

ANALYTICAL REPORT

Eurofins Canton
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Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-166024-1
Client Project/Site: Ford LTP - On Site

For:
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:
5/19/2022 9:15:45 AM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

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

Job ID: 240-166024-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| 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. |
|----------------|---|
| α | 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 |

Case Narrative

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

Job ID: 240-166024-1

Job ID: 240-166024-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-166024-1**

Comments

No additional comments.

Receipt

The samples were received on 5/5/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

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

VOA Prep

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

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Method Summary

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

Job ID: 240-166024-1

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

Protocol References:

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

Laboratory References:

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

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- 14
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Sample Summary

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

Job ID: 240-166024-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-166024-1 | TRIP BLANK_178 | Water | 05/03/22 00:00 | 05/05/22 09:32 |
| 240-166024-2 | MW-44_050322 | Water | 05/03/22 09:45 | 05/05/22 09:32 |
| 240-166024-3 | MW-22_050322 | Water | 05/03/22 10:52 | 05/05/22 09:32 |
| 240-166024-4 | MW-23_050322 | Water | 05/03/22 12:28 | 05/05/22 09:32 |

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Detection Summary

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

Job ID: 240-166024-1

Client Sample ID: TRIP BLANK_178

Lab Sample ID: 240-166024-1

No Detections.

Client Sample ID: MW-44_050322

Lab Sample ID: 240-166024-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane | 8.5 | | 2.0 | 0.86 | ug/L | 1 | | 8260D SIM | Total/NA |
| Vinyl chloride | 150 | | 6.3 | 2.8 | ug/L | 6.25 | | 8260D | Total/NA |

Client Sample ID: MW-22_050322

Lab Sample ID: 240-166024-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane | 56 | | 2.0 | 0.86 | ug/L | 1 | | 8260D SIM | Total/NA |
| Vinyl chloride | 1300 | F1 | 40 | 18 | ug/L | 40 | | 8260D | Total/NA |

Client Sample ID: MW-23_050322

Lab Sample ID: 240-166024-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane | 1.2 | J | 2.0 | 0.86 | ug/L | 1 | | 8260D SIM | Total/NA |
| cis-1,2-Dichloroethene | 26000 | | 1000 | 460 | ug/L | 1000 | | 8260D | Total/NA |
| trans-1,2-Dichloroethene | 910 | J | 1000 | 510 | ug/L | 1000 | | 8260D | Total/NA |
| Trichloroethene | 4300 | | 1000 | 440 | ug/L | 1000 | | 8260D | Total/NA |

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-166024-1

Client Sample ID: TRIP BLANK_178

Lab Sample ID: 240-166024-1

Date Collected: 05/03/22 00:00

Matrix: Water

Date Received: 05/05/22 09:32

Method: 8260D - Volatile Organic Compounds 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 | | | 05/11/22 13:06 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/11/22 13:06 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/11/22 13:06 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/11/22 13:06 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/11/22 13:06 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/11/22 13:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 62 - 137 | | 05/11/22 13:06 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 56 - 136 | | 05/11/22 13:06 | 1 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | 05/11/22 13:06 | 1 |
| Dibromofluoromethane (Surr) | 114 | | 73 - 120 | | 05/11/22 13:06 | 1 |

Client Sample Results

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

Job ID: 240-166024-1

Client Sample ID: MW-44_050322

Lab Sample ID: 240-166024-2

Date Collected: 05/03/22 09:45

Matrix: Water

Date Received: 05/05/22 09:32

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 8.5 | | 2.0 | 0.86 | ug/L | | | 05/10/22 01:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 66 - 120 | | 05/10/22 01:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 6.3 | U | 6.3 | 3.1 | ug/L | | | 05/11/22 13:31 | 6.25 |
| cis-1,2-Dichloroethene | 6.3 | U | 6.3 | 2.9 | ug/L | | | 05/11/22 13:31 | 6.25 |
| Tetrachloroethene | 6.3 | U | 6.3 | 2.8 | ug/L | | | 05/11/22 13:31 | 6.25 |
| trans-1,2-Dichloroethene | 6.3 | U | 6.3 | 3.2 | ug/L | | | 05/11/22 13:31 | 6.25 |
| Trichloroethene | 6.3 | U | 6.3 | 2.8 | ug/L | | | 05/11/22 13:31 | 6.25 |
| Vinyl chloride | 150 | | 6.3 | 2.8 | ug/L | | | 05/11/22 13:31 | 6.25 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | 05/11/22 13:31 | 6.25 |
| 4-Bromofluorobenzene (Surr) | 99 | | 56 - 136 | | 05/11/22 13:31 | 6.25 |
| Toluene-d8 (Surr) | 95 | | 78 - 122 | | 05/11/22 13:31 | 6.25 |
| Dibromofluoromethane (Surr) | 111 | | 73 - 120 | | 05/11/22 13:31 | 6.25 |

