                     | C/MS) |          |    |                  |                 |
| Tier II Validation  |       |          |    |                  |                 |
| Holding times/Preservation                                  |       | Х        |    | X                |                 |
| Tier III Validation   |       |          |    |                  |                 |
| System performance and column resolution                    |       | Х        |    | Х                |                 |
| Initial calibration %RSDs                                   |       | Х        |    | Х                |                 |
| Continuing calibration RRFs                                 |       | Х        |    | Х                |                 |
| Continuing calibration %Ds                                  |       | Х        |    | Х                |                 |
| Instrument tune and performance check                       |       | Х        |    | Х                |                 |
| lon abundance criteria for each instrument used             |       | Х        |    | Х                |                 |
| Field Duplicate RPD   | Х     |          |    |                  | Х               |
| Internal standard   |       | Х        |    | Х                |                 |
| Compound identification and quantitation                    |       |          |    |                  |                 |
| A. Reconstructed ion chromatograms                          |       | Х        |    | Х                |                 |
| B. Quantitation Reports                                     |       | Х        |    | Х                |                 |
| C. RT of sample compounds within the established RT windows |       | Х        |    | Х                |                 |
| D. Transcription/calculation errors present                 |       | Х        |    | Х                |                 |
| E. Reporting limits adjusted to reflect sample dilutions    |       | Х        |    | Х                |                 |
| Notes:  |       |          |    |                  |                 |

%RSD Relative standard deviation

%R Percent recovery

- RPD Relative percent difference
- %D Percent difference

| VALIDATION PERFORMED BY: | Hrishikesh Upadhyaya |
|--------------------------|----------------------|
| SIGNATURE:               | Curindialund         |
| DATE:                    | March 15, 2023       |
|                          |                      |

| PEER REVIEW: | Andrew Korycinski |
|--------------|-------------------|
| DATE:        | March 17, 2023    |

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## NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



# CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





#### **Chain of Custody Record**



TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

| Chen Projen Maarger Erit Hinder         Die Caster Under Weren         Dat Caster Under Aufwaren         Die Caster Under Aufwaren           Strad Zige Nei, MJ, 6877         Fraghen: 28-94-220         Fraghen: 28-94-220         Fraghen: 28-94-220         Fraghen: 28-94-220         Fraghen: 28-94-220           Sind/Zige Nei, MJ, 6877         Fragh: Endition Marker generation         Marker Endition         Marker Endition         Fraghen: 28-94-220         Fraghen: 28-94-220         Fraghen: 28-94-220           Singler Name:         S  | Client Contact   | Regula          | tory program   | 1:     |          |          | W    | E    | NPDE     | ES     | ſ            | RC     | RA      | E          | Oth          | er 🗌  | -       | _        |        |        |         |       |                  |       |    |     |                       |
|--|--|-----------------|----------------|--------|----------|----------|------|------|----------|--------|--------------|--------|---------|------------|--------------|-------|---------|----------|--------|--------|---------|-------|------------------|-------|----|-----|-----------------------|
| der:::::::::::::::::::::::::::::::::::   | Company Name: Arcadis  |                 |                |        |          |          |      |      |          |        | _            | _      |         |            |              |       |         |          |        |        |         | _     |                  |       |    |     |                       |
| Statutor       Compare 148-98-2146       Sampler Vanie:       Addyse Transmitter       Addyse Transmitter       Addyse Transmitter       Addyse Transmitter       Addyse Transmitter         Signed Private       Sampler Vanie:       Sampler Vanie:       Addyse Transmitter       Addyse Transmit  | Address: 28550 Cabot Drive, Suite 500  | Client Project  | Manager: Kris  | Hins   | key      |          |      | Site | Conta    | ct: C  | hristi       | na W   | eaver   |            |              |       | Lab (   | Contac   | t: Mil | e Del  | Monic   | 0     |                  |       |    | CO  | C No:                 |
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| Sampler Name:       Sampler Name:       Sampler Name:       Part fallows that balance       P  |  | Email: kristoff | fer.hinskey@aı | rcadis | .com     |          |      |      | Analys   | sis Tu | urnard       | ound   | lime    |            |              | -     | I       |          |        | A      | nalys   | es    | -                |       |    | For |                       |
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| Sample Identification         Sample Date         Sample Time         Common Provided Pr   | PO # 30167538.402.04   | Shipping/Tracl  | king No:       |        |          |          |      |      |          |        | 10           | lay    |         | le (V      | / Gri        | 8     | 2605    | E 82(    |        |        | 826     | 260E  |                  |       |    | Job | /SDG No:              |
| TRIP BLANK_\S5       2/21/23        1       1       N G X X X X X X X X X X X X X X X X X X  |  |                 |                |        |          | Matri    | x    |      | Conta    | Iners  | & Pre        | servat | tives   |            | 1 1 1        | 8260  | CE 8    | DQ.      | 8      | 8      | oride   |       |                  |       |    |     |                       |
| TRIP BLANK_\S5       2/21/23        1       1       N G X X X X X X X X X X X X X X X X X X  |  |                 |                |        | ous      | cut      | Ľ    | Z    |          |        | -            | 5      | E       | red        | posi         | CE    | 2-D     | 5-1,2    | 826(   | 8260   | Chic    | ioxa  |                  |       |    |     | Sample Specific Notes |
| TRIP BLANK_\S5       2/21/23        1       1       N G X X X X X X X X X X X X X X X X X X  | Sample Identification  | Sample Date     | Sample Time    | Air    | Aque     | Sedim    | Othe | H2SC | ONH      | E S    | NaOI<br>ZnAc | H H    | Other   | Filte      | Cem          | 1.1-0 | cis-1   | Tran     | CE     | LCE    | /inyl   | 4-D   |                  |       |    |     |                       |
| MNN - 1235_022023       2/22/23       1220       6       6       N G x x x x x x x       3 VOAs for 82608 s         MNN - 1235_022023       2/22/23       1220       6       6       N G x x x x x x x       3 VOAs for 82608 s         MNN - 1235_022023       2/22/23       1220       6       6       N G x x x x x x x       3 VOAs for 82608 s         MNN - 1235_022023       2/22/23       1220       6       6       N G x x x x x x x       3 VOAs for 82608 s         MNN - 1235_022023       1220       6       6       0       0       0       0         MNN - 1235_022023       1220       6       0       0       0       0       0       0         Monthardteeutocove       Non-laard       Person B       Unknown       Seeped Bysoal (A fer may be assessed if samples are retained langer than 1 month)       0  | TRIP BLANK_ \55  | 2/22/23         |                |        | 1        |          |      |      |          | 1      |              | T      |         | N          |              | X     |         |          | X      | -      | X       |       |                  |       |    |     | 1 Trip Blank          |
