PREPARED FOR

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

Generated 11/22/2022 7:59:52 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176081-1



Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-176081-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Job ID: 240-176081-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176081-1

Receipt

The samples were received on 11/9/2022 9:45 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 2.5° C

GC/MS VOA

Method 8260D_SIM: The matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 240-551914 was not analyzed due to an instrument fault.

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: 240-176081-1

| 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

Sample Summary

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

Job ID: 240-176081-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-176081-1 | TRIP BLANK_88 | Water | 11/07/22 00:00 | 11/09/22 09:45 |
| 240-176081-2 | MW-81_110722 | Water | 11/07/22 09:31 | 11/09/22 09:45 |
| 240-176081-3 | MW-81S_110722 | Water | 11/07/22 10:22 | 11/09/22 09:45 |
| 240-176081-4 | MW-106S_110722 | Water | 11/07/22 15:10 | 11/09/22 09:45 |
| 240-176081-5 | MW-107S 110722 | Water | 11/07/22 16:42 | 11/09/22 09:45 |

Detection Summary

| Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site | Job ID: 240-176081-1 |
|---|-----------------------------|
| Client Sample ID: TRIP BLANK_88 | Lab Sample ID: 240-176081-1 |
| No Detections. | |
| Client Sample ID: MW-81_110722 | Lab Sample ID: 240-176081-2 |
| No Detections. | |
| Client Sample ID: MW-81S_110722 | Lab Sample ID: 240-176081-3 |
| No Detections. | |
| Client Sample ID: MW-106S_110722 | Lab Sample ID: 240-176081-4 |
| No Detections. | |
| Client Sample ID: MW-107S_110722 | Lab Sample ID: 240-176081-5 |
| No Detections. | |

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_88

Date Collected: 11/07/22 00:00 Date Received: 11/09/22 09:45 Lab Sample ID: 240-176081-1

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 16:21 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 16:21 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 16:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 16:21 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 16:21 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 16:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 62 - 137 | | | | | 11/16/22 16:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 92 | | 56 ₋ 136 | | | | | 11/16/22 16:21 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 11/16/22 16:21 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | | | | 11/16/22 16:21 | 1 |

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Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-81_110722

Date Collected: 11/07/22 09:31 Date Received: 11/09/22 09:45

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-176081-2

11/16/22 20:21

11/16/22 20:21

11/16/22 20:21

Matrix: Water

| Method: SW846 8260D SIN | l - Volatile Orga | anic Comp | ounds (GC/M | S) | | | | | |
|------------------------------|-------------------|-----------|-------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/15/22 18:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 120 | | | | | 11/15/22 18:04 | 1 |
| Method: SW846 8260D - Vo | olatile Organic | Compoun | ds by GC/MS | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 20:21 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 20:21 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 20:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 20:21 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 20:21 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 20:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 | | | • | | 11/16/22 20:21 | 1 |

56 - 136

78 - 122

73 - 120

94

98

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-81S_110722

Date Collected: 11/07/22 10:22 Date Received: 11/09/22 09:45 Lab Sample ID: 240-176081-3

Matrix: Water

| Method: SW846 8260D SIM | l - Volatile Orga | anic Comp | ourius (GC/IV | IS) | | | | | |
|---|-------------------|---------------------|---------------|--------------|----------------------|------------|----------|----------------------------------|------------------------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/15/22 18:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 66 - 120 | | | | | 11/15/22 18:28 | 1 |
| Method: SW846 8260D - Vo | olatile Organic | Compound | ds by GC/MS | | | | | | |
| Method: SW846 8260D - Vo | _ | • | • | | | _ | | | |
| Analyte | Result | Qualifier | RL | MDL | | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Analyte 1,1-Dichloroethene | Result 1.0 | Qualifier U | RL 1.0 | MDL 0.49 | ug/L | <u>D</u> . | Prepared | 11/16/22 20:45 | Dil Fac |
| Analyte | Result | Qualifier U | RL | MDL | ug/L | <u> </u> | Prepared | | Dil Fac |
| Analyte 1,1-Dichloroethene | Result 1.0 | Qualifier U U | RL 1.0 | MDL 0.49 | ug/L ug/L | <u> </u> | Prepared | 11/16/22 20:45 | Dil Fac 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 | 11/16/22 20:45 11/16/22 20:45 | Dil Fac 1 1 1 |

| Vinyl chloride | 1.0 | U | 1.0 | 0.45 ug/L | | 11/16/22 20:45 | 1 |
|------------------------------|-----------|-----------|---------------------|-----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 137 | | | 11/16/22 20:45 | 1 |
| 4-Bromofluorobenzene (Surr) | 93 | | 56 ₋ 136 | | | 11/16/22 20:45 | 1 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 | | | 11/16/22 20:45 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 73 - 120 | | | 11/16/22 20:45 | 1 |

Eurofins Canton

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Date Collected: 11/07/22 15:10

