

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/20/2024 12:43:49 PM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204311-1

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

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

Qualifiers

| Qualifiers | | _ 3 |
|----------------|---|-----|
| GC/MS VOA | | |
| Qualifier | Qualifier Description | _ 4 |
| 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 | 0 |
| DER | Duplicate Error Ratio (normalized absolute difference) | |
| Dil Fac | Dilution Factor | 9 |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | |
| MDA | Minimum Detectable Activity (Radiochemistry) | 13 |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |
| | | |

Job ID: 240-204311-1

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Job Narrative 240-204311-1

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 5/11/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.2°C and 3.9°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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Client: Arcadis U.S., 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

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

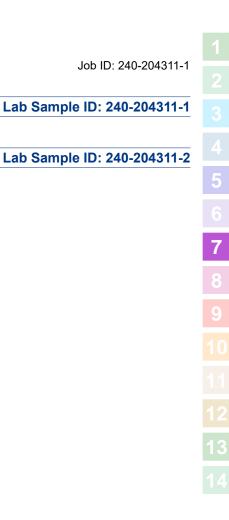
| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-204311-1 | TRIP BLANK_23 | Water | 05/08/24 00:00 | 05/11/24 08:00 |
| 240-204311-2 | MW-88S_050824 | Water | 05/08/24 13:35 | 05/11/24 08:00 |

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP Client Sample ID: TRIP BLANK_23 Client Sample ID: MW-88S_050824

No Detections.

No Detections.



Client Sample ID: TRIP BLANK_23

Date Collected: 05/08/24 00:00 Date Received: 05/11/24 08:00

| 1 | 0 1 | ID. | 040 004044 4 |
|-----|--------|-----|--------------|
| Lab | Sample | ID: | 240-204311-1 |
| | | | |

Matrix: Water

Job ID: 240-204311-1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| ,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/17/24 23:20 | 1 |
| sis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/17/24 23:20 | 1 |
| letrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:20 | 1 |
| rans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/17/24 23:20 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:20 | 1 |
| /inyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/17/24 23:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| ,2-Dichloroethane-d4 (Surr) | 102 | | 62 - 137 | | | - | | 05/17/24 23:20 | 1 |
| I-Bromofluorobenzene (Surr) | 93 | | 56 - 136 | | | | | 05/17/24 23:20 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | | | | 05/17/24 23:20 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | | | | 05/17/24 23:20 | 1 |

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Client Sample ID: MW-88S_050824

Date Collected: 05/08/24 13:35 Date Received: 05/11/24 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 | | | 05/15/24 17:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 68 - 127 | | | - | | 05/15/24 17:55 | 1 |
| Method: SW846 8260D - Volati | ile Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/17/24 23:43 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/17/24 23:43 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:43 | 1 |
| rans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/17/24 23:43 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:43 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/17/24 23:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | | - | | 05/17/24 23:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 | | | | | 05/17/24 23:43 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | | | | 05/17/24 23:43 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 73 - 120 | | | | | 05/17/24 23:43 | 1 |

5/20/2024

Lab Sample ID: 240-204311-2 Matrix: Water

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

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM **Client Sample ID** (62-137) (56-136) (78-122) (73-120) Lab Sample ID TRIP BLANK_23 240-204311-1 93 97 102 102 240-204311-2 MW-88S_050824 105 98 97 98 240-204311-2 MS MW-88S_050824 96 105 101 94 MW-88S_050824 97 240-204311-2 MSD 103 98 97 LCS 240-613497/4 Lab Control Sample 95 102 102 94 MB 240-613497/7 Method Blank 105 93 100 100 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) | | |
| 240-204203-C-1 MS | Matrix Spike | 109 | | |
| 240-204203-C-1 MSD | Matrix Spike Duplicate | 111 | | |
| 240-204311-2 | MW-88S_050824 | 105 | | |
| LCS 240-613063/4 | Lab Control Sample | 103 | | |
| MB 240-613063/6 | Method Blank | 108 | | |
| | | | | |

Surrogate Legend

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

Job ID: 240-204311-1

Prep Type: Total/NA

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

Lab Sample ID: MB 240-613497/7

Matrix: Water Analysis Batch: 613497

| | MB | МВ | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/17/24 22:57 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/17/24 22:57 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 22:57 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/17/24 22:57 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 22:57 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/17/24 22:57 | 1 |
| | | | | | | | | | |

| | MB | МВ | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | 05/17/24 22:57 | 1 |
| 4-Bromofluorobenzene (Surr) | 93 | | 56 - 136 | | 05/17/24 22:57 | 1 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 | | 05/17/24 22:57 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | 05/17/24 22:57 | 1 |

