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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 12/1/2023 5:23:04 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195970-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated 12/1/2023 5:23:04 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-195970-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

| Appreviation | These commonly used appreviations 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 | | | | | |

Dilution Facto

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 US Inc

Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

Job ID: 240-195970-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195970-1

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

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

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

Receipt

The samples were received on 11/25/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-596013 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

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Method Summary

Client: ARCADIS US Inc Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-195970-1 | TRIP BLANK_107 | Water | 11/21/23 00:00 | 11/25/23 10:00 |
| 240-195970-2 | MW-104S_112123 | Water | 11/21/23 12:40 | 11/25/23 10:00 |

Job ID: 240-195970-1

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_107 Lab Sample ID: 240-195970-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-195970-1 Date Collected: 11/21/23 00:00

Matrix: Water

Date Received: 11/25/23 10:00

| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
|------------------------------|-----------------|------------|---------------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/29/23 14:18 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/29/23 14:18 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/29/23 14:18 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/29/23 14:18 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/29/23 14:18 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/29/23 14:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 | | | _ | | 11/29/23 14:18 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 56 ₋ 136 | | | | | 11/29/23 14:18 | 1 |
| Toluene-d8 (Surr) | 105 | | 78 - 122 | | | | | 11/29/23 14:18 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | | | | 11/29/23 14:18 | 1 |

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

Date Received: 11/25/23 10:00

Client Sample ID: MW-104S_112123

Lab Sample ID: 240-195970-2 Date Collected: 11/21/23 12:40

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|--------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/30/23 16:58 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 66 - 120 | | | _ | | 11/30/23 16:58 | |

| 1 Dramaficarahan-ana (Court | 06 | | EG 126 | | | 11/20/22 15:25 | 1 |
|---|-----------|-----------|----------|-----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 62 - 137 | | | 11/29/23 15:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 ug/L | | 11/29/23 15:35 | 1 |
| \frac{1}{2} \cdot | | | 4.0 | <u> </u> | | 11/20/00 15 05 | |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 ug/L | | 11/29/23 15:35 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 ug/L | | 11/29/23 15:35 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 ug/L | | 11/29/23 15:35 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 ug/L | | 11/29/23 15:35 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 ug/L | | 11/29/23 15:35 | 1 |

| Surrogate | %Recovery Qu | ualifier Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | 62 - 137 | | 11/29/23 15:35 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | 56 - 136 | | 11/29/23 15:35 | 1 |
| Toluene-d8 (Surr) | 102 | 78 - 122 | | 11/29/23 15:35 | 1 |
| Dibromofluoromethane (Surr) | 99 | 73 - 120 | | 11/29/23 15:35 | 1 |

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-195970-1

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

Matrix: Water Prep Type: Total/NA

| | | | | Percent Sur | ercent Surrogate Recovery (Acceptar | | |
|--------------------|------------------------|----------|----------|-------------|-------------------------------------|--|--|
| | | DCA | BFB | TOL | DBFM | | |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) | | |
| 240-195970-1 | TRIP BLANK_107 | 97 | 96 | 105 | 100 | | |
| 240-195970-2 | MW-104S_112123 | 98 | 96 | 102 | 99 | | |
| 240-195972-D-4 MS | Matrix Spike | 94 | 101 | 105 | 96 | | |
| 240-195972-E-4 MSD | Matrix Spike Duplicate | 93 | 103 | 105 | 96 | | |
| LCS 240-596013/5 | Lab Control Sample | 89 | 98 | 106 | 98 | | |
| MB 240-596013/9 | Method Blank | 95 | 98 | 101 | 99 | | |

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) | |
| 240-195931-I-3 MS | Matrix Spike | 98 | |
| 240-195931-M-3 MSD | Matrix Spike Duplicate | 98 | |
| 240-195970-2 | MW-104S_112123 | 97 | |
| LCS 240-596122/4 | Lab Control Sample | 98 | |
| MB 240-596122/6 | Method Blank | 99 | |
| Surrogate Legend | | | |
| DCA = 1,2-Dichloroetha | ne-d4 (Surr) | | |

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Job ID: 240-195970-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-596013/9

Matrix: Water

Analysis Batch: 596013

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

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/29/23 11:23 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/29/23 11:23 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 11/29/23 11:23 trans-1,2-Dichloroethene 1.0 U 1.0 11/29/23 11:23 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 11/29/23 11:23 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/29/23 11:23

