PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 5/29/2024 8:04:39 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204754-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-204754-1

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 | 12 |
| QC Sample Results | 13 |
| QC Association Summary | 17 |
| Lab Chronicle | 18 |
| Certification Summary | 19 |
| Chain of Custody | 20 |

Definitions/Glossary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204754-1

Qualifiers

| GC/MS VOA | |
|-----------|---|
| Qualifier | Qualifier Description |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| E | Result exceeded calibration range. |
| 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

MDL

ML MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC RER

RL RPD

TEF

TEQ

TNTC

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present
Practical Quantitation Limit

Presumptive Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| n | 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) |

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Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP

Job ID: 240-204754-1 Eurofins Cleveland

Job Narrative 240-204754-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/18/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

GC/MS VOA

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

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Job ID: 240-204754-1

Page 5 of 22 5/29/2024

Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204754-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204754-1

Lab Sample ID Client Sample ID Matrix Collected Received 240-204754-1 TRIP BLANK_61 Water 05/15/24 00:00 05/18/24 08:00 MW-193S_051524 240-204754-2 Water 05/15/24 09:35 05/18/24 08:00 240-204754-3 MW-89S_051524 Water 05/15/24 10:55 05/18/24 08:00

3

4

9

4 4

19

13

12

Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204754-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_61 Lab Sample ID: 240-204754-1

No Detections.

Client Sample ID: MW-193S_051524 Lab Sample ID: 240-204754-2

No Detections.

| Analyte | Result Qualifi | ier RL | MDL | Unit | Dil Fac | D | Method | Prep Type | |
|--------------------------|----------------|--------|------|------|---------|---|--------|-----------|---|
| cis-1,2-Dichloroethene | 4.2 | 1.0 | 0.46 | ug/L | 1 | | 8260D | Total/NA | _ |
| trans-1,2-Dichloroethene | 0.56 J | 1.0 | 0.51 | ug/L | 1 | | 8260D | Total/NA | |

4754.4

5

4

5

_

1

9

10

12

13

14

Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_61

Date Received: 05/18/24 08:00

Lab Sample ID: 240-204754-1 Date Collected: 05/15/24 00:00

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/25/24 12:43 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/25/24 12:43 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 12:43 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/25/24 12:43 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 12:43 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/25/24 12:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | | - | | 05/25/24 12:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 91 | | 56 ₋ 136 | | | | | 05/25/24 12:43 | 1 |
| Toluene-d8 (Surr) | 96 | | 78 - 122 | | | | | 05/25/24 12:43 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | | | | 05/25/24 12:43 | 1 |

Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

Date Received: 05/18/24 08:00

Client Sample ID: MW-193S_051524

Lab Sample ID: 240-204754-2 Date Collected: 05/15/24 09:35

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 | | | 05/24/24 02:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 68 - 127 | | | - | | 05/24/24 02:45 | 1 |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/25/24 14:38 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/25/24 14:38 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:38 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/25/24 14:38 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:38 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/25/24 14:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 62 - 137 | | | - | | 05/25/24 14:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 56 - 136 | | | | | 05/25/24 14:38 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | | | | 05/25/24 14:38 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | | | | 05/25/24 14:38 | 1 |

5/29/2024

Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-89S_051524

Date Collected: 05/15/24 10:55

88

95

Lab Sample ID: 240-204754-3 **Matrix: Water**

05/25/24 14:33

05/25/24 14:33

Date Received: 05/18/24 08:00

| Method: SW846 8260D SIM - V | _ | • | • | | | | | | |
|------------------------------|-----------------|------------|---------------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 05/24/24 03:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 68 - 127 | | | - | | 05/24/24 03:09 | 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 | | | 05/25/24 14:33 | 1 |
| cis-1,2-Dichloroethene | 4.2 | | 1.0 | 0.46 | ug/L | | | 05/25/24 14:33 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:33 | 1 |
| trans-1,2-Dichloroethene | 0.56 | J | 1.0 | 0.51 | ug/L | | | 05/25/24 14:33 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:33 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/25/24 14:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 | | | - | | 05/25/24 14:33 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | | 56 ₋ 136 | | | | | 05/25/24 14:33 | 1 |