Client Sample Results

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

Job ID: 240-166024-1

Client Sample ID: MW-22_050322

Lab Sample ID: 240-166024-3

Date Collected: 05/03/22 10:52

Matrix: Water

Date Received: 05/05/22 09:32

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 56 | | 2.0 | 0.86 | ug/L | | | 05/10/22 01:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 66 - 120 | | 05/10/22 01:50 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 40 | U | 40 | 20 | ug/L | | | 05/12/22 13:24 | 40 |
| cis-1,2-Dichloroethene | 40 | U | 40 | 18 | ug/L | | | 05/12/22 13:24 | 40 |
| Tetrachloroethene | 40 | U | 40 | 18 | ug/L | | | 05/12/22 13:24 | 40 |
| trans-1,2-Dichloroethene | 40 | U | 40 | 20 | ug/L | | | 05/12/22 13:24 | 40 |
| Trichloroethene | 40 | U | 40 | 18 | ug/L | | | 05/12/22 13:24 | 40 |
| Vinyl chloride | 1300 | F1 | 40 | 18 | ug/L | | | 05/12/22 13:24 | 40 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 62 - 137 | | 05/12/22 13:24 | 40 |
| 4-Bromofluorobenzene (Surr) | 106 | | 56 - 136 | | 05/12/22 13:24 | 40 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | 05/12/22 13:24 | 40 |
| Dibromofluoromethane (Surr) | 106 | | 73 - 120 | | 05/12/22 13:24 | 40 |

Client Sample Results

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

Job ID: 240-166024-1

Client Sample ID: MW-23_050322

Lab Sample ID: 240-166024-4

Date Collected: 05/03/22 12:28

Matrix: Water

Date Received: 05/05/22 09:32

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 1.2 | J | 2.0 | 0.86 | ug/L | | | 05/10/22 02:14 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 66 - 120 | | 05/10/22 02:14 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1000 | U | 1000 | 490 | ug/L | | | 05/11/22 14:20 | 1000 |
| cis-1,2-Dichloroethene | 26000 | | 1000 | 460 | ug/L | | | 05/11/22 14:20 | 1000 |
| Tetrachloroethene | 1000 | U | 1000 | 440 | ug/L | | | 05/11/22 14:20 | 1000 |
| trans-1,2-Dichloroethene | 910 | J | 1000 | 510 | ug/L | | | 05/11/22 14:20 | 1000 |
| Trichloroethene | 4300 | | 1000 | 440 | ug/L | | | 05/11/22 14:20 | 1000 |
| Vinyl chloride | 1000 | U | 1000 | 450 | ug/L | | | 05/11/22 14:20 | 1000 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | 05/11/22 14:20 | 1000 |
| 4-Bromofluorobenzene (Surr) | 99 | | 56 - 136 | | 05/11/22 14:20 | 1000 |
| Toluene-d8 (Surr) | 95 | | 78 - 122 | | 05/11/22 14:20 | 1000 |
| Dibromofluoromethane (Surr) | 113 | | 73 - 120 | | 05/11/22 14:20 | 1000 |

Surrogate Summary

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

Job ID: 240-166024-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|--------------------|------------------------|--|-----------------|-----------------|------------------|
| | | DCA (62-137) | BFB (56-136) | TOL (78-122) | DBFM (73-120) |
| 240-166024-1 | TRIP BLANK_178 | 104 | 100 | 94 | 114 |
| 240-166024-2 | MW-44_050322 | 103 | 99 | 95 | 111 |
| 240-166024-3 | MW-22_050322 | 101 | 106 | 98 | 106 |
| 240-166024-3 MS | MW-22_050322 | 90 | 108 | 100 | 96 |
| 240-166024-3 MSD | MW-22_050322 | 89 | 108 | 100 | 94 |
| 240-166024-4 | MW-23_050322 | 103 | 99 | 95 | 113 |
| 240-166202-E-2 MS | Matrix Spike | 87 | 105 | 96 | 93 |
| 240-166202-H-2 MSD | Matrix Spike Duplicate | 87 | 106 | 98 | 93 |
| LCS 240-525960/5 | Lab Control Sample | 93 | 110 | 101 | 102 |
| LCS 240-526159/5 | Lab Control Sample | 88 | 110 | 100 | 95 |
| MB 240-525960/8 | Method Blank | 105 | 100 | 94 | 111 |
| MB 240-526159/8 | Method Blank | 102 | 103 | 97 | 109 |

