

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

Ford LTP - On Site

## JOB NUMBER

240-185016-1

# Eurofins Cleveland

## Job Notes

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

## Authorization



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# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Definitions/Glossary . . . . .   | 4  |
| Case Narrative . . . . .         | 5  |
| Method Summary . . . . .         | 6  |
| Sample Summary . . . . .         | 7  |
| Detection Summary . . . . .      | 8  |
| Client Sample Results . . . . .  | 9  |
| Surrogate Summary . . . . .      | 14 |
| QC Sample Results . . . . .      | 15 |
| QC Association Summary . . . . . | 18 |
| Lab Chronicle . . . . .          | 19 |
| Certification Summary . . . . .  | 20 |
| Chain of Custody . . . . .       | 21 |
| Receipt Checklists . . . . .     | 25 |



## Definitions/Glossary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.   |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |
| TNTC           | Too Numerous To Count   |

## Case Narrative

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

**Job ID: 240-185016-1**

**Laboratory: Eurofins Cleveland**

### Narrative

#### Job Narrative 240-185016-1

#### Receipt

The samples were received on 5/9/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0°C, 2.8°C, 3.3°C and 4.3°C

#### GC/MS VOA

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-49\_050523 (240-185016-3). Elevated reporting limits (RLs) are provided.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-23\_050523 (240-185016-5). Elevated reporting limits (RLs) are provided.

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

## Method Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

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

### Protocol References:

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

### Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

## Sample Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-185016-1  | TRIP BLANK_160   | Water  | 05/05/23 00:00 | 05/09/23 10:30 |
| 240-185016-2  | MW-20_050523     | Water  | 05/05/23 11:30 | 05/09/23 10:30 |
| 240-185016-3  | MW-49_050523     | Water  | 05/05/23 12:33 | 05/09/23 10:30 |
| 240-185016-4  | MW-21_050523     | Water  | 05/05/23 13:35 | 05/09/23 10:30 |
| 240-185016-5  | MW-23_050523     | Water  | 05/05/23 15:08 | 05/09/23 10:30 |

## Detection Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

### Client Sample ID: TRIP BLANK\_160

Lab Sample ID: 240-185016-1

No Detections.

### Client Sample ID: MW-20\_050523

Lab Sample ID: 240-185016-2

No Detections.

### Client Sample ID: MW-49\_050523

Lab Sample ID: 240-185016-3

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method    | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane              | 18     |           | 2.0 | 0.86 | ug/L | 1       |   | 8260D SIM | Total/NA  |
| cis-1,2-Dichloroethene   | 51000  |           | 200 | 92   | ug/L | 200     |   | 8260D     | Total/NA  |
| trans-1,2-Dichloroethene | 190    | J         | 200 | 100  | ug/L | 200     |   | 8260D     | Total/NA  |
| Vinyl chloride           | 11000  |           | 200 | 90   | ug/L | 200     |   | 8260D     | Total/NA  |

### Client Sample ID: MW-21\_050523

Lab Sample ID: 240-185016-4

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method    | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane              | 4.3    |           | 2.0 | 0.86 | ug/L | 1       |   | 8260D SIM | Total/NA  |
| cis-1,2-Dichloroethene   | 5.3    |           | 1.0 | 0.46 | ug/L | 1       |   | 8260D     | Total/NA  |
| trans-1,2-Dichloroethene | 1.7    |           | 1.0 | 0.51 | ug/L | 1       |   | 8260D     | Total/NA  |
| Vinyl chloride           | 13     |           | 1.0 | 0.45 | ug/L | 1       |   | 8260D     | Total/NA  |

### Client Sample ID: MW-23\_050523

Lab Sample ID: 240-185016-5

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method    | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane              | 1.0    | J         | 2.0 | 0.86 | ug/L | 1       |   | 8260D SIM | Total/NA  |
| cis-1,2-Dichloroethene   | 12000  |           | 50  | 23   | ug/L | 50      |   | 8260D     | Total/NA  |
| trans-1,2-Dichloroethene | 470    |           | 50  | 26   | ug/L | 50      |   | 8260D     | Total/NA  |
| Trichloroethene          | 1000   |           | 50  | 22   | ug/L | 50      |   | 8260D     | Total/NA  |
| Vinyl chloride           | 340    |           | 50  | 23   | ug/L | 50      |   | 8260D     | Total/NA  |

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

Client Sample ID: TRIP BLANK\_160

Lab Sample ID: 240-185016-1

Date Collected: 05/05/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 05/16/23 19:25 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/16/23 19:25 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/16/23 19:25 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 05/16/23 19:25 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/16/23 19:25 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/16/23 19:25 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 88        |           | 70 - 128 |          | 05/16/23 19:25 | 1       |
| Dibromofluoromethane (Surr)  | 91        |           | 77 - 124 |          | 05/16/23 19:25 | 1       |
| Toluene-d8 (Surr)            | 86        |           | 80 - 120 |          | 05/16/23 19:25 | 1       |
| 4-Bromofluorobenzene         | 85        |           | 76 - 120 |          | 05/16/23 19:25 | 1       |