78 - 122

73 - 120

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-204754-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

| | | | | Percent Sui | rrogate Rec |
|---------------------|------------------------|----------|----------|-------------|-------------|
| | | DCA | BFB | TOL | DBFM |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) |
| 240-204691-B-33 MS | Matrix Spike | 103 | 102 | 100 | 102 |
| 240-204691-B-33 MSD | Matrix Spike Duplicate | 103 | 102 | 100 | 104 |
| 240-204754-1 | TRIP BLANK_61 | 103 | 91 | 96 | 99 |
| 240-204754-2 | MW-193S_051524 | 104 | 94 | 97 | 100 |
| 240-204754-3 | MW-89S_051524 | 97 | 86 | 88 | 95 |
| 240-204759-B-3 MS | Matrix Spike | 91 | 96 | 92 | 92 |
| 240-204759-B-3 MSD | Matrix Spike Duplicate | 99 | 99 | 94 | 97 |
| LCS 240-614421/4 | Lab Control Sample | 99 | 102 | 99 | 100 |
| LCS 240-614422/5 | Lab Control Sample | 97 | 102 | 100 | 97 |
| MB 240-614421/6 | Method Blank | 102 | 94 | 98 | 100 |
| MB 240-614422/8 | Method Blank | 104 | 94 | 99 | 102 |

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 Prep Type: Total/NA

| | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|--|
| | | DCA | |
| Lab Sample ID | Client Sample ID | (68-127) | |
| 240-204754-2 | MW-193S_051524 | 103 | |
| 240-204754-3 | MW-89S_051524 | 100 | |
| 240-204757-E-3 MS | Matrix Spike | 98 | |
| 240-204757-E-3 MSD | Matrix Spike Duplicate | 96 | |
| LCS 240-614186/3 | Lab Control Sample | 93 | |
| MB 240-614186/5 | Method Blank | 93 | |
| Surrogate Legend | | | |

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Client: Arcadis U.S., Inc. Job ID: 240-204754-1

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

Lab Sample ID: MB 240-614421/6

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 614421

| Client 9 | Sample ID: Method Blank | |
|----------|-------------------------|--|
| | Pren Type: Total/NA | |

| | МВ | MB | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/25/24 11:34 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/25/24 11:34 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 11:34 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/25/24 11:34 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 11:34 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/25/24 11:34 | 1 |
| | | | | | | | | | |

MB MB

| | Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | 1,2-Dichloroethane-d4 (Surr) | 102 | | 62 - 137 | | 05/25/24 11:34 | 1 |
| | 4-Bromofluorobenzene (Surr) | 94 | | 56 - 136 | | 05/25/24 11:34 | 1 |
| | Toluene-d8 (Surr) | 98 | | 78 - 122 | | 05/25/24 11:34 | 1 |
| ١ | Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | 05/25/24 11:34 | 1 |

Lab Sample ID: LCS 240-614421/4

Matrix: Water

Analysis Batch: 614421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 25.0 | 28.6 | - | ug/L | | 114 | 63 - 134 | |
| cis-1,2-Dichloroethene | 25.0 | 26.2 | | ug/L | | 105 | 77 - 123 | |
| Tetrachloroethene | 25.0 | 27.2 | | ug/L | | 109 | 76 - 123 | |
| trans-1,2-Dichloroethene | 25.0 | 29.0 | | ug/L | | 116 | 75 - 124 | |
| Trichloroethene | 25.0 | 26.5 | | ug/L | | 106 | 70 - 122 | |
| Vinyl chloride | 12.5 | 11.2 | | ug/L | | 89 | 60 - 144 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 ₋ 136 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 |

Lab Sample ID: 240-204691-B-33 MS

Matrix: Water

Analysis Batch: 614421

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

| | Sample | Sample | Spike | MS | MS | | | | %Rec |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1,1-Dichloroethene | 360 | J | 12500 | 15200 | | ug/L | | 119 | 56 - 135 |
| cis-1,2-Dichloroethene | 77000 | E | 12500 | 85200 | E 4 | ug/L | | 66 | 66 - 128 |
| Tetrachloroethene | 500 | U | 12500 | 13100 | | ug/L | | 105 | 62 - 131 |
| trans-1,2-Dichloroethene | 500 | U | 12500 | 15300 | | ug/L | | 122 | 56 - 136 |
| Trichloroethene | 500 | U | 12500 | 13000 | | ug/L | | 104 | 61 - 124 |
| Vinyl chloride | 12000 | | 6250 | 16700 | | ug/L | | 76 | 43 - 157 |

| Surrogate | %Recovery Qu | alifier Limits |
|------------------------------|--------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | 56 - 136 |
| Toluene-d8 (Surr) | 100 | 78 - 122 |