Lab Sample ID: LCS 240-613497/4 Matrix: Water Analysis Batch: 613497

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 25.0 | 21.1 | | ug/L | | 84 | 63 - 134 | |
| cis-1,2-Dichloroethene | 25.0 | 23.0 | | ug/L | | 92 | 77 - 123 | |
| Tetrachloroethene | 25.0 | 22.2 | | ug/L | | 89 | 76 - 123 | |
| trans-1,2-Dichloroethene | 25.0 | 20.8 | | ug/L | | 83 | 75 - 124 | |
| Trichloroethene | 25.0 | 21.4 | | ug/L | | 86 | 70 - 122 | |
| Vinyl chloride | 12.5 | 11.2 | | ug/L | | 89 | 60 - 144 | |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 - 136 |
| Toluene-d8 (Surr) | 102 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 94 | | 73 - 120 |

Lab Sample ID: 240-204311-2 MS Matrix: Water Analysis Batch: 613497

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|--------------------------|-----------|-----------|--------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 19.0 | | ug/L | | 76 | 56 - 135 | |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 21.3 | | ug/L | | 85 | 66 - 128 | |
| Tetrachloroethene | 1.0 | U | 25.0 | 18.1 | | ug/L | | 72 | 62 - 131 | |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 18.6 | | ug/L | | 74 | 56 - 136 | |
| Trichloroethene | 1.0 | U | 25.0 | 17.7 | | ug/L | | 71 | 61 - 124 | |
| Vinyl chloride | 1.0 | U | 12.5 | 10.4 | | ug/L | | 83 | 43 - 157 | |
| | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1.0.0:11 // 14/0 | | - | | | | | | | | |

| %Recovery | Qualifier | Limits |
|-----------|-----------|----------|
| 96 | | 62 - 137 |
| 105 | | 56 - 136 |
| 101 | | 78 - 122 |
| | 96 105 | 105 |

