

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/14/2024 6:42:34 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-214439-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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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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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

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 | 11 |
| QC Sample Results | 12 |
| QC Association Summary | 15 |
| Lab Chronicle | 16 |
| Certification Summary | 17 |
| Chain of Custody | 18 |
| | |

Client: Arcadis US Inc. Project/Site: Ford LTP

Quality Control

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

QC RER

RL

RPD

TEF

TEQ

TNTC

| Qualifiers | | 3 |
|----------------|---|----|
| GC/MS VOA | | |
| Qualifier | Qualifier Description | |
| U | Indicates the analyte was analyzed for but not detected. | |
| Glossary | | 5 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¢. | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | 8 |
| DER | Duplicate Error Ratio (normalized absolute difference) | |
| Dil Fac | Dilution Factor | 9 |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | |
| MDA | Minimum Detectable Activity (Radiochemistry) | 13 |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| | | |

Job ID: 240-214439-1

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Job Narrative 240-214439-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/7/2024 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 1.4°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-634675 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

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Client: Arcadis US Inc. Project/Site: Ford LTP

| 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

Client: Arcadis US Inc. Project/Site: Ford LTP

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-214439-1 | TRIP BLANK_2 | Water | 11/04/24 00:00 | 11/07/24 08:00 |
| 240-214439-2 | MW-173S_110424 | Water | 11/04/24 12:45 | 11/07/24 08:00 |

Detection Summary

Job ID: 240-214439-1

Lab Sample ID: 240-214439-1

Lab Sample ID: 240-214439-2

Client Sample ID: TRIP BLANK_2

Client: Arcadis US Inc.

Project/Site: Ford LTP

No Detections.

Client Sample ID: MW-173S_110424

No Detections.

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_2

Date Collected: 11/04/24 00:00 Date Received: 11/07/24 08:00

| Lab | Sample | ID: | 240-21 | 4439 |
|-----|--------|-----|--------|------|

Matrix: Water

Job ID: 240-214439-1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/10/24 22:15 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/10/24 22:15 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/10/24 22:15 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/10/24 22:15 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/10/24 22:15 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/10/24 22:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 62 - 137 | | | - | | 11/10/24 22:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 56 - 136 | | | | | 11/10/24 22:15 | 1 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | | | | 11/10/24 22:15 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 73 - 120 | | | | | 11/10/24 22:15 | 1 |

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9-1 ater

Client Sample ID: MW-173S_110424

Date Collected: 11/04/24 12:45 Date Received: 11/07/24 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/11/24 12:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 68 - 127 | | | - | | 11/11/24 12:36 | 1 |
| Method: SW846 8260D - Volat | ile Organic Comp | ounds by C | 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 | | | 11/11/24 03:19 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/11/24 03:19 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/11/24 03:19 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/11/24 03:19 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/11/24 03:19 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/11/24 03:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | | - | | 11/11/24 03:19 | 1 |
| 4-Bromofluorobenzene (Surr) | 91 | | 56 _ 136 | | | | | 11/11/24 03:19 | 1 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | | | | 11/11/24 03:19 | 1 |
| Dibromofluoromethane (Surr) | 111 | | 73 - 120 | | | | | 11/11/24 03:19 | 1 |

Matrix: Water

Lab Sample ID: 240-214439-2

Job ID: 240-214439-1

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

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Lab Sample ID Client Sample ID (62-137) (56-136) (78-122) (73-120) 180-182253-B-1 MS Matrix Spike 91 100 99 97 180-182253-B-1 MSD Matrix Spike Duplicate 87 91 92 94 240-214439-1 TRIP BLANK_2 98 83 94 103 MW-173S_110424 240-214439-2 103 91 98 111 LCS 240-634675/5 Lab Control Sample 89 91 93 91 MB 240-634675/9 Method Blank 100 88 94 107 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

| | | | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|----------|--|--|
| | | DCA | | |
| Lab Sample ID | Client Sample ID | (68-127) | | |
| 240-214439-2 | MW-173S_110424 | 89 | | |
| 240-214444-C-3 MS | Matrix Spike | 91 | | |
| 240-214444-C-3 MSD | Matrix Spike Duplicate | 95 | | |
| LCS 240-634739/5 | Lab Control Sample | 94 | | |
| MB 240-634739/8 | Method Blank | 92 | | |

Surrogate Legend

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

11/14/2024

Prep Type: Total/NA

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

Matrix: Water Analysis Batch: 634675

| | MB | MB | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/10/24 20:42 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/10/24 20:42 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/10/24 20:42 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/10/24 20:42 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/10/24 20:42 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/10/24 20:42 | 1 |
| | | | | | | | | | |

| | MB | МВ | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 | | 11/10/24 20:42 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 56 - 136 | | 11/10/24 20:42 | 1 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | 11/10/24 20:42 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 73 - 120 | | 11/10/24 20:42 | 1 |