MB MB

| Surrogate | %Recovery Quali | ifier Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|---------------------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | 62 - 137 | | 11/29/23 11:23 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | 56 ₋ 136 | | 11/29/23 11:23 | 1 |
| Toluene-d8 (Surr) | 101 | 78 - 122 | | 11/29/23 11:23 | 1 |
| Dibromofluoromethane (Surr) | 99 | 73 - 120 | | 11/29/23 11:23 | 1 |

Lab Sample ID: LCS 240-596013/5

Matrix: Water

Analysis Batch: 596013

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 | 20.0 | 22.0 | | ug/L | | 110 | 63 - 134 | |
| cis-1,2-Dichloroethene | 20.0 | 19.0 | | ug/L | | 95 | 77 - 123 | |
| Tetrachloroethene | 20.0 | 20.8 | | ug/L | | 104 | 76 - 123 | |
| trans-1,2-Dichloroethene | 20.0 | 20.6 | | ug/L | | 103 | 75 - 124 | |
| Trichloroethene | 20.0 | 18.3 | | ug/L | | 92 | 70 - 122 | |
| Vinyl chloride | 20.0 | 23.8 | | ug/L | | 119 | 60 - 144 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 ₋ 136 |
| Toluene-d8 (Surr) | 106 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 98 | | 73 - 120 |

Lab Sample ID: 240-195972-D-4 MS

Matrix: Water

Analysis Batch: 596013

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 | 20.0 | 20.4 | | ug/L | | 102 | 56 - 135 | |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.0 | | ug/L | | 90 | 66 - 128 | |
| Tetrachloroethene | 1.0 | U | 20.0 | 18.8 | | ug/L | | 94 | 62 - 131 | |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 19.8 | | ug/L | | 99 | 56 - 136 | |
| Trichloroethene | 1.0 | U | 20.0 | 17.7 | | ug/L | | 89 | 61 - 124 | |
| Vinyl chloride | 1.0 | U | 20.0 | 22.5 | | ug/L | | 112 | 43 - 157 | |

MS MS

| Surrogate | %Recovery Qua | alifier Limits |
|------------------------------|---------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 101 | 56 - 136 |
| Toluene-d8 (Surr) | 105 | 78 - 122 |

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-195970-1

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

Lab Sample ID: 240-195972-D-4 MS

Matrix: Water

Analysis Batch: 596013

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 96 73 - 120

Lab Sample ID: 240-195972-E-4 MSD

Matrix: Water

Analysis Batch: 596013

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

% Poo

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 20.3 | | ug/L | | 101 | 56 - 135 | 1 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.1 | | ug/L | | 91 | 66 - 128 | 0 | 14 |
| Tetrachloroethene | 1.0 | U | 20.0 | 19.3 | | ug/L | | 97 | 62 - 131 | 3 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 19.5 | | ug/L | | 98 | 56 - 136 | 1 | 15 |
| Trichloroethene | 1.0 | U | 20.0 | 17.6 | | ug/L | | 88 | 61 - 124 | 0 | 15 |
| Vinyl chloride | 1.0 | U | 20.0 | 21.9 | | ug/L | | 110 | 43 - 157 | 3 | 24 |

MSD MSD

MR MR

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 103 | | 56 - 136 |
| Toluene-d8 (Surr) | 105 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 96 | | 73 - 120 |

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

Lab Sample ID: MB 240-596122/6

Matrix: Water

Analysis Batch: 596122

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/30/23 07:21 | 1 |
| | | | | | | | | | |

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 66 - 120 11/30/23 07:21

LCS LCS

10.3

Result Qualifier

Unit

ug/L

Spike

Added

10.0

Lab Sample ID: LCS 240-596122/4

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 596122

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

%Rec %Rec Limits

80 - 122

103

LCS LCS %Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 66 - 120 98

Lab Sample ID: 240-195931-I-3 MS

Matrix: Water

Analysis Batch: 596122

| Client Sample ID: Matrix Spike | | Client | Sample | ID: | Matrix | Spike | |
|--------------------------------|--|--------|--------|-----|--------|-------|--|
|--------------------------------|--|--------|--------|-----|--------|-------|--|

