

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-131111-1
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:
6/16/2020 2:45:01 PM

Michael DelMonico, Project Manager I
(330)497-9396
michael.delmonico@testamericainc.com

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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: 240-131111-1

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. |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| 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) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| 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) |

Case Narrative

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

Job ID: 240-131111-1

Job ID: 240-131111-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP On-Site

Report Number: 240-131111-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to 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.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 6/2/2020 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-131111-1), MW-209S_053020 (240-131111-2), MW-41_053020 (240-131111-3), MW-34_053020 (240-131111-4) and MW-210S_053020 (240-131111-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/09/2020 and 06/10/2020.

There was an MS/MSD analyzed in batch 240-437512 but could not be reported because the associated sample was canceled and sent to the Edison lab: TRIP BLANK (240-131111-1),

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-209S_053020 (240-131111-2), MW-41_053020 (240-131111-3), MW-34_053020 (240-131111-4) and MW-210S_053020 (240-131111-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 06/10/2020.

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

Method Summary

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

Job ID: 240-131111-1

| Method | Method Description | Protocol | Laboratory |
|-----------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 8260B SIM | Volatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 5030B | 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 TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

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

Job ID: 240-131111-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 240-131111-1 | TRIP BLANK | Water | 05/30/20 00:00 | 06/02/20 10:00 | |
| 240-131111-2 | MW-209S_053020 | Water | 05/30/20 09:07 | 06/02/20 10:00 | |
| 240-131111-3 | MW-41_053020 | Water | 05/30/20 09:57 | 06/02/20 10:00 | |
| 240-131111-4 | MW-34_053020 | Water | 05/30/20 10:52 | 06/02/20 10:00 | |
| 240-131111-5 | MW-210S_053020 | Water | 05/30/20 11:52 | 06/02/20 10:00 | |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-131111-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-131111-1

No Detections.

Client Sample ID: MW-209S_053020

Lab Sample ID: 240-131111-2

No Detections.

Client Sample ID: MW-41_053020

Lab Sample ID: 240-131111-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 1.2 | | 1.0 | 0.16 | ug/L | 1 | | 8260B | Total/NA |
| trans-1,2-Dichloroethene | 0.19 | J | 1.0 | 0.19 | ug/L | 1 | | 8260B | Total/NA |
| Vinyl chloride | 2.0 | | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |

Client Sample ID: MW-34_053020

Lab Sample ID: 240-131111-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane | 4.2 | | 2.0 | 0.86 | ug/L | 1 | | 8260B SIM | Total/NA |
| cis-1,2-Dichloroethene | 0.40 | J | 1.0 | 0.16 | ug/L | 1 | | 8260B | Total/NA |
| Vinyl chloride | 0.76 | J | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |

Client Sample ID: MW-210S_053020

Lab Sample ID: 240-131111-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 5.7 | | 1.0 | 0.16 | ug/L | 1 | | 8260B | Total/NA |
| trans-1,2-Dichloroethene | 0.68 | J | 1.0 | 0.19 | ug/L | 1 | | 8260B | Total/NA |
| Vinyl chloride | 6.1 | | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-131111-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-131111-1

Date Collected: 05/30/20 00:00

Matrix: Water

Date Received: 06/02/20 10:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/09/20 22:39 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 06/09/20 22:39 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 06/09/20 22:39 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/09/20 22:39 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 06/09/20 22:39 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 06/09/20 22:39 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 75 - 130 | | 06/09/20 22:39 | 1 |
| 4-Bromofluorobenzene (Surr) | 75 | | 47 - 134 | | 06/09/20 22:39 | 1 |
| Toluene-d8 (Surr) | 85 | | 69 - 122 | | 06/09/20 22:39 | 1 |
| Dibromofluoromethane (Surr) | 94 | | 78 - 129 | | 06/09/20 22:39 | 1 |