# Client Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

Client Sample ID: MW-20\_050523

Lab Sample ID: 240-185016-2

Date Collected: 05/05/23 11:30

Matrix: Water

Date Received: 05/09/23 10:30

## Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte              | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane          | 2.0       | U         | 2.0      | 0.86 | ug/L |   |          | 05/18/23 11:51 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene | 98        |           | 75 - 133 |      |      |   |          | 05/18/23 11:51 | 1       |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene           | 1.0       | U         | 1.0      | 0.49 | ug/L |   |          | 05/17/23 00:09 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0      | 0.46 | ug/L |   |          | 05/17/23 00:09 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 05/17/23 00:09 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.51 | ug/L |   |          | 05/17/23 00:09 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 05/17/23 00:09 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.45 | ug/L |   |          | 05/17/23 00:09 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 70 - 128 |      |      |   |          | 05/17/23 00:09 | 1       |
| Dibromofluoromethane (Surr)  | 96        |           | 77 - 124 |      |      |   |          | 05/17/23 00:09 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 80 - 120 |      |      |   |          | 05/17/23 00:09 | 1       |
| 4-Bromofluorobenzene         | 87        |           | 76 - 120 |      |      |   |          | 05/17/23 00:09 | 1       |

# Client Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

Client Sample ID: MW-49\_050523

Lab Sample ID: 240-185016-3

Date Collected: 05/05/23 12:33

Matrix: Water

Date Received: 05/09/23 10:30

## Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte              | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane          | 18        |           | 2.0      | 0.86 | ug/L |   |          | 05/18/23 14:50 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene | 92        |           | 75 - 133 |      |      |   |          | 05/18/23 14:50 | 1       |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene           | 200       | U         | 200      | 98  | ug/L |   |          | 05/17/23 12:25 | 200     |
| cis-1,2-Dichloroethene       | 51000     |           | 200      | 92  | ug/L |   |          | 05/17/23 12:25 | 200     |
| Tetrachloroethene            | 200       | U         | 200      | 88  | ug/L |   |          | 05/17/23 12:25 | 200     |
| trans-1,2-Dichloroethene     | 190       | J         | 200      | 100 | ug/L |   |          | 05/17/23 12:25 | 200     |
| Trichloroethene              | 200       | U         | 200      | 88  | ug/L |   |          | 05/17/23 12:25 | 200     |
| Vinyl chloride               | 11000     |           | 200      | 90  | ug/L |   |          | 05/17/23 12:25 | 200     |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 89        |           | 70 - 128 |     |      |   |          | 05/17/23 12:25 | 200     |
| Dibromofluoromethane (Surr)  | 91        |           | 77 - 124 |     |      |   |          | 05/17/23 12:25 | 200     |
| Toluene-d8 (Surr)            | 86        |           | 80 - 120 |     |      |   |          | 05/17/23 12:25 | 200     |
| 4-Bromofluorobenzene         | 86        |           | 76 - 120 |     |      |   |          | 05/17/23 12:25 | 200     |

# Client Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

Client Sample ID: MW-21\_050523

Lab Sample ID: 240-185016-4

Date Collected: 05/05/23 13:35

Matrix: Water

Date Received: 05/09/23 10:30

## Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte              | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane          | 4.3       |           | 2.0      | 0.86 | ug/L |   |          | 05/18/23 15:12 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene | 92        |           | 75 - 133 |      |      |   |          | 05/18/23 15:12 | 1       |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene           | 1.0       | U         | 1.0      | 0.49 | ug/L |   |          | 05/17/23 12:05 | 1       |
| cis-1,2-Dichloroethene       | 5.3       |           | 1.0      | 0.46 | ug/L |   |          | 05/17/23 12:05 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 05/17/23 12:05 | 1       |
| trans-1,2-Dichloroethene     | 1.7       |           | 1.0      | 0.51 | ug/L |   |          | 05/17/23 12:05 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 05/17/23 12:05 | 1       |
| Vinyl chloride               | 13        |           | 1.0      | 0.45 | ug/L |   |          | 05/17/23 12:05 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 70 - 128 |      |      |   |          | 05/17/23 12:05 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 77 - 124 |      |      |   |          | 05/17/23 12:05 | 1       |
| Toluene-d8 (Surr)            | 86        |           | 80 - 120 |      |      |   |          | 05/17/23 12:05 | 1       |
| 4-Bromofluorobenzene         | 85        |           | 76 - 120 |      |      |   |          | 05/17/23 12:05 | 1       |

# Client Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

Client Sample ID: MW-23\_050523

Lab Sample ID: 240-185016-5

Date Collected: 05/05/23 15:08

Matrix: Water

Date Received: 05/09/23 10:30

## Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte              | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane          | 1.0       | J         | 2.0      | 0.86 | ug/L |   |          | 05/18/23 13:00 | 1       |
| Surrogate            | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene | 96        |           | 75 - 133 |      |      |   |          | 05/18/23 13:00 | 1       |