Date Received: 11/09/22 09:45

Matrix: Water

| | Method: SW846 8260D SIM - V | olatile Orga | anic Comp | ounds (GC/M | S) | | | | |
|----|-----------------------------|--------------|-----------|-------------|------|------|---|----------|----------------|
| 1 | Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed |
| 1 | 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/15/22 18:53 |
| ١, | Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed |

| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------------|-----------|-------------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 66 - 120 | | | | | 11/15/22 18:53 | 1 |
| - Method: SW846 8260D - Vo | olatile Organic | Compoun | ds by GC/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 21:09 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 21:09 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 21:09 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 21:09 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 21:09 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 21:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 137 | | | | | 11/16/22 21:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 92 | | 56 - 136 | | | | | 11/16/22 21:09 | 1 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | | | | 11/16/22 21:09 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 73 - 120 | | | | | 11/16/22 21:09 | |

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Dil Fac

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Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-176081-5 Client Sample ID: MW-107S_110722

Date Collected: 11/07/22 16:42 Date Received: 11/09/22 09:45

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------------|-----------|-------------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/15/22 19:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 66 - 120 | | | | | 11/15/22 19:17 | 1 |
| - Method: SW846 8260D - Vo | olatile Organic | Compoun | ds by GC/MS | | | | | | |
| Analyte | _ | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 15:56 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 15:56 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 15:56 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 15:56 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 15:56 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 15:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 62 - 137 | | | | | 11/16/22 15:56 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 56 - 136 | | | | | 11/16/22 15:56 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 11/16/22 15:56 | 1 |
| Dibromofluoromethane (Surr) | 89 | | 73 - 120 | | | | | 11/16/22 15:56 | 1 |

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

| | | | Pe | ercent Surro | gate Recovery (Acceptance Limits) | |
|---------------------|------------------------|----------|----------|--------------|-----------------------------------|--|
| | | DCA | BFB | TOL | DBFM | |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) | |
| 240-176069-C-2 MS | Matrix Spike | 86 | 92 | 99 | 92 | |
| 240-176069-F-2 MSD | Matrix Spike Duplicate | 85 | 90 | 99 | 93 | |
| 240-176081-1 | TRIP BLANK_88 | 90 | 92 | 99 | 100 | |
| 240-176081-2 | MW-81_110722 | 97 | 94 | 98 | 104 | |
| 240-176081-3 | MW-81S_110722 | 94 | 93 | 100 | 101 | |
| 240-176081-4 | MW-106S_110722 | 94 | 92 | 98 | 101 | |
| 240-176081-5 | MW-107S_110722 | 95 | 95 | 99 | 89 | |
| 240-176087-B-21 MS | Matrix Spike | 92 | 98 | 99 | 92 | |
| 240-176087-B-21 MSD | Matrix Spike Duplicate | 92 | 98 | 98 | 92 | |
| LCS 240-552229/5 | Lab Control Sample | 84 | 92 | 100 | 93 | |
| LCS 240-552230/4 | Lab Control Sample | 90 | 99 | 95 | 93 | |
| MB 240-552229/8 | Method Blank | 90 | 90 | 98 | 100 | |
| MB 240-552230/7 | Method Blank | 95 | 96 | 99 | 92 | |

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) | |
| 240-176081-2 | MW-81_110722 | 112 | |
| 240-176081-3 | MW-81S_110722 | 116 | |
| 240-176081-4 | MW-106S_110722 | 107 | |
| 240-176081-5 | MW-107S_110722 | 116 | |
| LCS 240-551914/3 | Lab Control Sample | 108 | |
| MB 240-551914/4 | Method Blank | 111 | |

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

Eurofins Canton

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Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-552229/8

Matrix: Water

Analysis Batch: 552229

| Client Sampl | e ID: | Met | nod Blar | ık |
|--------------|-------|-------------|-----------|----|
| F | rep | Type | : Total/N | Α |

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/16/22 13:35 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/16/22 13:35 Tetrachloroethene 1.0 U 0.44 ug/L 11/16/22 13:35 1.0 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/16/22 13:35 Trichloroethene 1.0 1.0 U 0.44 ug/L 11/16/22 13:35 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/16/22 13:35

| | | MB | MB | | | | | |
|---|------------------------------|-----------|-----------|----------|-------|------------|---------|---------|
| | Surrogate | %Recovery | Qualifier | Limits | Prepa | ared Analy | /zed | Dil Fac |
| | 1,2-Dichloroethane-d4 (Surr) | 90 | | 62 - 137 | | 11/16/22 | 2 13:35 | 1 |
| | 4-Bromofluorobenzene (Surr) | 90 | | 56 - 136 | | 11/16/22 | 2 13:35 | 1 |
| | Toluene-d8 (Surr) | 98 | | 78 - 122 | | 11/16/22 | 2 13:35 | 1 |
| L | Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | 11/16/22 | 2 13:35 | 1 |