Client Sample Results

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

Job ID: 240-131111-1

Client Sample ID: MW-209S_053020

Lab Sample ID: 240-131111-2

Date Collected: 05/30/20 09:07

Matrix: Water

Date Received: 06/02/20 10:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 06/10/20 11:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 133 | | 06/10/20 11:28 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/10/20 16:54 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 06/10/20 16:54 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 06/10/20 16:54 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/10/20 16:54 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 06/10/20 16:54 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 06/10/20 16:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 75 - 130 | | 06/10/20 16:54 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 47 - 134 | | 06/10/20 16:54 | 1 |
| Toluene-d8 (Surr) | 92 | | 69 - 122 | | 06/10/20 16:54 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 78 - 129 | | 06/10/20 16:54 | 1 |

Client Sample Results

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

Job ID: 240-131111-1

Client Sample ID: MW-41_053020

Lab Sample ID: 240-131111-3

Date Collected: 05/30/20 09:57

Matrix: Water

Date Received: 06/02/20 10:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | - | | 06/10/20 11:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 70 - 133 | | 06/10/20 11:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | - | | 06/10/20 17:19 | 1 |
| cis-1,2-Dichloroethene | 1.2 | | 1.0 | 0.16 | ug/L | | | 06/10/20 17:19 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | - | | 06/10/20 17:19 | 1 |
| trans-1,2-Dichloroethene | 0.19 | J | 1.0 | 0.19 | ug/L | | | 06/10/20 17:19 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | - | | 06/10/20 17:19 | 1 |
| Vinyl chloride | 2.0 | | 1.0 | 0.20 | ug/L | | | 06/10/20 17:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 75 - 130 | | 06/10/20 17:19 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 47 - 134 | | 06/10/20 17:19 | 1 |
| Toluene-d8 (Surr) | 94 | | 69 - 122 | | 06/10/20 17:19 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 78 - 129 | | 06/10/20 17:19 | 1 |

Client Sample Results

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

Job ID: 240-131111-1

Client Sample ID: MW-34_053020

Lab Sample ID: 240-131111-4

Date Collected: 05/30/20 10:52

Matrix: Water

Date Received: 06/02/20 10:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 4.2 | | 2.0 | 0.86 | ug/L | | | 06/10/20 12:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 133 | | 06/10/20 12:19 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/10/20 17:44 | 1 |
| cis-1,2-Dichloroethene | 0.40 | J | 1.0 | 0.16 | ug/L | | | 06/10/20 17:44 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 06/10/20 17:44 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/10/20 17:44 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 06/10/20 17:44 | 1 |
| Vinyl chloride | 0.76 | J | 1.0 | 0.20 | ug/L | | | 06/10/20 17:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 75 - 130 | | 06/10/20 17:44 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 47 - 134 | | 06/10/20 17:44 | 1 |
| Toluene-d8 (Surr) | 92 | | 69 - 122 | | 06/10/20 17:44 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 78 - 129 | | 06/10/20 17:44 | 1 |

Client Sample Results

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

Job ID: 240-131111-1

Client Sample ID: MW-210S_053020

Lab Sample ID: 240-131111-5

Date Collected: 05/30/20 11:52

Matrix: Water

Date Received: 06/02/20 10:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 06/10/20 12:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 133 | | 06/10/20 12:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/10/20 18:09 | 1 |
| cis-1,2-Dichloroethene | 5.7 | | 1.0 | 0.16 | ug/L | | | 06/10/20 18:09 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 06/10/20 18:09 | 1 |
| trans-1,2-Dichloroethene | 0.68 | J | 1.0 | 0.19 | ug/L | | | 06/10/20 18:09 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 06/10/20 18:09 | 1 |
| Vinyl chloride | 6.1 | | 1.0 | 0.20 | ug/L | | | 06/10/20 18:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 75 - 130 | | 06/10/20 18:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 47 - 134 | | 06/10/20 18:09 | 1 |
| Toluene-d8 (Surr) | 92 | | 69 - 122 | | 06/10/20 18:09 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 78 - 129 | | 06/10/20 18:09 | 1 |