Lab Sample ID: LCS 240-634675/5 Matrix: Water Analysis Batch: 634675

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 20.0 | 19.9 | | ug/L | | 100 | 63 - 134 | |
| cis-1,2-Dichloroethene | 20.0 | 19.7 | | ug/L | | 99 | 77 - 123 | |
| Tetrachloroethene | 20.0 | 22.1 | | ug/L | | 110 | 76 - 123 | |
| trans-1,2-Dichloroethene | 20.0 | 19.2 | | ug/L | | 96 | 75 - 124 | |
| Trichloroethene | 20.0 | 21.1 | | ug/L | | 106 | 70 - 122 | |
| Vinyl chloride | 20.0 | 13.2 | | ug/L | | 66 | 60 - 144 | |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 91 | | 56 - 136 |
| Toluene-d8 (Surr) | 93 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 91 | | 73 - 120 |

99

Lab Sample ID: 180-182253-B-1 MS Matrix: Water Analysis Batch: 634675

Toluene-d8 (Surr)

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte **Result Qualifier** %Rec Limits Unit D U 1,1-Dichloroethene 8.0 160 147 ug/L 92 56 - 135 cis-1,2-Dichloroethene 41 160 66 - 128 185 ug/L 90 Tetrachloroethene 200 160 344 ug/L 93 62 - 131 trans-1,2-Dichloroethene 8.0 U 160 140 ug/L 88 56 - 136 Trichloroethene 61 - 124 22 160 171 ug/L 93 Vinyl chloride 8.0 U 160 93.3 ug/L 58 43 - 157 MS MS %Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 62 - 137 91 4-Bromofluorobenzene (Surr) 100 56 - 136

