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# ANALYTICAL REPORT

Eurofins Canton
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Laboratory Job ID: 240-163022-1
Client Project/Site: Ford LTP - Off Site

For:
ARCADIS U.S., Inc.
28550 Cabot Drive
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Attn: Kristoffer Hinskey

*Authorized for release by:*
*3/10/2022 1:39:36 PM*

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*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 - Off Site

Job ID: 240-163022-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| 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 |
| 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 - Off Site

Job ID: 240-163022-1

## Job ID: 240-163022-1

### Laboratory: Eurofins Canton

**Narrative**

**Job Narrative**
**240-163022-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 2/24/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.2º C and 0.3º 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.

# Method Summary

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

Job ID: 240-163022-1

| 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 Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

# Sample Summary

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

Job ID: 240-163022-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 240-163022-1 | TRIP BLANK_45 | Water | 02/22/22 00:00 | 02/24/22 08:00 |
| 240-163022-2 | MW-141S_022222 | Water | 02/22/22 09:40 | 02/24/22 08:00 |
| 240-163022-3 | MW-79D_022222 | Water | 02/22/22 10:42 | 02/24/22 08:00 |
| 240-163022-4 | MW-79SR_022222 | Water | 02/22/22 11:45 | 02/24/22 08:00 |
| 240-163022-5 | MW-140S_022222 | Water | 02/22/22 13:55 | 02/24/22 08:00 |

# Detection Summary

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

Job ID: 240-163022-1

## Client Sample ID: TRIP BLANK_45 — Lab Sample ID: 240-163022-1

No Detections.

## Client Sample ID: MW-141S_022222 — Lab Sample ID: 240-163022-2

No Detections.

## Client Sample ID: MW-79D_022222 — Lab Sample ID: 240-163022-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | 1.6 | | 1.0 | 0.45 | ug/L | 1 | | 8260B | Total/NA |

## Client Sample ID: MW-79SR_022222 — Lab Sample ID: 240-163022-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | 0.71 | J | 1.0 | 0.45 | ug/L | 1 | | 8260B | Total/NA |

## Client Sample ID: MW-140S_022222 — Lab Sample ID: 240-163022-5

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-163022-1

## Client Sample ID: TRIP BLANK_45

**Date Collected: 02/22/22 00:00**
**Date Received: 02/24/22 08:00**

## Lab Sample ID: 240-163022-1

**Matrix: Water**

### 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 | 0.49 | ug/L | | | 02/25/22 16:57 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/25/22 16:57 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 16:57 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/25/22 16:57 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 16:57 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 02/25/22 16:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *62 - 137* | | *02/25/22 16:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *56 - 136* | | *02/25/22 16:57* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *78 - 122* | | *02/25/22 16:57* | *1* |
| *Dibromofluoromethane (Surr)* | *76* | | *73 - 120* | | *02/25/22 16:57* | *1* |

**Client Sample ID: MW-141S_022222**
**Date Collected: 02/22/22 09:40**
**Date Received: 02/24/22 08:00**

**Lab Sample ID: 240-163022-2**
**Matrix: Water**

### 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 | | | 03/01/22 20:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *66 - 120* | | *03/01/22 20:25* | *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 | 0.49 | ug/L | | | 02/25/22 17:19 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/25/22 17:19 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 17:19 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/25/22 17:19 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 17:19 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 02/25/22 17:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 137* | | *02/25/22 17:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *56 - 136* | | *02/25/22 17:19* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *78 - 122* | | *02/25/22 17:19* | *1* |
| *Dibromofluoromethane (Surr)* | *76* | | *73 - 120* | | *02/25/22 17:19* | *1* |

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

Job ID: 240-163022-1

## Client Sample ID: MW-79D_022222

**Date Collected: 02/22/22 10:42**
**Date Received: 02/24/22 08:00**

## Lab Sample ID: 240-163022-3

**Matrix: Water**

### 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 | | | 03/01/22 20:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *66 - 120* | | *03/01/22 20:50* | *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 | 0.49 | ug/L | | | 02/25/22 17:41 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/25/22 17:41 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 17:41 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/25/22 17:41 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 17:41 | 1 |
| **Vinyl chloride** | **1.6** | | 1.0 | 0.45 | ug/L | | | 02/25/22 17:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *62 - 137* | | *02/25/22 17:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *56 - 136* | | *02/25/22 17:41* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *78 - 122* | | *02/25/22 17:41* | *1* |
| *Dibromofluoromethane (Surr)* | *77* | | *73 - 120* | | *02/25/22 17:41* | *1* |