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)

| Lab Sample ID | Client Sample ID | DCA |
|--------------------|------------------------|----------|
| | | (66-120) |
| 240-166024-2 | MW-44_050322 | 86 |
| 240-166024-3 | MW-22_050322 | 88 |
| 240-166024-4 | MW-23_050322 | 88 |
| 240-166141-F-2 MS | Matrix Spike | 89 |
| 240-166141-I-2 MSD | Matrix Spike Duplicate | 89 |
| LCS 240-525692/3 | Lab Control Sample | 87 |
| MB 240-525692/4 | Method Blank | 88 |

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-166024-1

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

Lab Sample ID: MB 240-525960/8
Matrix: Water
Analysis Batch: 525960

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/11/22 12:41 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/11/22 12:41 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/11/22 12:41 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/11/22 12:41 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/11/22 12:41 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/11/22 12:41 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | 05/11/22 12:41 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 56 - 136 | | 05/11/22 12:41 | 1 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | 05/11/22 12:41 | 1 |
| Dibromofluoromethane (Surr) | 111 | | 73 - 120 | | 05/11/22 12:41 | 1 |

Lab Sample ID: LCS 240-525960/5
Matrix: Water
Analysis Batch: 525960

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

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|--------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| 1,1-Dichloroethene | 20.0 | 22.4 | | ug/L | | 112 | 63 - 134 |
| cis-1,2-Dichloroethene | 20.0 | 21.6 | | ug/L | | 108 | 77 - 123 |
| Tetrachloroethene | 20.0 | 21.1 | | ug/L | | 105 | 76 - 123 |
| trans-1,2-Dichloroethene | 20.0 | 21.9 | | ug/L | | 110 | 75 - 124 |
| Trichloroethene | 20.0 | 21.3 | | ug/L | | 107 | 70 - 122 |
| Vinyl chloride | 20.0 | 18.5 | | ug/L | | 92 | 60 - 144 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 110 | | 56 - 136 |
| Toluene-d8 (Surr) | 101 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 |

Lab Sample ID: 240-166202-E-2 MS
Matrix: Water
Analysis Batch: 525960

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

| Analyte | Sample | Sample | Spike Added | MS | MS | Unit | D | %Rec | %Rec Limits |
|--------------------------|--------|-----------|-------------|--------|-----------|------|---|------|-------------|
| | Result | Qualifier | | Result | Qualifier | | | | |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 17.7 | | ug/L | | 89 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 17.2 | | ug/L | | 86 | 66 - 128 |
| Tetrachloroethene | 1.0 | U | 20.0 | 16.0 | | ug/L | | 80 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 16.8 | | ug/L | | 84 | 56 - 136 |
| Trichloroethene | 1.0 | U | 20.0 | 16.1 | | ug/L | | 81 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 20.0 | 11.6 | | ug/L | | 58 | 43 - 157 |

| Surrogate | MS | MS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 105 | | 56 - 136 |
| Toluene-d8 (Surr) | 96 | | 78 - 122 |

QC Sample Results

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

Job ID: 240-166024-1

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

Lab Sample ID: 240-166202-E-2 MS
Matrix: Water
Analysis Batch: 525960

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

| Surrogate | %Recovery | MS MS Qualifier | Limits |
|-----------------------------|-----------|--------------------|----------|
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 |

Lab Sample ID: 240-166202-H-2 MSD
Matrix: Water
Analysis Batch: 525960

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 19.3 | | ug/L | | 97 | 56 - 135 | 8 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 17.6 | | ug/L | | 88 | 66 - 128 | 2 | 14 |
| Tetrachloroethene | 1.0 | U | 20.0 | 17.9 | | ug/L | | 90 | 62 - 131 | 12 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.1 | | ug/L | | 91 | 56 - 136 | 8 | 15 |
| Trichloroethene | 1.0 | U | 20.0 | 17.8 | | ug/L | | 89 | 61 - 124 | 10 | 15 |
| Vinyl chloride | 1.0 | U | 20.0 | 12.4 | | ug/L | | 62 | 43 - 157 | 7 | 24 |

| Surrogate | %Recovery | MSD MSD Qualifier | Limits |
|------------------------------|-----------|----------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 106 | | 56 - 136 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 |

