

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey
ARCADIS US Inc
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Generated 11/13/2023 4:50:33 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-194773-1

Eurofins Cleveland

Job Notes

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

Authorization



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



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Definitions/Glossary

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

Job ID: 240-194773-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| 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 US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-194773-1

Job ID: 240-194773-1

Laboratory: Eurofins Cleveland

Narrative

**Job Narrative
240-194773-1**

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

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

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

Receipt

The samples were received on 11/3/2023 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 3 coolers at receipt time were 1.8°C, 2.2°C and 2.9°C

GC/MS VOA

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



Method Summary

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

Job ID: 240-194773-1

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

Protocol References:

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

Laboratory References:

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

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- 11
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- 13
- 14

Sample Summary

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

Job ID: 240-194773-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-194773-1 | TRIP BLANK_1 | Water | 10/30/23 00:00 | 11/03/23 08:00 |
| 240-194773-2 | MW-102_103023 | Water | 10/30/23 11:13 | 11/03/23 08:00 |
| 240-194773-3 | MW-102S_103023 | Water | 10/30/23 12:36 | 11/03/23 08:00 |
| 240-194773-4 | MW-105S_103023 | Water | 10/30/23 14:22 | 11/03/23 08:00 |
| 240-194773-5 | DUP_14 | Water | 10/30/23 00:00 | 11/03/23 08:00 |

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- 10
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- 13
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Detection Summary

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

Job ID: 240-194773-1

Client Sample ID: TRIP BLANK_1

Lab Sample ID: 240-194773-1

No Detections.

Client Sample ID: MW-102_103023

Lab Sample ID: 240-194773-2

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

Client Sample ID: MW-102S_103023

Lab Sample ID: 240-194773-3

No Detections.

Client Sample ID: MW-105S_103023

Lab Sample ID: 240-194773-4

No Detections.

Client Sample ID: DUP_14

Lab Sample ID: 240-194773-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride | 2.6 | | 1.0 | 0.45 | ug/L | 1 | | 8260D | Total/NA |

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: TRIP BLANK_1

Lab Sample ID: 240-194773-1

Date Collected: 10/30/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 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 | | | 11/07/23 17:16 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 17:16 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:16 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 17:16 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:16 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/07/23 17:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 137 | | 11/07/23 17:16 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 56 - 136 | | 11/07/23 17:16 | 1 |
| Toluene-d8 (Surr) | 102 | | 78 - 122 | | 11/07/23 17:16 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | 11/07/23 17:16 | 1 |

Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: MW-102_103023

Lab Sample ID: 240-194773-2

Date Collected: 10/30/23 11:13

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 15:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 66 - 120 | | | | | 11/10/23 15:41 | 1 |

Method: SW846 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 | | | 11/07/23 17:39 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 17:39 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:39 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 17:39 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:39 | 1 |
| Vinyl chloride | 1.6 | | 1.0 | 0.45 | ug/L | | | 11/07/23 17:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 137 | | | | | 11/07/23 17:39 | 1 |
| 4-Bromofluorobenzene (Surr) | 89 | | 56 - 136 | | | | | 11/07/23 17:39 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 11/07/23 17:39 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 73 - 120 | | | | | 11/07/23 17:39 | 1 |

Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: MW-102S_103023

Lab Sample ID: 240-194773-3

Date Collected: 10/30/23 12:36

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 16:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 120 | | | | | 11/10/23 16:05 | 1 |

Method: SW846 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 | | | 11/07/23 18:02 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 18:02 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:02 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 18:02 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:02 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/07/23 18:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 137 | | | | | 11/07/23 18:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 56 - 136 | | | | | 11/07/23 18:02 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 11/07/23 18:02 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 | | | | | 11/07/23 18:02 | 1 |

Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: MW-105S_103023

Lab Sample ID: 240-194773-4

Date Collected: 10/30/23 14:22

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 16:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 120 | | | | | 11/10/23 16:29 | 1 |

Method: SW846 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 | | | 11/07/23 18:26 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 18:26 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:26 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 18:26 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:26 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/07/23 18:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | | | | 11/07/23 18:26 | 1 |
| 4-Bromofluorobenzene (Surr) | 81 | | 56 - 136 | | | | | 11/07/23 18:26 | 1 |
| Toluene-d8 (Surr) | 93 | | 78 - 122 | | | | | 11/07/23 18:26 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | | | | 11/07/23 18:26 | 1 |

Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: DUP_14

Lab Sample ID: 240-194773-5

Date Collected: 10/30/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 16:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 120 | | | | | 11/10/23 16:52 | 1 |