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

Client Sample ID: MW-88S_050824 Prep Type: Total/NA

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Job ID: 240-204311-1

Prep Type: Total/NA

10

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

| Lab Sample ID: 240-204311 Matrix: Water | -2 MS | | | | | | | | Cli | ient San | nple ID: MW Prep Ty | _ | |
|--|--|---|----------------------------------|--|----------------|------------------------------|--------------|------------|-----------------|---|---|---|---|
| Analysis Batch: 613497 | | | | | | | | | | | | | |
| | MS | MS | | | | | | | | | | | |
| Surrogate | %Recovery | Qualifie | r | Limits | | | | | | | | | |
| Dibromofluoromethane (Surr) | 94 | | | 73 - 120 | | | | | | | | | |
| Lab Sample ID: 240-204311 | -2 MSD | | | | | | | | Cli | ient San | nple ID: MW | | |
| Matrix: Water | | | | | | | | | | | Prep T | /pe: 10 | |
| Analysis Batch: 613497 | Sample | Samnlo | | Spike | MSD | MSD | | | | | %Rec | | RP |
| Analyte | • | Qualifie | | Added | | Qualifier | Unit | | D | %Rec | Limits | RPD | Lim |
| 1,1-Dichloroethene | | | | 25.0 | 21.5 | | ug/L | | _ | 86 | 56 - 135 | 13 | 2 |
| cis-1,2-Dichloroethene | 1.0 | | | 25.0 | 22.8 | | ug/L | | | 91 | 66 - 128 | 7 | 1 |
| Tetrachloroethene | 1.0 | | | 25.0 | 19.7 | | ug/L | | | 79 | 62 - 131 | 8 | 2 |
| trans-1,2-Dichloroethene | 1.0 | | | 25.0 | 21.2 | | ug/L | | | 85 | 56 - 136 | 13 | |
| Trichloroethene | 1.0 | | | 25.0 | 19.5 | | ug/L | | | 78 | 61 - 124 | 10 | 1 |
| Vinyl chloride | 1.0 | | | 12.5 | 11.4 | | ug/L | | | 78 91 | 43 - 157 | 9 | 2 |
| | 1.0 | 0 | | 12.0 | 11.4 | | uy/L | | | 31 | - 0 - 101 | J | 2 |
| | MSD | MSD | | | | | | | | | | | |
| Surrogate | %Recovery | Qualifie | er | Limits | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | | 62 - 137 | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 103 | | | 56 - 136 | | | | | | | | | |
| Toluene-d8 (Surr) | 98 | | | 78 - 122 | | | | | | | | | |
| Dibromofluoromethane (Surr) | 97 | | | 73 - 120 | | | | | | | | | |
| lethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 | | Com | pound | ds (GC/MS) | | | | | | Client S | ample ID: M | | |
| lethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water | | Com | pound | ds (GC/MS) | | | | | | Client S | | lethod /pe: To | |
| lethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water | | Com | - | ds (GC/MS) | | | | | | Client S | | | |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte | 3063/6 | MB ME esult Qu | B | | | MDL Uni | | D | | Client S | Prep Ty | /pe: To | tal/N/ Dil Fa |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte | 3063/6 | мв ме | B | | | MDL Uni 0.86 ug/ | | | | | Prep T | /pe: To | tal/N/ Dil Fa |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte | 3063/6 | MB ME esult Qu | B Jalifier | | | | | <u> </u> | | | Prep Ty | /pe: To | tal/N/ Dil Fa |
| lethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte | 3063/6 | MB MB esult Qu 2.0 U MB MB | B Jalifier | | | | | _ <u>D</u> | Pı | | Prep Ty | ype: To ed 0:06 | tal/N/ Dil Fa |
| Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane | 8063/6 Re | MB MB esult Qu 2.0 U MB MB | B Jalifier | RL 2.0 | | | | _ <u>D</u> | Pı | repared | Analyze 05/15/24 1 | /pe: To ed 0:06 | Dil Fa |
| Iethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) | 8063/6 Re %Reco | MB MB esult Qu 2.0 U MB MI very Qu | B Jalifier | | | | | | Pı Pi | repared repared | Analyze 05/15/24 1 Analyze 05/15/24 1 | /pe: To ad 0:06 — ad 0:06 — | Dil Fa |
| lethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 | 8063/6 Re %Reco | MB MB esult Qu 2.0 U MB MI very Qu | B Jalifier | | | | | | Pı Pi | repared repared | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 05/15/24 1 05/15/24 1 | /pe: To | Dil Fa |
| Iethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 | 8063/6 Re %Reco | MB MB esult Qu 2.0 U MB MI very Qu | B Jalifier | | | | | | Pı Pi | repared repared | Analyze 05/15/24 1 Analyze 05/15/24 1 | /pe: To | Dil Fa |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water | 8063/6 Re %Reco | MB MB esult Qu 2.0 U MB MI very Qu | B Jalifier | | | | | | Pı Pi | repared repared | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 05/15/24 1 05/15/24 1 | /pe: To | Dil Fa |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water | 8063/6 Re %Reco | MB MB esult Qu 2.0 U MB MI very Qu | B Jalifier | | LCS | | | | Pı Pi | repared repared | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 05/15/24 1 05/15/24 1 | /pe: To | Dil Fa |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 | 8063/6 Re %Reco | MB MB esult Qu 2.0 U MB MI very Qu | B Jalifier | RL 2.0 68 - 127 | | 0.86 ug/ | L | | Pı Pi | repared repared | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 05/15/24 1 05/15/24 1 Prep Type | /pe: To | Dil Fa |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 | 8063/6 Re %Reco | MB MB esult Qu 2.0 U MB MI very Qu | B Jalifier | | | 0.86 ug/ | L | | Pi Pi ent | repared repared Sample | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 Bill: Lab Co Prep Ty %Rec | /pe: To | Dil Fa |
| Method: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 | 8063/6 | MB MB esult Qu 2.0 U MB MI very Qu 108 | B Jalifier | | Result | 0.86 ug/ | Unit | | Pi Pi ent | repared repared Sample %Rec | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 D: Lab Co Prep Ty %Rec Limits | /pe: To | Dil Fa |
| Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane | 2063/6 | MB MB esult Qu 2.0 U MB MI very Qu 108 | B Jualifier B Jualifier | RL 2.0 2.0 68 - 127 68 - 127 68 - 127 68 - 127 68 - 127 68 - 127 | Result | 0.86 ug/ | Unit | | Pi Pi ent | repared repared Sample %Rec | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 D: Lab Co Prep Ty %Rec Limits | /pe: To | Dil Fac |
| Iethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analyte 1,4-Dioxane Surrogate 1,4-Dioxane | 2063/6 | MB MB esult Qu 2.0 U MB MI very Qu 108 | B Jualifier B Jualifier | RL 2.0 2.0 68 - 127 68 - 127 68 - 127 | Result | 0.86 ug/ | Unit | | Pi Pi ent | repared repared Sample %Rec | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 D: Lab Co Prep Ty %Rec Limits | /pe: To | Dil Fa |
| Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane | 2063/6 | MB MB esult Qu 2.0 U MB MI very Qu 108 | B Jualifier B Jualifier | RL 2.0 2.0 68 - 127 68 - 127 68 - 127 68 - 127 68 - 127 68 - 127 | Result | 0.86 ug/ | Unit | | Pi Pi ent | repared repared Sample %Rec | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 D: Lab Co Prep Ty %Rec Limits | /pe: To | Dil Fa |
| Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) | 2063/6 Recon 3063/4 LCS LCS 103 | MB MB esult Qu 2.0 U MB MI very Qu 108 | B Jualifier B Jualifier | RL 2.0 2.0 68 - 127 68 - 127 68 - 127 | Result | 0.86 ug/ | Unit | | Pi Pi ent | repared repared Sample <u>%Rec</u> 92 | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 05/15/24 1 ID: Lab Co Prep Ty %Rec Limits 75 - 121 | /pe: To d 0:06 | Dil Fa Dil Fa Dil Fa |
| Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-204203 | 2063/6 Recon 3063/4 LCS LCS 103 | MB MB esult Qu 2.0 U MB MI very Qu 108 | B Jualifier B Jualifier | RL 2.0 2.0 68 - 127 68 - 127 68 - 127 | Result | 0.86 ug/ | Unit | | Pi Pi ent | repared repared Sample <u>%Rec</u> 92 | Analyze 05/15/24 1 Analyze 05/15/24 1 Analyze 05/15/24 1 Prep Ty %Rec Limits 75 - 121 Sample ID: | ype: To d 0:06 | Dil Fa Dil Fa ample tal/NA |
| Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-204203 Matrix: Water | 2063/6 Recon 3063/4 LCS LCS 103 | MB MB esult Qu 2.0 U MB MI very Qu 108 | B Jualifier B Jualifier | RL 2.0 2.0 68 - 127 68 - 127 68 - 127 | Result | 0.86 ug/ | Unit | | Pi Pi ent | repared repared Sample <u>%Rec</u> 92 | Analyze 05/15/24 1 Analyze 05/15/24 1 05/15/24 1 05/15/24 1 ID: Lab Co Prep Ty %Rec Limits 75 - 121 | ype: To d 0:06 | Dil Fac |
| Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-613 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-61 Matrix: Water Analysis Batch: 613063 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-204203 | 2063/6 | MB MI esult Qu 2.0 U MB MI very Qu 108 | B Jualifier B Jualifier | RL 2.0 2.0 | Result 9.17 | 0.86 ug/ LCS Qualifier | Unit | | Pi Pi ent | repared repared Sample <u>%Rec</u> 92 | Analyze 05/15/24 1 Analyze 05/15/24 1 Analyze 05/15/24 1 Prep Ty %Rec Limits 75 - 121 Sample ID: Prep Ty | ype: To d 0:06 | Dil Fac |
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Eurofins Cleveland