Lab Sample ID: LCS 240-552229/5

Matrix: Water

Analysis Batch: 552229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| • | Spike | LCS | LCS | | | %Rec |
|--------------------------|-------|--------|----------------|---|------|----------|
| Analyte | Added | Result | Qualifier Unit | D | %Rec | Limits |
| 1,1-Dichloroethene | 25.0 | 25.4 | ug/L | | 101 | 63 - 134 |
| cis-1,2-Dichloroethene | 25.0 | 25.0 | ug/L | | 100 | 77 - 123 |
| Tetrachloroethene | 25.0 | 27.2 | ug/L | | 109 | 76 - 123 |
| trans-1,2-Dichloroethene | 25.0 | 24.5 | ug/L | | 98 | 75 - 124 |
| Trichloroethene | 25.0 | 25.3 | ug/L | | 101 | 70 - 122 |
| Vinyl chloride | 25.0 | 26.0 | ug/L | | 104 | 60 - 144 |

| | LCS LCS | | | | |
|------------------------------|-----------|-----------|----------|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 84 | | 62 - 137 | | |
| 4-Bromofluorobenzene (Surr) | 92 | | 56 - 136 | | |
| Toluene-d8 (Surr) | 100 | | 78 - 122 | | |
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 | | |

Lab Sample ID: 240-176069-C-2 MS

Matrix: Water

Analysis Batch: 552229

| Client Sample ID: Matrix Spike |
|---------------------------------------|
| Prep Type: Total/NA |

| - | Sample | Sample | Spike | MS | MS | | | | %Rec |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 22.8 | | ug/L | | 91 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.0 | | ug/L | | 92 | 66 - 128 |
| Tetrachloroethene | 1.0 | U | 25.0 | 25.4 | | ug/L | | 102 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 21.7 | | ug/L | | 87 | 56 - 136 |
| Trichloroethene | 1.0 | U | 25.0 | 22.3 | | ug/L | | 89 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 25.0 | 23.8 | | ug/L | | 95 | 43 - 157 |
| Viriyi Chioride | 1.0 | U | 25.0 | 23.0 | | ug/L | | 95 | 43 - 13 |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 92 | | 56 - 136 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 |

Eurofins Canton

Job ID: 240-176081-1

Prep Type: Total/NA

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-176069-C-2 MS

Matrix: Water

Analysis Batch: 552229

MS MS

Limits Surrogate %Recovery Qualifier Dibromofluoromethane (Surr) 92 73 - 120

Lab Sample ID: 240-176069-F-2 MSD

Matrix: Water

Analysis Batch: 552229

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec 1.0 U 1,1-Dichloroethene 25.0 23.8 ug/L 95 56 - 135 4 26 cis-1,2-Dichloroethene 1.0 U 25.0 23.4 ug/L 94 66 - 128 2 14 Tetrachloroethene 1.0 U 25.0 26.3 ug/L 105 62 - 131 20 trans-1,2-Dichloroethene 1.0 U 25.0 22.7 ug/L 91 56 - 136 15 Trichloroethene 1.0 U 25.0 22.5 ug/L 90 61 - 124 15 Vinyl chloride 1.0 U 25.0 24.3 ug/L 43 - 157 2 24

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 90 | | 56 - 136 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 |

Lab Sample ID: MB 240-552230/7

Matrix: Water

Analysis Batch: 552230

Client Sample ID: Method Blank

Prep Type: Total/NA

| | IVID | IVID | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 13:26 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 13:26 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 13:26 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 13:26 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 13:26 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 13:26 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery C | Qualifier Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|------------------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | 62 - 13 | 7 | 11/16/22 13:26 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | 56 - 13 | 5 | 11/16/22 13:26 | 1 |
| Toluene-d8 (Surr) | 99 | 78 - 12 | 2 | 11/16/22 13:26 | 1 |
| Dibromofluoromethane (Surr) | 92 | 73 - 12 |) | 11/16/22 13:26 | 1 |

Lab Sample ID: LCS 240-552230/4

Matrix: Water

Analysis Batch: 552230

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

| | Spike | LCS | LCS | | | | %Rec |
|--------------------------|-------|--------|-----------|------|---|------|----------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1,1-Dichloroethene | 25.0 | 23.7 | | ug/L | | 95 | 63 - 134 |
| cis-1,2-Dichloroethene | 25.0 | 23.7 | | ug/L | | 95 | 77 - 123 |
| Tetrachloroethene | 25.0 | 24.2 | | ug/L | | 97 | 76 - 123 |
| trans-1,2-Dichloroethene | 25.0 | 24.1 | | ug/L | | 97 | 75 - 124 |
| Trichloroethene | 25.0 | 23.8 | | ug/L | | 95 | 70 - 122 |

Eurofins Canton

Page 15 of 24

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCS 240-552230/4

Matrix: Water

Analyte

Vinyl chloride

Analysis Batch: 552230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits 60 - 144

12.5 12.8 ug/L 103

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 90 62 - 137 4-Bromofluorobenzene (Surr) 99 56 - 136 Toluene-d8 (Surr) 95 78 - 122 Dibromofluoromethane (Surr) 73 - 120 93