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Page 13 of 22

Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

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

MS MS

Lab Sample ID: 240-204691-B-33 MS

Matrix: Water

Analysis Batch: 614421

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 102 73 - 120

Lab Sample ID: 240-204691-B-33 MSD

Matrix: Water

Analysis Batch: 614421

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

MSD MSD %Rec RPD Sample Sample Spike RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Limit 1,1-Dichloroethene 360 12500 15400 ug/L 121 56 - 135 26 cis-1,2-Dichloroethene 77000 E 12500 86800 E 4 79 66 - 128 ug/L 2 14 Tetrachloroethene 500 U 12500 12700 ug/L 102 62 _ 131 20 trans-1,2-Dichloroethene 500 U 12500 15200 ug/L 121 56 - 136 15 Trichloroethene 500 U 12500 12900 ug/L 103 61 - 124 0 15 Vinyl chloride 12000 6250 17300 ug/L 87 43 - 157 24

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 - 136 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 104 | | 73 - 120 |

Lab Sample ID: MB 240-614422/8

Matrix: Water

Analysis Batch: 614422

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac 1.0 U 1.0 1,1-Dichloroethene 0.49 ug/L 05/25/24 12:38 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/25/24 12:38 1.0 U 0.44 ug/L Tetrachloroethene 05/25/24 12:38 1.0 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/25/24 12:38 Trichloroethene 1.0 U 1.0 05/25/24 12:38 0.44 ug/L Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/25/24 12:38

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 62 - 137 | | 05/25/24 12:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 56 - 136 | | 05/25/24 12:38 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | 05/25/24 12:38 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | 05/25/24 12:38 | 1 |

Lab Sample ID: LCS 240-614422/5

Matrix: Water

Analysis Batch: 614422

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

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 25.0 | 24.8 | | ug/L | | 99 | 63 - 134 | |
| cis-1,2-Dichloroethene | 25.0 | 25.0 | | ug/L | | 100 | 77 - 123 | |
| Tetrachloroethene | 25.0 | 24.3 | | ug/L | | 97 | 76 - 123 | |
| trans-1,2-Dichloroethene | 25.0 | 23.6 | | ug/L | | 94 | 75 - 124 | |
| Trichloroethene | 25.0 | 23.3 | | ug/L | | 93 | 70 - 122 | |

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Page 14 of 22

5/29/2024

Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

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

| Lab | Sample | ID: | LCS | 240-6 1 | 4422/5 |
|-----|--------|-----|-----|----------------|--------|
| | | | | | |

Matrix: Water

Analysis Batch: 614422

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 60 - 144 Vinyl chloride 12.5 11.5 ug/L 92

| | LCS | LCS | |
|------------------------------|-----------|-----------|---------------------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 ₋ 136 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 |

Lab Sample ID: 240-204759-B-3 MS

Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 614422**

| | Sample | Sample | Spike | MS | MS | | | | %Rec |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 22.9 | | ug/L | | 92 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.0 | | ug/L | | 92 | 66 - 128 |
| Tetrachloroethene | 1.0 | U | 25.0 | 22.4 | | ug/L | | 90 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 21.3 | | ug/L | | 85 | 56 - 136 |
| Trichloroethene | 1.0 | U | 25.0 | 21.2 | | ug/L | | 85 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 12.5 | 11.2 | | ug/L | | 90 | 43 - 157 |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 96 | | 56 - 136 |
| Toluene-d8 (Surr) | 92 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 92 | | 73 - 120 |

Analysis Batch: 614422

Lab Sample ID: 240-204759-B-3 MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA

| | 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 | 25.0 | 23.4 | | ug/L | | 94 | 56 - 135 | 2 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.0 | | ug/L | | 92 | 66 - 128 | 0 | 14 |
| Tetrachloroethene | 1.0 | U | 25.0 | 20.6 | | ug/L | | 82 | 62 - 131 | 8 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 20.7 | | ug/L | | 83 | 56 - 136 | 3 | 15 |
| Trichloroethene | 1.0 | U | 25.0 | 20.7 | | ug/L | | 83 | 61 - 124 | 2 | 15 |
| Vinyl chloride | 1.0 | U | 12.5 | 10.7 | | ug/L | | 85 | 43 - 157 | 5 | 24 |

| | MSD | MSD | |
|------------------------------|-----------|-----------|---------------------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 99 | | 56 ₋ 136 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Eurofins Cleveland