Job ID: 240-204311-1

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

| | MS | MS | | | | | | | | | |
|------------------------------|-----------|-----------|----------|--------|-----------|------|-----------|----------|--------------|----------|---------|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 68 - 127 | | | | | | | | |
| Lab Sample ID: 240-204203- | C-1 MSD | | | | | C | Client Sa | ample IC |): Matrix Sp | oike Dup | olicate |
| Matrix: Water | | | | | | | | | | Type: To | |
| Analysis Batch: 613063 | | | | | | | | | | | |
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,4-Dioxane | 1.1 | J | 10.0 | 10.4 | | ug/L | | 93 | 20 - 180 | 0 | 20 |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| Sunogate | | | | | | | | | | | |

Eurofins Cleveland

GC/MS VOA

240-204311-2 MS

240-204311-2 MSD

MW-88S_050824

MW-88S_050824

Analysis Batch: 613063

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|----------------------------------|-----------------------|-----------------|--------------|------------|
| 240-204311-2 | MW-88S_050824 | Total/NA | Water | 8260D SIM | |
| MB 240-613063/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| _CS 240-613063/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-204203-C-1 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| | | T-+-1/NIA | Water | 8260D SIM | |
| | Matrix Spike Duplicate 7 | Total/NA | water | 8200D SIM | |
| 240-204203-C-1 MSD nalysis Batch: 61349 Lab Sample ID | | Prep Type | Matrix | Method | Prep Batch |
| nalysis Batch: 61349 | 7 | | | | Prep Batch |
| nalysis Batch: 61349 Lab Sample ID 240-204311-1 | 7 Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| nalysis Batch: 61349 Lab Sample ID | 7 Client Sample ID TRIP BLANK_23 | Prep Type Total/NA | Matrix Water | Method 8260D | Prep Batcl |

Total/NA

Total/NA

Water

Water

8260D

8260D

Client Sample ID: TRIP BLANK_23

| Client Samp | le ID: TRIP E | BLANK_23 | | | | | | Lab Sample ID: | 240-204311-1 |
|----------------|------------------|-----------|-----|----------|--------|---------|---------|----------------|---------------|
| Date Collected | : 05/08/24 00:0 | 0 | | | | | | - | Matrix: Water |
| Date Received | : 05/11/24 08:00 |) | | | | | | | |
| _ | Batch | Batch | | Dilution | Batch | | | Prepared | |
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed | |
| Total/NA | Analysis | 8260D | | 1 | 613497 | LEE | EET CLE | 05/17/24 23:20 | |
| Client Samp | le ID: MW-88 | 3S_050824 | | | | | | Lab Sample ID: | 240-204311-2 |
| Date Collected | : 05/08/24 13:3 | 5 | | | | | | | Matrix: Water |
| Date Received | : 05/11/24 08:00 |) | | | | | | | |
| _ | | - | | | | | | | |

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 613497 | LEE | EET CLE | 05/17/24 23:43 |
| Total/NA | Analysis | 8260D SIM | | 1 | 613063 | MDH | EET CLE | 05/15/24 17:55 |

Laboratory References:

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

12 13

Accreditation/Certification Summary

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

13

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 (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 |



