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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/3/2023 5:05:59 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-180974-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Canton

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 Michael.DelMonico@et.eurofinsus.com (330)497-9396

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-180974-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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 |
| DI | 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)

Estimated Detection Limit (Dioxin) EDL 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

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Job ID: 240-180974-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-180974-1

Receipt

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

GC/MS VOA

Method 8260D: The MS/MSD for batch 563874 was not analyzed due to an instrument malfunction.TRIP BLANK_166 (240-180974-1) and MW-118S_022323 (240-180974-2)

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

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Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-180974-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-180974-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-180974-1 | TRIP BLANK_166 | Water | 02/23/23 00:00 | 02/25/23 08:00 |
| 240-180974-2 | MW-118S_022323 | Water | 02/23/23 11:35 | 02/25/23 08:00 |

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_166 Lab Sample ID: 240-180974-1

No Detections.

Client Sample ID: MW-118S_022323 Lab Sample ID: 240-180974-2

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_166

Lab Sample ID: 240-180974-1 Date Collected: 02/23/23 00:00

Matrix: Water

Date Received: 02/25/23 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 | | | 03/01/23 15:38 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/23 15:38 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 15:38 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/23 15:38 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 15:38 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/23 15:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 | | | _ | | 03/01/23 15:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 117 | | 56 ₋ 136 | | | | | 03/01/23 15:38 | 1 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | | | | 03/01/23 15:38 | 1 |
| Dibromofluoromethane (Surr) | 115 | | 73 - 120 | | | | | 03/01/23 15:38 | 1 |

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-118S_022323

Lab Sample ID: 240-180974-2 Date Collected: 02/23/23 11:35

Matrix: Water

Date Received: 02/25/23 08:00

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------------|---------------------|-------------------|----------------------|------------------------------|------------|----------|--|---------------------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/23 20:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 66 - 120 | | | - | | 03/01/23 20:55 | 1 |
| Method: SW846 8260D - Volat Analyte | | ounds by G | C/MS RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte | Result | Qualifier | RL | | | <u>D</u> . | Prepared | . | Dil Fac |
| | | Qualifier | | MDL 0.49 | | <u>D</u> - | Prepared | Analyzed 03/01/23 16:02 | Dil Fac |
| Analyte | Result | Qualifier U | RL | | ug/L | <u>D</u> . | Prepared | . | Dil Fac 1 1 |
| Analyte 1,1-Dichloroethene | | Qualifier U U | | 0.49 | ug/L ug/L | <u>D</u> . | Prepared | 03/01/23 16:02 | Dil Fac 1 1 1 |
| Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene | Result 1.0 1.0 | Qualifier U U U | 1.0 1.0 | 0.49 0.46 | ug/L ug/L ug/L | <u> </u> | Prepared | 03/01/23 16:02 03/01/23 16:02 | Dil Fac 1 1 1 1 |
| Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene | Result 1.0 1.0 1.0 | Qualifier U U U U | 1.0 1.0 1.0 | 0.49 0.46 0.44 | ug/L ug/L ug/L ug/L | <u>D</u> . | Prepared | 03/01/23 16:02 03/01/23 16:02 03/01/23 16:02 | Dil Fac 1 1 1 1 1 1 |

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

119

122

98

114

Dil Fac

Analyzed

03/01/23 16:02

03/01/23 16:02

03/01/23 16:02

03/01/23 16:02

Prepared

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

| | | | rogate Rec |
|---------------|----------------|--|--|
| CA | BFB | TOL | DBFM |
| 137) | (56-136) | (78-122) | (73-120) |
| 17 | 117 | 98 | 115 |
| 19 | 122 | 98 | 114 |
| 11 | 121 | 98 | 111 |
| 12 | 123 | 96 | 109 |
| 1 17 19 | 37) 7 9 | 37) (56-136) 7 117 9 122 1 121 | 37) (56-136) (78-122) 7 117 98 9 122 98 1 121 98 |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

| | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|--|
| | | DCA | |
| Lab Sample ID | Client Sample ID | (66-120) | |
| 240-180974-2 | MW-118S_022323 | 90 | |
| 240-180977-E-2 MS | Matrix Spike | 84 | |
| 240-180977-K-2 MSD | Matrix Spike Duplicate | 83 | |
| LCS 240-563886/4 | Lab Control Sample | 87 | |
| MB 240-563886/6 | Method Blank | 95 | |