78 - 122

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|----------|-----------|

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

Page 12 of 20

11/14/2024

10

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

| Matrix: Water Analysis Batch: 634675 | B-1 MS | | | | | | | Client | Sample ID: M Prep Typ | | |
|--|--|--|---|----------------|-------------------------------|----------------|----------|-----------------------------------|---|---|---|
| | MS | MS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 | | | | | | | | |
| Lab Sample ID: 180-182253- Matrix: Water | B-1 MSD | | | | | | Client S | ample II | D: Matrix Spik Prep Typ | | |
| Analysis Batch: 634675 | | | | | | | | | | | |
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethene | 8.0 | U | 160 | 149 | | ug/L | | 93 | 56 - 135 | 2 | 26 |
| cis-1,2-Dichloroethene | 41 | | 160 | 189 | | ug/L | | 93 | 66 - 128 | 2 | 14 |
| Tetrachloroethene | 200 | | 160 | 330 | | ug/L | | 84 | 62 - 131 | 4 | 20 |
| trans-1,2-Dichloroethene | 8.0 | U | 160 | 144 | | ug/L | | 90 | 56 - 136 | 3 | 15 |
| Trichloroethene | 22 | | 160 | 170 | | ug/L | | 92 | 61 - 124 | 1 | 15 |
| Vinyl chloride | 8.0 | U | 160 | 92.4 | | ug/L | | 58 | 43 - 157 | 1 | 24 |
| | 5.0 | | | | | J. – | | | | - | = • |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 62 - 137 | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 91 | | 56 - 136 | | | | | | | | |
| Toluene-d8 (Surr) | 92 | | 78 - 122 | | | | | | | | |
| | 94 | | 73 - 120 | | | | | | | | |
| Dibromofluoromethane (Surr) | atile Organic | : Compoun | ds (GC/MS) | | | | | Client S | Sample ID: Me | ethod | Blank |
| - | atile Organic | : Compoun | ds (GC/MS) | | | | | Client S | Sample ID: Me Prep Typ | | |
| - Method: 8260D SIM - Vola - Lab Sample ID: MB 240-6347 | atile Organic | | ds (GC/MS) | | | | | Client \$ | | | |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 | atile Organic 739/8 | MB MB | | | | | | | Prep Ty | be: To | al/NA |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte | atile Organic 739/8 | MB MB esult Qualifier | RL | | MDL Unit | | D | Client S | Prep Typ | be: To | al/NA |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 | atile Organic 739/8 | MB MB | | | MDL Unit 0.86 ug/L | | D I | | Prep Ty | be: To | t <mark>al/NA</mark> Dil Fac |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte | atile Organic 739/8 | MB MB esult Qualifier 2.0 U | RL | | | | D | | Prep Typ | be: To | |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane | atile Organic 739/8 R | MB MB esult Qualifier 2.0 U MB MB | | | | | | Prepared | Prep Typ Analyzed 11/11/24 12: | De: To | Dil Fac |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane | atile Organic 739/8 | MB MB esult Qualifier 2.0 U MB MB every Qualifier | | | | | | | Analyzed | De: To | Dil Fac 1 Dil Fac |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane | atile Organic 739/8 R | MB MB esult Qualifier 2.0 U MB MB | | | | | | Prepared | Prep Typ Analyzed 11/11/24 12: | De: To | Dil Fac 1 Dil Fac |
| Method: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water | atile Organic 739/8 R R | MB MB esult Qualifier 2.0 U MB MB every Qualifier | | | | | | Prepared Prepared | Analyzed | be: To | Dil Fac 1 Dil Fac 1 ample |
| Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-6347 | atile Organic 739/8 R R | MB MB esult Qualifier 2.0 U MB MB every Qualifier | RL 2.0 <i>Limits</i> 68 - 127 | | 0.86 ug/L | | | Prepared Prepared | Prep Typ Analyzed _ | be: To | Dil Fac 1 Dil Fac 1 Dil Fac 1 ample |
| Aethod: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water Analysis Batch: 634739 | atile Organic 739/8 R R | MB MB esult Qualifier 2.0 U MB MB every Qualifier | RL 2.0 <i>Limits</i> 68 - 127 Spike | | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Prep Typ <u>Analyzed</u> 11/11/24 12: <u>Analyzed</u> 11/11/24 12: E ID: Lab Con Prep Typ %Rec | be: To | Dil Fac 1 Dil Fac 1 Dil Fac 1 ample |
| Analyte Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water Analysis Batch: 634739 Analyte | atile Organic 739/8 R R | MB MB esult Qualifier 2.0 U MB MB every Qualifier | RL 2.0 <i>Limits</i> 68 - 127 Spike Added | Result | 0.86 ug/L | Unit | | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: Pip: Lab Con Prep Typ %Rec Limits | be: To | Dil Fac 1 Dil Fac 1 Dil Fac 1 ample |
| Aethod: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water Analysis Batch: 634739 | atile Organic 739/8 R R | MB MB esult Qualifier 2.0 U MB MB every Qualifier | RL 2.0 <i>Limits</i> 68 - 127 Spike | | 0.86 ug/L | - Unit ug/L | Clien | Prepared Prepared It Sample | Prep Typ <u>Analyzed</u> 11/11/24 12: <u>Analyzed</u> 11/11/24 12: E ID: Lab Con Prep Typ %Rec | be: To | Dil Fac 1 Dil Fac 1 Dil Fac 1 ample |
| Analyte Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water Analysis Batch: 634739 Analyte | atile Organic 739/8 R %Reco | MB MB esult Qualifier 2.0 U MB MB every Qualifier | RL 2.0 <i>Limits</i> 68 - 127 Spike Added | Result | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: Pip: Lab Con Prep Typ %Rec Limits | be: To | Dil Fac 1 Dil Fac 1 <i>Dil Fac</i> 1 ample |
| Analyte Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water Analysis Batch: 634739 Analyte | atile Organic 739/8 R %Reco | MB MB esult Qualifier 2.0 U MB MB overy Qualifier 92 | RL 2.0 <i>Limits</i> 68 - 127 Spike Added | Result | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: Pip: Lab Con Prep Typ %Rec Limits | be: To | Dil Fac 1 Dil Fac 1 <i>Dil Fac</i> 1 ample |
| Analyte Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water Analyte 1,4-Dioxane | atile Organic 739/8 R %Recc 1739/5 | MB MB esult Qualifier 2.0 U MB MB overy Qualifier 92 | RL 2.0 <i>Limits</i> 68 - 127 Spike Added 10.0 | Result | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: Pip: Lab Con Prep Typ %Rec Limits | be: To | Dil Fac 1 Dil Fac 1 Dil Fac 1 ample |
| Aethod: 8260D SIM - Vola Lab Sample ID: MB 240-6347 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-634 Matrix: Water Analysis Batch: 634739 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) | atile Organic 739/8 | MB MB esult Qualifier 2.0 U MB MB overy Qualifier 92 | RL 2.0 <i>Limits</i> 68 - 127 Spike Added 10.0 <i>Limits</i> | Result | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: e ID: Lab Con Prep Typ %Rec Limits 75 - 121 | 13 14 15 15 16 17 17 18 19 19 10 11 12 13 14 15 16 17 17 18 10 10 10 10 <td>al/NA Dil Fac 1 Dil Fac 1 ample tal/NA</td> | al/NA Dil Fac 1 Dil Fac 1 ample tal/NA |
| Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analyte Analyte Analyte Analyte Analyte Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Anal | atile Organic 739/8 | MB MB esult Qualifier 2.0 U MB MB overy Qualifier 92 | RL 2.0 <i>Limits</i> 68 - 127 Spike Added 10.0 <i>Limits</i> | Result | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: e ID: Lab Con Prep Typ %Rec Limits 75 - 121 | De: To 13 | al/NA Dil Fac 1 <u>Dil Fac</u> 1 ample tal/NA |
| Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte A | atile Organic 739/8 | MB MB esult Qualifier 2.0 U MB MB overy Qualifier 92 | RL 2.0 <i>Limits</i> 68 - 127 Spike Added 10.0 <i>Limits</i> | Result | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: e ID: Lab Con Prep Typ %Rec Limits 75 - 121 | De: To 13 | al/NA <u>Dil Fac</u> 1 <u>Dil Fac</u> 1 ample tal/NA |
| Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analyte Analyte Analyte Analyte Analyte Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Anal | atile Organic 739/8 | MB MB esult Qualifier 2.0 U MB MB overy Qualifier 92 LCS Qualifier | RL 2.0 2.0 2.0 | Result 9.09 | 0.86 ug/L LCS Qualifier | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: e ID: Lab Con Prep Typ %Rec Limits 75 - 121 Sample ID: M Prep Typ | De: To 13 | al/NA <u>Dil Fac</u> 1 <u>Dil Fac</u> 1 ample tal/NA Spike |
| Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte Analysis Batch: 634739 Analyte A | atile Organic 739/8 | MB MB esult Qualifier 2.0 U MB MB overy Qualifier 92 | RL 2.0 <i>Limits</i> 68 - 127 Spike Added 10.0 <i>Limits</i> | Result 9.09 | 0.86 ug/L | | Clien | Prepared Prepared It Sample | Analyzed 11/11/24 12: Analyzed 11/11/24 12: Analyzed 11/11/24 12: e ID: Lab Con Prep Typ %Rec Limits 75 - 121 | De: To 13 | al/NA <u>Dil Fac</u> 1 <u>Dil Fac</u> 1 ample tal/NA Spike |