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene           | 50        | U         | 50       | 25  | ug/L |   |          | 05/17/23 01:10 | 50      |
| cis-1,2-Dichloroethene       | 12000     |           | 50       | 23  | ug/L |   |          | 05/17/23 01:10 | 50      |
| Tetrachloroethene            | 50        | U         | 50       | 22  | ug/L |   |          | 05/17/23 01:10 | 50      |
| trans-1,2-Dichloroethene     | 470       |           | 50       | 26  | ug/L |   |          | 05/17/23 01:10 | 50      |
| Trichloroethene              | 1000      |           | 50       | 22  | ug/L |   |          | 05/17/23 01:10 | 50      |
| Vinyl chloride               | 340       |           | 50       | 23  | ug/L |   |          | 05/17/23 01:10 | 50      |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 70 - 128 |     |      |   |          | 05/17/23 01:10 | 50      |
| Dibromofluoromethane (Surr)  | 96        |           | 77 - 124 |     |      |   |          | 05/17/23 01:10 | 50      |
| Toluene-d8 (Surr)            | 87        |           | 80 - 120 |     |      |   |          | 05/17/23 01:10 | 50      |
| 4-Bromofluorobenzene         | 88        |           | 76 - 120 |     |      |   |          | 05/17/23 01:10 | 50      |

# Surrogate Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

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

Matrix: Water

Prep Type: Total/NA

|                                    |                        | Percent Surrogate Recovery (Acceptance Limits) |          |          |          |
|------------------------------------|------------------------|--|----------|----------|----------|
| Lab Sample ID                      | Client Sample ID       | DCA  | DBFM     | TOL      | BFB      |
|                                    |                        | (70-128)                                       | (77-124) | (80-120) | (76-120) |
| 240-185016-1                       | TRIP BLANK_160         | 88   | 91       | 86       | 85       |
| 240-185016-2                       | MW-20_050523           | 100  | 96       | 85       | 87       |
| 240-185016-3                       | MW-49_050523           | 89   | 91       | 86       | 86       |
| 240-185016-4                       | MW-21_050523           | 97   | 97       | 86       | 85       |
| 240-185016-5                       | MW-23_050523           | 94   | 96       | 87       | 88       |
| LCS 460-909502/3                   | Lab Control Sample     | 87   | 89       | 91       | 100      |
| LCS 460-909656/5                   | Lab Control Sample     | 94   | 90       | 88       | 96       |
| LCSD 460-909502/4                  | Lab Control Sample Dup | 87   | 88       | 89       | 106      |
| LCSD 460-909656/6                  | Lab Control Sample Dup | 91   | 89       | 96       | 101      |
| MB 460-909502/8                    | Method Blank           | 89   | 91       | 87       | 88       |
| MB 460-909656/10                   | Method Blank           | 92   | 94       | 86       | 86       |
| <b>Surrogate Legend</b>            |                        |  |          |          |          |
| DCA = 1,2-Dichloroethane-d4 (Surr) |                        |  |          |          |          |
| DBFM = Dibromofluoromethane (Surr) |                        |  |          |          |          |
| TOL = Toluene-d8 (Surr)            |                        |  |          |          |          |
| BFB = 4-Bromofluorobenzene         |                        |  |          |          |          |

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

Matrix: Water

Prep Type: Total/NA

|                            |                        | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |  |  |
|----------------------------|------------------------|--|--|--|--|--|--|
| Lab Sample ID              | Client Sample ID       | BFB  |  |  |  |  |  |
|                            |                        | (75-133)                                       |  |  |  |  |  |
| 240-185016-2               | MW-20_050523           | 98   |  |  |  |  |  |
| 240-185016-3               | MW-49_050523           | 92   |  |  |  |  |  |
| 240-185016-4               | MW-21_050523           | 92   |  |  |  |  |  |
| 240-185016-5               | MW-23_050523           | 96   |  |  |  |  |  |
| LCS 460-909931/4           | Lab Control Sample     | 94   |  |  |  |  |  |
| LCSD 460-909931/12         | Lab Control Sample Dup | 96   |  |  |  |  |  |
| MB 460-909931/7            | Method Blank           | 96   |  |  |  |  |  |
| <b>Surrogate Legend</b>    |                        |  |  |  |  |  |  |
| BFB = 4-Bromofluorobenzene |                        |  |  |  |  |  |  |

# QC Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

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

Lab Sample ID: MB 460-909502/8

Matrix: Water

Analysis Batch: 909502

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0       | U            | 1.0 | 0.49 | ug/L |   |          | 05/16/23 19:04 | 1       |
| cis-1,2-Dichloroethene   | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 05/16/23 19:04 | 1       |
| Tetrachloroethene        | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/16/23 19:04 | 1       |
| trans-1,2-Dichloroethene | 1.0       | U            | 1.0 | 0.51 | ug/L |   |          | 05/16/23 19:04 | 1       |
| Trichloroethene          | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/16/23 19:04 | 1       |
| Vinyl chloride           | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/16/23 19:04 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 89           |              | 70 - 128 |          | 05/16/23 19:04 | 1       |
| Dibromofluoromethane (Surr)  | 91           |              | 77 - 124 |          | 05/16/23 19:04 | 1       |
| Toluene-d8 (Surr)            | 87           |              | 80 - 120 |          | 05/16/23 19:04 | 1       |
| 4-Bromofluorobenzene         | 88           |              | 76 - 120 |          | 05/16/23 19:04 | 1       |