Prep Type: Total/NA

| raidiyolo Batom 600122 | Sample | Sample | Spike | MS | MS | | | | %Rec |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1.4-Dioxane | 2.0 | U | 10.0 | 10.8 | | ua/L | | 108 | 51 - 153 |

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QC Sample Results

Client: ARCADIS US Inc Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

| Method: 8260D | SIM - Volat | ile Organic | Compounds | (GC/MS) (| Continued) |
|---------------|-------------|-------------|-----------|-----------|------------|
| | | | | | |

%Recovery Qualifier

98

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 66 - 120 |

Lab Sample ID: 240-195931-M-3 MSD

Matrix: Water

Surrogate

Analysis Batch: 596122

1,2-Dichloroethane-d4 (Surr)

| 7 maryono Batom 600 122 | 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 | 10.4 | - | ug/L | | 104 | 51 - 153 | 4 | 16 |
| | MSD | MSD | | | | | | | | | |

Limits

66 - 120

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-195970-1

GC/MS VOA

Analysis Batch: 596013

| Lab Sample ID 240-195970-1 | Client Sample ID TRIP BLANK_107 | Prep Type Total/NA | Matrix Water | Method 8260D | Prep Batc |
|-----------------------------------|---------------------------------|---------------------|-----------------|-----------------|-----------|
| 240-195970-2 | MW-104S_112123 | Total/NA | Water | 8260D | |
| MB 240-596013/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-596013/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-195972-D-4 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-195972-E-4 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 596122

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-195970-2 | MW-104S_112123 | Total/NA | Water | 8260D SIM | |
| MB 240-596122/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-596122/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-195931-I-3 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-195931-M-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195970-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-195970-1 Date Collected: 11/21/23 00:00

Matrix: Water

Date Received: 11/25/23 10:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 596013 | AJS | EET CLE | 11/29/23 14:18 |

Client Sample ID: MW-104S_112123 Lab Sample ID: 240-195970-2

Date Collected: 11/21/23 12:40 Matrix: Water

Date Received: 11/25/23 10:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 596013 | AJS | EET CLE | 11/29/23 15:35 |
| Total/NA | Analysis | 8260D SIM | | 1 | 596122 | CS | EET CLE | 11/30/23 16:58 |

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-195970-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

| Authority | Program | Identification Number | er Expiration Date | | |
|-----------------------|---------|-----------------------|--------------------|--|--|
| California | State | 2927 | 02-27-24 | | |
| Georgia | State | 4062 | 02-27-24 | | |
| Illinois | NELAP | 200004 | 07-31-24 | | |
| owa | State | 421 | 06-01-25 | | |
| Kentucky (UST) | State | 112225 | 02-28-24 | | |
| Kentucky (WW) | State | KY98016 | 12-31-23 | | |
| Michigan | State | 9135 | 02-27-24 | | |
| Minnesota | NELAP | 039-999-348 | 12-31-23 | | |
| Minnesota (Petrofund) | State | 3506 | 08-01-23 * | | |
| New Jersey | NELAP | OH001 | 07-01-24 | | |
| New York | NELAP | 10975 | 04-02-24 | | |
| Ohio | State | 8303 | 02-27-24 | | |
| Ohio VAP | State | ORELAP 4062 | 02-27-24 | | |
| Oregon | NELAP | 4062 | 02-27-24 | | |
| Pennsylvania | NELAP | 68-00340 | 08-31-24 | | |
| Texas | NELAP | T104704517-22-19 | 08-31-24 | | |
| Virginia | NELAP | 460175 | 09-14-24 | | |
| West Virginia DEP | State | 210 | 12-31-23 | | |

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

| Level IV Reporting requested. | | | | | |
|---|---------------------|-----------------|-----------------------------|----------|------------------------|
| Relinquished by, | Company: ARCADIS | Date/Time: (730 | O Received by: Cald Storage | Company: | Date/Time: |
| Relinquished by: | Company: HRCHDIS | 73 /HC | Received by: [] | Company: | Date Titles / // |
| Kennquistred De: 1 MMpgg | Company: | Date/Time: 1400 | Beceived in Laboratory by: | Company: | Date/Time: 175-23 1800 |
| 92000 Testyreiro Leboratories, Inc. Autigitis reserved. N. A. Returneira & Design III. et préciments af resulvancira Laboratories, Inc. N. | | | | | |