| Possible Haard Metification Po   | 1000 000000  |                 |                | +      | 7        |          | 1    |      |          |        | +            | +      | 1       |            | 0            |       |         | <u> </u> |        |        |         |       |                  | -+    | +  | +   | 3 VOAs for 8260B      |
| Possible Hazard Identification<br>Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Clean Disposal ( A fee may be assessed if samples are retained longer than 1 month)<br>retail Instructions/QC Requirements & Comments:<br>mple Address: 12075 BREWSTER<br>binit all results through Cadena at journalia@cadenaco.com. Cadena #E203631<br>ret IV Reporting requested.<br>inquished by: SAM SUKARTA Company: ARCADIS Date/Time:<br>inquished by: Company: ARCADIS Date/Time: Date/Time: Company: ARCADIS Date/Time: Company: ARCADIS Date/Time: Company: ARCADIS Date/Time: Company: ARCADIS 2/24/23 ISOC<br>Date/Time: Date/Time: Company: ARCADIS 2/24/23 ISOC ARCEVED by: Company: ARCADIS Date/Time: Company: ARCADIS Date/Time: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: ARCADIS 2/24/23 ISOC ARCEVED by: Company: ARCADIS Date/Time: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: ARCADIS 2/24/23 ISOC ARCEVED by: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: ARCADIS 2/24/23 ISOC ARCEVED by: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: ARCADIS 2/24/23 ISOC ARCEVED by: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: ARCADIS 2/24/23 ISOC ARCEVED by: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: ARCADIS 2/24/23 ISOC<br>Muthod Date/Time: Company: Com   | MW-1235_06665  | 0,0010          | 11200          |        | 6        |          |      |      |          | 6      |              |        |         | N          | 6            | X     | ×       | X        | X      | ×      | X       | X     |                  |       |    |     |                       |
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| Image: Skin Irritant       Poison B       Unknown       Return to Client       Disposal By Lab       Archive For       Months         setial Instructions/QC Requirements & Comments:       mple Address:       12675       BREWSTER       Months         brint all results through Cadena at itomalia@cadenaco.com. Cadena #E203631       vel IV Reporting requested.       Months       Archive For       Months         inquished by:       SAM       SUKAPRIA       Company:       ARCADIS       Z/23/23       1500       Received by:       Company:       ARCADIS       Date/Firme:         inquished by:       Company:       Company:       ARCADIS       Z/24/23       1500       Received by:       Company:       ARCADIS       Date/Firme:         inquished by:       Company:       Company:       ARCADIS       Z/24/123       Received by:       Company:       ARCADIS       Date/Firme:         inquished by:       Company:       Company:       Date/Firme:       Received by:       Company:       Company:       Date/Firme:       Z/24/123       Received by:       Company:       Z/24/123       Io/Client         inquished by:       Mutatto       Company:       Date/Tirme:       Z/24/123       Received in Laboratory by:       Company:       Z/24/123       Io/Client  |  |                 |                |        |          |          |      | +    | -        | -      |              | +      | 1       |            | +            |       | _       |          | Áрс    | usno   | jou     | ieuo  | S960             | 181-0 | 54 |     |                       |
| Image: Skin Irritant       Poison B       Unknown       Return to Client       Disposal By Lab       Archive For       Months         setial Instructions/QC Requirements & Comments:       mple Address:       12675       BREWSTER       Months         brint all results through Cadena at itomalia@cadenaco.com. Cadena #E203631       vel IV Reporting requested.       Months       Archive For       Months         inquished by:       SAM       SUKAPRIA       Company:       ARCADIS       Z/23/23       1500       Received by:       Company:       ARCADIS       Date/Firme:         inquished by:       Company:       Company:       ARCADIS       Z/24/23       1500       Received by:       Company:       ARCADIS       Date/Firme:         inquished by:       Company:       Company:       ARCADIS       Z/24/123       Received by:       Company:       ARCADIS       Date/Firme:         inquished by:       Company:       Company:       Date/Firme:       Received by:       Company:       Company:       Date/Firme:       Z/24/123       Received by:       Company:       Z/24/123       Io/Client         inquished by:       Mutatto       Company:       Date/Tirme:       Z/24/123       Received in Laboratory by:       Company:       Z/24/123       Io/Client  |  |                 |                |        |          |          |      |      |          |        |              |        |         |            |              |       |         |          | IIII   |        |         |       | HUI              |       |    |     |                       |