Job ID: 240-204754-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

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

Lab Sample ID: MB 240-614186/5 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 614186

| Analyte | Result | Qualifier | RL | MDL | Unit | D |) | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | | 05/24/24 00:24 | 1 |

MB MB

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1.2-Dichloroethane-d4 (Surr) | 93 | | 68 - 127 | | 05/24/24 00:24 | 1 |

Lab Sample ID: LCS 240-614186/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 614186

| | Spike | LCS | LCS | | | | %Rec | |
|-------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,4-Dioxane | 10.0 | 9.38 | | ug/L | | 94 | 75 - 121 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1.2-Dichloroethane-d4 (Surr) | 93 | | 68 - 127 |

Lab Sample ID: 240-204757-E-3 MS Client Sample ID: Matrix Spike Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 614186

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,4-Dioxane | 2.0 | U | 10.0 | 9.53 | | ug/L | | 95 | 20 - 180 | |
| | MC | MS | | | | | | | | |
| | IVIS | IVIS | | | | | | | | |
| <u>-</u> . | | | | | | | | | | |

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 98 68 - 127

Lab Sample ID: 240-204757-E-3 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 614186

| - | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,4-Dioxane | 2.0 | U | 10.0 | 9.76 | | ug/L | | 98 | 20 - 180 | 2 | 20 |

| | MSD | MSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 68 - 127 |

Eurofins Cleveland

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204754-1

GC/MS VOA

Analysis Batch: 614186

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-204754-2 | MW-193S_051524 | Total/NA | Water | 8260D SIM | |
| 240-204754-3 | MW-89S_051524 | Total/NA | Water | 8260D SIM | |
| MB 240-614186/5 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-614186/3 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-204757-E-3 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-204757-E-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

Analysis Batch: 614421

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batc |
|---------------------|------------------------|-----------|--------|--------|-----------|
| 240-204754-1 | TRIP BLANK_61 | Total/NA | Water | 8260D | |
| 240-204754-2 | MW-193S_051524 | Total/NA | Water | 8260D | |
| MB 240-614421/6 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-614421/4 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-204691-B-33 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-204691-B-33 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 614422

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-204754-3 | MW-89S_051524 | Total/NA | Water | 8260D | |
| MB 240-614422/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-614422/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-204759-B-3 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-204759-B-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_61

Lab Sample ID: 240-204754-1 Date Collected: 05/15/24 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 8260D EET CLE 05/25/24 12:43 Total/NA Analysis 614421 SAM

Client Sample ID: MW-193S_051524 Lab Sample ID: 240-204754-2

Date Collected: 05/15/24 09:35 **Matrix: Water**

Date Received: 05/18/24 08:00

Date Received: 05/18/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst or Analyzed Lab Total/NA 8260D SAM EET CLE 05/25/24 14:38 Analysis 614421 Total/NA Analysis 8260D SIM 614186 MDH 05/24/24 02:45 1 **EET CLE**

Client Sample ID: MW-89S_051524 Lab Sample ID: 240-204754-3

Date Collected: 05/15/24 10:55 **Matrix: Water**

Date Received: 05/18/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 05/25/24 14:33 Total/NA 8260D 614422 SAM Analysis EET CLE 8260D SIM 614186 MDH 05/24/24 03:09 Total/NA Analysis EET CLE 1

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204754-1

Laboratory: Eurofins Cleveland

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

| Authority | Program | Identification Number | Expiration Date |
|-------------------|---------------------|-----------------------|------------------------|
| California | State | 2927 | 02-28-25 |
| Georgia | State | 4062 | 02-27-25 |
| Illinois | NELAP | 200004 | 07-31-24 |
| lowa | State | 421 | 06-01-25 |
| Kentucky (UST) | State | 112225 | 02-27-25 |
| Kentucky (WW) | State | KY98016 | 12-30-24 |
| Minnesota | NELAP | 039-999-348 | 12-31-24 |
| New Jersey | NELAP | OH001 | 06-30-24 |
| New York | NELAP | 10975 | 04-02-25 |
| Ohio VAP | State | ORELAP 4062 | 02-27-25 |
| Oregon | NELAP | 4062 | 02-27-25 |
| Pennsylvania | NELAP | 68-00340 | 08-31-24 |
| Texas | NELAP | T104704517-22-19 | 08-31-24 |
| USDA | US Federal Programs | P330-18-00281 | 01-05-27 |
| Virginia | NELAP | 460175 | 09-14-24 |
| West Virginia DEP | State | 210 | 12-31-24 |