Method: SW846 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 | | | 11/07/23 18:49 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 18:49 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:49 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 18:49 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:49 | 1 |
| Vinyl chloride | 2.6 | | 1.0 | 0.45 | ug/L | | | 11/07/23 18:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 | | | | | 11/07/23 18:49 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | 56 - 136 | | | | | 11/07/23 18:49 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | | | | 11/07/23 18:49 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | | | | 11/07/23 18:49 | 1 |

Surrogate Summary

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

Job ID: 240-194773-1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|--------------------|------------------------|--|-----------------|-----------------|------------------|
| | | DCA (62-137) | BFB (56-136) | TOL (78-122) | DBFM (73-120) |
| 240-194531-F-1 MSD | Matrix Spike Duplicate | 97 | 99 | 101 | 100 |
| 240-194531-I-1 MS | Matrix Spike | 103 | 97 | 97 | 97 |
| 240-194773-1 | TRIP BLANK_1 | 99 | 97 | 102 | 99 |
| 240-194773-2 | MW-102_103023 | 106 | 89 | 99 | 107 |
| 240-194773-3 | MW-102S_103023 | 99 | 101 | 99 | 97 |
| 240-194773-4 | MW-105S_103023 | 108 | 81 | 93 | 99 |
| 240-194773-5 | DUP_14 | 100 | 106 | 107 | 102 |
| LCS 240-593723/4 | Lab Control Sample | 100 | 96 | 99 | 89 |
| MB 240-593723/7 | Method Blank | 95 | 89 | 88 | 103 |

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|--|
| | | DCA (66-120) |
| 240-194709-B-1 MS | Matrix Spike | 81 |
| 240-194709-B-1 MSD | Matrix Spike Duplicate | 153 S1+ |
| 240-194773-2 | MW-102_103023 | 109 |
| 240-194773-3 | MW-102S_103023 | 110 |
| 240-194773-4 | MW-105S_103023 | 111 |
| 240-194773-5 | DUP_14 | 112 |
| LCS 240-594170/4 | Lab Control Sample | 101 |
| MB 240-594170/6 | Method Blank | 89 |

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-194773-1

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

Lab Sample ID: MB 240-593723/7

Matrix: Water

Analysis Batch: 593723

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 | | | 11/07/23 12:58 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 12:58 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 12:58 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 12:58 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 12:58 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/07/23 12:58 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 62 - 137 | | 11/07/23 12:58 | 1 |
| 4-Bromofluorobenzene (Surr) | 89 | | 56 - 136 | | 11/07/23 12:58 | 1 |
| Toluene-d8 (Surr) | 88 | | 78 - 122 | | 11/07/23 12:58 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 73 - 120 | | 11/07/23 12:58 | 1 |

Lab Sample ID: LCS 240-593723/4

Matrix: Water

Analysis Batch: 593723

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 | 25.0 | 26.8 | | ug/L | | 107 | 63 - 134 |
| cis-1,2-Dichloroethene | 25.0 | 22.9 | | ug/L | | 92 | 77 - 123 |
| Tetrachloroethene | 25.0 | 25.4 | | ug/L | | 102 | 76 - 123 |
| trans-1,2-Dichloroethene | 25.0 | 24.1 | | ug/L | | 96 | 75 - 124 |
| Trichloroethene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 122 |
| Vinyl chloride | 12.5 | 10.2 | | ug/L | | 81 | 60 - 144 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 96 | | 56 - 136 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 89 | | 73 - 120 |

Lab Sample ID: 240-194531-F-1 MSD

Matrix: Water

Analysis Batch: 593723

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike Added | MSD | MSD | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|--------|-----------|-------------|--------|-----------|------|---|------|-------------|-----|-----------|
| | Result | Qualifier | | Result | Qualifier | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 27.7 | | ug/L | | 111 | 56 - 135 | 16 | 26 |
| cis-1,2-Dichloroethene | 1.4 | | 25.0 | 24.5 | | ug/L | | 92 | 66 - 128 | 12 | 14 |
| Tetrachloroethene | 15 | | 25.0 | 42.6 | | ug/L | | 109 | 62 - 131 | 0 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.6 | | ug/L | | 98 | 56 - 136 | 9 | 15 |
| Trichloroethene | 26 | | 25.0 | 49.4 | | ug/L | | 94 | 61 - 124 | 1 | 15 |
| Vinyl chloride | 1.0 | U | 12.5 | 10.7 | | ug/L | | 86 | 43 - 157 | 11 | 24 |

| Surrogate | MSD | MSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 99 | | 56 - 136 |
| Toluene-d8 (Surr) | 101 | | 78 - 122 |