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| Non-frazard       Flammable       Skin Irritant       Poison B       Unknown       Return to Client       Disposal By Lab       Archive For       Months         secial Instructions/QC Requirements & Comments:<br>mple Address:       12075       BREWSTER       Both all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631         vel IV Reporting requested.       inquished by:       Company:       ARCADIS       Date/Time:       Z/Z3/23       1500       ARCAUTS       Company:       ARCADIS       Date/Time:       Z/Z3/23       1500         inquished by:       Company:       Company:       ARCADIS       Z/Z4/23       1500       ARCAUTS       Company:       ARCADIS       Date/Time:       Z/Z4/23       1500         inquished by:       Company:       Company:       ARCADIS       Z/Z4/23       1500       Received by:       Company:       Date/Time:       Z/Z4/23       1500         inquished by:       Company:       Company:       ARCADIS       Z/Z4/23       1600       Received in Laboratory by:       Company:       Date/Time:       Z/Z4/23       1600         inquished by:       Company:       Company:       Date/Time:       Z/Z4/23       1600       Company:       Date/Time:       Z/Z4/23       1600         inquished by:       Company: <td>Possible Hazard Identification</td> <td></td> <td>L</td> <td></td> <td></td> <td></td> <td>_</td> <td>Si</td> <td>mple</td> <td>Disp</td> <td>osal (</td> <td>A fee</td> <td>may be</td> <td>: asses</td> <td>ised if</td> <td>samp</td> <td>les art</td> <td>e retai</td> <td>ned lo</td> <td>iger t</td> <td>han 1 i</td> <td>month</td> <td></td> <td></td> <td></td> <td></td> <td></td>  | Possible Hazard Identification   |                 | L              |        |          |          | _    | Si   | mple     | Disp   | osal (       | A fee  | may be  | : asses    | ised if      | samp  | les art | e retai  | ned lo | iger t | han 1 i | month |                  |       |    |     |                       |
| mple Address: 12075 BREWSTER<br>bmit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631<br>vel IV Reporting requested.<br>inquished by:<br>inquished by:<br>inquished by:<br>Mutton<br>Mutton<br>Company:<br>Company:<br>Company:<br>Company:<br>Company:<br>ARCADIS<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z3/<br>Date/Time:<br>Z/Z4/Z |  | tant 🗆 Poise    | on B           | Unk    | nown     | 1        |      |      | E Ro     | eturn  | to Cli       | ent    | -       | Dispo      | sal By       | Lab   |         | A        | rchive | For [  | _       |       |                  |       |    |     |                       |
| vel IV Reporting requested.<br>inquished by: SAM SUKARTA Company: ARCADIS 2/23/23 /500 Received by: ARCAUTS COUD STORAGE ARCADIS 2/23 /500<br>inquished by: Company: Company: ARCAUTS 2/24/23 Received by: Company: Company: Date/Time: Received by: Company: Company: Date/Time: Received in Laboratory by: Company: Company: Date/Time: Received in Laboratory by: Company: Company: Date/Time: Date/Time: Company: Company: Company: Date/Time: Company: Company: Company: Date/Time: Company: Co   | ample Address: 12075 BREWSTE   | ER              |                |        |          |          |      |      |          |        |              |        |         |            |              |       |         |          |        |        |         |       |                  |       |    |     |                       |
| inquished by: SAM SUKARTA Company: ARCADIS Date/Time: Z/23/23 /500 Received by: ARCADIS Coup STORAGE ARCADIS Date/Time: ARCADIS Date/Time: ARCADIS Z/24/23 /500 Received by: Company: Company: Date/Time: Company: Company: Date/Time: Company: Date/Time: Company: Date/Time: Company: Date/Time: Company: Date/Time: Company: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Company: Date/Time: Dat   |  | o.com. Cadena # | E203631        |        |          |          |      |      |          |        |              |        |         |            |              |       |         |          |        |        |         |       |                  |       |    |     |                       |
| SAM SUKARTA ARCADIS 2/23/23 1500 ARCAUTS COUD STORAGE ARCADIS 132/23 1500<br>inquished by: ARCAUTS 2/24/23 Bate/Time: Received in Laboratory by: Company: Date/Time: 2/24/23 10/1<br>inquished by: ARCAUTS 2/24/23 10/4 Received in Laboratory by: Develop EETNC 2/24/23 10/1<br>ARCAUTS 2/24/23 10/4 Received in Laboratory by: Develop EETNC 2/25-23 80  | elinguished by:  | Company:        | _              |        | Date     | /Time:   |      | _    |          | R      | eccive       | d by:  |         |            | _            | _     |         |          |        | Com    |         | _     |                  |       |    | lo. |                       |
| inquished by: Company: ARCIAUIS Date/Time: Z/24/23 Received by: Company: ARCIAUIS Z/24/23 Received in Laboratory by: Determine: Z/24/23 10/4 Received in Labora   | SAM SUKARIA  | A               | RCADI          | S      | 2        | 2/2      | 3123 | 15   | 20       |        | A            | RC     | AU      | IS         | (            | Col   | D :     | STC      | RA-    | E      | dity:   | A     | RCF              | JE    | 5  | Dat | 123/22 100            |
| inquished by: Mutto Company: Date/Time: Date/Time: 2/24/23/0141 Date/Time: Dete/Time: Date/Time: Da   | Relinquished by  | Company:        | HRCHUT         |        | Date     | /Time:   |      | 1    |          | R      | eceive       | d by:  | le      | 11         | A            | ~     | ~       |          |        |        | any:    | 2     | TA               | -     |    | Dat | e/Time:               |
|  | Belinquished by:   | Company:        | TA             |        |          |          | 4/2  | 311  | 514      |        | eceiv        | d in l | Laborat | tory b     | y:           | D     | -<br>Cr | 12       |        | Com    | EE      | T.    | NC               |       |    | _   |                       |
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#### Client Sample ID: TRIP BLANK\_155