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

Job ID: 240-163022-1

**Client Sample ID: MW-79SR_022222**
**Date Collected: 02/22/22 11:45**
**Date Received: 02/24/22 08:00**

**Lab Sample ID: 240-163022-4**
**Matrix: Water**

### 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 | | | 03/01/22 21:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *66 - 120* | | *03/01/22 21:15* | *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 | 0.49 | ug/L | | | 02/25/22 18:04 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/25/22 18:04 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 18:04 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/25/22 18:04 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 18:04 | 1 |
| **Vinyl chloride** | **0.71** | **J** | 1.0 | 0.45 | ug/L | | | 02/25/22 18:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *62 - 137* | | *02/25/22 18:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *56 - 136* | | *02/25/22 18:04* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *78 - 122* | | *02/25/22 18:04* | *1* |
| *Dibromofluoromethane (Surr)* | *77* | | *73 - 120* | | *02/25/22 18:04* | *1* |

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

Job ID: 240-163022-1

**Client Sample ID: MW-140S_022222**
**Date Collected: 02/22/22 13:55**
**Date Received: 02/24/22 08:00**

**Lab Sample ID: 240-163022-5**
**Matrix: Water**

### 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 | | | 03/01/22 21:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *66 - 120* | | *03/01/22 21:41* | *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 | 0.49 | ug/L | | | 02/25/22 18:26 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/25/22 18:26 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 18:26 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/25/22 18:26 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 18:26 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 02/25/22 18:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 137* | | *02/25/22 18:26* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *56 - 136* | | *02/25/22 18:26* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *78 - 122* | | *02/25/22 18:26* | *1* |
| *Dibromofluoromethane (Surr)* | *76* | | *73 - 120* | | *02/25/22 18:26* | *1* |

# Surrogate Summary

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

Job ID: 240-163022-1

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

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | TOL | DBFM |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) |
| 240-163022-1 | TRIP BLANK_45 | 79 | 100 | 92 | 76 |
| 240-163022-2 | MW-141S_022222 | 80 | 99 | 93 | 76 |
| 240-163022-3 | MW-79D_022222 | 79 | 101 | 94 | 77 |
| 240-163022-4 | MW-79SR_022222 | 79 | 99 | 92 | 77 |
| 240-163022-5 | MW-140S_022222 | 80 | 100 | 93 | 76 |
| 240-163022-5 MS | MW-140S_022222 | 75 | 99 | 93 | 76 |
| 240-163022-5 MSD | MW-140S_022222 | 79 | 104 | 94 | 78 |
| LCS 240-518737/5 | Lab Control Sample | 80 | 100 | 93 | 80 |
| MB 240-518737/8 | Method Blank | 81 | 102 | 94 | 80 |

**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) |
|---|---|---|
| | | DCA |
| Lab Sample ID | Client Sample ID | (66-120) |
| 240-163022-2 | MW-141S_022222 | 82 |
| 240-163022-3 | MW-79D_022222 | 80 |
| 240-163022-4 | MW-79SR_022222 | 80 |
| 240-163022-5 | MW-140S_022222 | 82 |
| 240-163074-G-3 MS | Matrix Spike | 76 |
| 240-163074-M-3 MSD | Matrix Spike Duplicate | 81 |
| LCS 240-518984/4 | Lab Control Sample | 83 |
| MB 240-518984/5 | Method Blank | 82 |

**Surrogate Legend**

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

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

**Lab Sample ID: MB 240-518737/8**
**Matrix: Water**
**Analysis Batch: 518737**

**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 | | | 02/25/22 12:06 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/25/22 12:06 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 12:06 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/25/22 12:06 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/25/22 12:06 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 02/25/22 12:06 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *81* | | *62 - 137* | | *02/25/22 12:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *56 - 136* | | *02/25/22 12:06* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *78 - 122* | | *02/25/22 12:06* | *1* |
| *Dibromofluoromethane (Surr)* | *80* | | *73 - 120* | | *02/25/22 12:06* | *1* |