Lab Sample ID: LCS 460-909502/3

Matrix: Water

Analysis Batch: 909502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloroethene       | 20.0        | 16.3       |               | ug/L |   | 82   | 68 - 133    |
| cis-1,2-Dichloroethene   | 20.0        | 18.2       |               | ug/L |   | 91   | 78 - 121    |
| Tetrachloroethene        | 20.0        | 20.5       |               | ug/L |   | 102  | 70 - 127    |
| trans-1,2-Dichloroethene | 20.0        | 17.9       |               | ug/L |   | 89   | 74 - 126    |
| Trichloroethene          | 20.0        | 18.6       |               | ug/L |   | 93   | 71 - 121    |
| Vinyl chloride           | 20.0        | 18.5       |               | ug/L |   | 92   | 55 - 144    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 87            |               | 70 - 128 |
| Dibromofluoromethane (Surr)  | 89            |               | 77 - 124 |
| Toluene-d8 (Surr)            | 91            |               | 80 - 120 |
| 4-Bromofluorobenzene         | 100           |               | 76 - 120 |

Lab Sample ID: LCSD 460-909502/4

Matrix: Water

Analysis Batch: 909502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethene       | 20.0        | 17.5        |                | ug/L |   | 88   | 68 - 133    | 7   | 30        |
| cis-1,2-Dichloroethene   | 20.0        | 17.5        |                | ug/L |   | 88   | 78 - 121    | 3   | 30        |
| Tetrachloroethene        | 20.0        | 20.5        |                | ug/L |   | 103  | 70 - 127    | 0   | 30        |
| trans-1,2-Dichloroethene | 20.0        | 17.6        |                | ug/L |   | 88   | 74 - 126    | 2   | 30        |
| Trichloroethene          | 20.0        | 18.5        |                | ug/L |   | 92   | 71 - 121    | 1   | 30        |
| Vinyl chloride           | 20.0        | 19.0        |                | ug/L |   | 95   | 55 - 144    | 3   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 87             |                | 70 - 128 |
| Dibromofluoromethane (Surr)  | 88             |                | 77 - 124 |
| Toluene-d8 (Surr)            | 89             |                | 80 - 120 |

Eurofins Cleveland

# QC Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

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

Lab Sample ID: LCSD 460-909502/4

Matrix: Water

Analysis Batch: 909502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

|                      | LCSD      | LCSD      |          |
|----------------------|-----------|-----------|----------|
| Surrogate            | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene | 106       |           | 76 - 120 |

Lab Sample ID: MB 460-909656/10

Matrix: Water

Analysis Batch: 909656

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                  | MB     | MB        | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
|                          | Result | Qualifier |     |      |      |   |          |                |         |
| 1,1-Dichloroethene       | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 05/17/23 09:21 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/17/23 09:21 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/17/23 09:21 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 05/17/23 09:21 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/17/23 09:21 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/17/23 09:21 | 1       |

|                              | MB        | MB        |          |          |                |         |  |  |  |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|--|--|
| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |  |  |  |
| 1,2-Dichloroethane-d4 (Surr) | 92        |           | 70 - 128 |          | 05/17/23 09:21 | 1       |  |  |  |
| Dibromofluoromethane (Surr)  | 94        |           | 77 - 124 |          | 05/17/23 09:21 | 1       |  |  |  |
| Toluene-d8 (Surr)            | 86        |           | 80 - 120 |          | 05/17/23 09:21 | 1       |  |  |  |
| 4-Bromofluorobenzene         | 86        |           | 76 - 120 |          | 05/17/23 09:21 | 1       |  |  |  |

Lab Sample ID: LCS 460-909656/5

Matrix: Water

Analysis Batch: 909656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike | LCS    | LCS       | Unit | D | %Rec   | %Rec     |
|--------------------------|-------|--------|-----------|------|---|--------|----------|
|                          | Added | Result | Qualifier |      |   | Limits |          |
| 1,1-Dichloroethene       | 20.0  | 22.4   |           | ug/L |   | 112    | 68 - 133 |
| cis-1,2-Dichloroethene   | 20.0  | 21.6   |           | ug/L |   | 108    | 78 - 121 |
| Tetrachloroethene        | 20.0  | 25.5   |           | ug/L |   | 127    | 70 - 127 |
| trans-1,2-Dichloroethene | 20.0  | 22.1   |           | ug/L |   | 111    | 74 - 126 |
| Trichloroethene          | 20.0  | 20.9   |           | ug/L |   | 104    | 71 - 121 |
| Vinyl chloride           | 20.0  | 23.9   |           | ug/L |   | 119    | 55 - 144 |

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 70 - 128 |
| Dibromofluoromethane (Surr)  | 90        |           | 77 - 124 |
| Toluene-d8 (Surr)            | 88        |           | 80 - 120 |
| 4-Bromofluorobenzene         | 96        |           | 76 - 120 |