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

Job ID: 240-180974-1

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

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

| Lab San | iple ID: | MB 240 | -563874/9 |
|---------|----------|--------|-----------|
|---------|----------|--------|-----------|

Matrix: Water

Analysis Batch: 563874

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

| | INID | IVID | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/01/23 14:23 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/23 14:23 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 14:23 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/23 14:23 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 14:23 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/23 14:23 | 1 |
| | | | | | | | | | |

MB MB

MD MD

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|--------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 62 - 137 | | /01/23 14:23 | 1 |
| 4-Bromofluorobenzene (Surr) | 123 | | 56 - 136 | 03 | /01/23 14:23 | 1 |
| Toluene-d8 (Surr) | 96 | | 78 - 122 | 03 | /01/23 14:23 | 1 |
| Dibromofluoromethane (Surr) | 109 | | 73 - 120 | 03 | /01/23 14:23 | 1 |

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

Matrix: Water

Analysis Batch: 563874

Lab Sample ID: LCS 240-563874/5

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 20.0 | 19.1 | | ug/L | | 95 | 63 - 134 | |
| cis-1,2-Dichloroethene | 20.0 | 18.8 | | ug/L | | 94 | 77 - 123 | |
| Tetrachloroethene | 20.0 | 19.9 | | ug/L | | 99 | 76 - 123 | |
| trans-1,2-Dichloroethene | 20.0 | 18.6 | | ug/L | | 93 | 75 - 124 | |
| Trichloroethene | 20.0 | 18.9 | | ug/L | | 95 | 70 - 122 | |
| Vinyl chlorido | 20.0 | 18.5 | | ua/l | | 03 | 60 144 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 121 | | 56 ₋ 136 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 111 | | 73 - 120 |

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

| Lab Samp | le ID: MB | 240-563886/6 | |
|----------|-----------|--------------|--|
|----------|-----------|--------------|--|

| Lab Sample ID: MB 240-563886/6 | Sample ID: MB 240-563886/6 | | | | | | | | d Blank |
|--------------------------------|----------------------------|-----------|-----|------|------|---|----------|----------------|----------|
| Matrix: Water | | | | | | | | Prep Type: 1 | Total/NA |
| Analysis Batch: 563886 | | | | | | | | | |
| | MB | MB | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/23 13:13 | 1 |

| ١ | | MB | MB | | | | | |
|---|------------------------------|-----------|-----------|----------|---|----------|----------------|---------|
| | Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| | 1,2-Dichloroethane-d4 (Surr) | 95 | | 66 - 120 | - | | 03/01/23 13:13 | 1 |

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: LCS 240-563886/4

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 563886

Matrix: Water

| | Spike | LCS | LCS | | | | | %Rec | | |
|-------------|-------|--------|-----------|------|---|------|-----|----------|--|---|
| Analyte | Added | Result | Qualifier | Unit | [|) %R | lec | Limits | | |
| 1,4-Dioxane | 10.0 | 9.85 | | ug/L | | | 98 | 80 - 122 | | _ |

LCS LCS

Surrogate %Recovery Qualifier Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 87

Lab Sample ID: 240-180977-E-2 MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 563886

| | Sample | Sample | Spike | MS | MS | | | | %Rec | | |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|---|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.3 | | ug/L | | 103 | 51 - 153 | | _ |
| | | | | | | | | | | | |

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 84

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 240-180977-K-2 MSD Prep Type: Total/NA