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 552230

Lab Sample ID: 240-176087-B-21 MS

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|--|---------------------|-----------|----------------------|----------------------|-----------|----------------------|---|----------------|----------------------------------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 100 | U | 2500 | 2030 | | ug/L | | 81 | 56 - 135 | |
| cis-1,2-Dichloroethene | 310 | | 2500 | 2540 | | ug/L | | 89 | 66 - 128 | |
| Tetrachloroethene | 1900 | | 2500 | 3980 | | ug/L | | 83 | 62 - 131 | |
| trans-1,2-Dichloroethene | 100 | U | 2500 | 2170 | | ug/L | | 87 | 56 - 136 | |
| Trichloroethene | 1400 | | 2500 | 3510 | | ug/L | | 84 | 61 - 124 | |
| Vinyl chloride | 100 | U | 1250 | 1300 | | ug/L | | 104 | 43 - 157 | |
| Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene | 1900 100 1400 | | 2500 2500 2500 | 3980 2170 3510 | | ug/L ug/L ug/L | | 83 87 84 | 62 - 131 56 - 136 61 - 124 | |

MS MS %Recovery Surrogate Qualifier Limits 62 - 137 1,2-Dichloroethane-d4 (Surr) 92 4-Bromofluorobenzene (Surr) 98 56 - 136 78 - 122 Toluene-d8 (Surr) 99 Dibromofluoromethane (Surr) 92 73 - 120

Lab Sample ID: 240-176087-B-21 MSD

Matrix: Water

Analysis Batch: 552230

| Client Sample II | ว: Matrix Spi | ke Duplicate |
|------------------|---------------|--------------|
| | Prep Ty | pe: Total/NA |

Spike Sample Sample MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1,1-Dichloroethene 100 U 2500 2190 ug/L 88 56 - 135 8 26 cis-1,2-Dichloroethene 2500 2650 310 94 66 - 128 ug/L 14 Tetrachloroethene 1900 2500 3990 83 62 - 131 20 ug/L trans-1.2-Dichloroethene 2500 91 100 U 2280 ug/L 56 - 136 15 Trichloroethene 1400 2500 3610 ug/L 88 61 - 124 15 Vinyl chloride 100 U 1250 1320 ug/L 106 43 - 157 24

| | MSD | MSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 92 | | 73 - 120 |

Eurofins Canton

Page 16 of 24

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

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

111

Lab Sample ID: MB 240-551914/4 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 551914

| , | | MB | | | | | | | |
|-------------|-----------|-----------|--------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/15/22 09:20 | 1 |
| | MB | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

Lab Sample ID: LCS 240-551914/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

66 - 120

Analysis Batch: 551914

1,2-Dichloroethane-d4 (Surr)

| | | Spike | LCS | LUS | | | | %Rec | |
|-------------|---------|--------------|--------|-----------|------|---|------|----------|--|
| Analyte | | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,4-Dioxane | | 10.0 | 10.1 | | ug/L | | 101 | 80 - 122 | |
| | LCS LCS | | | | | | | | |

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 108 66 - 120

Eurofins Canton

11/15/22 09:20

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-176081-1

GC/MS VOA

Analysis Batch: 551914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 240-176081-2 | MW-81_110722 | Total/NA | Water | 8260D SIM | |
| 240-176081-3 | MW-81S_110722 | Total/NA | Water | 8260D SIM | |
| 240-176081-4 | MW-106S_110722 | Total/NA | Water | 8260D SIM | |
| 240-176081-5 | MW-107S_110722 | Total/NA | Water | 8260D SIM | |
| MB 240-551914/4 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-551914/3 | Lab Control Sample | Total/NA | Water | 8260D SIM | |

Analysis Batch: 552229

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-176081-1 | TRIP BLANK_88 | Total/NA | Water | 8260D | |
| 240-176081-2 | MW-81_110722 | Total/NA | Water | 8260D | |
| 240-176081-3 | MW-81S_110722 | Total/NA | Water | 8260D | |
| 240-176081-4 | MW-106S_110722 | Total/NA | Water | 8260D | |
| MB 240-552229/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-552229/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-176069-C-2 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-176069-F-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 552230

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-176081-5 | MW-107S_110722 | Total/NA | Water | 8260D | |
| MB 240-552230/7 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-552230/4 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-176087-B-21 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-176087-B-21 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

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Job ID: 240-176081-1

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

Client Sample ID: TRIP BLANK 88

Date Collected: 11/07/22 00:00 Date Received: 11/09/22 09:45 Lab Sample ID: 240-176081-1

Matrix: Water

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 552229 | SAM | EET CAN | 11/16/22 16:21 |

Client Sample ID: MW-81_110722

Date Collected: 11/07/22 09:31 Date Received: 11/09/22 09:45

Lab Sample ID: 240-176081-2

Matrix: Water

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 552229 | SAM | EET CAN | 11/16/22 20:21 |
| Total/NA | Analysis | 8260D SIM | | 1 | 551914 | CS | EET CAN | 11/15/22 18:04 |