Lab Sample ID: LCSD 460-909656/6

Matrix: Water

Analysis Batch: 909656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                  | Spike | LCSD   | LCSD      | Unit | D | %Rec   | %Rec     | RPD   | RPD |
|--------------------------|-------|--------|-----------|------|---|--------|----------|-------|-----|
|                          | Added | Result | Qualifier |      |   | Limits |          | Limit |     |
| 1,1-Dichloroethene       | 20.0  | 19.6   |           | ug/L |   | 98     | 68 - 133 | 13    | 30  |
| cis-1,2-Dichloroethene   | 20.0  | 18.8   |           | ug/L |   | 94     | 78 - 121 | 14    | 30  |
| Tetrachloroethene        | 20.0  | 22.3   |           | ug/L |   | 112    | 70 - 127 | 13    | 30  |
| trans-1,2-Dichloroethene | 20.0  | 18.8   |           | ug/L |   | 94     | 74 - 126 | 16    | 30  |
| Trichloroethene          | 20.0  | 18.7   |           | ug/L |   | 94     | 71 - 121 | 11    | 30  |

Eurofins Cleveland



# QC Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

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

Lab Sample ID: LCSD 460-909656/6

Matrix: Water

Analysis Batch: 909656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte        | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Vinyl chloride | 20.0        | 20.8        |                | ug/L |   | 104  | 55 - 144    | 14  | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 91             |                | 70 - 128 |
| Dibromofluoromethane (Surr)  | 89             |                | 77 - 124 |
| Toluene-d8 (Surr)            | 96             |                | 80 - 120 |
| 4-Bromofluorobenzene         | 101            |                | 76 - 120 |

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

Lab Sample ID: MB 460-909931/7

Matrix: Water

Analysis Batch: 909931

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0       | U            | 2.0 | 0.86 | ug/L |   |          | 05/18/23 08:26 | 1       |

| Surrogate            | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|----------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 96           |              | 75 - 133 |          | 05/18/23 08:26 | 1       |

Lab Sample ID: LCS 460-909931/4

Matrix: Water

Analysis Batch: 909931

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------|-------------|------------|---------------|------|---|------|-------------|
| 1,4-Dioxane | 5.00        | 4.90       |               | ug/L |   | 98   | 57 - 124    |

| Surrogate            | LCS %Recovery | LCS Qualifier | Limits   |
|----------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene | 94            |               | 75 - 133 |

Lab Sample ID: LCSD 460-909931/12

Matrix: Water

Analysis Batch: 909931

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1,4-Dioxane | 5.00        | 4.91        |                | ug/L |   | 98   | 57 - 124    | 0   | 30        |

| Surrogate            | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene | 96             |                | 75 - 133 |

## QC Association Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

### GC/MS VOA

#### Analysis Batch: 909502

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-185016-1      | TRIP BLANK_160         | Total/NA  | Water  | 8260D  |            |
| 240-185016-2      | MW-20_050523           | Total/NA  | Water  | 8260D  |            |
| 240-185016-5      | MW-23_050523           | Total/NA  | Water  | 8260D  |            |
| MB 460-909502/8   | Method Blank           | Total/NA  | Water  | 8260D  |            |
| LCS 460-909502/3  | Lab Control Sample     | Total/NA  | Water  | 8260D  |            |
| LCSD 460-909502/4 | Lab Control Sample Dup | Total/NA  | Water  | 8260D  |            |

#### Analysis Batch: 909656

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-185016-3      | MW-49_050523           | Total/NA  | Water  | 8260D  |            |
| 240-185016-4      | MW-21_050523           | Total/NA  | Water  | 8260D  |            |
| MB 460-909656/10  | Method Blank           | Total/NA  | Water  | 8260D  |            |
| LCS 460-909656/5  | Lab Control Sample     | Total/NA  | Water  | 8260D  |            |
| LCSD 460-909656/6 | Lab Control Sample Dup | Total/NA  | Water  | 8260D  |            |

#### Analysis Batch: 909931

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-185016-2       | MW-20_050523           | Total/NA  | Water  | 8260D SIM |            |
| 240-185016-3       | MW-49_050523           | Total/NA  | Water  | 8260D SIM |            |
| 240-185016-4       | MW-21_050523           | Total/NA  | Water  | 8260D SIM |            |
| 240-185016-5       | MW-23_050523           | Total/NA  | Water  | 8260D SIM |            |
| MB 460-909931/7    | Method Blank           | Total/NA  | Water  | 8260D SIM |            |
| LCS 460-909931/4   | Lab Control Sample     | Total/NA  | Water  | 8260D SIM |            |
| LCSD 460-909931/12 | Lab Control Sample Dup | Total/NA  | Water  | 8260D SIM |            |

# Lab Chronicle

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-185016-1

**Client Sample ID: TRIP BLANK\_160**

**Lab Sample ID: 240-185016-1**

Date Collected: 05/05/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 909502       | SZD     | EET EDI | 05/16/23 19:25       |

**Client Sample ID: MW-20\_050523**

**Lab Sample ID: 240-185016-2**

Date Collected: 05/05/23 11:30

Matrix: Water

Date Received: 05/09/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 909502       | SZD     | EET EDI | 05/17/23 00:09       |
| Total/NA  | Analysis   | 8260D SIM    |     | 1               | 909931       | SZD     | EET EDI | 05/18/23 11:51       |

**Client Sample ID: MW-49\_050523**

**Lab Sample ID: 240-185016-3**

Date Collected: 05/05/23 12:33

Matrix: Water

Date Received: 05/09/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 200             | 909656       | CJM     | EET EDI | 05/17/23 12:25       |
| Total/NA  | Analysis   | 8260D SIM    |     | 1               | 909931       | SZD     | EET EDI | 05/18/23 14:50       |