Surrogate Summary

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

Job ID: 240-131111-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCA (75-130) | BFB (47-134) | TOL (69-122) | DBFM (78-129) |
|--------------------|------------------------|-----------------|-----------------|-----------------|------------------|
| 240-131111-1 | TRIP BLANK | 91 | 75 | 85 | 94 |
| 240-131111-2 | MW-209S_053020 | 96 | 98 | 92 | 96 |
| 240-131111-3 | MW-41_053020 | 96 | 102 | 94 | 102 |
| 240-131111-4 | MW-34_053020 | 96 | 99 | 92 | 102 |
| 240-131111-5 | MW-210S_053020 | 94 | 100 | 92 | 95 |
| 240-131198-E-1 MS | Matrix Spike | 92 | 108 | 94 | 97 |
| 240-131198-F-1 MSD | Matrix Spike Duplicate | 95 | 104 | 92 | 97 |
| LCS 240-437512/4 | Lab Control Sample | 90 | 90 | 89 | 94 |
| LCS 240-437717/4 | Lab Control Sample | 94 | 107 | 90 | 96 |
| MB 240-437512/7 | Method Blank | 94 | 79 | 87 | 95 |
| MB 240-437717/7 | Method Blank | 95 | 101 | 90 | 89 |

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCA (70-133) |
|--------------------|------------------------|-----------------|
| 240-131111-2 | MW-209S_053020 | 96 |
| 240-131111-3 | MW-41_053020 | 99 |
| 240-131111-4 | MW-34_053020 | 97 |
| 240-131111-5 | MW-210S_053020 | 98 |
| 240-131199-D-2 MS | Matrix Spike | 107 |
| 240-131199-D-2 MSD | Matrix Spike Duplicate | 102 |
| LCS 240-437619/4 | Lab Control Sample | 97 |
| MB 240-437619/5 | Method Blank | 94 |

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-131111-1

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

Lab Sample ID: MB 240-437512/7
Matrix: Water
Analysis Batch: 437512

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 | 0.19 | ug/L | | | 06/09/20 13:37 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 06/09/20 13:37 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 06/09/20 13:37 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/09/20 13:37 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 06/09/20 13:37 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 06/09/20 13:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 75 - 130 | | 06/09/20 13:37 | 1 |
| 4-Bromofluorobenzene (Surr) | 79 | | 47 - 134 | | 06/09/20 13:37 | 1 |
| Toluene-d8 (Surr) | 87 | | 69 - 122 | | 06/09/20 13:37 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 78 - 129 | | 06/09/20 13:37 | 1 |

Lab Sample ID: LCS 240-437512/4
Matrix: Water
Analysis Batch: 437512

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 | 10.0 | 9.36 | | ug/L | | 94 | 73 - 129 |
| cis-1,2-Dichloroethene | 10.0 | 9.94 | | ug/L | | 99 | 75 - 124 |
| Tetrachloroethene | 10.0 | 11.2 | | ug/L | | 112 | 70 - 125 |
| trans-1,2-Dichloroethene | 10.0 | 10.3 | | ug/L | | 103 | 74 - 130 |
| Trichloroethene | 10.0 | 10.3 | | ug/L | | 103 | 71 - 121 |
| Vinyl chloride | 10.0 | 8.72 | | ug/L | | 87 | 61 - 134 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 75 - 130 |
| 4-Bromofluorobenzene (Surr) | 90 | | 47 - 134 |
| Toluene-d8 (Surr) | 89 | | 69 - 122 |
| Dibromofluoromethane (Surr) | 94 | | 78 - 129 |

Lab Sample ID: MB 240-437717/7
Matrix: Water
Analysis Batch: 437717

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 | 0.19 | ug/L | | | 06/10/20 16:29 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 06/10/20 16:29 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 06/10/20 16:29 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 06/10/20 16:29 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 06/10/20 16:29 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 06/10/20 16:29 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 75 - 130 | | 06/10/20 16:29 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 47 - 134 | | 06/10/20 16:29 | 1 |
| Toluene-d8 (Surr) | 90 | | 69 - 122 | | 06/10/20 16:29 | 1 |