Matrix: Water

Analysis Batch: 563886

| | 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 | 10.2 | | ug/L | | 102 | 51 - 153 | 1 | 16 |

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 83 66 - 120

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-180974-1

GC/MS VOA

Analysis Batch: 563874

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method Prep Batch |
|------------------|--------------------|-----------|--------|-------------------|
| 240-180974-1 | TRIP BLANK_166 | Total/NA | Water | 8260D |
| 240-180974-2 | MW-118S_022323 | Total/NA | Water | 8260D |
| MB 240-563874/9 | Method Blank | Total/NA | Water | 8260D |
| LCS 240-563874/5 | Lab Control Sample | Total/NA | Water | 8260D |

Analysis Batch: 563886

| - | Lab Sample ID 240-180974-2 | Client Sample ID MW-118S_022323 | Prep Type Total/NA | Matrix Water | Method Prep Batch 8260D SIM |
|---|-------------------------------|---------------------------------|-----------------------|-----------------|-----------------------------|
| | MB 240-563886/6 | Method Blank | Total/NA | Water | 8260D SIM |
| | _CS 240-563886/4 | Lab Control Sample | Total/NA | Water | 8260D SIM |
| : | 240-180977-E-2 MS | Matrix Spike | Total/NA | Water | 8260D SIM |
| : | 240-180977-K-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM |

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_166

Lab Sample ID: 240-180974-1 Date Collected: 02/23/23 00:00

Matrix: Water

Date Received: 02/25/23 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 563874 | HMB | EET CAN | 03/01/23 15:38 |

Client Sample ID: MW-118S_022323 Lab Sample ID: 240-180974-2

Date Collected: 02/23/23 11:35 Matrix: Water

Date Received: 02/25/23 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 563874 | НМВ | EET CAN | 03/01/23 16:02 |
| Total/NA | Analysis | 8260D SIM | | 1 | 563886 | BAJ | EET CAN | 03/01/23 20:55 |

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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 | 02-27-23 * |
| Connecticut | State | PH-0590 | 12-31-23 |
| Florida | NELAP | E87225 | 06-30-23 |
| Georgia | State | 4062 | 02-27-23 * |
| Illinois | NELAP | 200004 | 07-31-23 |
| lowa | State | 421 | 06-01-23 |
| Kentucky (UST) | State | 112225 | 02-27-23 * |
| Kentucky (WW) | State | KY98016 | 12-31-23 |
| Michigan | State | 9135 | 02-27-23 * |
| Minnesota | NELAP | 039-999-348 | 12-31-23 |
| Minnesota (Petrofund) | State | 3506 | 08-01-23 |
| New Jersey | NELAP | OH001 | 06-30-23 |
| New York | NELAP | 10975 | 04-01-23 |
| Ohio | State | 8303 | 02-27-23 * |
| Ohio VAP | State | CL0024 | 02-27-23 * |
| Oregon | NELAP | 4062 | 02-28-24 |
| Pennsylvania | NELAP | 68-00340 | 08-31-23 |
| Texas | NELAP | T104704517-22-17 | 08-31-23 |
| Virginia | NELAP | 460175 | 09-14-23 |
| West Virginia DEP | State | 210 | 12-31-23 |