Unknown

Poison B

Skin Irritant

Possible Hazard Identification

Non-Hazard | Flammable | Special Instructions/QC Requirements & Comments:

Sample Address:

34900 Stundish St

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631

240-195970 Chain of Custody

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Sample Speci Special Insti

op/SDG No:

MIS G0828 enexoiG-4,

inyl Chloride 8260D

rans-1,2-DCE 8260D

(N \ Y) sigma2 bereiff

3 weeks
2 weeks
1 week
2 days
1 day

10 day

Cotic Jay Method of Shipment/Carrier:

Sampler Name:

Project Name: Ford LTP Off-Site Project Number: 30167538.402.04

PO # 30167538.402.04

Shipping/Tracking No:

2-1,2-DCE 8260D

1-DCE 8500D D=ds:10/2=siteogmo2

Unpres

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HORN

EONH POS7H

Other:

bilo2 tasmibs

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Sample Time

Sample Date

Sample Identification

TRIP BLANK_ 107

HCI

CE 850D

OCE 8500D

Analyses

Lab Contact: Mike DelMonico

Site Contact: Christina Weaver

Client Project Manager: Kris Hinskey

Telephone: 248-994-2240

RCRA

NPDES

ρM

Regulatory program:

Client Contact

Address: 28550 Cabot Drive, Suite 500

ompany Name: Arcadis

City/State/Zip: Novi, MI, 48377

hone: 248-994-2240

Analysis Turnaround Time

Email: kristoffer.hinskey@arcadis.com

FAT if different from below

Telephone: 248-994-2240

Telephone: 330-497-9396

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1 ESTAMENICA LABORATORY IOCATION; DIIGIIICII --- 10440 CIIBIION LIIVE, SUITE ZUU / BIIGITION, MI 48116 / 810-229-2763

WI-NC-099

DATA VERIFICATION REPORT



December 01, 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: 30167538.402.04 off-site

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

Laboratory submittal: 195970-1 Sample date: 2023-11-21

Report received by CADENA: 2023-12-01

Initial Data Verification completed by CADENA: 2023-12-01

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.

No significant QC anomalies or exceptions to report.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify

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. | | | | |
| The analyte / compound was detected in the associated blank. For Organic methods the sconcentration was less than the RDL and less than 5x (or 10x for common lab contamina blank concentration and is considered non-detect at the RDL. For Inorganic methods the concentration was less than the RDL and less than 10x the blank concentration and is connon-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 - Cleveland

Laboratory Submittal: 195970-1

| | | Sample Name: Lab Sample ID: Sample Date: | TRIP BLA 2401959 11/21/2 | 9701 | , | | MW-104S_112123 2401959702 11/21/2023 | | | |
|-----------|--------------------------|--|--------------------------------|--------|-------|-----------|--|--------|-------|-----------|
| | | | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | |
| OSW-8260 | <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-8260 | <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 # 240-195970-1

CADENA Verification Report: 2023-12-01

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52177R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195970-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| Sample ID | Lab ID | Matrix | Sample | Parent Sample | Ana | lysis |
|----------------|--------------|--------|-----------------|---------------|-----|---------|
| Sample 10 | Labib | Wallix | Collection Date | Farent Sample | VOC | VOC SIM |
| TRIP BLANK_107 | 240-195970-1 | Water | 11/21/2023 | | Х | |
| MW-104S_112123 | 240-195970-2 | Water | 11/21/2023 | | Х | X |

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- · Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method | Matrix | Holding Time | Preservation |
|------------------------|--------|-------------------------------------|---------------------------------|
| SW-846 8260D/8260D-SIM | Water | 14 days from collection to analysis | Cool to < 6 °C; pH < 2 with HCl |

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

| Sample ID | Initial / Continuing | Compound | Criteria |
|----------------------------------|--|----------------|----------|
| TRIP BLANK_107 MW-104S_112123 | Continuing Calibration Verification %D | Vinyl chloride | +29.9% |