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Chain of Custody Record

3-7/37 TestAmerica

| Te | stAmerica Labora | tory location: | Brighton | 10 | 148 Citat | ion Driv | /e, St | uite 20 | 00 / B | 3 righto | n, MI 481 | 16 / 8 | 10-229 | 9-2763 | | | | | | T | HE LEADER IN ENVIRONMENTAL TESTING |
|--|------------------|-----------------|----------|----------|-----------------|----------|--------|----------|--------|----------------|-----------|-------------------------|-----------|-------------------|---------------|--------------|--------|----------------------|-------------------|---|--|
| Client Contact | Regulat | ory program: | | _ I | W | | NPDI | ES | ſ | RC | RA | ┌ Ot | ber | | | | | | | | |
| Company Name: Areadis | Client Project | Manager: Kris H | inskey | | | Site | Cont | act: C | hristi | ina We | aver | | | Lab | Conta | ct: Mil | ke Del | Monic | 0 | | TestAmerica Laboratories, Inc. |
| Address: 28550 Cabot Drive, Suite 500 | Telephone: 248 | -994-2240 | | | | Tele | phone | c: 248 | -994- | 2240 | | | | Tele | phone | 330-4 | 97-939 | 96 | | | |
| City/State/Zip: Novi, MJ, 48377 | Fmuil: kristoff | er.hinskey@arca | die com | | | | Analy | sis Tu | ırnar | ound 1 | ime | | _ | | | | A | nalys | es | | 1 of 1 COCs For lab use only |
| Phone: 248-994-2240 | | | idis.com | | | | | | | | | 7 | Н | | | | | | | | |
| Project Name: Ford LTP | Sampler Name | Marzan | He | enci | m | | | ment tro | - 3 | weeks weeks | | | | | | | | | | | Walk-in client |
| Project Number: 30206169.0401.03 | Method of Ship | | | | | ┨ " | 0 day | - 1 | - 1 | week | | ۾ ۾ | | | | | | | SIM | | Lab sampling |
| PO # US3410018772 | Shipping/Track | ing No: | | | | + | | | 2 · | | | Filtered Sample (Y / N) | | 009 | 8260D | | | Vinyl Chloride 8260D | S 009 | | Job/SDG No: |
| | | | | Matri | x | | Cont | ainer | & Pr | coervat. | vo | ample // J= | 8260D | E 82 | | | | ride 8 | 1e 82 | | |
| | | [| 5 | Į, | | 7 | * | | _ | 2 | e l | red S | ČE 8 | cis-1,2-DCE 8260D | Trans-1,2-DCE | PCE 8260D | 8260D | Cho | 1,4-Dioxane 8260D | | Sample Specific Notes / |
| Sample Identification | Sample Date | Sample Time | Air | Sedim | Solid Other: | H2SO4 | HNO3 | DHC S | ZaAc | NaOH Unpres | Other: | Filte | 1,1-DCE | cis-1 | Trans | PCE | 1CE | Vinyl | 1,4-0 | | Special Instructions: |
| TRIP BLANK_ (0) | | | 1 | | | T | | 1 | | | | NG | X | X | X | X | Х | Х | | | 1 Trip Blank |
| MW-1935_051524 | 5/15/24 | 0935 | Ú | | | | | 6 | | | | NG | X | X | X | X | X | X | X | | 3 VOAs for 8260D 3 VOAs for 8260D SIM |
| TRIP BLANK_ (2) MW - 193S_ OSISZY MW - 89S_0515ZY | 5/15/24 | 1055 | 6 | | | | | 6 | | | | NG | 4 | X | X | X | X | X | X | | 1 |
| | | | | | | T | | \top | | 1 | | | | | | | | | | | |
| | - | | + | - | + | | | + | + | | | | | | | | | | | _ | + |
| | | | | \sqcup | | \perp | | \perp | _ | - | | | - | | | _ | | | | | |
| | | | | | | | | | 1 | - | | 11.0.015.11 | BII B BII | HIHI | | IIIII | 1 | | | | |
| | | | | | | | | 1 | | IIIIII | | | | | | \mathbb{N} | | | | | |
| | | | | | | + | - | | W | \mathbb{W} | | | | | WW | WW | 1 | | | | |
| | | | - | - | | + | _ | | | | 754 Ch | | | tody | | | | _ | | | |
| | | | | | | | | | 240 |)-204 | 754 CI | lalli | | | | | | | | | |
| | | | | | | | 1 | 1 | 1 | T | | | | | | | | | | | |
| Possible Hazard Identification Non-Hazard Sammable Sin Irrit | ant Poiso | n B | Jnknow | n | | Si | | Dispe | | | may be as | | | | | ined lo | | han 1 | month) Months | | |
| Special Instructions/QC Requirements & Comments: 349 | 40 Beale | | | | | • | - | | | | | .,, | , | | | | | | | | |
| Submit all results through Cadena at jtomalia@cadenac Level IV Reporting requested. | o.com. Cadena #E | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: | Company: AVCadi | 1 | Date | Time | 24 | 170 | 50 | R | N'I | edby: | Cald | th | M39L | ٥, | | | Conf | COY | lis | | Date Time 1730 |
| Relinquished by | Company | edis | Date | Time | 24 | ile | 55 | 5 R | ecciv | ed by: | MA | / / | PL | <u></u> | _ | | Comp | any: | FIA | | Dury Timber 655 |
| Relinquished by | Company: | | Date | e/Time | | | | R | leceiv | JE | aborator | MO | R O | SKO |) | | Comp | any: | TNUC | | Date/Time: 05)18/24 08W |