**Lab Sample ID: LCS 240-518737/5**
**Matrix: Water**
**Analysis Batch: 518737**

**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 | 17.5 | | ug/L | | 87 | 63 - 134 |
| cis-1,2-Dichloroethene | 20.0 | 16.8 | | ug/L | | 84 | 77 - 123 |
| Tetrachloroethene | 20.0 | 18.4 | | ug/L | | 92 | 76 - 123 |
| trans-1,2-Dichloroethene | 20.0 | 16.3 | | ug/L | | 81 | 75 - 124 |
| Trichloroethene | 20.0 | 16.7 | | ug/L | | 84 | 70 - 122 |
| Vinyl chloride | 20.0 | 17.8 | | ug/L | | 89 | 60 - 144 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 137* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *56 - 136* |
| *Toluene-d8 (Surr)* | *93* | | *78 - 122* |
| *Dibromofluoromethane (Surr)* | *80* | | *73 - 120* |

**Lab Sample ID: 240-163022-5 MS**
**Matrix: Water**
**Analysis Batch: 518737**

**Client Sample ID: MW-140S_022222**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 15.2 | | ug/L | | 76 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 15.9 | | ug/L | | 79 | 66 - 128 |
| Tetrachloroethene | 1.0 | U | 20.0 | 16.9 | | ug/L | | 85 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 15.3 | | ug/L | | 76 | 56 - 136 |
| Trichloroethene | 1.0 | U | 20.0 | 14.8 | | ug/L | | 74 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 20.0 | 16.3 | | ug/L | | 82 | 43 - 157 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *75* | | *62 - 137* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *56 - 136* |
| *Toluene-d8 (Surr)* | *93* | | *78 - 122* |

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

**Lab Sample ID: 240-163022-5 MS**
**Matrix: Water**
**Analysis Batch: 518737**

**Client Sample ID: MW-140S_022222**
**Prep Type: Total/NA**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *76* | | *73 - 120* |

**Lab Sample ID: 240-163022-5 MSD**
**Matrix: Water**
**Analysis Batch: 518737**

**Client Sample ID: MW-140S_022222**
**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 | 15.3 | | ug/L | | 76 | 56 - 135 | 0 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 16.2 | | ug/L | | 81 | 66 - 128 | 2 | 14 |
| Tetrachloroethene | 1.0 | U | 20.0 | 16.8 | | ug/L | | 84 | 62 - 131 | 1 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 15.5 | | ug/L | | 77 | 56 - 136 | 1 | 15 |
| Trichloroethene | 1.0 | U | 20.0 | 15.2 | | ug/L | | 76 | 61 - 124 | 3 | 15 |
| Vinyl chloride | 1.0 | U | 20.0 | 16.5 | | ug/L | | 83 | 43 - 157 | 1 | 24 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *62 - 137* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *56 - 136* |
| *Toluene-d8 (Surr)* | *94* | | *78 - 122* |
| *Dibromofluoromethane (Surr)* | *78* | | *73 - 120* |

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

**Lab Sample ID: MB 240-518984/5**
**Matrix: Water**
**Analysis Batch: 518984**

**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 | | | 03/01/22 19:35 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *66 - 120* | | *03/01/22 19:35* | *1* |

**Lab Sample ID: LCS 240-518984/4**
**Matrix: Water**
**Analysis Batch: 518984**

**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 | 9.68 | | ug/L | | 97 | 80 - 122 |

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

**Lab Sample ID: 240-163074-G-3 MS**
**Matrix: Water**
**Analysis Batch: 518984**

**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 | 10.2 | | ug/L | | 102 | 51 - 153 |

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

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *66 - 120* |

**Lab Sample ID: 240-163074-M-3 MSD**
**Matrix: Water**
**Analysis Batch: 518984**

**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 | 2.0 | U | 10.0 | 10.4 | | ug/L | | 104 | 51 - 153 | 1 | 16 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *81* | | *66 - 120* |