Chain of Custody Record

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

| Client Contact | Regulat | ory program | : | Ē | DW | | | PDES | | □ RCRA | (*** | Other | | | | | | | | |
|---|--------------------|---------------|----------|---------------------|--------|----------|---------|------------|------------------|-----------------------------------|-------------------------|---------------------|------------------------------------|---------------------|-----------|-----------|----------------|-----------------------|---|---|
| ompany Name: Arcadis | | | | | | | | | | | | | 1 | | | | | | | TestAmerica Laboratories, I |
| ddress: 28550 Cabot Drive, Suite 500 | Client Project | Manager: Kris | Hinsk | ley | | ľ | Site Ce | ontact: | : Chr | ristina Weaver | | | Lab | Conta | ict: Mi | ike Del | Moni | :0 | | COC No: 2 |
| | Telephone: 248 | -994-2240 | | | | | Feleph | one: 2 | 48-99 | 94-2240 | | | Tele | phone | : 330- | 197-93 | 96 | | | 1 of 1 COCs |
| ity/State/Zip: Novi, MI, 48377 | Email: kristoff | er.hinskey@ar | cadis. | com | | | Ar | alysis | Turn | naround Time | | | _ | - | | Α | naiy | ses | | 1 of 1 COCs For lab use only |
| hone: 248-994-2240 | | | | | | | | | | | | | | | | | | | | and the second se |
| roject Name: Ford LTP | Sampler Name | Maria | | 4. | | · | LAT if | differ ent | | 3 weeks | | | | | | | | | | Walk-in client |
| roject Number: 30206169.0401.03 | | 1° laryar | <u>n</u> | Har | an | <u>ı</u> | 10 | day | | 2 weeks 1 week | | | | | | | | - | | Lab sampling |
| roject Aumoet, 30200109,0401.03 | Method of Ship | ment/Carrier: | | | | | | | | 2 days | R | P | | 200 | | | g | SIN C | | |
| O # US3410018772 | Shipping/Track | cing No: | | | | | | | 1 | 1 day | e O. | Gra | 260C | 826 | | | 8260D | 2600 | | Job/SDG No: |
| | | | | М | atrix | | C | ontaine | ers Si | Preservatives | | Ú S | 260 2E 8 | DCE | 0 | 0 | ride | 90 80 | | |
| | | | | Aqueous Sediment | Solid | ther: | HISON | HCI | NaOH | ZaAc' NaOH Unpres Other: | Filtered Sample (Y / N) | Composite=C / Grab | 1,1-DCE 8260D cis-1,2-DCE 8260D | Trans-1,2-DCE 8260D | PCE 8260D | TCE 8260D | Vinyl Chloride | 1.4-Dioxane 8260D SIM | | Sample Specific Notes / Special Instructions: |
| Sample Identification | Sample Date | Sample Time | 7 | PA See | ž | ð | EB | Ě | Ž | 52 5 8 | = | <u>с</u> | <u>- 5</u> | F | ă | Ĕ | ž | | | |
| TRIP BLANK_ 23 | | | | 1 | | | | 1 | | | N | G | x x | X | X | X | X | | | 1 Trip Blank |
| MW-885_050824 | 5/8/24 | 1335 | | 6 | | | | 6 | 7 | | N | G | x x | X | X | \times | X | X | | 3 VOAs for 8260D 3 VOAs for 8260D SIM |
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| Possible Hazard Identification | ritant 🗆 Poise | on B I | Jnk | nown | | | San | Retu | ispos: urn to | al (A fee may b Client 🔽 | Dispos: | id if sa il By L | mples a ab | | | e For 1 | | Months | | |
| pecial Instructions/QC Requirements & Comments: 3 | 4965 Wa | dsivort | 2 | | | | | | | | | | | | | | | | | |
| ubmit all results through Cadena at jtomalia@cadena evel IV Reporting requested. | ico.com. Cadena #E | 203728 | 1 | | | | | | | | | | | | | | | | | |
| clinquished by: | Company: / | | | Date/T | me: . | · · · | | | Reco | ciwed by: | 1 | | | | | Com | bany: | ,- | | Date/Time: |
| MayamManeul | Company: | 5 | | Date/T | 8/2 | 1 | 63 | D | 1 | Von Ce | ld B | taro | 3l | , | | A | ra | du | | 5/8/24 1630 |
| alinquished K. Arman Small | Company: | odis | | Dation | 917 | 24 | 09 | 00 | Rec | Doed | 8 Ŵ | lor | 1391 | 1 | | Com | E | ETA | | SIOZA DAD |
| elinquished by: | Company: | | | Date/ | me: In | | | | Rec | ceived in Capor | atory by | | | | | Com | pane | 701 | | Date Title: 1 ALL CAT |
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| 19 SAMPLE CONDITION Sample(s) | ConnearingOVVA Y GIDE VOICE MAIL OUTE 18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by | Signal and the second state of the cooler(s)? If Yes and the sample (b)? The person of the second state of the cooler(s)? If Yes Quantity is a large of the second state of the cooler(s)? If Yes Quantity is a large of the COC? Is a sample s and all hated on the COC? In the COC? Is a sample s and all hated on the COC? Is anyle (s) at the correct pil upon recept? A try blank present in the cooler(s)? The Blank Lat $\#$ with a large of Me Hg try blank present? |
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| IQ . | $h\mathcal{E}$ | T.E | | Box Olher | EO Client |
| Coolant (Circle) | Corrected Temp °C | Observed Temp.°C | IR Gun # (Circle) | Cooler Description | |
| | iltiple Gooler Form | Eurofins - Cleveland Sample Receipt Multiple Cooler Form. | Eurofins - Clevelan | | |

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



Temperature readings

| MW-88S_050824 | MW-88S_050824 | MW-88S_050824 | MW-88S_050824 | MW-88S_050824 | MW 88S_050824 | TRIP BLANK_23 | <u>Client Sample ID</u> |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|
| 240-204311-F-2 | 240-204311-E-2 | 240-204311 D-2 | 240-204311-C-2 | 240-204311-B-2 | 240-204311-A-2 | 240-204311-A-1 | <u>Lab ID</u> |
| Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acıd | Voa Viał 40ml - Hydrochlorıc Acıd | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acid | Container Type |
| | | | | | | | <u>Container</u> Preservation Preservation pH Temp Added Lot Number |

