

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 240-106317-2

Client Project/Site: Ford LTP Livonia MI - E203631

For:

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

Attn: Kristoffer Hinskey

Moke Delyour

Authorized for release by: 1/17/2019 3:36:43 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 Livonia MI - E203631

Not Calculated

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Not Detected at the reporting limit (or MDL or EDL if shown)

Relative Percent Difference, a measure of the relative difference between two points

Reporting Limit or Requested Limit (Radiochemistry)

TestAmerica Job ID: 240-106317-2

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |
| X | Surrogate is outside control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| F2 | MS/MSD RPD exceeds control limits |
| | |

Glossary

NC

ND

PQL

QC

RER RL

RPD

TEF

TEQ

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |

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Case Narrative

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-106317-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203631

Report Number: 240-106317-2

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

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

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

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

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

RECEIPT

The samples were received on 12/27/2018 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MW-94S-122118 (240-106317-3) and DUP-02 (240-106317-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/31/2018.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for MW-94S-122118 (240-106317-3), DUP-02 (240-106317-6), MB 240-362467/7, LCS 240-362467/4, 240-106318-E-2 MS and 240-106318-F-2 MSD. Refer to the QC report for details.

Surrogate recovery for the following samples was outside the upper control limit. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed: MW-94S-122118 (240-106317-3), DUP-02 (240-106317-6), (LCS 240-362467/4) and (MB 240-362467/7).

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-94S-122118 (240-106317-3) and DUP-02 (240-106317-6) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 01/02/2019.

TestAmerica Job ID: 240-106317-2

Case Narrative

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-106317-2

Job ID: 240-106317-2 (Continued)

Laboratory: TestAmerica Canton (Continued)

1,4-Dioxane exceeded the RPD limit for the MSD of sample 240-106318-2 in batch 240-362602. Refer to the QC report for details.

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

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Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-106317-2

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

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-106317-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-106317-3 | MW-94S-122118 | Water | 12/21/18 13:00 | 12/27/18 08:30 |
| 240-106317-6 | DUP-02 | Water | 12/21/18 00:00 | 12/27/18 08:30 |

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Detection Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-106317-2

Client Sample ID: MW-94S-122118 Lab Sample ID: 240-106317-3

| Analyte | Result Qualifier | RL | MDL Unit | | thod Prep Type |
|------------------------|------------------|-----|-----------|-------|----------------|
| cis-1,2-Dichloroethene | 0.16 J | 1.0 | 0.16 ug/L | 1 826 | 0B Total/NA |

Client Sample ID: DUP-02 Lab Sample ID: 240-106317-6

| Analyte | Result Qualifier | RL | MDL Unit | Dil Fac D Method | Prep Type |
|------------------------|------------------|-----|-----------|------------------|-----------|
| cis-1,2-Dichloroethene | 0.18 J | 1.0 | 0.16 ug/L | 1 8260B | Total/NA |

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Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

Client Sample ID: MW-94S-122118

TestAmerica Job ID: 240-106317-2

Lab Sample ID: 240-106317-3

Matrix: Water

Date Collected: 12/21/18 13:00 Date Received: 12/27/18 08:30

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 01/02/19 15:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 63 - 125 | | | • | | 01/02/19 15:42 | 1 |
| Method: 8260B - Volatile O | rganic Compo | unds (GC/ | MS) | | | | | | |
| Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 12/31/18 17:46 | 1 |
| cis-1,2-Dichloroethene | 0.16 | J | 1.0 | 0.16 | ug/L | | | 12/31/18 17:46 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 12/31/18 17:46 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 12/31/18 17:46 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 12/31/18 17:46 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 12/31/18 17:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 141 | X | 70 - 121 | | | • | | 12/31/18 17:46 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 59 - 120 | | | | | 12/31/18 17:46 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 123 | | | | | 12/31/18 17:46 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 128 | | | | | 12/31/18 17:46 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-106317-2

Lab Sample ID: 240-106317-6

Matrix: Water

Client Sample ID: DUP-02 Date Collected: 12/21/18 00:00 Date Received: 12/27/18 08:30