Lab Sample ID: MB 240-526159/8
Matrix: Water
Analysis Batch: 526159

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/12/22 13:00 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/12/22 13:00 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/22 13:00 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/12/22 13:00 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/22 13:00 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/12/22 13:00 | 1 |

| Surrogate | %Recovery | MB MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|--------------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 62 - 137 | | 05/12/22 13:00 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | | 56 - 136 | | 05/12/22 13:00 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | 05/12/22 13:00 | 1 |
| Dibromofluoromethane (Surr) | 109 | | 73 - 120 | | 05/12/22 13:00 | 1 |

Lab Sample ID: LCS 240-526159/5
Matrix: Water
Analysis Batch: 526159

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloroethene | 20.0 | 22.8 | | ug/L | | 114 | 63 - 134 |
| cis-1,2-Dichloroethene | 20.0 | 20.8 | | ug/L | | 104 | 77 - 123 |
| Tetrachloroethene | 20.0 | 21.3 | | ug/L | | 106 | 76 - 123 |
| trans-1,2-Dichloroethene | 20.0 | 21.3 | | ug/L | | 106 | 75 - 124 |
| Trichloroethene | 20.0 | 20.6 | | ug/L | | 103 | 70 - 122 |

Eurofins Canton

QC Sample Results

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

Job ID: 240-166024-1

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

Lab Sample ID: LCS 240-526159/5

Matrix: Water

Analysis Batch: 526159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Vinyl chloride | 20.0 | 14.5 | | ug/L | | 72 | 60 - 144 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 110 | | 56 - 136 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 95 | | 73 - 120 |

Lab Sample ID: 240-166024-3 MS

Matrix: Water

Analysis Batch: 526159

Client Sample ID: MW-22_050322

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,1-Dichloroethene | 40 | U | 800 | 821 | | ug/L | | 103 | 56 - 135 |
| cis-1,2-Dichloroethene | 40 | U | 800 | 826 | | ug/L | | 103 | 66 - 128 |
| Tetrachloroethene | 40 | U | 800 | 782 | | ug/L | | 98 | 62 - 131 |
| trans-1,2-Dichloroethene | 40 | U | 800 | 804 | | ug/L | | 101 | 56 - 136 |
| Trichloroethene | 40 | U | 800 | 781 | | ug/L | | 98 | 61 - 124 |
| Vinyl chloride | 1300 | F1 | 800 | 1620 | F1 | ug/L | | 42 | 43 - 157 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 108 | | 56 - 136 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 96 | | 73 - 120 |

Lab Sample ID: 240-166024-3 MSD

Matrix: Water

Analysis Batch: 526159

Client Sample ID: MW-22_050322

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethene | 40 | U | 800 | 818 | | ug/L | | 102 | 56 - 135 | 0 | 26 |
| cis-1,2-Dichloroethene | 40 | U | 800 | 810 | | ug/L | | 101 | 66 - 128 | 2 | 14 |
| Tetrachloroethene | 40 | U | 800 | 752 | | ug/L | | 94 | 62 - 131 | 4 | 20 |
| trans-1,2-Dichloroethene | 40 | U | 800 | 797 | | ug/L | | 100 | 56 - 136 | 1 | 15 |
| Trichloroethene | 40 | U | 800 | 765 | | ug/L | | 96 | 61 - 124 | 2 | 15 |
| Vinyl chloride | 1300 | F1 | 800 | 1670 | | ug/L | | 48 | 43 - 157 | 3 | 24 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 108 | | 56 - 136 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 94 | | 73 - 120 |

QC Sample Results

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

Job ID: 240-166024-1

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

Lab Sample ID: MB 240-525692/4
Matrix: Water
Analysis Batch: 525692

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 05/09/22 22:40 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 66 - 120 | | | | | 05/09/22 22:40 | 1 |

Lab Sample ID: LCS 240-525692/3
Matrix: Water
Analysis Batch: 525692

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|---------------|---------------|---------------|------|---|------|-------------|
| 1,4-Dioxane | 10.0 | 11.2 | | ug/L | | 112 | 80 - 122 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 66 - 120 | | | | |

Lab Sample ID: 240-166141-F-2 MS
Matrix: Water
Analysis Batch: 525692

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.8 | | ug/L | | 108 | 51 - 153 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 66 - 120 | | | | | | |