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-194773-1

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

Lab Sample ID: 240-194531-F-1 MSD
Matrix: Water
Analysis Batch: 593723

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

| | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 |

Lab Sample ID: 240-194531-I-1 MS
Matrix: Water
Analysis Batch: 593723

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

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 23.5 | | ug/L | | 94 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.4 | | 25.0 | 21.8 | | ug/L | | 81 | 66 - 128 |
| Tetrachloroethene | 15 | | 25.0 | 42.7 | | ug/L | | 110 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 22.4 | | ug/L | | 90 | 56 - 136 |
| Trichloroethene | 26 | | 25.0 | 49.8 | | ug/L | | 96 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 12.5 | 9.56 | | ug/L | | 76 | 43 - 157 |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 97 | | 56 - 136 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 |

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

Lab Sample ID: MB 240-594170/6
Matrix: Water
Analysis Batch: 594170

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/10/23 10:32 | 1 |

| | MB | MB | | | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|--|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 66 - 120 | | 11/10/23 10:32 | 1 | | |

Lab Sample ID: LCS 240-594170/4
Matrix: Water
Analysis Batch: 594170

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

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|-------------|-------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| 1,4-Dioxane | 10.0 | 11.4 | | ug/L | | 114 | 80 - 122 |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 66 - 120 |

Lab Sample ID: 240-194709-B-1 MS
Matrix: Water
Analysis Batch: 594170

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

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| 1,4-Dioxane | 35 | F1 F2 | 10.0 | 40.2 | F1 | ug/L | | 48 | 51 - 153 |

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-194773-1

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

| <i>Surrogate</i> | <i>%Recovery</i> | <i>MS MS Qualifier</i> | <i>Limits</i> |
|------------------------------|------------------|------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 66 - 120 |

Lab Sample ID: 240-194709-B-1 MSD
 Matrix: Water
 Analysis Batch: 594170

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 | 35 | F1 F2 | 10.0 | 67.3 | F1 F2 | ug/L | | 320 | 51 - 153 | 51 | 16 |

| <i>Surrogate</i> | <i>%Recovery</i> | <i>MSD MSD Qualifier</i> | <i>Limits</i> |
|------------------------------|------------------|--------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 153 | S1+ | 66 - 120 |

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QC Association Summary

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

Job ID: 240-194773-1

GC/MS VOA

Analysis Batch: 593723

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-194773-1 | TRIP BLANK_1 | Total/NA | Water | 8260D | |
| 240-194773-2 | MW-102_103023 | Total/NA | Water | 8260D | |
| 240-194773-3 | MW-102S_103023 | Total/NA | Water | 8260D | |
| 240-194773-4 | MW-105S_103023 | Total/NA | Water | 8260D | |
| 240-194773-5 | DUP_14 | Total/NA | Water | 8260D | |
| MB 240-593723/7 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-593723/4 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-194531-F-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |
| 240-194531-I-1 MS | Matrix Spike | Total/NA | Water | 8260D | |

Analysis Batch: 594170

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-194773-2 | MW-102_103023 | Total/NA | Water | 8260D SIM | |
| 240-194773-3 | MW-102S_103023 | Total/NA | Water | 8260D SIM | |
| 240-194773-4 | MW-105S_103023 | Total/NA | Water | 8260D SIM | |
| 240-194773-5 | DUP_14 | Total/NA | Water | 8260D SIM | |
| MB 240-594170/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-594170/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-194709-B-1 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-194709-B-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

Lab Chronicle

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

Job ID: 240-194773-1

Client Sample ID: TRIP BLANK_1

Lab Sample ID: 240-194773-1

Date Collected: 10/30/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 593723 | LEE | EET CLE | 11/07/23 17:16 |

Client Sample ID: MW-102_103023

Lab Sample ID: 240-194773-2

Date Collected: 10/30/23 11:13

Matrix: Water

Date Received: 11/03/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 593723 | LEE | EET CLE | 11/07/23 17:39 |
| Total/NA | Analysis | 8260D SIM | | 1 | 594170 | CS | EET CLE | 11/10/23 15:41 |

Client Sample ID: MW-102S_103023

Lab Sample ID: 240-194773-3

Date Collected: 10/30/23 12:36

Matrix: Water

Date Received: 11/03/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 593723 | LEE | EET CLE | 11/07/23 18:02 |
| Total/NA | Analysis | 8260D SIM | | 1 | 594170 | CS | EET CLE | 11/10/23 16:05 |