DATA VERIFICATION REPORT



May 20, 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: 204311-1 Sample date: 2024-05-08 Report received by CADENA: 2024-05-20 Initial Data Verification completed by CADENA: 2024-05-20 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

| Valid 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: 204311-1

| | Sample Name: Lab Sample ID: Sample Date: | TRIP BLA 2402043 5/8/2024 | 5111 | | | MW-885 2402043 5/8/2024 | | | |
|------------------|--|---------------------------------|-----------------|-------|--------------------|-------------------------------|-----------------|-------|--------------------|
| Analy | rte Cas No. | Result | Report Limit | Units | Valid Qualifier | Result | Report Limit | Units | Valid Qualifier |
| GC/MS VOC | | nesut | Linit | Units | Quantier | nesut | Linit | Units | Quatinei |
| <u>OSW-8260D</u> | | | | | | | | | |
| 1,1-Dichloroethe | ene 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| cis-1,2-Dichloro | ethene 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| Tetrachloroethe | ne 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| trans-1,2-Dichlo | roethene 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 | |
| OSW-8260DSIM | | | | | | | | | |
| 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 # 240-204311-1 CADENA Verification Report: 2024-05-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54262R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204311-1 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 | Sample | Barant Sampla | Analysis | | | | |
|---------------|--------------|--------|-----------------|---------------|----------|---------|--|--|--|
| Sample ID | | Matrix | Collection Date | Parent Sample | VOC | VOC SIM | | | |
| TRIP BLANK_23 | 240-204311-1 | Water | 05/08/2024 | | Х | | | | |
| MW-88S_050824 | 240-204311-2 | Water | 05/08/2024 | | Х | Х | | | |

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

| | Items Reviewed | Rep | orted | | mance otable | Not Required |
|-----|--|-----|-------|----|-----------------|-----------------|
| | | 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 | | X | |
| 5. | Reporting limits | | Х | | Х | |
| 6. | Sample collection date | | Х | | Х | |
| 7. | Laboratory sample received date | | Х | | X | |
| 8. | Sample preservation verification (as applicable) | | Х | | Х | |
| 9. | Sample preparation/extraction/analysis dates | | Х | | Х | |
| 10. | Fully executed Chain-of-Custody (COC) form | | Х | | Х | |
| 11. | Narrative summary of Quality Assurance or sample 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 HCI |

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

All compounds associated with the 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.

DATA REVIEW

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 | | Performance Acceptable | | | |
|---|-------|-------|----|---------------------------|----------|--|--|
| | No | Yes | No | Yes | Required | | |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G | C/MS) | | | | | | |
| Tier II Validation | | | | | | | |
| Holding times/Preservation | | Х | | Х | | | |
| Tier III Validation | | 1 | | | 1 | | |
| 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 | | Х | | Х | | | |
| E. Reporting limits adjusted to reflect sample dilutions | | Х | | Х | | | |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

| VALIDATION PERFORMED BY: | Bindu Sree M B |
|--------------------------|----------------|
| SIGNATURE: | BASHMB |
| DATE: | June 10, 2024 |
| | |