Client Sample ID: MW-81S 110722

Date Collected: 11/07/22 10:22 Date Received: 11/09/22 09:45

Lab Sample ID: 240-176081-3

Matrix: Water

Batch **Batch** Dilution **Batch** Prepared Number Analyst Method or Analyzed **Prep Type** Type Run **Factor** Lab 11/16/22 20:45 Total/NA Analysis 8260D 552229 SAM EET CAN Total/NA Analysis 8260D SIM 551914 CS EET CAN 11/15/22 18:28 1

Client Sample ID: MW-106S_110722

Date Collected: 11/07/22 15:10

Date Received: 11/09/22 09:45

Lab Sample ID: 240-176081-4

Matrix: Water

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | | 552229 | SAM | EET CAN | 11/16/22 21:09 |
| Total/NA | Analysis | 8260D SIM | | 1 | 551914 | CS | EET CAN | 11/15/22 18:53 |

| Client Sample ID: MW-107S_110722 | Lab Sample ID: 240-176081-5 |
|----------------------------------|-----------------------------|
| Date Collected: 11/07/22 16:42 | Matrix: Water |
| Date Received: 11/09/22 09:45 | |

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 552230 | SAM | EET CAN | 11/16/22 15:56 |
| Total/NA | Analysis | 8260D SIM | | 1 | 551914 | CS | EET CAN | 11/15/22 19:17 |

Laboratory References:

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

Eurofins Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

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 | 12-31-22 | | | | |
| Minnesota | NELAP | 039-999-348 | 12-31-22 | | | | |
| 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 | 02-27-23 | | | | |
| Pennsylvania | NELAP | 68-00340 | 08-31-23 | | | | |
| Texas | NELAP | T104704517-22-17 | 08-31-23 | | | | |
| Virginia | NELAP | 460175 | | | | | |
| Washington | State | C971 | 01-12-23 | | | | |
| West Virginia DEP | State | 210 | 12-31-22 | | | | |

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| Client Contact | Regulatory program: DW | NPDES RCRA Other | | |
|--|---|---|---|--|
| Company Name: Arcadis | | | | TestAmerica Laboratories, Inc. |
| Address: 28550 Cabot Drive, Suite 500 | Client Project Manager: Kris Hinskey | Site Contact: Christina Weaver | Lab Contact: Mike DelMonico | COC No: |
| City/State/Zip: Novi, MI, 48377 | Telephone: 248-994-2240 | Telephone: 248-994-2293 | Telephone: 330-497-9396 | 1 of 1 COCs |
| Phone: 748, 094, 7740 | Email: kristoffer.hinskey@arcadis.com | Analysis Turnaround Time | Analyses | ylly |
| Project Name: Ford LTP Off-Site | Sampler Name: Jehn a Feffetin | TAT if different from below Weeks | | Walk-in client |
| Project Number: 30146655.402.04 | Method of Shipment/Carrier: | (N | | Lab sampling |
| PO# 30146655,402.04 | Shipping/Tracking No: | ∖Y) sle | 8560E | Job/SDG No: |
| | Matrix |)=91 | oude 08 | |
| Sample Identification | Sample Date Sample Time Air Actions Solid | L'1-DCE Combosig Combosig Gubtes Combosig Aron Aron HZO3 HZO3 | cis-1.2-Di PCE 8260 Vinyl Chid 1.4-Dioxa | Sample Specific Notes / Special Instructions: |
| # TRIP BLANK_88 | 11 22/±/11 | 7 0 | ×××× | 1 Trip Blank |
| CETO11-88-MM. | 11/07/2209:31 6 | ×9~ | × × × × × | 3 VOAs for 8260B 3 VOAs for 8260B SIM |
| 6 MW-815-110722 | 11/07/22 10:22 3 | 3 P6X | X X X X | COURTENANTS |
| 22 FOIL 2 601 - 1/1 M | 11/04/22 15:10 6 | 9 | XXXXXX | |
| e MW - 1075_1107 22 | 11/07/21 16 42 6 | 9 | XXXXXX | 1 |
| | | | | |
| | | | | |
| | | | | |
| | | 240-176081 Chain of Custody | | |
| | | - | | |
| Possible Hazard Identification Non-Hazard Flammable Skin | Skin Irritant Poison B Unknown | Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client Dismosal Rel ah | ples are retained longer than I month | |
| ions/OC Requirements & Comments ses: STRRK RND alts through Cadens at fromalia@ | | | | |
| Relinquished by Physics Tell 10 172 | Company Codies Dar Time 122 | 17-410 Received by Cold She | Oras Company | Date/Lime: 17.4/ |
| | 5 | Receired by: | Compday | 2 (|
| Relinquished by: | = [] | | Company | 10 |
| | | 142 1 2000 | | 0 |
| 92008 TestAmerica Laboratorias. Inc. All rights reserved lestAmerica Laboratories, Inc. lestAmerica Laboratories, Inc. | | > | <i>y</i> | |
| | | | | |

TestAmerica

Chain of Custody Record

W7-NC-099

VOA Sample Preservation - Date/Time VOAs Frozen:

Login#: 176081

Eurofins - Canton Sample Receipt Multiple Cooler Form Cooler Description IR Gun# Observed Coolant Corrected (Circle) (Circle) Temp % (Circle) Temp ℃ Wellce) She Ice 2.5 Dry Ice Client R-13 R-16 Other Box None Wellce She Ice R-13 /R-15 TA **Client** Box Other Wellice Blue Ice Dry Ice IR-13 IR-15 TA Client Box Other Water None She Ice IR-13 IR-16 Dry Ice Wet Ice TA Client Other Box Water None

Blue Ice Dry Ice IR-13 IR-16 TA **Client** Box Other Water None Wellice Blue Ice Dry Ice IR-13 IR-15 TA **Client** Other Box Water IR-13 IR-16 TA **Client** Other Box Water None
Wettice Sive Ice Dry Ice IR-13 IR-15 TA **Client** Box Olher Water None R-13 R-16 Welice TA **Client** Other Box Water Non Wellce Blue Ice Dry Ice IR-13 IR-15 TA **Client** Olher Box Water R-13 R-15 TA **Client** Box Notes to Dry lee IR-13 IR-16 TA **Client** Box Other IR-13 IR-16 TA **Client** Other Box Dive tee Dry tee R-13 R-15 Clerk TA Box Other R-13 R-16 Ben Other IR-13 IR-15 TA Client Box Other Wellice Blue Ice Dry Ice IR-13 IR-15 TA Client Other Box Wellice Blue Ice Dry Ice IR-13 IR-15 TA **Client** Other Water None
Wellice Blue Ice Dry Ice IR-13 IR-15 Client TA lox Other Water None Blue Ice R-13 R-15 Wellce-TA **Client** Box Other Water None
Wellice Blue Ice Dry Ice R-13 R-15 TA Client Other Book Water None

e Sive Ice Dry Ice Wel Ice IR-13 IR-15 TA Client Box Other Water None Stue Ice Dry Ice Client TA Box Other Water None
Wet Ice Sive Ice IR-13 IR-15 TA **Client** Box Other Water Wet ice Sive ice Dry ice IR-13 IR-15 Client TA Box Other Water Mone Wellce Blue Ice None R-13 R-15 Client TA Other Box Water None IR-13 IR-15 Blue Ice Dry Ice TA Client tox Other Water None Wellce Nuelce IR-13 IR-15 TA Client Other Box Woler None Wellce Blue Ice Dry ice IR-13 IR-15 Client TA Box Other Water None
Wet Ice Blue Ice Dry Ice IR-13 IR-15 TA **Client** Other Box Water IR-13 IR-15 Wet Ice Client TA Box Other Water None Blue Ice Dry Ice IR-13 IR-15 Wet Ice TA **Client** Other Box Water None Blue Ice Dry ice R-13 R-15 Wet Ice TA Client Box Other Water None Wet Ice No Ice 12-13 12-15 TA **CSent** Other Box Water : See Temperature Excursion Form

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

the day for the stand

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Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Generated 11/22/2022 7:59:52 AM

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

DATA VERIFICATION REPORT



November 22, 2022

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: 176081-1 Sample date: 2022-11-07

Report received by CADENA: 2022-11-22

Initial Data Verification completed by CADENA: 2022-11-22

Number of Samples:5 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: 176081-1

| | | Sample Name: | TRIP BL | 4NK_88 | | | MW-81 | _110722 | | | MW-81 | S_11072 | 2 | | MW-10 | SS_1107 | 22 | | MW-107 | 7S_1107 | 22 | |
|-----------|--------------------------|----------------|---------|--------|-------|-----------|---------|---------|-------|-----------|---------|---------|-------|-----------|---------|---------|-------|-----------|---------|---------|-------|-----------|
| | | Lab Sample ID: | 2401760 | 0811 | | | 2401760 | 0812 | | | 2401760 | 0813 | | | 2401760 | 0814 | | | 2401760 | 0815 | | |
| | | Sample Date: | 11/7/20 | 22 | | | 11/7/20 |)22 | | | 11/7/20 | 22 | | | 11/7/20 | 22 | | | 11/7/20 | 22 | | |
| | | | | Report | | Valid | | Report | | Valid | | Report | | Valid | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | 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 | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | 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 # 240-176081-1

CADENA Verification Report: 2022-11-22

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 47769R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176081-1 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_88 | 240-176081-1 | Water | 11/07/22 | | Х | |
| MW-81_110722 | 240-176081-2 | Water | 11/07/22 | | Х | Х |
| MW-81S_110722 | 240-176081-3 | Water | 11/07/22 | | Х | Х |
| MW-106S_110722 | 240-176081-4 | Water | 11/07/22 | | Х | Х |
| MW-107S_110722 | 240-176081-5 | Water | 11/07/22 | | Х | Х |