Client Sample ID: MW-105S_103023

Lab Sample ID: 240-194773-4

Date Collected: 10/30/23 14:22

Matrix: Water

Date Received: 11/03/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 593723 | LEE | EET CLE | 11/07/23 18:26 |
| Total/NA | Analysis | 8260D SIM | | 1 | 594170 | CS | EET CLE | 11/10/23 16:29 |

Client Sample ID: DUP_14

Lab Sample ID: 240-194773-5

Date Collected: 10/30/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 593723 | LEE | EET CLE | 11/07/23 18:49 |
| Total/NA | Analysis | 8260D SIM | | 1 | 594170 | CS | EET CLE | 11/10/23 16:52 |

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-194773-1

Laboratory: Eurofins Cleveland

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

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

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

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Eurofins - Cleveland Sample Receipt Form/Narrative Login #: 194773
Barberton Facility

Client Arcadis Site Name _____ Cooler unpacked by: Vanny Payer
Cooler Received on 11-3-23 Opened on 11-3-23
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____


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

Eurofins Cooler # EC 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 # 22 (CF +1.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity each 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)? 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# HC316719
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 # Covered 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: _____

DATA VERIFICATION REPORT



November 17, 2023

Kris Hinskey
Arcadis Inc
10559 Citation Ave
Suite 100
Brighton, MI 48116

CADENA project ID: E203631
Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater
Project number: 30167538.402.04 off-site
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 194773-1
Sample date: 2023-10-30
Report received by CADENA: 2023-11-16
Initial Data Verification completed by CADENA: 2023-11-17
Number of Samples:5
Sample Matrices:Water
Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

| Valid Qualifiers | Description |
|------------------|--|
| < | Less than the reported concentration. |
| > | Greater than the reported concentration. |
| B | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration. |
| E | The analyte / Compound reported exceeds the calibration range and is considered estimated. |
| EMPC | Estimated Minimum Potential Contamination - Dioxin/Furan analyses only. |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| JB | NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED |
| JH | The sample result is considered estimated and is potentially biased high. |
| JL | The sample result is considered estimated and is potentially biased low. |
| JUB | NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED |
| NJ | Tentatively identified compound with approximated concentration. |
| R | Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.) |
| TNTC | Too Numerous to Count - Asbestos and Microbiological Results. |
| U | Indicates that the analyte / compound was analyzed for, but not detected. |
| UB | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL. |
| UJ | The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample. |

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 194773-1

| Analyte | Cas No. | Sample Name: TRIP BLANK_1 | | | | Sample Name: MW-102_103023 | | | | Sample Name: MW-102S_103023 | | | | Sample Name: MW-105S_103023 | | | | Sample Name: DUP_14 | | | |
|--------------------------|----------|---------------------------|-------|-------|-------|----------------------------|-------|-------|-------|-----------------------------|-------|-------|-------|-----------------------------|-------|-------|-------|---------------------|-------|-------|-------|
| | | Result | Limit | Units | Valid | Result | Limit | Units | Valid | Result | Limit | Units | Valid | Result | Limit | Units | Valid | Result | Limit | Units | Valid |
| GC/MS VOC | | | | | | | | | | | | | | | | | | | | | |
| <u>OSW-8260D</u> | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | --- | 1.6 | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | 2.6 | 1.0 | ug/l | --- |
| <u>OSW-8260DSIM</u> | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- |

Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-194773-1

CADENA Verification Report: 2023-11-17

Analyses Performed By:
Eurofins Cleveland
Barberton, Ohio

Report # 52116R
Review Level: Tier III
Project: 30167538.402.02

DATA REVIEW

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-194773-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| Sample ID | Lab ID | Matrix | Sample Collection Date | Parent Sample | Analysis | |
|----------------|--------------|--------|------------------------|---------------|----------|---------|
| | | | | | VOC | VOC SIM |
| TRIP BLANK_1 | 240-194773-1 | Water | 10/30/2023 | | X | |
| MW-102_103023 | 240-194773-2 | Water | 10/30/2023 | | X | X |
| MW-102S_103023 | 240-194773-3 | Water | 10/30/2023 | | X | X |
| MW-105S_103023 | 240-194773-4 | Water | 10/30/2023 | | X | X |
| DUP_14 | 240-194773-5 | Water | 10/30/2023 | MW-102_103023 | X | X |