Eurofins Cleveland

Job ID: 240-214439-1

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

| | MS | MS | | | | | | | | | |
|------------------------------|-----------|-----------|----------|--------|-----------|------|-----------|----------|--------------|----------|---------|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 68 - 127 | | | | | | | | |
| Lab Sample ID: 240-214444- | C-3 MSD | | | | | (| Client Sa | ample IC |): Matrix Sp | oike Dup | olicate |
| Matrix: Water | | | | | | | | - | Prep T | Type: To | tal/NA |
| Analysis Batch: 634739 | | | | | | | | | | | |
| | 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 | 9.36 | | ug/L | | 94 | 20 - 180 | 5 | 20 |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| | | | | | | | | | | | |

10

8260D SIM

GC/MS VOA

240-214444-C-3 MSD

Matrix Spike Duplicate

Analysis Batch: 634675

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|-----------|------------|
| 240-214439-1 | TRIP BLANK_2 | Total/NA | Water | 8260D | |
| 240-214439-2 | MW-173S_110424 | Total/NA | Water | 8260D | |
| MB 240-634675/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-634675/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 180-182253-B-1 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 180-182253-B-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |
| Analysis Batch: 63473 | 9 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 240-214439-2 | MW-173S_110424 | Total/NA | Water | 8260D SIM | |
| MB 240-634739/8 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-634739/5 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-214444-C-3 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |

Total/NA

Water

Matrix: Water

Matrix: Water

Lab Sample ID: 240-214439-1

Lab Sample ID: 240-214439-2

Client Sample ID: TRIP BLANK_2 Date Collected: 11/04/24 00:00

| Dutt | concercu. | 11/04/24 00.00 | |
|------|-----------|----------------|--|
| Date | Received: | 11/07/24 08:00 | |

| _ | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Туре | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 634675 | AJS | EET CLE | 11/10/24 22:15 |

Client Sample ID: MW-173S_110424 Date Collected: 11/04/24 12:45

Date Received: 11/07/24 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 634675 | AJS | EET CLE | 11/11/24 03:19 |
| Total/NA | Analysis | 8260D SIM | | 1 | 634739 | R5XG | EET CLE | 11/11/24 12:36 |

Laboratory References:

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

12 13

Eurofins Cleveland

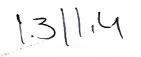
Accreditation/Certification Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

| Authority | Program | Identification Number | Expiration Date |
|--------------------|---------------------|-----------------------|-----------------|
| California | State | 2927 | 02-28-25 |
| Connecticut | State | PH-0806 | 12-31-26 |
| Georgia | State | 4062 | 02-27-25 |
| llinois | NELAP | 200004 | 08-31-25 |
| owa | State | 421 | 06-01-25 |
| Kentucky (UST) | State | 112225 | 02-27-25 |
| Kentucky (WW) | State | KY98016 | 12-30-24 |
| <i>/</i> linnesota | NELAP | 039-999-348 | 12-31-24 |
| New Hampshire | NELAP | 225024 | 09-30-25 |
| lew Jersey | NELAP | OH001 | 07-03-25 |
| ew York | NELAP | 10975 | 04-02-25 |
| Dhio VAP | State | ORELAP 4062 | 02-27-25 |
|)regon | NELAP | 4062 | 02-27-25 |
| Pennsylvania | NELAP | 68-00340 | 08-31-25 |
| - exas | NELAP | T104704517-22-19 | 08-31-25 |
| JSDA | US Federal Programs | P330-18-00281 | 01-05-27 |
| irginia | NELAP | 460175 | 09-14-25 |
| Vest Virginia DEP | State | 210 | 12-31-24 |

Eurofins Cleveland



Chain of Custody Record



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

| Client Contact | Regula | tory program: | | | DV | V | - F - 3 | NPDE: | S | □ RC | RA | (Ot | her | | | | | | | | | |
|---|----------------|---------------|-----------|---------|----------------------|----------------------|---------|------------|---------|--------------------------|---------------|---|---------------|-------------------|---------------------|--------------------|-----------|----------------------|-----------------------|-----------|-------|--|
| ompany Name: Arcadis | Client Project | Manager: Kris | Hinsk | ey | | | Site C | Contac | t: Ch | ristina W | aver | | | Lab | Contac | ct: Mil | ce Dell | Monic | | | | estAmerica Laboratories, Inc OC No: |
| ddress: 28550 Cabot Drive, Suite 500 | Telephone: 248 | 004 3340 | _ | | | | Talan | | 249.0 | 994-2240 | | | | Talar | hone | 330-4 | 07 020 | 6 | | | | |
| ity/State/Zip: Novi, MI, 48377 | | | | | | | | | | | | | | Telet | mone. | 330-4 | | | | | | 1 of 1 COCs |
| none: 248-994-2240 | Email: kristof | er.hinskey@ar | cadis.e | com | | | | nalys | is Lur | naround . | une | | | Т | | | A | nalys | es | | F | or lab use only |
| | Sampler Name | : 1 | ٨ | M | | | TAT | if differe | nt Irom | | | | | | | | | | | | V | Valk-in client |
| oject Name: Ford LTP | | Jeremy | | in | 15 | | 10 | day | | 3 weeks 2 weeks | | | | | | | | | | | L | ab sampling |
| oject Number: 30206169.0401.03 | Method of Ship | ment/Carrier: | | | | | | | | 1 week 2 days | | 2 Y | 2 | | Q | | | 0 | SIM | | | |
| D # US3410018772 | Shipping/Trac | cing No: | | _ | | | 1 | | | l day | | 2 5 | | 60D | 826 | | | 8260 | GOB | | p | ob/SDG No: |
| | | | | | Matrix | | | Contai | ners d | k Preservat | ives | | 260[| E 82 | DCE | 0 | 0 | ride | 1e 82 | | | and the second second |
| | | | \square | 5 | Ŧ | | - | | | | | Filtered Sample (Y / N) Comnosite=C / Grah=G | 1,1-DCE 8260D | cis-1,2-DCE 8260D | Irans-1,2-DCE 8260D | PCE 8260D | TCE 8260D | Vinyl Chloride 8260D | 1,4-Dioxane 8260D SIM | | | Sample Specific Notes / |
| Sample Identification | Sample Date | Sample Time | 4 | Aqueous | Sediment Solid | Other | H2S04 | HN03 | HOW | ZnAc/ NaOH Unpres | Other: | C Ife | | l-si | rans | CE | CE | /inyl | 0-4. | | | Special Instructions: |
| TRIP BLANK_] | | | | 1 | | T | | 1 | 1 | | | NG | - | | X | x | x | X | | | | 1 Trip Blank |
| | 1. J | 12.210 | + | 1 | | | ++ | | | | <u> </u> | 1. 1 | ~ | - | | | | J | ~ | | - | 3 VOAs for 8260D |
| MW-1735-110424 | 11/04/24 | 12.75 | | 6 | | | | 1 | 3 | | | NO | rΧ | × | X | × | X | ~ | 1 | | | 3 VOAs for 8260D SIM |
| | | | | | | | | | | | | | | | | | | | | 240-2142 | 439 C | ∝ ICHIGAN 190 |
| Possible Hazard Identification | t 🗂 Pois | on B | Jnki | nown | | | Sa | | | sal (A fee to Client | | assessed Disposal | | | | Ined Io Archive | | han 1 | Month) | s | | |
| pecial Instructions/QC Requirements & Comments: ubmit all results through Cadena at jtomalia@cadenaco evel IV Reporting requested. elinquished by: elinquished by: elinquished by: | Company: | dis nelis | | Date/ | Time Time Time | 1/27 1/27 1/24 | | 1.60 | Re | cceived by: | \mathcal{V} | ola A C | 15 | ter (| 1 mg | | Comp | Dany: | Tisa E | lis TA | I | Date/Time: 1/64/24/34/34.0 Date/Time: 11/6/24/11/2 Date/Time: 2010/00/00/00/00/00/00/00/00/00/00/00/00/ |
| () NUM | TET | H | | 11 | 166 | 54 | 11:2 | 20 | | | | | I)] | 7] | | | | 6 | <u>e</u> c | | | 11-7-27 80 |
| 1 Mars | | | | | | | | | _ | | | | 11 | 2 | | | | | | | | |