PEER REVIEW: Andrew Korycinski

DATE: June 12, 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

| Client Contact | Regulat | ory program: | | Г | - DW | | | PDE | s | | RCRA | | [Otl | er 🗌 | | | | | | | | | - | | | | | |
|--|----------------|---------------|---------|---------------------|-------|--------|--------------------------|-------|------------------|------------|------------------|-----------------|---|-------------------------------------|-------------|---------------|------------------|-----------|----------------------|-----------------------|------------|-------------|----------|-----------------|----------------------|-------|---------|-----|
| Company Name: Arcadis | Client Project | Manager: Kris | Hinske | :v | | | Site C | onta | ct: Ch | risti | 1a Weav | er | | | Lab | Conta | t: Mil | ke Del | Monic | v | | · · · · · · | | tAmeri C No: | <u>ca Lab</u> | orato | ries, h | ac. |
| Address: 28550 Cabot Drive, Suite 500 | Telephone: 248 | | | | | | Telep | | | | | _ | | | | | 330-4 | | | | | | + | | 2 | | | 4 |
| City/State/Zip: Novi, MI, 48377 | | er.hinskey@ar | andica | | | | Analysis Turnaround Time | | | Analyses | | | | 1 of 1 COCs For lab use only | | | 7 | | | | | | | | | | | |
| Phone: 248-994-2240 | 1 | | cauls.c | om | | | | | | 1 | | _ | | F | | | [| | | | | | | | 110.0 | 10-1 | | |
| Project Name: Ford LTP | _Sampler Name | Maryan | nt | lar | an | L | TAT | | 10 | | ceks | | | | | | | | | | | | | k-in clie | | | | |
| Project Number: 30206169.0401.03 | Method of Ship | ment/Carrier: | | V | | | 10 | day | 10 | 1 v 2 d | eek | | 29 | | | 0 | | | | SIM | | | 1.30 | samplin | g | | | |
| PO # US3410018772 | Shipping/Tracl | ing No: | - | | | | | | | 1 d | - | | Grab | | 8260D | 8260D | | | 8260[| 260D | | | Job/ | SDG No | | | | |
| | | | | M | atrix | | | Conta | iners 3 | & Pre | crvatives | | Samp | 8260 | CE 8 | -DCE | Q | 9 | oride | ane 8 | | | | | | | - | |
| Sample Identification | Sample Date | Sample Time | Air | Aqueous Sediment | Solid | Other: | H2SO4 | EONI | NaOH | ZnAci | Unpres Other: | | Filtered Sample (Y / N) Composite=C / Grab=G | 1,1-DCE 8260D | cis-1,2-DCE | Trans-1,2-DCE | PCE 8260D | TCE 8260D | Vinyl Chloride 8260D | 1,4-Dioxane 8260D SIM | | | | | le Speci ial Inst | | | |
| TRIP BLANK_ 23 | | | Π | 1 | | | Ī | - | 1 | | | | NG | X | X | X | х | х | х | | | | 1 | Trip | Blan | k | | ٦, |
| MW-885_050824 | 5/8/24 | 1335 | | 6 | | | | | 6 | | | | NG | | x | X | x | × | X | X | | | | | s for 8 | 2600 | | |
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| Possible Hazard Identification | t 🗆 Poise | n B | Jnkn | own | | | Sa | | Dispo eturn l | | A fee mag | y be ass Dis | | | les ar | | ned lo rchive | | han l | |) onths | | | | | | | |
| Special Instructions/QC Requirements & Comments: 340 | | dSivat |) | | | | L | | | | | | | / | | | | | | | | | _ | | | | | |
| Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested. | | 203728 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: Mr. Hum Maneur | Company: | 5 | 1 | Date T | 8/2 | 1 | je? | 50 | Re | Ni | | eld | Sto | rola | e. | | | Coupr | anv: | du | | | Date | Time 181 | 24 | 16 | 23D |) |
| Relinquished by | Company: | odis | 1 | 3 | 917 | 24 | 09 | | | Ŷ | d by: | B | Me | n | ¥91 | 1 | | Com | E | Ē | ΓA | - | Date | Tinle: | 24 | D | 90. | |
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Client Sample ID: TRIP BLANK_23

Date Collected: 05/08/24 00:00

Date Received: 05/11/24 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 | | | 05/17/24 23:20 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/17/24 23:20 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:20 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/17/24 23:20 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:20 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/17/24 23:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 62 - 137 | | | - | | 05/17/24 23:20 | 1 |
| 4-Bromofluorobenzene (Surr) | 93 | | 56 - 136 | | | | | 05/17/24 23:20 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | | | | 05/17/24 23:20 | 1 |

73 - 120

Client Sample ID: MW-88S_050824

Date Collected: 05/08/24 13:35

Dibromofluoromethane (Surr)

Dibromofluoromethane (Surr)

| Date | Received: | 05/11/24 | 08:00 |
|------|-----------|----------|-------|

| Method: SW846 8260D SIM - Vol | atile 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 | | | 05/15/24 17:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 68 - 127 | | | _ | | 05/15/24 17:55 | 1 |

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

102

98

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/17/24 23:43 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/17/24 23:43 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:43 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/17/24 23:43 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/17/24 23:43 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/17/24 23:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | | - | | 05/17/24 23:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 | | | | | 05/17/24 23:43 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | | | | 05/17/24 23:43 | 1 |

73 - 120

Lab Sample ID: 240-204311-1 Matrix: Water

05/17/24 23:20

05/17/24 23:43

Lab Sample ID: 240-204311-2

1

1

Matrix: Water

Job ID: 240-204311-1