# QC Association Summary

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

Job ID: 240-163022-1

## GC/MS VOA

### Analysis Batch: 518737

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 240-163022-1 | TRIP BLANK_45 | Total/NA | Water | 8260B | |
| 240-163022-2 | MW-141S_022222 | Total/NA | Water | 8260B | |
| 240-163022-3 | MW-79D_022222 | Total/NA | Water | 8260B | |
| 240-163022-4 | MW-79SR_022222 | Total/NA | Water | 8260B | |
| 240-163022-5 | MW-140S_022222 | Total/NA | Water | 8260B | |
| MB 240-518737/8 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-518737/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| 240-163022-5 MS | MW-140S_022222 | Total/NA | Water | 8260B | |
| 240-163022-5 MSD | MW-140S_022222 | Total/NA | Water | 8260B | |

### Analysis Batch: 518984

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 240-163022-2 | MW-141S_022222 | Total/NA | Water | 8260B SIM | |
| 240-163022-3 | MW-79D_022222 | Total/NA | Water | 8260B SIM | |
| 240-163022-4 | MW-79SR_022222 | Total/NA | Water | 8260B SIM | |
| 240-163022-5 | MW-140S_022222 | Total/NA | Water | 8260B SIM | |
| MB 240-518984/5 | Method Blank | Total/NA | Water | 8260B SIM | |
| LCS 240-518984/4 | Lab Control Sample | Total/NA | Water | 8260B SIM | |
| 240-163074-G-3 MS | Matrix Spike | Total/NA | Water | 8260B SIM | |
| 240-163074-M-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B SIM | |

# Lab Chronicle

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

Job ID: 240-163022-1

## Client Sample ID: TRIP BLANK_45
**Lab Sample ID: 240-163022-1**
**Date Collected: 02/22/22 00:00**
**Matrix: Water**
**Date Received: 02/24/22 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 518737 | 02/25/22 16:57 | TJL1 | TAL CAN |

## Client Sample ID: MW-141S_022222
**Lab Sample ID: 240-163022-2**
**Date Collected: 02/22/22 09:40**
**Matrix: Water**
**Date Received: 02/24/22 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 518737 | 02/25/22 17:19 | TJL1 | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 518984 | 03/01/22 20:25 | CS | TAL CAN |

## Client Sample ID: MW-79D_022222
**Lab Sample ID: 240-163022-3**
**Date Collected: 02/22/22 10:42**
**Matrix: Water**
**Date Received: 02/24/22 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 518737 | 02/25/22 17:41 | TJL1 | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 518984 | 03/01/22 20:50 | CS | TAL CAN |

## Client Sample ID: MW-79SR_022222
**Lab Sample ID: 240-163022-4**
**Date Collected: 02/22/22 11:45**
**Matrix: Water**
**Date Received: 02/24/22 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 518737 | 02/25/22 18:04 | TJL1 | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 518984 | 03/01/22 21:15 | CS | TAL CAN |

## Client Sample ID: MW-140S_022222
**Lab Sample ID: 240-163022-5**
**Date Collected: 02/22/22 13:55**
**Matrix: Water**
**Date Received: 02/24/22 08:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 518737 | 02/25/22 18:26 | TJL1 | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 518984 | 03/01/22 21:41 | 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 - Off Site

Job ID: 240-163022-1

## 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 | 02-23-22 * |
| Connecticut | State | PH-0590 | 12-31-21 * |
| Florida | NELAP | E87225 | 06-30-22 |
| Georgia | State | 4062 | 02-23-22 * |
| Illinois | NELAP | 200004 | 07-31-22 |
| Iowa | State | 421 | 06-01-23 |
| Kansas | NELAP | E-10336 | 04-30-22 |
| Kentucky (UST) | State | 112225 | 02-23-22 * |
| 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 | 11-06-22 |
| New York | NELAP | 10975 | 03-31-22 |
| Ohio | State | 8303 | 02-23-23 |
| Ohio VAP | State | CL0024 | 12-21-23 |
| Pennsylvania | NELAP | 68-00340 | 08-31-22 |
| Texas | NELAP | T104704517-21-14 | 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.