Lab Sample ID: 240-166141-I-2 MSD
Matrix: Water
Analysis Batch: 525692

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 11.0 | | ug/L | | 110 | 51 - 153 | 2 | 16 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 66 - 120 | | | | | | | | |

QC Association Summary

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

Job ID: 240-166024-1

GC/MS VOA

Analysis Batch: 525692

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-166024-2 | MW-44_050322 | Total/NA | Water | 8260D SIM | |
| 240-166024-3 | MW-22_050322 | Total/NA | Water | 8260D SIM | |
| 240-166024-4 | MW-23_050322 | Total/NA | Water | 8260D SIM | |
| MB 240-525692/4 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-525692/3 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-166141-F-2 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-166141-I-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

Analysis Batch: 525960

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-166024-1 | TRIP BLANK_178 | Total/NA | Water | 8260D | |
| 240-166024-2 | MW-44_050322 | Total/NA | Water | 8260D | |
| 240-166024-4 | MW-23_050322 | Total/NA | Water | 8260D | |
| MB 240-525960/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-525960/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-166202-E-2 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-166202-H-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 526159

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-166024-3 | MW-22_050322 | Total/NA | Water | 8260D | |
| MB 240-526159/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-526159/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-166024-3 MS | MW-22_050322 | Total/NA | Water | 8260D | |
| 240-166024-3 MSD | MW-22_050322 | Total/NA | Water | 8260D | |

Lab Chronicle

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

Job ID: 240-166024-1

Client Sample ID: TRIP BLANK_178

Lab Sample ID: 240-166024-1

Date Collected: 05/03/22 00:00

Matrix: Water

Date Received: 05/05/22 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 525960 | 05/11/22 13:06 | HMB | TAL CAN |

Client Sample ID: MW-44_050322

Lab Sample ID: 240-166024-2

Date Collected: 05/03/22 09:45

Matrix: Water

Date Received: 05/05/22 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 6.25 | 525960 | 05/11/22 13:31 | HMB | TAL CAN |
| Total/NA | Analysis | 8260D SIM | | 1 | 525692 | 05/10/22 01:26 | CS | TAL CAN |

Client Sample ID: MW-22_050322

Lab Sample ID: 240-166024-3

Date Collected: 05/03/22 10:52

Matrix: Water

Date Received: 05/05/22 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 40 | 526159 | 05/12/22 13:24 | HMB | TAL CAN |
| Total/NA | Analysis | 8260D SIM | | 1 | 525692 | 05/10/22 01:50 | CS | TAL CAN |

Client Sample ID: MW-23_050322

Lab Sample ID: 240-166024-4

Date Collected: 05/03/22 12:28

Matrix: Water

Date Received: 05/05/22 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1000 | 525960 | 05/11/22 14:20 | HMB | TAL CAN |
| Total/NA | Analysis | 8260D SIM | | 1 | 525692 | 05/10/22 02:14 | CS | TAL CAN |

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-166024-1

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 | 06-30-22 |
| Georgia | State | 4062 | 02-23-22 * |
| Illinois | NELAP | 200004 | 07-31-22 |
| Iowa | 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 | 06-30-22 |
| New York | NELAP | 10975 | 04-01-23 |
| Ohio | State | 8303 | 02-23-23 |
| Ohio VAP | State | CL0024 | 02-27-23 |
| Oregon | NELAP | 4062 | 02-27-23 |
| Pennsylvania | NELAP | 68-00340 | 08-31-22 |
| Texas | NELAP | T104704517-22-16 | 08-31-22 |
| Virginia | NELAP | 11570 | 09-14-22 |
| Washington | State | C971 | 01-12-23 |
| West Virginia DEP | State | 210 | 12-31-22 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



2.1/2 MICHIGAN
 190

Chain of Custody Record

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

Regulatory program: DW NPDES RCRA Other

Client Contact
 Company Name: Arcadis
 Address: 24550 Cabot Drive, Suite 500
 City/State/Zip: Novi, MI, 48377
 Phone: 248-994-2240

Client Project Manager: Kris Hinsky
 Telephone: 249-832-7478
 Email: Kristoffer.Hinsky@arcadis.com

Site Contact: Christina Weaver
 Telephone: 248-994-2329

Lab Contact: Mike DelMonico
 Telephone: 330-966-9783

Project Name: Ford LTP On-Site
 Project Number: 30080642.401.03
 PO # 30080642.401.03

Sampler Name: Xenia Chan
 Method of Shipment/Carrier:
 Shipping/Tracking No:

Analysis Turnaround Time
 TAT if different from below:
 10 day 3 weeks
 2 weeks 1 week
 2 days 1 day

Containers & Preservatives
 HCl NaOH ZnAc NaOH
 HNO3 H2SO4 Upret Other:

Matrix
 Air Aqueous Sediment Solid Other:

Sample Identification
 Sample Date Sample Time

Filtered Sample (Y/N) Composite C/Grab/G

Analyses
 1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM

Sample Specific Notes / Special Instructions:
 1 Trip Blank
 3 VOAs for 8260D
 3 VOAs for 8260D SIM

1 of 1 COCs
 For lab use only
 Walk-in client
 Lab sampling
 Job/SDG No:

Possible Hazard Identification
 Non-Hazard Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jromalis@cadenaco.com. Cadena #E203728
 Level IV Reporting requested.

Relinquished by: *Xenia Chan*
 Relinquished by: *George Chan*
 Relinquished by: *M.A.A.*

Date/Time: 5/3/22 1515
 Date/Time: 5/4/22 1040
 Date/Time: 5/5/22 8:00

Company: Arcadis
 Company: ARCADIS
 Company: CETA

Received by: *Non Cold Storage*
 Received by: *[Signature]*
 Received in Laboratory by: *M.A.A.*

Company: Arcadis
 Company: CETA

Received by: *Non Cold Storage*
 Received by: *[Signature]*
 Received in Laboratory by: *M.A.A.*

Date/Time: 5/3/22 1515
 Date/Time: 5/4/22 1040
 Date/Time: 5/5/22 8:00

Company: Arcadis
 Company: ARCADIS
 Company: CETA

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 Received in Laboratory by: *M.A.A.*

Date/Time: 5/3/22 1515
 Date/Time: 5/4/22 1040
 Date/Time: 5/5/22 8:00

Company: Arcadis
 Company: ARCADIS
 Company: CETA

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 Received by: *[Signature]*
 Received in Laboratory by: *M.A.A.*

Date/Time: 5/3/22 1515
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 Date/Time: 5/5/22 8:00

Company: Arcadis
 Company: ARCADIS
 Company: CETA

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 Received by: *[Signature]*
 Received in Laboratory by: *M.A.A.*

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 Date/Time: 5/4/22 1040
 Date/Time: 5/5/22 8:00

Company: Arcadis
 Company: ARCADIS
 Company: CETA

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 Received by: *[Signature]*
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 Company: ARCADIS
 Company: CETA

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 Received in Laboratory by: *M.A.A.*

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 Date/Time: 5/4/22 1040
 Date/Time: 5/5/22 8:00

Company: Arcadis
 Company: ARCADIS
 Company: CETA

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 Received by: *[Signature]*
 Received in Laboratory by: *M.A.A.*

Date/Time: 5/3/22 1515
 Date/Time: 5/4/22 1040
 Date/Time: 5/5/22 8:00

Company: Arcadis
 Company: ARCADIS
 Company: CETA

Received by: *Non Cold Storage*
 Received by: *[Signature]*
 Received in Laboratory by: *M.A.A.*

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : _____
Canton Facility

Client ARCADSS Site Name _____ Cooler unpacked by: Matthew Surma
Cooler Received on 5/5/22 Opened on 5/5/22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____


TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp. 2.1 °C Corrected Cooler Temp. 2.1 °C
IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0104201G Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-166024-1

Login Number: 166024

List Number: 1

Creator: Surma, Matthew

List Source: Eurofins Canton

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | | |
| The cooler's custody seal, if present, is intact. | | |
| Sample custody seals, if present, are intact. | | |
| The cooler or samples do not appear to have been compromised or tampered with. | | |
| Samples were received on ice. | | |
| Cooler Temperature is acceptable. | | |
| Cooler Temperature is recorded. | | |
| COC is present. | | |
| COC is filled out in ink and legible. | | |
| COC is filled out with all pertinent information. | | |
| Is the Field Sampler's name present on COC? | | |
| There are no discrepancies between the containers received and the COC. | | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | | |
| Sample containers have legible labels. | | |
| Containers are not broken or leaking. | | |
| Sample collection date/times are provided. | | |
| Appropriate sample containers are used. | | |
| Sample bottles are completely filled. | | |
| Sample Preservation Verified. | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | | |
| Multiphasic samples are not present. | | |
| Samples do not require splitting or compositing. | | |
| Residual Chlorine Checked. | | |