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-131111-1

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

Lab Sample ID: MB 240-437717/7
Matrix: Water
Analysis Batch: 437717

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

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| Dibromofluoromethane (Surr) | 89 | | 78 - 129 | | 06/10/20 16:29 | 1 |

Lab Sample ID: LCS 240-437717/4
Matrix: Water
Analysis Batch: 437717

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| cis-1,2-Dichloroethene | 10.0 | 10.9 | | ug/L | | 109 | 75 - 124 |
| Tetrachloroethene | 10.0 | 11.4 | | ug/L | | 114 | 70 - 125 |
| trans-1,2-Dichloroethene | 10.0 | 10.6 | | ug/L | | 106 | 74 - 130 |
| Trichloroethene | 10.0 | 10.3 | | ug/L | | 103 | 71 - 121 |
| Vinyl chloride | 10.0 | 12.0 | | ug/L | | 120 | 61 - 134 |

| Surrogate | LCS LCS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 75 - 130 |
| 4-Bromofluorobenzene (Surr) | 107 | | 47 - 134 |
| Toluene-d8 (Surr) | 90 | | 69 - 122 |
| Dibromofluoromethane (Surr) | 96 | | 78 - 129 |

Lab Sample ID: 240-131198-E-1 MS
Matrix: Water
Analysis Batch: 437717

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 |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| | | | | | | | | | |
| cis-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.8 | | ug/L | | 108 | 68 - 121 |
| Tetrachloroethene | 1.0 | U | 10.0 | 11.0 | | ug/L | | 110 | 52 - 129 |
| trans-1,2-Dichloroethene | 1.0 | U | 10.0 | 11.2 | | ug/L | | 112 | 69 - 126 |
| Trichloroethene | 1.3 | | 10.0 | 11.0 | | ug/L | | 98 | 56 - 124 |
| Vinyl chloride | 1.0 | U F1 | 10.0 | 14.6 | F1 | ug/L | | 146 | 49 - 136 |

| Surrogate | MS MS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 75 - 130 |
| 4-Bromofluorobenzene (Surr) | 108 | | 47 - 134 |
| Toluene-d8 (Surr) | 94 | | 69 - 122 |
| Dibromofluoromethane (Surr) | 97 | | 78 - 129 |

Lab Sample ID: 240-131198-F-1 MSD
Matrix: Water
Analysis Batch: 437717

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 |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |
| cis-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.8 | | ug/L | | 108 | 68 - 121 | 0 | 35 |
| Tetrachloroethene | 1.0 | U | 10.0 | 12.2 | | ug/L | | 122 | 52 - 129 | 10 | 35 |
| trans-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.6 | | ug/L | | 106 | 69 - 126 | 5 | 35 |
| Trichloroethene | 1.3 | | 10.0 | 11.1 | | ug/L | | 98 | 56 - 124 | 0 | 35 |

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QC Sample Results

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

Job ID: 240-131111-1

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

Lab Sample ID: 240-131198-F-1 MSD
Matrix: Water
Analysis Batch: 437717

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 |
|------------------------------|----------------------|----------------------|---------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Vinyl chloride | 1.0 | U F1 | 10.0 | 14.6 | F1 | ug/L | | 146 | 49 - 136 | 0 | 35 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 75 - 130 | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 47 - 134 | | | | | | | | |
| Toluene-d8 (Surr) | 92 | | 69 - 122 | | | | | | | | |
| Dibromofluoromethane (Surr) | 97 | | 78 - 129 | | | | | | | | |

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

Lab Sample ID: MB 240-437619/5
Matrix: Water
Analysis Batch: 437619

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 | | | 06/10/20 06:16 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 70 - 133 | | | | | | |
| | | | | | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | 06/10/20 06:16 | 1 |

Lab Sample ID: LCS 240-437619/4
Matrix: Water
Analysis Batch: 437619

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 | 10.5 | | ug/L | | 105 | 80 - 135 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 133 | | | | |

Lab Sample ID: 240-131199-D-2 MS
Matrix: Water
Analysis Batch: 437619

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 | 2.9 | | 10.0 | 10.9 | | ug/L | | 80 | 46 - 170 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 70 - 133 | | | | | | |