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| 13 | |
| 14 | |

| 19 SAMPLE CONDITION Sample(s) were received afte Sample(s) were received afte Sample(s) were received Sample(s) were received Sample(s) were received Sample(s) were received Time preserved. Preservative(s) added/Lot number(s) | Contacted PM Date by Concerning | Cooler Received on //- /- //- //- / / / / / / / |
|---|------------------------------------|---|
| were received after the recommended holding time had expired. were received in a broken container were received with bubble >6 mm in diameter (Notify PM) were further preserved in the laboratory ded/Lot number(s) | by | opened on Image Location Cheat Drop Off Eurofins Courier Other a Plashic Bag None by Le Water None cooler(s)? HY es Quantity Xca bottle kris (LLHg/MeHg)? Ycs No roc Ycs No No n? Ycs No No n? Ycs No No non Ycs No No promused? Ycs No No n? Ycs No No Receiving: n? Ycs No No No Receiving: n? Ycs No No No No n? Ycs No No No no |

WI-NC-099-092324 Cooler Receipt Form.doc

14

Temperature readings

11/7/2024

| | Voa Vial 40ml - Hydrochlorıc Acıd | 240-214439-G-2 | MW-173S_110424 |
|---|-----------------------------------|----------------|------------------|
| | Voa Vial 40ml - Hydrochlorıc Acıd | 240-214439-E-2 | MW-173S_110424 |
| | Voa Vial 40ml - Hydrochlorıc Acid | 240-214439-D-2 | MW-1735_110424 |
| | Voa Viał 40ml - Hydrochloric Acid | 240-214439-C-2 | MW-173S_110424 |
| | Voa Vial 40ml - Hydrochloric Acid | 240-214439-B-2 | MW-173S_110424 |
| | Voa Vial 40ml - Hydrochloric Acid | 240-214439-A-2 | MW-1738_110424 |
| | Voa Vial 40ml - Hydrochloric Acid | 240-214439-A-1 | TRIP BLANK_2 |
| Container Preservation Preservation pH Temp Added Lot Number | Container Type | Lab ID | Client Sample ID |

DATA VERIFICATION REPORT



November 14, 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: 30206169.0401.04_WA-03 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 214439-1 Sample date: 2024-11-04 Report received by CADENA: 2024-11-14 Initial Data Verification completed by CADENA: 2024-11-14 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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. |
| 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: 214439-1

| | | Sample Name: Lab Sample ID: Sample Date: | TRIP BL/ 240214 11/4/20 | 4391 | | | MW-173 240214 11/4/20 | 4392 | 24 | |
|----------------|--------------------------|--|-------------------------------|--------|-------|-----------|-----------------------------|--------|-------|-----------|
| | | - | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | |
| <u>OSW-826</u> | <u>0D</u> | | | | | | | | | |
| | 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| <u>OSW-826</u> | <u>ODSIM</u> | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | |



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-214439-1 CADENA Verification Report: 2024-11-14

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56922R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-214439-1 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:

| Somalo ID | Lab ID | Matrix | Sample | Barant Sampla | Analysis | | | | |
|----------------|--------------|--------|-----------------|---------------|----------|---------|--|--|--|
| Sample ID | | Matrix | Collection Date | Parent Sample | VOC | VOC SIM | | | |
| TRIP BLANK_2 | 240-214439-1 | Water | 11/04/2024 | | Х | | | | |
| MW-173S_110424 | 240-214439-2 | Water | 11/04/2024 | | Х | Х | | | |