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

| to to | Regulatory program: | | | | 6 | 19470 Chancel Cive, Care 2007 Crighted, Mil 40110 7 010-223-2703 | | 50/7-67 | | | 1 | | THE LEADER IN ENVIRONMENTAL TE |
|--|---------------------------------------|---------------|-------------------------------|---|--------------------------------|--|--|-----------------------------------|-------------|-----------------------------|-----------------------------|--------|--|
| ite 500 ite | | am: | WQ | NPDES | L | RCRA | Other | | | | | | |
| | Client Project Manager: Kris Hi | Kris Hinskey | | Site Conta | Site Contact: Christina Weaver | Weaver | | LabC | ontact: M | Lab Contact: Mike DelMonico | ico | | COC No: |
| ite .04 | Telephone: 248-994-2240 | | | Telephone | Telephone: 248-994-2240 | 01 | | Telep | Nome: 330 | Telephone: 330-497-9396 | | | 37. |
| TP Off-Site 7538.402.04 | Email: kristoffer.hinskey@arcadls.com | a arcadis.con | | Analy | Analysis Turnaround Time | d Time | Ë | $\left\{ \left[\right] \right\}$ | 1 | Analyses | /ses | | For lab use only |
| 7538.402.04 | Sampler Name: | FOSTIK | | TAT if differ | TAT if different from below | | | | | _ | | | Walk-in client |
| | Ş | ier: | | 0 98 | LL | 2 ** * | _ | | 80 | | | _ | Suidus geri |
| | Shipping/Tracking No: | | | T | l day | | Grab/ | | 978 | 10928 | | | Job/SDG No: |
| | | F | | Conta | Containers & Preservatives | vatives | quas b | DCE 8 | 1,2-DCE | 8099 ebinold | 8 ensx | | |
| Sample Identification Sar | Sample Date Sample Time | YIV Zi | Sediment Solid Other: | EONH FOSZH | NªOH HCI | Unpres | Compo | | Trans-1 | TCE 82 | | | Sample Specific Notes / Special Instructions: |
| TRIP BLANK_ 66 | | - | | | _ | | _S | × | × | × | | | 1 Trip Blank |
| NW-1185_022323 | 2-23-13 | 9 | | | e | | 3 | × | × | × | * | | 3 VOAs for 8260B 3 VOAs for 8260B SIM |
| | | | | | | | | | | | | | |
| | | | | | | | + | + | + | | | + | |
| | | | | | - | | | | ody | of Cust | 240-180974 Chain of Custody | 240-18 | |
| | | | | | | | | | | | | | |
| | | | | | | | ı | | | | | | |
| Possible Hazard Identification | | | | S. C. | Sarmic Disnocal (A fco | A A A S | may be acceed if a man for are retained dissour than | 210 20 | Poteino | | | | |
| Special Instructions/QC Requirements & Comments: Sample Address: 12124 2057 or 9055 Submits all requirements formula for | Poison B | Unknown | ų, | L R | Return to Client | Ď | Disposal By Lah | de l | Archive For | e For | Months | | |
| ing requested. | | - 1 | | | | | | | | | | | |
| Just 6027 100 | Arcadis | | 2-13-13 / | 1430 | Received by | 10 Cor | ۵ | STO A AGE | الدا | Company: | Arcadis | | Date/Time: 2.23.23 / 1430 |
| Reinquished by: | Company ARCHOUS | | 211/12 211/12 Date Time | | Received by | Received by: | 3 | B | | Company | E14 | | 01 22 |
| Little | DAY. | " | 2/24/23 | 10:45 | _ | Sam. | | 22 | | THE | 7 | | 2-25-73 80 |