Lab Sample ID: 240-131199-D-2 MSD
Matrix: Water
Analysis Batch: 437619

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 |
|-------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,4-Dioxane | 2.9 | | 10.0 | 11.2 | | ug/L | | 84 | 46 - 170 | 3 | 26 |

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QC Sample Results

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

Job ID: 240-131111-1

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

Lab Sample ID: 240-131199-D-2 MSD
Matrix: Water
Analysis Batch: 437619

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

| <i>Surrogate</i> | <i>MSD</i> <i>%Recovery</i> | <i>MSD</i> <i>Qualifier</i> | <i>Limits</i> |
|------------------------------|--------------------------------|--------------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 133 |

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- 14

QC Association Summary

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

Job ID: 240-131111-1

GC/MS VOA

Analysis Batch: 437512

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-131111-1 | TRIP BLANK | Total/NA | Water | 8260B | |
| MB 240-437512/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-437512/4 | Lab Control Sample | Total/NA | Water | 8260B | |

Analysis Batch: 437619

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-131111-2 | MW-209S_053020 | Total/NA | Water | 8260B SIM | |
| 240-131111-3 | MW-41_053020 | Total/NA | Water | 8260B SIM | |
| 240-131111-4 | MW-34_053020 | Total/NA | Water | 8260B SIM | |
| 240-131111-5 | MW-210S_053020 | Total/NA | Water | 8260B SIM | |
| MB 240-437619/5 | Method Blank | Total/NA | Water | 8260B SIM | |
| LCS 240-437619/4 | Lab Control Sample | Total/NA | Water | 8260B SIM | |
| 240-131199-D-2 MS | Matrix Spike | Total/NA | Water | 8260B SIM | |
| 240-131199-D-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B SIM | |

Analysis Batch: 437717

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-131111-2 | MW-209S_053020 | Total/NA | Water | 8260B | |
| 240-131111-3 | MW-41_053020 | Total/NA | Water | 8260B | |
| 240-131111-4 | MW-34_053020 | Total/NA | Water | 8260B | |
| 240-131111-5 | MW-210S_053020 | Total/NA | Water | 8260B | |
| MB 240-437717/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-437717/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| 240-131198-E-1 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 240-131198-F-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |

Lab Chronicle

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

Job ID: 240-131111-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-131111-1

Date Collected: 05/30/20 00:00

Matrix: Water

Date Received: 06/02/20 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 437512 | 06/09/20 22:39 | LRW | TAL CAN |

Client Sample ID: MW-209S_053020

Lab Sample ID: 240-131111-2

Date Collected: 05/30/20 09:07

Matrix: Water

Date Received: 06/02/20 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 437717 | 06/10/20 16:54 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 437619 | 06/10/20 11:28 | TJL2 | TAL CAN |

Client Sample ID: MW-41_053020

Lab Sample ID: 240-131111-3

Date Collected: 05/30/20 09:57

Matrix: Water

Date Received: 06/02/20 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 437717 | 06/10/20 17:19 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 437619 | 06/10/20 11:54 | TJL2 | TAL CAN |

Client Sample ID: MW-34_053020

Lab Sample ID: 240-131111-4

Date Collected: 05/30/20 10:52

Matrix: Water

Date Received: 06/02/20 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 437717 | 06/10/20 17:44 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 437619 | 06/10/20 12:19 | TJL2 | TAL CAN |

Client Sample ID: MW-210S_053020

Lab Sample ID: 240-131111-5

Date Collected: 05/30/20 11:52

Matrix: Water

Date Received: 06/02/20 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 437717 | 06/10/20 18:09 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 437619 | 06/10/20 12:46 | TJL2 | TAL CAN |