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

| | Items Reviewed | Rep | orted | Perfor Accep | | Not |
|-----|--|-----|-------|-----------------|-----|----------|
| | | No | Yes | No | Yes | Required |
| 1. | Sample receipt condition | | Х | | Х | |
| 2. | Requested analyses and sample results | | Х | | Х | |
| 3. | Master tracking list | | Х | | Х | |
| 4. | Methods of analysis | | Х | | Х | |
| 5. | Reporting limits | | Х | | Х | |
| 6. | Sample collection date | | Х | | Х | |
| 7. | Laboratory sample received date | | Х | | Х | |
| 8. | Sample preservation verification (as applicable) | | Х | | Х | |
| 9. | Sample preparation/extraction/analysis dates | | Х | | Х | |
| 10. | Fully executed Chain-of-Custody (COC) form | | Х | | Х | |
| | 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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

| Sample ID | Initial / Continuing | Compound | CCV (%D) |
|--------------------------------|--|----------------|----------|
| TRIP BLANK_2 MW-173S_110424 | Continuing Calibration Verification %D | Vinyl chloride | -35.9% |

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

| Initial/Continuing | Criteria | Sample Result | Qualification |
|------------------------|-------------------------------------|---------------|---------------|
| | RRF <0.05 | Non-detect | R |
| | KKF <0.05 | Detect | J |
| Initial and Continuing | RRF <0.01 ¹ | Non-detect | R |
| Calibration | KKF <0.01 | Detect | J |
| | RRF >0.05 or RRF >0.01 ¹ | Non-detect | No Action |
| | | Detect | NO ACIION |

DATA REVIEW

| Initial/Continuing | Criteria | Sample Result | Qualification |
|--------------------------|---|---------------|---------------|
| | % DCD 20% as a correlation coefficient 20.00 | Non-detect | UJ |
| Initial Calibratian | %RSD > 20% or a correlation coefficient <0.99 | Detect | J |
| Initial Calibration | 1/ DOD 00% | Non-detect | R |
| | %RSD > 90% | Detect | J |
| | | Non-detect | UJ |
| | %D >20% (increase in sensitivity) | Detect | J |
| Os atissian Os libratian | | Non-detect | UJ |
| Continuing Calibration | %D >20% (decrease in sensitivity) | Detect | J |
| | | Non-detect | R |
| | %D > 90% (increase/decrease in sensitivity) | Detect | J |

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.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: 8260D/8260D-SIM | Rep | orted | Perfo Acce | Not Required | |
|---|-------|-------|---------------|-----------------|----------|
| | No | Yes | No | Yes | Nequireu |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GO | C/MS) | | | | |
| Tier II Validation | | | | | |
| Holding times/Preservation | | Х | | X | |
| Tier III Validation | | 1 | | - | 1 |
| System performance and column resolution | | Х | | X | |
| 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 | | Х | | 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

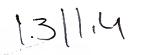
| VALIDATION PERFORMED BY: | Bindu Sree M B |
|--------------------------|-------------------|
| SIGNATURE: | BASHMB |
| DATE: | December 03, 2024 |
| | |