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 01/02/19 16:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 77 | | 63 - 125 | | | | | 01/02/19 16:59 | 1 |
| Method: 8260B - Volatile O | rganic Compo | unds (GC/ | MS) | | | | | | |
| Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 12/31/18 18:58 | 1 |
| cis-1,2-Dichloroethene | 0.18 | J | 1.0 | 0.16 | ug/L | | | 12/31/18 18:58 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 12/31/18 18:58 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 12/31/18 18:58 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 12/31/18 18:58 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 12/31/18 18:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 143 | X | 70 - 121 | | | • | | 12/31/18 18:58 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 59 - 120 | | | | | 12/31/18 18:58 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 123 | | | | | 12/31/18 18:58 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 128 | | | | | 12/31/18 18:58 | 1 |

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-106317-2

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

Matrix: Water Prep Type: Total/NA

| | | | Pe | ercent Surre | ogate Reco |
|--------------------|------------------------|----------|----------|--------------|------------|
| | | DCA | BFB | TOL | DBFM |
| Lab Sample ID | Client Sample ID | (70-121) | (59-120) | (70-123) | (75-128) |
| 240-106317-3 | MW-94S-122118 | 141 X | 95 | 99 | 102 |
| 240-106317-6 | DUP-02 | 143 X | 95 | 100 | 101 |
| 240-106318-E-2 MS | Matrix Spike | 131 X | 112 | 106 | 93 |
| 240-106318-F-2 MSD | Matrix Spike Duplicate | 126 X | 110 | 104 | 92 |
| LCS 240-362467/4 | Lab Control Sample | 126 X | 113 | 106 | 92 |
| MB 240-362467/7 | Method Blank | 135 X | 94 | 100 | 98 |

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

| | | DCA | |
|--------------------|------------------------|----------|--|
| Lab Sample ID | Client Sample ID | (63-125) | |
| 240-106317-3 | MW-94S-122118 | 91 | |
| 240-106317-6 | DUP-02 | 77 | |
| 240-106318-I-2 MS | Matrix Spike | 104 | |
| 240-106318-I-2 MSD | Matrix Spike Duplicate | 102 | |
| LCS 240-362602/4 | Lab Control Sample | 99 | |
| MB 240-362602/5 | Method Blank | 99 | |

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

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TestAmerica Job ID: 240-106317-2

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631

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

Lab Sample ID: MB 240-362467/7

Matrix: Water

Analysis Batch: 362467

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

| | MB | MB | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 12/31/18 13:16 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 12/31/18 13:16 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 12/31/18 13:16 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 12/31/18 13:16 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 12/31/18 13:16 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 12/31/18 13:16 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepare | d Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|---------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 135 | X | 70 - 121 | | 12/31/18 13:16 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 59 - 120 | | 12/31/18 13:16 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 123 | | 12/31/18 13:16 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 75 - 128 | | 12/31/18 13:16 | 1 |

Lab Sample ID: LCS 240-362467/4

Matrix: Water

Analysis Batch: 362467

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Spike | LCS | LCS | | | | %Rec. |
|-------|-------------------------------------|--|--|--|--|--|
| Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 10.0 | 9.21 | | ug/L | | 92 | 65 - 139 |
| 10.0 | 9.22 | | ug/L | | 92 | 76 - 128 |
| 10.0 | 8.44 | | ug/L | | 84 | 74 - 130 |
| 10.0 | 9.44 | | ug/L | | 94 | 78 - 133 |
| 10.0 | 8.04 | | ug/L | | 80 | 76 - 125 |
| 10.0 | 12.7 | | ug/L | | 127 | 58 - 143 |
| | Added 10.0 10.0 10.0 10.0 10.0 10.0 | Added Result 10.0 9.21 10.0 9.22 10.0 8.44 10.0 9.44 10.0 8.04 | Added Result Qualifier 10.0 9.21 10.0 9.22 10.0 8.44 10.0 9.44 10.0 8.04 | Added Result Qualifier Unit 10.0 9.21 ug/L 10.0 9.22 ug/L 10.0 8.44 ug/L 10.0 9.44 ug/L 10.0 8.04 ug/L | Added Result Qualifier Unit D 10.0 9.21 ug/L ug/L 10.0 9.22 ug/L ug/L 10.0 8.44 ug/L ug/L 10.0 9.44 ug/L ug/L 10.0 8.04 ug/L | Added Result Qualifier Unit D %Rec 10.0 9.21 ug/L 92 10.0 9.22 ug/L 92 10.0 8.44 ug/L 84 10.0 9.44 ug/L 94 10.0 8.04 ug/L 80 |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 126 | X | 70 - 121 |
| 4-Bromofluorobenzene (Surr) | 113 | | 59 - 120 |
| Toluene-d8 (Surr) | 106 | | 70 - 123 |
| Dibromofluoromethane (Surr) | 92 | | 75 - 128 |