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

| Initial/Continuing | Criteria | Sample Result | Qualification | |
|------------------------|-------------------------------------|---------------|---------------|--|
| | RRF <0.05 | Non-detect | R | |
| Initial and Continuing | RRF <0.05 | Detect | J | |
| | RRF <0.01 ¹ | Non-detect | R | |
| Calibration | RRF <0.01 | Detect | J | |
| | DDE - 0.05 or DDE - 0.041 | Non-detect | NI- A-G- | |
| | RRF >0.05 or RRF >0.01 ¹ | Detect | No Action | |

| Initial/Continuing | Criteria | Sample Result | Qualification |
|-------------------------|---|---------------|---------------|
| | %RSD > 20% or a correlation coefficient <0.99 | Non-detect | UJ |
| Initial Calibration | %RSD > 20% of a correlation coefficient <0.99 | Detect | J |
| | 0/ DCD - 000/ | Non-detect | R |
| | %RSD > 90% | Detect | J |
| | 0/D 200/ (increase in consistivity) | Non-detect | UJ |
| | %D >20% (increase in sensitivity) | Detect | J |
| Continuin a Colibration | 0/D 200/ (decrease in consistivity) | Non-detect | UJ |
| Continuing Calibration | %D >20% (decrease in sensitivity) | Detect | J |
| | 0/D = 000/ (ingresses/degreess in consistivity) | Non-detect | R |
| | %D > 90% (increase/decrease in sensitivity) | Detect | J |

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

DATA VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 18, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 20, 2023

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

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LestAmerica Laboratory location: Displace -- 10446 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact Regulatory program: DW NPDES RCRA Other Company Name: Arcadis TestAmerica Lab Client Project Manager: Kris Hinskey Site Contact: Christina Weaver ab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 Sampler Name: TAT if different from below Walk-in client Project Name: Ford LTP Off-Site 4 3 weeks Lottic Jay 2 weeks Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week 1,4-Dioxane 8260D SIM Trans-1,2-DCE 8260D 2 days /inyl Chloride 8260D PO # 30167538.402.04 Shipping/Tracking No: cis-1,2-DCE 8260D 1 day Job/SDG No: 1,1-DCE 8260D Containers & Preservatives PCE 8260D TCE 8260D Sediment H2S04 Sample Speci Other: HN03 Unpres NaOH Solid HC Special Insti Sample Identification Sample Date | Sample Time TRIP BLANK_ 107 NGX Χ Χ Χ Χ Х 1 Trip Blank MW-1045_112123 3 VOAs for 8260 SIM 1240 C 6 X X NGX X X Page 365 of 366 240-195970 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ✓ Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client ✓ Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: 39900 Standish St Sample Address: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinguished by: Received by: Company: ARCAOLS 730 ARCADIS 11/1/1/13 Novi Cold Storage Relinquished by Received by: 1406 Date/Time: Received in Laboratory by: 1400 addice CR088, TestAmerica Leboratories, Inc., All rights reserved.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195970-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-195970-1 Date Collected: 11/21/23 00:00 **Matrix: Water**

Date Received: 11/25/23 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/29/23 14:18 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/29/23 14:18 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/29/23 14:18 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/29/23 14:18 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/29/23 14:18 | 1 |
| Vinyl chloride | 1.0 | A UJ | 1.0 | 0.45 | ug/L | | | 11/29/23 14:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 | | | | | 11/29/23 14:18 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 56 ₋ 136 | | | | | 11/29/23 14:18 | 1 |
| Toluene-d8 (Surr) | 105 | | 78 - 122 | | | | | 11/29/23 14:18 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | | | | 11/29/23 14:18 | 1 |

Client Sample ID: MW-104S_112123

Date Collected: 11/21/23 12:40

Date Received: 11/25/23 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/30/23 16:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 66 - 120 | | | • | | 11/30/23 16:58 | 1 |

| Analyte | Result (| Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|----------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/29/23 15:35 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/29/23 15:35 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/29/23 15:35 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/29/23 15:35 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/29/23 15:35 | 1 |
| Vinyl chloride | 1.0 | K N1 | 1.0 | 0.45 | ug/L | | | 11/29/23 15:35 | 1 |
| | | | | | | | | | |

| Surrogate | %Recovery Qualifier | r Limits | Prepared Analyzed | Dil Fac |
|------------------------------|---------------------|----------|-------------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | 62 - 137 | 11/29/23 15:35 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | 56 - 136 | 11/29/23 15:35 | 1 |
| Toluene-d8 (Surr) | 102 | 78 - 122 | 11/29/23 15:35 | 1 |
| Dibromofluoromethane (Surr) | 99 | 73 - 120 | 11/29/23 15:35 | 1 |

Lab Sample ID: 240-195970-2

Matrix: Water