| Eurofins - Canton Sample Re Barberton Facility | ceipt Form/Narrative | Login | #: |
|--|-----------------------------------|--------------------------|------------------------------------|
| | | 1 | Cooler unpacked by: |
| Client Arcadi > | Site Name | 0 00 00 | aboles unpacked by. |
| Cooler Received on 2-25 | Opened on | d-21-23 | Vary beg in |
| FedEx: 1 st Grd Exp UPS | | Off Eurofins Courier | Other |
| Receipt After-hours: Drop-off I | | Storage Location | n |
| | Foam Box Client Cooler | Box Other | |
| Packing material used: Bu | | | |
| COOLANT: Wet Ic | , | Water None | |
| 1. Cooler temperature upon rec | | See Multiple Cooler | |
| IR GUN # IR-13 (CF -0.2 | | C Corrected Cool | |
| IR GUN # IR-16 (CF -0.1° | | | |
| · · | C) Observed Cooler Temp | C Corrected Gool | ler TempC |
| 2. Were tamper/custody seals o | | | Yes No Tests that are not |
| | ide of the cooler(s) signed & d | | Yes No NA checked for pH by |
| • | s on the bottle(s) or bottle kits | | Receiving: |
| | s intact and uncompromised? | | Yes No NA |
| 3. Shippers' packing slip attache | | | VOAs Oil and Grease |
| 4. Did custody papers accompan | | | TOC |
| | quished & signed in the approp | | No L |
| | collected the samples clearly id | entified on the COC? | No |
| 7. Did all bottles arrive in good | | 0000 | No |
| 8. Could all bottle labels (ID/Ds | | | (es) No |
| 9. For each sample, does the CC | | | comple type of grab/comp(Y/M)? |
| 10. Were correct bottle(s) used for | | | No No |
| 11. Sufficient quantity received to12. Are these work share samples | • | Ç | PS DIE |
| | been checked at the originating | | es No |
| 13. Were all preserved sample(s) | | laboratory. | No NA pH Strip Lot# HC203864 |
| 14. Were VOAs on the COC? | at the correct pri upon receipt: | 7 | No No |
| 15. Were air bubbles >6 mm in a | ny VOA vials? | ger than this | es No NA |
| 16. Was a VOA trip blank presen | | 1 0 5 5 1 6 | |
| 17. Was a LL Hg or Me Hg trip | | | es (No) |
| Contacted PM | Data lai | orio Malakali | Value Mail Other |
| Contacted PM | Date by | via Verbal | Voice Mail Other |
| Concerning | | | |
| | | | |
| 18. CHAIN OF CUSTODY & | SAMPLE DISCREPANCIES | additional next page | Samples processed by: |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 19. SAMPLE CONDITION | | | |
| Sample(s) | | | |
| Sample(s) | | | d in a broken container. |
| Sample(s) | were re | ceived with bubble >6 mm | in diameter. (Notify PM) |
| 20. SAMPLE PRESERVATION | N | | |
| Sample(s) | | were fu | rther preserved in the laboratory. |
| Sample(s) Time preserved: P | reservative(s) added/Lot numbe | r(s): | |
| | | | |
| VOA Sample Preservation - Date | Time VOAs Frozen: | | |