02008, Tentamenca unboratories, Inc., All highly reversed. Tentamenca & Cessign 1st are tradetriation of Testamenca Luboratories, inc.

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| VOA Sample Preservation - Date/Time VOAs Frozen |
|--|
| Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)were further preserved in the laboratory |
| 20. SAMPLE PRESERVATION |
| Sample(s)were received after the recommended holding time had expired. Sample(s)were received with bubble >6 mm in diameter (Notify PM) |
| |
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by |
| Concerning |
| Contacted PM Date by via Verbal Voice Mail Other |
| 13 Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #00413017 17 Was a LL Hg or Me Hg trip blank present? Yes No NA Yes No NA Yes No NA Yes No NA |
| 11 Sufficient quantity received to perform indicated analyses? 12 Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory |
| Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (YJN), # of containers (YJN), and sa Were correct bottle(s) used for the test(s) indicated? |
| Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No Did all bottles arrive in good condition (Unbroken)? |
| Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Ware the control of the cooler o |
| 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? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? Yes No NA Tests that are not checked for pH by Checked for pH by Receiving |
| |
| Wrap Foam Plastic Bag Blue Ice Dry Ice Water |
| Drop-off Date/Time Storage Location |
| Received on 05 18 34 Opened on 05 18 34 Opened on 05 18 34 Opened on 05 18 34 |
| Cooler unpacked by |
| Eurofins - Cleveland Sample Receipt Form/Narrative Login # |

Page 21 of 22

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Login Container Summary Report

240-204754

| MW-89S_051524 240-204754-F-3 Voa Vial 40mi - Hydrochloric Acid | MW-89S_051524 240-204754-E-3 Voa Vial 40ml - Hydrochloric Acid | MW-89S_051524 240-204754-D-3 Voa Vial 40ml - Hydrochloric Acid | MW-89S_051524 240-204754-C-3 Voa Vial 40ml - Hydrochloric Acid | MW-89S_051524 240-204754-B-3 Voa Vial 40ml - Hydrochloric Acid | MW-89S_051524 240-204754-A-3 Voa Vial 40ml - Hydrochloric Acid | MW-193S_051524 240-204754-F-2 Voa Vial 40ml - Hydrochloric Acıd | MW-193S_051524 240-204754-E-2 Voa Vial 40ml - Hydrochloric Acid | MW-193S_051524 240-204754-D-2 Voa Vial 40ml - Hydrochloric Acıd | MW-193S_051524 240-204754-C-2 Voa Vial 40ml - Hydrochloric Acid | MW-193S_051524 240-204754-B-2 Voa Vial 40ml - Hydrochloric Acid | MW-193S_051524 240-204754-A-2 Voa Vial 40ml - Hydrochloric Acid | TRIP BLANK_61 240-204754-A-1 Voa Vial 40ml - Hydrochloric Acid | Client Sample ID Lab ID Container Type pH C | Temperature readings |
|--|--|--|--|--|--|---|---|---|---|---|---|--|--|----------------------|
| 1 - Hydrochloric Acid | 1 - Hydrochloric Acid | I - Hydrochloric Acid | l - Hydrochloric Acıd | l - Hydrochloric Acid | l - Hydrochloric Acıd | l - Hydrochloric Acid | l - Hydrochloric Acid | 1 - Hydrochloric Acid | 1 - Hydrochloric Acid | Container Preservation Preservation pH Temp Added Lot Number | 5/ |

Page 22 of 22

Page 1 of 1

DATA VERIFICATION REPORT



May 29, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.401.03

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 204754-1 Sample date: 2024-05-15

Report received by CADENA: 2024-05-29

Initial Data Verification completed by CADENA: 2024-05-29

Number of Samples:3 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.