**Client Sample ID: MW-21\_050523**

**Lab Sample ID: 240-185016-4**

Date Collected: 05/05/23 13:35

Matrix: Water

Date Received: 05/09/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 909656       | CJM     | EET EDI | 05/17/23 12:05       |
| Total/NA  | Analysis   | 8260D SIM    |     | 1               | 909931       | SZD     | EET EDI | 05/18/23 15:12       |

**Client Sample ID: MW-23\_050523**

**Lab Sample ID: 240-185016-5**

Date Collected: 05/05/23 15:08

Matrix: Water

Date Received: 05/09/23 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 50              | 909502       | SZD     | EET EDI | 05/17/23 01:10       |
| Total/NA  | Analysis   | 8260D SIM    |     | 1               | 909931       | SZD     | EET EDI | 05/18/23 13:00       |

## Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

## Accreditation/Certification Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site


Job ID: 240-185016-1

### Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program             | Identification Number | Expiration Date |
|-----------------------------------|---------------------|-----------------------|-----------------|
| Connecticut                       | State               | PH-0818               | 01-30-24        |
| DE Haz. Subst. Cleanup Act (HSCA) | State               | N/A                   | 01-01-24        |
| Georgia                           | State               | 12028 (NJ)            | 06-30-23        |
| Massachusetts                     | State               | M-NJ312               | 06-30-23        |
| New Jersey                        | NELAP               | 12028                 | 06-30-23        |
| New York                          | NELAP               | 11452                 | 04-01-24        |
| Pennsylvania                      | NELAP               | 68-00522              | 03-01-24        |
| Rhode Island                      | State               | LAO00376              | 12-30-23        |
| USDA                              | US Federal Programs | P330-20-00244         | 11-03-23        |

|  |  |  |  |   |  |  |  |   |  |  |  |  |  |  |  |  |  |
|--|--|--|--|---|--|--|--|---|--|--|--|--|--|--|--|--|--|
| <b>Client Contact</b><br>Company Name: Arcadis<br>Address: 26550 Cabot Drive, Suite 500<br>City/State/Zip: Novi, MI, 48377<br>Phone: 248-994-2240<br>Project Name: Ford LTP On-Site<br>Project Number: 30167538-401.03<br>PO # 30167538-401.03 |  | <b>Regulatory program:</b><br><input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other  |  | <b>Client Project Manager:</b> Kris Hinsky<br>Telephone: 248-994-2240<br>Email: kris@fordhinsky.com |  | <b>Site Contact:</b> Christina Weaver<br>Telephone: 248-994-2240             |  | <b>Lab Contact:</b> Mike DelMontico<br>Telephone: 330-497-9396  |  | <b>TestAmerica Laboratories, Inc.</b><br>COC No:           |  |  |  |  |  |  |  |
| <b>Sample Identification</b><br>TRIP BLANK_160<br>MW-20_050523<br>MW-49_050523<br>MW-21_050523<br>MW-175_050523<br>MW-23_050523  |  | <b>Sample Date</b><br>5/5/23<br>5/5/23<br>5/5/23<br>5/5/23<br>5/5/23   |  | <b>Sample Time</b><br>---<br>1130<br>1233<br>1335<br>---<br>1508                                    |  | <b>Matrix</b><br>Air: 1<br>Aqueous: 6<br>Sediment: 6<br>Solid: 6<br>Other: 6 |  | <b>Containers &amp; Preservatives</b><br>H2SO4: 1<br>HNO3: 6<br>HCl: 6<br>NaOH: 6<br>NaOH: 6<br>Urea: 6<br>Other: 6 |  | <b>Filtered Sample (Y/N)</b><br>NG<br>NG<br>NG<br>NG<br>NG |  | <b>Composite C / Grab G</b><br>X<br>X<br>X<br>X<br>X |  | <b>Analyses</b><br>Cis-1,2-DCE 8260B: X<br>Trans-1,2-DCE 8260B: X<br>PCE 8260B: X<br>TCE 8260B: X<br>Vinyl Chloride 8260B: X<br>1,4-Dioxane 8260B SIM: X |  | <b>Sample Specific Notes / Special Instructions:</b><br>1 Trip Blank<br>3 VOAs for 8260B<br>3 VOAs for 8260B SIM<br>11<br>11<br>11<br>11 |  |
|  |  | <b>Analysis Turnaround Time</b><br>TAT if different from below:<br>10 day<br><input type="checkbox"/> 3 weeks<br><input checked="" type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |  | <b>Sampler Name:</b><br>Samantha Szpacnik   |  | <b>Method of Shipment/Carrier:</b><br>Shipping/Tracking No:                  |  | <b>Job/SDG No:</b>  |  | <b>Walk-in client</b><br><b>Lab sampling</b>               |  | <b>For lab use only</b><br>COCs                      |  |  |  |  |  |



240-185016 Chain of Custody

|   |  |   |  |
|---|--|---|--|
| <b>Possible Hazard Identification</b><br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |  | <b>Sample Disposal</b> (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |
|---|--|---|--|