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

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

Job ID: 240-131111-1

Laboratory: Eurofins TestAmerica, 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 | 02-23-21 |
| Connecticut | State | PH-0590 | 12-31-21 |
| Florida | NELAP | E87225 | 06-30-20 |
| Georgia | State | 4062 | 02-23-21 |
| Illinois | NELAP | 004498 | 07-31-20 |
| Iowa | State | 421 | 06-01-21 |
| Kansas | NELAP | E-10336 | 04-30-21 |
| Kentucky (UST) | State | 112225 | 02-23-21 |
| Kentucky (WW) | State | KY98016 | 12-31-20 |
| Minnesota | NELAP | OH00048 | 12-31-20 |
| Minnesota (Petrofund) | State | 3506 | 08-01-21 |
| New Jersey | NELAP | OH001 | 06-30-20 |
| New York | NELAP | 10975 | 03-31-21 |
| Ohio VAP | State | CL0024 | 06-05-21 |
| Oregon | NELAP | 4062 | 02-24-21 |
| Pennsylvania | NELAP | 68-00340 | 08-31-20 |
| Texas | NELAP | T104704517-18-10 | 08-31-20 |
| USDA | US Federal Programs | P330-18-00281 | 09-17-21 |
| Virginia | NELAP | 010101 | 09-14-20 |
| Washington | State | C971 | 01-12-21 |
| West Virginia DEP | State | 210 | 12-31-20 |

| | | | | | |
|--|--|------------------------------------|------------------------|---------------------------------------|---------------------------------|
| Eurofins TestAmerica Canton Sample Receipt Form/Narrative | | | | Login # : <u>13111</u> | |
| Canton Facility | | | | | |
| Client <u>Arceadis</u> | | Site Name _____ | | Cooler unpacked by: <u>Adam Boney</u> | |
| Cooler Received on <u>6-2-20</u> | | Opened on <u>6-2-20</u> | | | |
| FedEx: 1 st <input checked="" type="checkbox"/> Grd <input checked="" type="checkbox"/> Exp <input type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Clipper <input type="checkbox"/> Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/> Other _____ | | | | | |
| Receipt After-hours: Drop-off Date/Time _____ | | | Storage Location _____ | | |
| TestAmerica Cooler # <u>7A</u> <input checked="" type="checkbox"/> Foam Box <input type="checkbox"/> Client Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other _____ | | | | | |
| Packing material used: <u>Bubble Wrap</u> <input checked="" type="checkbox"/> Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/> None <input type="checkbox"/> Other _____ | | | | | |
| COOLANT: <u>Water</u> <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/> | | | | | |
| 1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form | | | | | |
| IR GUN# IR-10 (CF +0.7 °C) | | Observed Cooler Temp. <u>32</u> °C | | Corrected Cooler Temp. <u>39</u> °C | |
| IR GUN #IR-11 (CF +0.9 °C) | | Observed Cooler Temp. _____ °C | | Corrected Cooler Temp. _____ °C | |
| 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> | | | | | |
| -Were the seals on the outside of the cooler(s) signed & dated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | | | | | |
| -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | | | | | |
| -Were tamper/custody seals intact and uncompromised? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | | | | | |
| 3. Shippers' packing slip attached to the cooler(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 4. Did custody papers accompany the sample(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 5. Were the custody papers relinquished & signed in the appropriate place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 7. Did all bottles arrive in good condition (Unbroken)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 8. Could all bottle labels be reconciled with the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 9. Were correct bottle(s) used for the test(s) indicated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 10. Sufficient quantity received to perform indicated analyses? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 11. Are these work share samples? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| If yes, Questions 12-16 have been checked at the originating laboratory. | | | | | |
| 12. Were all preserved sample(s) at the correct pH upon receipt? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA pH Strip Lot# <u>HC902937</u> | | | | | |
| 13. Were VOAs on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 14. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA ● ← Larger than this. | | | | | |
| 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 16. Was a LL Hg or Me Hg trip blank present? _____ <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____ | | | | | |
| Concerning _____ | | | | | |
| 17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES | | | | | Samples processed by: <u>AS</u> |
| _____ | | | | | |
| _____ | | | | | |
| _____ | | | | | |
| _____ | | | | | |
| 18. 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) | | | | | |
| 19. 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: _____ | | | | | |

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