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

| Items Reviewed | Reported | | Performance Acceptable | | Not Required |
|--|----------|-----|------------------------|-----|--------------|
| | No | Yes | No | Yes | |
| 1. Sample receipt condition | | X | | X | |
| 2. Requested analyses and sample results | | X | | X | |
| 3. Master tracking list | | X | | X | |
| 4. Methods of analysis | | X | | X | |
| 5. Reporting limits | | X | | X | |
| 6. Sample collection date | | X | | X | |
| 7. Laboratory sample received date | | X | | X | |
| 8. Sample preservation verification (as applicable) | | X | | X | |
| 9. Sample preparation/extraction/analysis dates | | X | | X | |
| 10. Fully executed Chain-of-Custody (COC) form | | X | | X | |
| 11. Narrative summary of Quality Assurance or sample problems provided | | X | | X | |
| 12. Data Package Completeness and Compliance | | X | | X | |

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

DATA REVIEW

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

DATA REVIEW

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Compound | Sample Result (µg/L) | Duplicate Result (µg/L) | RPD |
|------------------------|----------------|----------------------|-------------------------|-----|
| MW-102_103023 / DUP_14 | Vinyl chloride | 1.6 | 2.6 | AC |

Note:

AC Acceptable

The results between the parent sample and field duplicate were acceptable.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA REVIEW

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: 

DATE: December 14, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 15, 2023

**NO CORRECTIONS/QUALIFIERS ADDED
TO SAMPLE ANALYSIS DATA SHEETS**



CHAIN OF CUSTODY

**CORRECTED SAMPLE ANALYSIS DATA
SHEETS**



Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: TRIP BLANK_1

Lab Sample ID: 240-194773-1

Date Collected: 10/30/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 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 | | | 11/07/23 17:16 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 17:16 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:16 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 17:16 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:16 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/07/23 17:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 137 | | 11/07/23 17:16 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 56 - 136 | | 11/07/23 17:16 | 1 |
| Toluene-d8 (Surr) | 102 | | 78 - 122 | | 11/07/23 17:16 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | 11/07/23 17:16 | 1 |

Client Sample ID: MW-102_103023

Lab Sample ID: 240-194773-2

Date Collected: 10/30/23 11:13

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 15:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 66 - 120 | | 11/10/23 15:41 | 1 |

Method: SW846 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 | | | 11/07/23 17:39 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 17:39 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:39 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 17:39 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 17:39 | 1 |
| Vinyl chloride | 1.6 | | 1.0 | 0.45 | ug/L | | | 11/07/23 17:39 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 137 | | 11/07/23 17:39 | 1 |
| 4-Bromofluorobenzene (Surr) | 89 | | 56 - 136 | | 11/07/23 17:39 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | 11/07/23 17:39 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 73 - 120 | | 11/07/23 17:39 | 1 |

Client Sample ID: MW-102S_103023

Lab Sample ID: 240-194773-3

Date Collected: 10/30/23 12:36

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 16:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 120 | | 11/10/23 16:05 | 1 |

Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: MW-102S_103023

Lab Sample ID: 240-194773-3

Date Collected: 10/30/23 12:36

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 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 | | | 11/07/23 18:02 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 18:02 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:02 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 18:02 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:02 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/07/23 18:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 137 | | 11/07/23 18:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 56 - 136 | | 11/07/23 18:02 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | 11/07/23 18:02 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 | | 11/07/23 18:02 | 1 |

Client Sample ID: MW-105S_103023

Lab Sample ID: 240-194773-4

Date Collected: 10/30/23 14:22

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 16:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 120 | | 11/10/23 16:29 | 1 |

Method: SW846 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 | | | 11/07/23 18:26 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 18:26 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:26 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 18:26 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:26 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/07/23 18:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | 11/07/23 18:26 | 1 |
| 4-Bromofluorobenzene (Surr) | 81 | | 56 - 136 | | 11/07/23 18:26 | 1 |
| Toluene-d8 (Surr) | 93 | | 78 - 122 | | 11/07/23 18:26 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | 11/07/23 18:26 | 1 |

Client Sample ID: DUP_14

Lab Sample ID: 240-194773-5

Date Collected: 10/30/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 8260D 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 | | | 11/10/23 16:52 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 120 | | 11/10/23 16:52 | 1 |

Client Sample Results

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

Job ID: 240-194773-1

Client Sample ID: DUP_14

Lab Sample ID: 240-194773-5

Date Collected: 10/30/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

Method: SW846 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 | | | 11/07/23 18:49 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/07/23 18:49 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:49 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/07/23 18:49 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/07/23 18:49 | 1 |
| Vinyl chloride | 2.6 | | 1.0 | 0.45 | ug/L | | | 11/07/23 18:49 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 | | 11/07/23 18:49 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | 56 - 136 | | 11/07/23 18:49 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | 11/07/23 18:49 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | 11/07/23 18:49 | 1 |