**ONSITE**

|  |  |  |  |
|--|--|--|--|
| <b>Requisitioned by:</b><br>Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728<br>Level IV Reporting requested. |  | <b>Company:</b> Arcadis<br><b>Date/Time:</b> 5/5/23 1558<br><b>Received by:</b> J. H. H. |  |
| <b>Requisitioned by:</b><br>Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728<br>Level IV Reporting requested. |  | <b>Company:</b> Arcadis<br><b>Date/Time:</b> 5/5/23 1050<br><b>Received by:</b> J. H. H. |  |
| <b>Requisitioned by:</b><br>Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728<br>Level IV Reporting requested. |  | <b>Company:</b> Arcadis<br><b>Date/Time:</b> 5/5/23 1050<br><b>Received by:</b> J. H. H. |  |

**Eurofins - Canton Sample Receipt Form/Narrative**  
**Barberton Facility**

Login # : 185016

Client Arcadis Site Name \_\_\_\_\_

Cooler unpacked by:

Cooler Received on 05-09-23 Opened on 05-09-23

Leah M. Smith

FedEx: 1<sup>st</sup> Grd ☒ UPS FAS Clipper Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

Eurofins Cooler # EC Foam 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 # 17 (CF 10.1 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ Yes No

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No

-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp (YN)?

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC208070

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials? Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 62112 Yes No

17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not  
checked for pH by  
Receiving:

VOAs  
Oil and Grease  
TOC

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: \_\_\_\_\_



| Eurofins - Canton Sample Receipt Multiple Cooler Form |        |     |       |                      |                     |                      |                     |          |         |
|---|--------|-----|-------|----------------------|---------------------|----------------------|---------------------|----------|---------|
| Cooler Description<br>(Circle)                        |        |     |       | IR Gun #<br>(Circle) | Observed<br>Temp °C | Corrected<br>Temp °C | Coolant<br>(Circle) |          |         |
| EC  | Client | Box | Other | IR GUN #: _____      | 2.7                 | 2.8                  | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      | 3.2                 | 3.3                  | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      | 1.9                 | 2.0                  | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      | 4.2                 | 4.3                  | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      | Water               | None     |         |
| EC  | Client | Box | Other | IR GUN #: _____      |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|   |        |     |       |                      |                     |                      |                     |          |         |

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

## Eurofins Cleveland

180 S. Van Buren Avenue  
Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

## Chain of Custody Record



Environment Testing

|  |        |   |             |                                     |  |  |                                     |                 |                            |                            |
|--|--------|---|-------------|-------------------------------------|--|--|-------------------------------------|-----------------|----------------------------|----------------------------|
| <b>Client Information (Sub Contract Lab)</b>   |        | Lab PM: DelMonico, Michael                  |             | Carrier Tracking No(s):             |  | COC No: 240-167897.1   |                                     |                 |                            |                            |
| Client Contact: Edison   |        | Phone:                                      |             | State of Origin: Michigan           |  | Page: Page 1 of 1  |                                     |                 |                            |                            |
| Company: Eurofins Environment Testing Northeast,   |        | E-Mail: Michael.DelMonico@et.eurofinsus.com |             | Accreditations Required (See note): |  | Job #: 240-185016-1  |                                     |                 |                            |                            |
| Address: 777 New Durham Road,  |        | Due Date Requested: 5/22/2023               |             | Analysis Requested                  |  | Preservation Codes:  |                                     |                 |                            |                            |
| City: Edison   |        | TAT Requested (days):                       |             |                                     |  | A - HCL<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Y - Trizma<br>Z - other (Specify) |                                     |                 |                            |                            |
| State, Zip: NJ, 08817  |        | PO #:                                       |             |                                     |  |  |                                     |                 |                            |                            |
| Phone: 732-549-3900(Tel) 732-549-3679(Fax)   |        | WO #:                                       |             |                                     |  |  |                                     |                 |                            |                            |
| Email:   |        | Project #:                                  |             |                                     |  |  |                                     |                 |                            |                            |
| Project Name: Ford LTP - On Site   |        | 24015353                                    |             |                                     |  |  |                                     |                 |                            |                            |
| Site:  |        | SSOW#:                                      |             |                                     |  |  |                                     |                 |                            |                            |
| Sample Identification - Client ID (Lab ID)   |        | Sample Date                                 | Sample Time | Sample Type (C=comp, G=grab)        | Matrix (W=water, S=solid, O=oil, B=biomass, A=air) | Field Filtered Sample (Yes or No)  | 8260D_5030C (MOD) VOCs (Short List) | 8260D_SIM/5030C | Total Number of containers | Special Instructions/Note: |
| TRIP BLANK_160 (240-185016-1)  | 5/5/23 | Eastern                                     | Water       |                                     |  |  | X                                   |                 | 1                          |                            |
| MW-20_050523 (240-185016-2)  | 5/5/23 | 11:30 Eastern                               | Water       |                                     |  |  | X                                   |                 | 6                          |                            |
| MW-49_050523 (240-185016-3)  | 5/5/23 | 12:33 Eastern                               | Water       |                                     |  |  | X                                   |                 | 6                          |                            |
| MW-21_050523 (240-185016-4)  | 5/5/23 | 13:35 Eastern                               | Water       |                                     |  |  | X                                   |                 | 6                          |                            |
| MW-23_050523 (240-185016-5)  | 5/5/23 | 15:08 Eastern                               | Water       |                                     |  |  | X                                   |                 | 6                          |                            |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC. |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| <b>Possible Hazard Identification</b>  |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Unconfirmed  |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Deliverable Requested: I, II, III, IV, Other (specify)   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Primary Deliverable Rank: 2  |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Empty Kit Relinquished by:   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Date: 5/10/23 1050   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Relinquished by: [Signature]   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Date/Time: 5/11/23 1030  |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Company: EETAL   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Relinquished by:   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Date/Time:   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Company:   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Relinquished by:   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Date/Time:   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Company:   |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Custody Seals Intact: 10 CS  |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Custody Seal No.:  |        |   |             |                                     |  |  |                                     |                 |                            |                            |
| Cooler Temperature(s) °C and Other Remarks: 1.4/1.4, 2.7/2.7 °C  |        |   |             |                                     |  |  |                                     |                 |                            |                            |



## Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 240-185016-1

Login Number: 185016

List Number: 2

Creator: Armbruster, Chris

List Source: Eurofins Edison

List Creation: 05/11/23 01:12 PM

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

# DATA VERIFICATION REPORT



May 24, 2023

Kris Hinskey  
Arcadis of Michigan  
28550 Cabot Drive  
Suite 500  
Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE -Soil Gas, Ground water and Soil

Project number: 30167538.401.03- onsite groundwater

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 185016-1

Sample date: 2023-05-05

Report received by CADENA: 2023-05-23

Initial Data Verification completed by CADENA: 2023-05-24

Number of Samples:5

Sample Matrices:Water and trip blank

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, LCS/LCD RPD, 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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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 <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

## CADENA Valid Qualifiers

| Valid Qualifiers | Description  |
|------------------|--|
| <                | Less than the reported concentration.  |
| >                | Greater than the reported concentration.   |
| B                | 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 contaminants) 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. |
| E                | 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 contaminants) 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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 185016-1

|                          |          | Sample Name: TRIP BLANK_160 |       |       |       | MW-20_050523 |       |       |       | MW-49_050523 |       |       |       | MW-21_050523 |       |       |       | MW-23_050523 |       |       |       |
|--------------------------|----------|-----------------------------|-------|-------|-------|--------------|-------|-------|-------|--------------|-------|-------|-------|--------------|-------|-------|-------|--------------|-------|-------|-------|
|                          |          | Lab Sample ID: 2401850161   |       |       |       | 2401850162   |       |       |       | 2401850163   |       |       |       | 2401850164   |       |       |       | 2401850165   |       |       |       |
|                          |          | Sample Date: 5/5/2023       |       |       |       | 5/5/2023     |       |       |       | 5/5/2023     |       |       |       | 5/5/2023     |       |       |       | 5/5/2023     |       |       |       |
| Analyte                  | Cas No.  | Report                      |       | Units | Valid | Report       |       | Units | Valid | Report       |       | Units | Valid | Report       |       | Units | Valid | Report       |       | Units | Valid |
|                          |          | Result                      | Limit |       |       | Result       | Limit |       |       | Result       | Limit |       |       | Result       | Limit |       |       | Result       | Limit |       |       |
| GC/MS VOC                |          |                             |       |       |       |              |       |       |       |              |       |       |       |              |       |       |       |              |       |       |       |
| OSW-8260D                |          |                             |       |       |       |              |       |       |       |              |       |       |       |              |       |       |       |              |       |       |       |
| 1,1-Dichloroethene       | 75-35-4  | ND                          | 1.0   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | ND           | 200   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | ND           | 50    | ug/l  | ---   |
| cis-1,2-Dichloroethene   | 156-59-2 | ND                          | 1.0   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | 51000        | 200   | ug/l  | ---   | 5.3          | 1.0   | ug/l  | ---   | 12000        | 50    | ug/l  | ---   |
| Tetrachloroethene        | 127-18-4 | ND                          | 1.0   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | ND           | 200   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | ND           | 50    | ug/l  | ---   |
| trans-1,2-Dichloroethene | 156-60-5 | ND                          | 1.0   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | 190          | 200   | ug/l  | J     | 1.7          | 1.0   | ug/l  | ---   | 470          | 50    | ug/l  | ---   |
| Trichloroethene          | 79-01-6  | ND                          | 1.0   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | ND           | 200   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | 1000         | 50    | ug/l  | ---   |
| Vinyl chloride           | 75-01-4  | ND                          | 1.0   | ug/l  | ---   | ND           | 1.0   | ug/l  | ---   | 11000        | 200   | ug/l  | ---   | 13           | 1.0   | ug/l  | ---   | 340          | 50    | ug/l  | ---   |
| OSW-8260DSIM             |          |                             |       |       |       |              |       |       |       |              |       |       |       |              |       |       |       |              |       |       |       |
| 1,4-Dioxane              | 123-91-1 |                             |       |       |       | ND           | 2.0   | ug/l  | ---   | 18           | 2.0   | ug/l  | ---   | 4.3          | 2.0   | ug/l  | ---   | 1.0          | 2.0   | ug/l  | J     |