| | | | Eurofins - Canto | n Sample Receipt Mu | Itiple Cooler Form | |
|--------|-------------|-------------|-------------------|---------------------|--------------------|--|
| Cool | er Descript | ion | IR Gun# | Observed | Corrected | Coolant |
| 25 | (Circle) | | (Circle) | Temp °C | Temp °C | (Circle) |
| (EQ C | llent Box | Other | IR-13 IR-16 IR-17 | 0.6 | 0.4 | Wel ice Blue Ice Dy Ice Water None |
| (EC) C | lent Box | Other | 18-13 IR-16 IR-17 | 0,8 | 0.6 | Wet Ice Stue Ice Dry Ice |
| EC C | lent Box | Other | IR-13 IR-16 IR-17 | | | Wellice Blue Ice Bry Ice Water None |
| EC C | lent Box | Other | IR-13 IR-16 IR-17 | | | Wet ice Blue ice Dry ice Water None |
| EC C | lent Box | Other | M-13 M-16 M-17 | | | Wet Ice Blue Ice Dy Ice Water None |
| EC C | Bent Box | Other | IR-13 IR-16 IR-17 | | | Wet Ice Blue Ice Dy Ice Water None |
| EC C | lent Box | Other | IR-13 IR-16 IR-17 | | | Wellice Blue Ice Dry Ice Water Mone |
| EC C | Sent Box | Other | IR-13 IR-16 IR-17 | _ | | Wellice Blue Ice Dry Ice Water Hone |
| EC C | lient Box | Other | R-13 R-16 R-17 | | | Wellice Blue Ice By Ice Water None |
| EC C | lent Box | Other | W-13 W-16 W-17 | | | Wellice Blue Ice By Ice Water Hone |
| EC C | lent Box | Other | R-13 R-16 R-17 | | | Wet Ice Blue Ice Dy Ice Water Hone |
| €C C | Sent Box | Other | IR-13 IR-16 IR-17 | | | Wet ice Stee Ice Dy Ice Water Mone |
| EC C | lient Box | Other | R-13 R-16 R-17 | | | Wet toe Blue toe Dry toe Water None |
| EC C | lent Box | Other | R-13 R-16 R-17 | | | Wet Ice Blue Ice Dry Ice Water None |
| EC C | Bent Box | Other | R-13 R-16 R-17 | | | Wellice Blue Ice Dry Ice Water Mane |
| EC C | Sent Box | Other | 〒-13 〒-16 〒-17 | | | Wet ice Blue ice Dry ice Water None |
| EC C | lient Box | Other | R-13 R-16 R-17 | | | Wat Ice Stue Ice Dry Ice Water None |
| EC C | Sent Box | Other | R-13 R-16 R-17 | | | Wellice Blue Ice Dry Ice Water None |
| EC C | Sent Box | Other | R-13 R-16 R-17 | | | Wei ice Dive ice Dry ice Water Mane |
| EC C | lent Box | Other | R-13 R-16 R-17 | | | Wet Ice Blue Ice Dry Ice Water Hone |
| EC C | lent Box | Other | R-13 R-16 R-17 | | | Wellice Blue Ice Dry Ice Water Mone |
| EC C | lent Box | Other | R-13 IR-16 IR-17 | | | Wet Ice Blue Ice Dry Ice Water Hone |
| EC C | lent Box | Other | ₩-13 ₩-16 W-17 | | | Wet ice Blue ice Dry ice Water None |
| EC C | lent Box | Other | W-13 W-16 W-17 | | | Wet Ice Blue Ice Bry Ice Water Name |
| EC C | lent Box | Other | R-13 R-16 R-17 | | | Wellice Sive Ice Dry Ice Water Hone |
| EC C | lent Sox | Other | 〒-13 〒-16 〒-17 | | | Wet ice Blue ice Dry ice Water None |
| EC C | leni Box | Other | M-13 M-16 M-17 | | | Wet Ice Blue Ice Dry Ice Water None |
| EC C | ient Box | Other | R-13 R-16 R-17 | | | Wet ice Blue ice Dry ice Water None |
| EC C | leni Box | Other | R-13 R-16 R-17 | | | Wet ice Blue ice Dry ice Water Hone |
| EC C | ieni Box | Other | IR-13 IR-16 IR-17 | | | Wet ice Blue ice Dry ice Water Hone |
| €C C | ient Box | Other | R-13 R-16 R-17 | | | Wet ice Blue ice Dry ice Water None |
| FC CI | lent Box | Other | R-13 R-16 R-17 | | | Wet ice Blue ice Dry ice Water Mone |
| €C CI | lent Box | Other | R-13 R-16 R-17 | | | Wet ice Blue ice Dry ice Water None |
| EC CI | ient Box | Other | IR-13 IR-16 IR-17 | | | Wet ice Blue ice Dry ice Water None |
| | | | | | See Temp | erature Excursion Form |

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

DATA VERIFICATION REPORT



March 06, 2023

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

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30146655.402.04 off-site

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

Laboratory submittal: 180974-1 Sample date: 2023-02-23

Report received by CADENA: 2023-03-03

Initial Data Verification completed by CADENA: 2023-03-06

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

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: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 180974-1

| | | Sample Name: Lab Sample ID: Sample Date: | TRIP BLA 2401809 2/23/20 | 9741 | 5 | | MW-118 2401809 2/23/20 | 9742 | 23 | |
|-----------|--------------------------|--|--------------------------------|--------|-------|-----------|------------------------------|--------|-------|-----------|
| | | | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | |
| OSW-826 | <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 | |
| OSW-826 | <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 # 240-180974-1