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 $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

| Valid 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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 204754-1

| | | Sample Name: | TRIP BLA | ANK_61 | | | MW-193 | 3S_0515 | 24 | | MW-899 | S_05152 | 4 | |
|-----------|--------------------------|----------------|----------|--------|-------|-----------|---------|---------|-------|-----------|---------|---------|-------|-----------|
| | | Lab Sample ID: | 2402047 | 7541 | | | 240204 | 7542 | | | 240204 | 7543 | | |
| | | Sample Date: | 5/15/20 | 24 | | | 5/15/20 | 24 | | | 5/15/20 | 24 | | |
| | | | | Report | | Valid | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | | | | | |
| OSW-8260 | <u>ID</u> | | | | | | | | | | | | | |
| | 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | 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 | | 4.2 | 1.0 | ug/l | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | 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 | | 0.56 | 1.0 | ug/l | J |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| OSW-8260 | <u>DDSIM</u> | | | | | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | |



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-204754-1

CADENA Verification Report: 2024-05-29

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54311R Review Level: Tier III Project: 30206169.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204754-1 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 ID | Lab ID | Matrix | Matrix Sample | | Analysis | | |
|----------------|--------------|----------|-----------------|---------------|----------|---------|--|
| Sample ID | Labib | IVIALITA | Collection Date | Parent Sample | VOC | VOC SIM | |
| TRIP BLANK_61 | 240-204754-1 | Water | 05/15/2024 | | X | | |
| MW-193S_051524 | 240-204754-2 | Water | 05/15/2024 | | X | X | |
| MW-89S_051524 | 240-204754-3 | Water | 05/15/2024 | | X | X | |

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

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 HCl |

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 continuing 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.

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 VALIDATION CHECKLIST FOR VOCs

| VOCs: 8260D/8260D-SIM | Rep | orted | | rmance ptable | Not Required |
|---|-------|-------|----|------------------|-----------------|
| | No | Yes | No | Yes | Required |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G | C/MS) | | | | |
| Tier II Validation | | | | | |
| Holding times/Preservation | | Х | | Х | |
| 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 | |
| Ion 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 | | X | | X | |
| 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: Bindu Sree M B

SIGNATURE: BASHIME

DATE: June 21, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 2024

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

3-7/37

TestAmerica

| Client Contact | Donales | | - | DW | - | msee | | - ncn | _ | O.L | | | | | | | | | | |
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| Sometimes (1988) (1988) | Client Project | danager: Kris F | linskey | | Site C | ontact: | Christ | ina Weav | er | | | Lab C | ontact | : Mike | DelMo | nico | | COC N | | |
| Address: 28550 Cabot Drive, Suite 500 | Talanhana 218 | Telephone: 248-994-2240 | | | | hanas 21 | 8 001 | 22.10 | | | - | Telephone: 330-497-9396 | | | | | | | | |
| City/State/Zip: Novi. MI, 48377 | Telephone: 248 | -994-2240 | | | | | | | | | | | | 1 of 1 COCs For lab use only | |)Cs | | | | |
| Phone: 248-994-2240 | Email: kristoff | er.hinskey@arc | adis.com | | A | Analysis Turnaround Time | | | Analyses | | | | | | | | | | | |
| rnone: 248-994-2240 | Sampler Name | Sampler Name: TA | | | TAT | if different from below | | | | | | | | | Walk-in client | | | | | |
| Project Name: Ford LTP | | Maxim Hancum | | 10 day 2 weeks | | | | | | | | | Tah sa ma ling | | | | | | | |
| Project Number: 30206169.0401.03 | Method of Ship | Method of Shipment/Carrier: | | | ┨ " | uay | f" 1 | week | 2 | ပ္ | | | | | | S M S | | Lab sampling | | 1457 |
| PO # US3410018772 | Shipping/Track | Shipping/Tracking No: | | - | | 厂 1 | | 3 | Grab | | 9 | 3260 | | | 3 00 | | Job/SD6 | G No: | | |
| | | | | | | | 를 | 0/3 | 000 | 8260D | CE 8 | | 1 | 826 | | | | | | |
| | | | Matrix C | | | Containet | N & PE | octvativo | Other: 5 Filtered Sample (V / N) Composite = C / Grab= (1,1-DCE 8260D | | | cis-1,2-DCE | Trans-1,2-DCE 8260D PCE 8260D TCE 8260D | | 9 | Vinyl Chloride 8260D S | | | | |
| | | | Afr | يَّا ج | H2SO4 | a _ | <u>ج</u> ا ج | E 20 | fea | Composite= | 1,1-DCE 8260D | 1.2- | ns-1 | E 82 | E 82 | | | | ample Specific No Special Instructio | |
| Sample Identification | Sample Date | Sample Time | Agin Agin | Solid Other: | Ě | HC HC | NaOH | NaOH Unpres | Ē | రి | = | cis- | Tra | DG | <u> </u> | > - | | | special fistractio | |
| TRIP BLANK_ (1) MW - 193S_ 051524 MW - 89S_051524 | | | 1 | | | 1 | | | N | G | x | х | x | x : | x ; | < | | 1 T | rip Blank | |
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| Possible Hazard Identification | | l | | | Sai | mple Dis | posal (| A fee ma | y be asses | sed if | sampl | es are | retain | ed long | er thai | 1 month |) | | | |
| Non-Hazard Tammable cin Ir | ritant Poiso | | Jnknown | | | | n to C | | Dispo | | | - 1 | | chive F | | | onths | | | |
| Special Instructions/QC Requirements & Comments: 34 | 940 Beaco | 1 | | | | | | | | | | | | | | | | | | |
| Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested. | sco.com. Cadena #E | 203728 | | | | | | | | | | | | | | | | | | |
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Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_61