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 |
| 1. Sample receipt condition | | X | | X | |
| 2. Requested analyses and sample results | | Х | | Х | |
| 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 | Perfo Acce | 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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: December 05, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 06, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record



| | Client Contact | Regula | tory program: | | | DW | | | NPD | | | | CRA | | Öthei | | _ | | | | | | - | | | | |
|-----|---|-----------------|-----------------|----------|----------|------------|--------|-----------|------------|--------|----------|-------------|----------|--------------|--------------------|---------------|-------------------|---------------------|-----------|-----------|----------------|-------------|--------|-----------|---|---------------------------------------|--------------|
| | Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 | Client Project | Manager: Kris l | linske | y | | | Site | . Cont | act: (| Christ | ina W | eaver | | | | Lab C | onta | et: Mi | ke De | lMon | ico | | | | TestAmerica Labora COC No: | tories, In |
| | City/State/Zip: Novi, MI, 48377 | Telephone: 248 | 3-994-2240 | | | | | Tel | ephon | e: 24 | 8-994 | 2293 | | | | \dashv | Telep | hone: | 330- | 197-9 | 396 | | | | | 1 of 1 | COCs |
| | Phone: 248-994-2240 | Email: kristoff | er.hinskey@arc | adis.c | om | | | F | Analy | isis 1 | Turnai | ound | Time | | | | | | _ | 1 | Analy | vses | | | | For lab use only | cocs |
| | Project Name: Ford LTP Off-Site | Sampler Name | Lehlia | Fe | MI. | în ` | | | T if diffe | | T 3 | weeks | | | | | | | | | | | | | | Walk-in client | |
| | Project Number: 30146655.402.04 | Method of Ship | | | | | | 1 | 10 day | ′ | | week | \$ | 7 | ڀ | | | 80 | | | | MIC | | | | Lab sampling | |
| | PO # 30146655.402.04 | Shipping/Track | dng No: | | | | | 1 | | | | days day | | mple (Y / N) | / Grab | | 260B | 8260 | | | 8260B | ROSC | | | | Job/SDG No: | |
| | | | | | | trix | | F | Cont | ainer | s & Pr | eserva | tives | Sa | site=C | 8260 | DCE 8% | 2-DCE | 80B | 60B | loride | S out | | | | ETHINGS IN SEC | Maria. |
| | Sample Identification | Sample Date | Sample Time | Air | Aqueous | Solid | Other: | H2S04 | HN03 | HCI | NaOH | NaOH | Other: | Filtered | Composite=C/Grab=G | 1,1-DCE 8260B | cis-1,2-DCE 8260B | Trans-1,2-DCE 8260B | PCE 8260B | TCE 8260B | Vinyl Chloride | 1 4.Dioxane | | | | Sample Specific ? Special Instruct | |
| Q | TRIP BLANK_88 | 11/7/22 | | | 1 | | | T | | 1 | | | | N | G | Х | Х | Х | Х | Х | X | | | | | 1 Trip Blank | - |
| 0 | WM-81-110777 | 11/07/22 | 09:31 | (| | | | | | 6 | | | | N | 6 | X | X | X | X | X | X | X | | | | 3 VOAs for 8260 3 VOAs for 8260 | |
| J @ | MW-815_110722 | 11/07/22 | 10:22 | | 3 | | | | | 3 | | | | M | 6 | X | X | X | X | X | \ \ | | | | | TONLY 3 | WAS |
| | 1 10 0 | 11/04/22 | 15:10 | 1 | 2 | | | T | | 6 | | | | P | 1/2 1 | V | Ź | L | X | X | X | t | | | + | Contect | C1) |
| 3 6 | 1000 | 11/07/27 | 1 | | | | | T | | 6 | | | | N | 0 | X | 1 | × | · | \(| X | | | | | | |
| 5 | | | | | | П | | T | \forall | 1 | | \dagger | | | 4 1 | | | /_ | | | | 1 | | | + | | |
| ń | | | | \vdash | + | \vdash | | \dagger | | | H | | | 1111111 | | | 1 11 Hill | | 1 | L [8] | | + | | \forall | + | | |
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| | | - | | \vdash | + | \vdash | | + | H | + | 240 | -176 | 081 Ch | ain | of C | usto | dy | | | | - | \vdash | | \vdash | + | | |
| | Possible Hazard Identification Non-Hazard Flammable Skin Irrit | ant E D. | D - | | | Ш | | +- | | | | | may be a | | | | es are | | | | than | | | | | | |
| | Special Instructions/QC Requirements & Comments: Sample Address: STARK AND CAP Submit all results through Cadena at itomalia@cadenace Level IV Reporting requested. | | | Unkno | own | | | 1 | ŀ | Cetur | n to C | ient | . D | ispos | al By | Lab | | A | rchiv | e For | į. | | Months | | | | |
| | Relinquished by lewis Ferreira | Company | adis | U | 11/0 | 71- | 72 | 1- | 7-41 | , | Receiv | од by | 1 /0 | 1 de | 156 | 01 | a | ie | | Con | ipany: | ~7/ | adi | | | Date/Time: | 12:41 |
| | Relinquished by: | Company: | CADIS | Г | Date/Tin | ne:)27 | , | 1 | 715 | | Recei | | | | 0 | _ | -0 | H. | | Con | pany: | e | -acs | | | Date/Time: | (7:4) 915 |
| | Relinquished by | Company: | TA | Г | Date/Tin | ne: | 1 | | | | Recaj | _ | Laborato | | : | 1 | | ^ A | | Con | трацу | 2 | TA | <u>~</u> | | 11/8/22/ Data/Vime: 7-77 | alic |
| _ | Jer Mark | 1 00 | 101 | | (1-) | 2-1 | 12 | 7 | 13 | | <u> </u> | U | m | | | Tre | 2 | L | | | 1 | ماد | 1 1- | _ | | 111100 | TYD |