#### Date Collected: 02/22/23 00:00

Date Received: 02/25/23 08:00

| Mathady SW946 9260D Valatile Organia Compounds h   | . COMP  |
|--|---------|
| Method: SW846 8260D - Volatile Organic Compounds b | y GC/WS |

| Analyte                  | Result    | Qualifier | RL      | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|-----------|---------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0       | U         | 1.0     | 0.49 | ug/L |   |          | 03/01/23 14:27 | 1       |
| cis-1,2-Dichloroethene   | 1.0       | U         | 1.0     | 0.46 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Tetrachloroethene        | 1.0       | U         | 1.0     | 0.44 | ug/L |   |          | 03/01/23 14:27 | 1       |
| trans-1,2-Dichloroethene | 1.0       | U         | 1.0     | 0.51 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Trichloroethene          | 1.0       | U         | 1.0     | 0.44 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Vinyl chloride           | 1.0       | U         | 1.0     | 0.45 | ug/L |   |          | 03/01/23 14:27 | 1       |
| Surrogate                | %Recovery | Qualifier | l imits |      |      |   | Pronarod | Analyzod       | Dil Fac |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |  |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|
| 1,2-Dichloroethane-d4 (Surr) | 84        |           | 62 - 137 |          | 03/01/23 14:27 | 1       |  |
| 4-Bromofluorobenzene (Surr)  | 78        |           | 56 - 136 |          | 03/01/23 14:27 | 1       |  |
| Toluene-d8 (Surr)            | 85        |           | 78 - 122 |          | 03/01/23 14:27 | 1       |  |
| Dibromofluoromethane (Surr)  | 85        |           | 73 - 120 |          | 03/01/23 14:27 | 1       |  |

#### Client Sample ID: MW-123S\_022223 Date Collected: 02/22/23 12:20 Date Received: 02/25/23 08:00

### Lab Sample ID: 240-180965-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane                  | 2.0       | U         | 2.0      | 0.86 | ug/L |   |          | 03/01/23 17:17 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1.2-Dichloroethane-d4 (Surr) | 82        |           | 66 - 120 |      |      |   |          | 03/01/23 17:17 | 1       |

| ,                        |             |           | =      | = =  | •    |          | /              |         |
|--------------------------|-------------|-----------|--------|------|------|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0         | U         | 1.0    | 0.49 | ug/L |          | 03/01/23 20:33 | 1       |
| cis-1,2-Dichloroethene   | 1.0         | U         | 1.0    | 0.46 | ug/L |          | 03/01/23 20:33 | 1       |
| Tetrachloroethene        | 1.0         | U         | 1.0    | 0.44 | ug/L |          | 03/01/23 20:33 | 1       |
| trans-1,2-Dichloroethene | 1.0         | U         | 1.0    | 0.51 | ug/L |          | 03/01/23 20:33 | 1       |
| Trichloroethene          | 1.0         | U         | 1.0    | 0.44 | ug/L |          | 03/01/23 20:33 | 1       |
| Vinyl chloride           | 2.2         |           | 1.0    | 0.45 | ug/L |          | 03/01/23 20:33 | 1       |
| 0                        | 0/ <b>D</b> | 0         | 1      |      |      | <b>D</b> | A              | D:// 5  |
| Surrogate                | %Recovery   | Qualifier | Limits |      |      | Prepared | Analyzed       | Dil Fac |

| Surrogate                    | %Recovery Qualifie | er Limits | Prepared A | naiyzed    | Dii Fac |
|------------------------------|--------------------|-----------|------------|------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108                | 62 - 137  | 03/0       | 1/23 20:33 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87                 | 56 - 136  | 03/0       | 1/23 20:33 | 1       |
| Toluene-d8 (Surr)            | 91                 | 78 - 122  | 03/0       | 1/23 20:33 | 1       |
| Dibromofluoromethane (Surr)  | 97                 | 73 - 120  | 03/0       | 1/23 20:33 | 1       |

#### Lab Sample ID: 240-180965-1 Matrix: Water