Lab Sample ID: 240-204754-1 Date Collected: 05/15/24 00:00 **Matrix: Water**

Date Received: 05/18/24 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/25/24 12:43 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/25/24 12:43 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 12:43 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/25/24 12:43 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 12:43 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/25/24 12:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | | _ | | 05/25/24 12:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 91 | | 56 ₋ 136 | | | | | 05/25/24 12:43 | 1 |
| Toluene-d8 (Surr) | 96 | | 78 - 122 | | | | | 05/25/24 12:43 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | | | | 05/25/24 12:43 | 1 |

Client Sample ID: MW-193S_051524

Date Collected: 05/15/24 09:35 Date Received: 05/18/24 08:00

Lab Sample ID: 240-204754-2 **Matrix: Water**

| Method: SW846 8260D SIM - V | olatile Organic C | ompounds | (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 | | | 05/24/24 02:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 68 - 127 | | | _ | | 05/24/24 02:45 | 1 |

| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | SC/MS | | | | | | |
|------------------------------|-----------------|------------|--------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/25/24 14:38 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/25/24 14:38 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:38 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/25/24 14:38 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:38 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/25/24 14:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | _ | 62 - 137 | | 05/25/24 14:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 56 - 136 | | 05/25/24 14:38 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | 05/25/24 14:38 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | 05/25/24 14:38 | 1 |

Client Sample ID: MW-89S_051524

Date Collected: 05/15/24 10:55 Date Received: 05/18/24 08:00

Lab Sample ID: 240-204754-3

Matrix: Water

| Method: SW846 8260D SIM - | Volatile Organic C | ompounds | (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 | | | 05/24/24 03:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 68 - 127 | | | - | | 05/24/24 03:09 | 1 |

Client: Arcadis U.S., Inc. Job ID: 240-204754-1

Project/Site: Ford LTP

Client Sample ID: MW-89S_051524

Lab Sample ID: 240-204754-3 Date Collected: 05/15/24 10:55 **Matrix: Water**

Date Received: 05/18/24 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/25/24 14:33 | 1 |
| cis-1,2-Dichloroethene | 4.2 | | 1.0 | 0.46 | ug/L | | | 05/25/24 14:33 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:33 | 1 |
| trans-1,2-Dichloroethene | 0.56 | J | 1.0 | 0.51 | ug/L | | | 05/25/24 14:33 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/25/24 14:33 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/25/24 14:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 | | | - | | 05/25/24 14:33 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | | 56 ₋ 136 | | | | | 05/25/24 14:33 | 1 |
| Toluene-d8 (Surr) | 88 | | 78 - 122 | | | | | 05/25/24 14:33 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 73 - 120 | | | | | 05/25/24 14:33 | 1 |