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Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_88

Lab Sample ID: 240-176081-1 Date Collected: 11/07/22 00:00 **Matrix: Water**

Date Received: 11/09/22 09:45

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 16:21 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 16:21 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 16:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 16:21 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 16:21 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 16:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 62 - 137 | | | - | | 11/16/22 16:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 92 | | 56 ₋ 136 | | | | | 11/16/22 16:21 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 11/16/22 16:21 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | | | | 11/16/22 16:21 | 1 |

Client Sample ID: MW-81 110722

| Date Collected: 11/07/22 09:31 Date Received: 11/09/22 09:45 | | | | | | Matrix | Water |
|---|---|---|--------------------|--------------|----------|-------------------------|---------|
| Method: SW846 8260D SIM - N Analyte 1,4-Dioxane | /olatile Organic Result Qua 2.0 U | • | MS) MDL 0.86 | <u>D</u> | Prepared | Analyzed 11/15/22 18:04 | Dil Fac |

| Surrogate | %Recovery Qualifie | r Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | 66 - 120 | | 11/15/22 18:04 | 1 |

| | Tolumb Olganio | - opoul.iuc | , | | | | | | |
|--------------------------|----------------|-------------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 20:21 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 20:21 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 20:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 20:21 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 20:21 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 20:21 | 1 |
| | | | | | | | | | |

| Surrogate | %Recovery (| Qualifier L | .imits | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-------------|---------------------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | 6 | 62 - 137 | | 11/16/22 20:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | 5 | 66 - 136 | | 11/16/22 20:21 | 1 |
| Toluene-d8 (Surr) | 98 | 7 | 78 - 122 | | 11/16/22 20:21 | 1 |
| Dibromofluoromethane (Surr) | 104 | 7 | '3 ₋ 120 | | 11/16/22 20:21 | 1 |

Client Sample ID: MW-81S 110722 Lab Sample ID: 240-176081-3

Date Collected: 11/07/22 10:22 Date Received: 11/09/22 09:45

| Method: SW846 8260D SIM | i - volatile Orga | inic Comp | ounas (GC/N | 115) | | | | | |
|------------------------------|-------------------|-----------|-------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/15/22 18:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 66 - 120 | | | • | | 11/15/22 18:28 | 1 |

Page 7 of 605

Matrix: Water

Lab Sample ID: 240-176081-2

Client: ARCADIS U.S., Inc. Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Date Collected: 11/07/22 10:22 Matrix: Water Date Received: 11/09/22 09:45

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 20:45 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 20:45 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 20:45 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 20:45 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 20:45 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 20:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 137 | | | - | | 11/16/22 20:45 | 1 |
| 4-Bromofluorobenzene (Surr) | 93 | | 56 ₋ 136 | | | | | 11/16/22 20:45 | 1 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 | | | | | 11/16/22 20:45 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 73 - 120 | | | | | 11/16/22 20:45 | 1 |

Date Collected: 11/07/22 15:10 Date Received: 11/09/22 09:45

| Method: SW846 8260D SIM | I - 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 | | | 11/15/22 18:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1.2-Dichloroethane-d4 (Surr) | 107 | | 66 - 120 | | | - | | 11/15/22 18:53 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 21:09 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 21:09 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 21:09 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 21:09 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 21:09 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 21:09 | 1 |

| Surrogate | %Recovery Q | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 137 | | 11/16/22 21:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 92 | | 56 - 136 | | 11/16/22 21:09 | 1 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | 11/16/22 21:09 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 73 - 120 | | 11/16/22 21:09 | 1 |

Date Collected: 11/07/22 16:42 Date Received: 11/09/22 09:45

| Method: SW846 8260D SIM | l - Volatile Orga | anic Comp | ounds (GC/N | IS) | | | | | |
|------------------------------|-------------------|-----------|-------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/15/22 19:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 66 - 120 | | | _ | | 11/15/22 19:17 | 1 |

Matrix: Water

Matrix: Water

Client: ARCADIS U.S., Inc.

Job ID: 240-176081-1

Project/Site: Ford LTP - Off Site

Date Collected: 11/07/22 16:42 Eab Sample 1b. 240-17 0001-3

Date Received: 11/09/22 09:45

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/16/22 15:56 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/16/22 15:56 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 15:56 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/16/22 15:56 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/16/22 15:56 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/16/22 15:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 62 - 137 | | | | | 11/16/22 15:56 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 56 ₋ 136 | | | | | 11/16/22 15:56 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 11/16/22 15:56 | 1 |
| Dibromofluoromethane (Surr) | 89 | | 73 - 120 | | | | | 11/16/22 15:56 | 1 |