PEER REVIEW: Andrew Korycinski

DATE: December 6, 2024

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

| Client Contact | Regulat | ory program: | | - i "- 1 | ow. | | NPDE | 25 | | RCR/ | • | C 01 | her | | | | | | | | | | |
|--|----------------------|----------------|----------------|------------------|-----------------|-------|--------------------------------|-------------------|------------|----------|------------|---|-----------------------------|-------------------|---------------------|-------------------|------------|----------------------|-----------------------|-----------|---|-------------------------|--|
| Company Name: Arcadis | Client Project ? | Manager: Kris | Hinskey | - | | Site | Site Contact: Christina Weaver | | | | | | Lab Contact: Mike DelMonico | | | | | | | | TestAmerica Laboratories, li COC No: | | |
| ddress: 28550 Cabot Drive, Suite 500 | | | | | | | | | | | | | | | | | | | | | | | |
| City/State/Zip: Novi, MI, 48377 | Telephone: 248 | -994-2240 | | | | Tele | phone | : 248-9 | 994-2 | 240 | | | | Telep | hone: 3 | 30-49 | 7-9396 | | | | | 1 of 1 COCs | |
| | Email: kristoff | er.hinskey@arc | adis.com | 1 | | / | Analy | sis Tur | 10350 | und Tu | DC . | | | | | | Ana | ilyse | 5 | | | For lab use only | |
| Phone: 248-994-2240 | Famalan Nama | | | | - | TAT | of doffer | rent from | 1 helow | - 1 | | | | | | | | - 1 | | | | Walk-in client | |
| Project Name: Ford LTP | Sampler Name | Jeremy | Ma | 3310 | | | | | 3 w | eeks | | 1 | | | | | | | | | | | |
| Project Number: 30206169.0401.03 | Method of Ship | | | μ | | - " | 0 day | | 2 w 1 w | | | | | | | | | | | | | Σ | |
| - | | | | | | _ | | | 2 d | • | | Filtered Sample (Y / N) Commentie=C / Crah=G | | 0 | 2600 | | | | 1,4-Dioxane 8260D SIM | | | Inh/CDC No. | |
| O # U\$3410018772 | Shipping/Track | ing No: | | | | | | 1 | 1 d | ay | | D e C | 8 | cis-1,2-DCE 8260D | Trans-1,2-DCE 8260D | | 909 | Vinyl Chloride 8260D | 9260 | | | Job/SDG No: | |
| | | | | Matr | ix | | Conta | iners d | & Pres | crvative | 3 | Sam | 1,1-DCE 8260D | СE. | 2-DC | 8 | e | orid | ane | | | | |
| | | | 10 | te | | 7 | | = | | 5 | :: | red | DCE | 2-D | s-1; | PCE 8260D | TCE 8260D | S | XOIO | | | Sample Specific Notes / | |
| Sample Identification | Sample Date | Sample Time | Air Aqueous | Sediment | Solid Other: | H2S04 | IINOS | HCI NaOH | ZnAc/ | Unpres | din of the | | 1 | cis-1 | Tran | PCE | 10 | ν. | 1.4-1 | | | Special Instructions: | |
| TRIP BLANK_] | | | 1 | Π | | | | 1 | T | Π | | NC | x is | х | х | х | X [| x | | Π | | 1 Trip Blank | |
| 1011 1026 10 100 | 24 Last int | 17.20 | 6 | | + | | - | <u></u> | + | + | | 111 | - X | × | V | ./ | ~ | X | * | | | 3 VOAs for 8260D | |
| MW-1735-110424 | 11/64/24 | 16.72 | V | | | | | 0 | | | | NO | | ^ | X | X | Χ. | - | | | | 3 VOAs for 8260D SIM | |
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| Possible Hazard Identification | Irritant Poisc | n P C | Jnknow | | | Sa | ample | Dispo Return t | sal (/ | A fee m | ay be a | ssessed isposal | if samp By Lab | les are | retain | ed lon chive l | ger tha | n 1 n | onth) Months | | | | |
| Special Instructions/QC Requirements & Comments: | initiant i roise | D | | | | | | ccum | 10 011 | | | 1390301 | 5, 240 | | | | | | | | | | |
| Submit all results through Cadena at jtomalia@cad Level IV Reporting requested. | enaco.com. Cadena #E | 203728 | 1 1 | (ask | २०० | Ø | | | | | | | | | | | | | | | | | |
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| Relinquished by: | Company: | 150 | Da | te/Time | 1-1 | 1 | | Re | ceive | d by: | 2 | D. | , A | + | _ | C | Compa | 19: - | 7-7 | -2 | | Date/Time: | |
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| U CHIXA | | | | 10 | - YY | 11.4 | | | | | | | f . | | _ | | | | | | | | |
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Qualifiers

| GC/MS VOA | |
|----------------|---|
| Qualifier | Qualifier Description |
| 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. |
| ¢ | 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 |

Client Sample ID: TRIP BLANK_2

Date Collected: 11/04/24 00:00

Date Received: 11/07/24 08:00

| 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 | | | 11/10/24 22:15 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/10/24 22:15 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/10/24 22:15 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/10/24 22:15 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/10/24 22:15 | 1 |
| Vinyl chloride | 1.0 | ₩ UJ | 1.0 | 0.45 | ug/L | | | 11/10/24 22:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 62 - 137 | | | - | | 11/10/24 22:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 56 - 136 | | | | | 11/10/24 22:15 | 1 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | | | | 11/10/24 22:15 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 73 - 120 | | | | | 11/10/24 22:15 | 1 |

Client Sample ID: MW-173S_110424

Date Collected: 11/04/24 12:45

| Date | Received: | 11/07/24 | 08:00 |
|------|------------------|----------|-------|

Dibromofluoromethane (Surr)

| 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 | | | 11/11/24 12:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 68 - 127 | | | | | 11/11/24 12:36 | 1 |

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

111

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/11/24 03:19 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/11/24 03:19 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/11/24 03:19 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/11/24 03:19 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/11/24 03:19 | 1 |
| Vinyl chloride | 1.0 | ₩ UJ | 1.0 | 0.45 | ug/L | | | 11/11/24 03:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 _ 137 | | | - | | 11/11/24 03:19 | 1 |
| 4-Bromofluorobenzene (Surr) | 91 | | 56 - 136 | | | | | 11/11/24 03:19 | 1 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | | | | 11/11/24 03:19 | 1 |

73 - 120

Lab Sample ID: 240-214439-1 Matrix: Water

11/11/24 03:19

1

Lab Sample ID: 240-214439-2

Matrix: Water