MICHIGAN
190

# Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

TestAmerica Laboratories, Inc.

| Client Contact | Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other | | |
|---|---|---|---|
| Company Name: Arcadis | Client Project Manager: Kris Hinskey | Site Contact: Julia McClafferty | Lab Contact: Mike DelMonico |
| Address: 28550 Cabot Drive, Suite 500 | Telephone: 248-994-2240 | Telephone: 734-644-5131 | Telephone: 330-497-9396 |
| City/State/Zip: Novi, MI, 48377 | Email: kristoffer.hinskey@arcadis.com | Analysis Turnaround Time | COC No: 1 of 1 COCs |
| Phone: 248-994-2240 | Sampler Name: Dominic Harmon | TAT if different from below: ☐ 3 weeks ☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day — 10 day | For lab use only: Walk-in client; Lab sampling; Job/SDG No: |
| Project Name: Ford LTP Off-Site | Method of Shipment/Carrier: | | |
| Project Number: 30080642.402.04 | Shipping/Tracking No: | | |
| PO # 30080642.402.04 | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y / N) | Composite=C / Grab=G | Analyses: 1,1-DCE 8260B | cis-1,2-DCE 8260B | Trans-1,2-DCE 8260B | PCE 8260B | TCE 8260B | Vinyl Chloride 8260B | 1,4-Dioxane 8260B SIM | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRIP BLANK_45 | ~ | ~ | | 1 | | | | | | 1 | | | | | N | G | X | X | X | X | X | X | | 1 Trip Blank |
| MW-1415-022222 | 02/22/22 | 0940 | | 6 | | | | | | 6 | | | | | N | G | X | X | X | X | X | X | X | 3 VOAs for 8260B<br>3 VOAs for 8260B SIM |
| MW-79D-022222 | 02/22/22 | 1042 | | 6 | | | | | | 6 | | | | | N | G | X | X | X | X | X | X | X | |
| MW-79SR-022222 | 02/22/22 | 1145 | | 6 | | | | | | 6 | | | | | N | G | X | X | X | X | X | X | X | |
| MW-1405_022222 | 02/22/22 | 1355 | | 6 | | | | | | 6 | | | | | N | G | X | X | X | X | X | X | X | |

240-163022 Chain of Custody

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin 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:

Sample Address:

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

Level IV Reporting requested.

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| | Arcadis | 02/22/22 1500 | Novi Cold Storage | Arcadis | 02/22/22 1500 |
| Relinquished by: Novi Cold Storage | Company: Arcadis | Date/Time: 2/23/22 1010 | Received by: | Company: EETA | Date/Time: 2-23-22 1010 |
| Relinquished by: | Company: Eurofins | Date/Time: 2-23-22 1306 | Received in Laboratory by: | Company: EETNC | Date/Time: 2-24-22 0800 |

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3/10/2022

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

Client Arcadis Site Name _____ Cooler unpacked by: Adam Garrett

Cooler Received on 2-24-22 Opened on 2-24-22

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-14 (CF **-0.2** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°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 ea | 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 |
| -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)? | | |
| 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? ● ⬅ Larger than this. | Yes | No NA |
| 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 61042019 | Yes | No |
| 17. Was a LL Hg or Me Hg trip blank present? _____ | Yes | No |

**Tests that are not checked for pH by Receiving:**

**VOAs**
**Oil and Grease**
**TOC**

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

Concerning _____

**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES** ☐ additional next page

Samples processed by:

**19. SAMPLE CONDITION**

Sample(s) _____ 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: _____

*WI-NC-099*

Login # : _____

| Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form | | | | |
|---|---|---|---|---|
| Cooler Description (Circle) | IR Gun # (Circle) | Observed Temp °C | Corrected Temp °C | Coolant (Circle) |
| (TA) Client Box Other | (IR-14) IR-15 | 0.5 | 0.3 | (Wet Ice) Blue Ice Dry Ice Water None |
| (TA) Client Box Other | (IR-14) IR-15 | 0.4 | 0.2 | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
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| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
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| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client Box Other | IR-14 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| | | | ☐ | See Temperature Excursion Form |

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