CADENA Verification Report: 2023-03-06

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49032R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-180974-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| | | | Sample Collection | | Ana | lysis |
|----------------|--------------|--------|-------------------|---------------|-----|---------|
| Sample ID | Lab ID | Matrix | Date | Parent Sample | voc | VOC SIM |
| TRIP BLANK_166 | 240-180974-1 | Water | 02/23/23 | | Х | |
| MW-118S_022323 | 240-180974-2 | Water | 02/23/23 | | X | X |

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

| Items Reviewed | Rep | orted | | mance ptable | Not |
|--|-----|-------|----|-----------------|----------|
| | No | Yes | No | Yes | Required |
| Sample receipt condition | | Х | | Х | |
| 2. Requested analyses and sample results | | X | | X | |
| 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 | |
| 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.

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 VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: March 24, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 24, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

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MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 **Client Contact** Regulatory program: DW - NPDES ☐ RCRA Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 COCs City/State/Zip: Novi, MI, 48377 1 of 1 Analysis Turnaround Time Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 Sampler Name: TAT if different from below Walk-in client JOE FOSTIK Project Name: Ford LTP Off-Site 3 weeks ≥ 2 weeks Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week SIM Composite=C / Grab=G 2 days Frans-1,2-DCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B PO # 30167538.402.04 ☐ 1 day Shipping/Tracking No: Job/SDG No: Matrix Containers & Preservatives TCE 8260B Sample Specific Notes / Solid Special Instructions: Sample Date | Sample Time Sample Identification TRIP BLANK G X X ---X 1 Trip Blank 3 VOAs for 8260B MW-1185_ 022323 2-23-23 1135 6 6 6 X X 3 VOAs for 8260B SIM 240-180974 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than I month) ✓ Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lah ☐ Archive For ☐ Special Instructions/QC Requirements & Comments: 12124 BOSTON POST Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 evel IV Reporting requested. Relipquished by: Arcadis Arcadis STORAGE 2.23.23 Novi 1430 1430 COLP 2.23.23 Date/Time: 2/14/23 Relinquished by Received in Laboratory by:

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180974-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_166 Lab Sample ID: 240-180974-1

Date Collected: 02/23/23 00:00 Matrix: Water Date Received: 02/25/23 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 | | | 03/01/23 15:38 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/23 15:38 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 15:38 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/23 15:38 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 15:38 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/23 15:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 | | | | | 03/01/23 15:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 117 | | 56 ₋ 136 | | | | | 03/01/23 15:38 | 1 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | | | | 03/01/23 15:38 | 1 |
| Dibromofluoromethane (Surr) | 115 | | 73 - 120 | | | | | 03/01/23 15:38 | 1 |

Date Collected: 02/23/23 11:35 Date Received: 02/25/23 08:00

| Method: SW846 8260D SIM | l - Volatile Orga | anic Comp | ounds (GC/N | 1S) | | | | | |
|------------------------------|-------------------|-----------|-------------|-------------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/23 20:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 66 - 120 | | | · | | 03/01/23 20:55 | 1 |

| Method: SW846 8260D - ' | Volatile Organic | Compoun | s by GC/MS | 3 | | | | | |
|--------------------------|-------------------------|-----------|------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/01/23 16:02 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/23 16:02 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 16:02 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/23 16:02 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/23 16:02 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/23 16:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| | Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | |
|---|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|
| | 1,2-Dichloroethane-d4 (Surr) | 119 | | 62 - 137 | | 03/01/23 16:02 | 1 | |
| | 4-Bromofluorobenzene (Surr) | 122 | | 56 - 136 | | 03/01/23 16:02 | 1 | |
| | Toluene-d8 (Surr) | 98 | | 78 - 122 | | 03/01/23 16:02 | 1 | |
| ĺ | Dibromofluoromethane (Surr) | 114 | | 73 - 120 | (| 03/01/23 16:02 | 1 | |

Matrix: Water