Lab Sample ID: 24

Matrix: Water

Analysis Batch: 362467

| 240-106318-E-2 MS | Client Sample ID: Matrix Spike |
|-------------------|--------------------------------|
| | Prep Type: Total/NA |
| 202407 | |

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|---------------------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 1.0 | U | 10.0 | 10.0 | | ug/L | | 100 | 53 - 140 | |
| cis-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.1 | | ug/L | | 101 | 64 - 130 | |
| Tetrachloroethene | 1.0 | U | 10.0 | 8.96 | | ug/L | | 90 | 51 ₋ 136 | |
| trans-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.2 | | ug/L | | 102 | 68 - 133 | |
| Trichloroethene | 1.0 | U | 10.0 | 8.42 | | ug/L | | 84 | 55 - 131 | |
| Vinyl chloride | 1.0 | U | 10.0 | 13.8 | | ug/L | | 138 | 43 - 154 | |

| MS | MS |
|----|----|
| | |

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 131 | X | 70 - 121 |
| 4-Bromofluorobenzene (Surr) | 112 | | 59 - 120 |
| Toluene-d8 (Surr) | 106 | | 70 - 123 |

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TestAmerica Job ID: 240-106317-2

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Project/Site: Ford LTP Livonia MI - E203631

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

Lab Sample ID: 240-106318-E-2 MS

Matrix: Water

Analysis Batch: 362467

Client: ARCADIS U.S., Inc.

MS MS

%Recovery Qualifier Surrogate Limits Dibromofluoromethane (Surr) 75 - 128 93

Lab Sample ID: 240-106318-F-2 MSD

Matrix: Water

Analysis Batch: 362467

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

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits RPD **Analyte** Unit %Rec Limit 1,1-Dichloroethene 1.0 U 10.0 10.0 ug/L 100 53 - 140 0 35 cis-1,2-Dichloroethene 1.0 U 10.0 10.0 100 64 - 130 21 ug/L Tetrachloroethene 1.0 U 10.0 8.61 ug/L 86 51 - 136 23 trans-1.2-Dichloroethene 1.0 U 10.0 10.2 102 68 - 133 24 ug/L 0 Trichloroethene 1.0 U 10.0 8.66 ug/L 87 55 - 131 3 23 Vinyl chloride 1.0 U 10.0 13.6 ug/L 136 43 - 154 29

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 126 | X | 70 - 121 |
| 4-Bromofluorobenzene (Surr) | 110 | | 59 - 120 |
| Toluene-d8 (Surr) | 104 | | 70 - 123 |
| Dibromofluoromethane (Surr) | 92 | | 75 - 128 |

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

Lab Sample ID: MB 240-362602/5

Matrix: Water

Analysis Batch: 362602

MR MR

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 1,4-Dioxane 0.86 ug/L 01/02/19 11:25 2.0 Ū

MB MB

Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 63 - 125 01/02/19 11:25

Lab Sample ID: LCS 240-362602/4

Matrix: Water

Analysis Batch: 362602

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1.4-Dioxane 10.0 10.7 ug/L 107 59 ₋ 131

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 63 - 125

QC Sample Results

Client: ARCADIS U.S., Inc.

Surrogate

Project/Site: Ford LTP Livonia MI - E203631

Lab Sample ID: 240-106318-I-2 MS

TestAmerica Job ID: 240-106317-2

Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA **Analysis Batch: 362602**

Sample Sample Spike MS MS %Rec. Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 2.0 U F2 12.2 ug/L 122 52 - 129

> MS MS %Recovery Qualifier Limits

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

63 - 125 1,2-Dichloroethane-d4 (Surr) 104

Lab Sample ID: 240-106318-I-2 MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Water Prep Type: Total/NA

Analysis Batch: 362602 MSD MSD RPD Sample Sample Spike %Rec.

Result Qualifier Added Result Qualifier Limits RPD Analyte Unit D %Rec Limit 1,4-Dioxane 2.0 U F2 10.0 10.7 F2 107 52 - 129 14 ug/L

MSD MSD %Recovery Qualifier Surrogate Limits

1,2-Dichloroethane-d4 (Surr) 102 63 - 125

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

GC/MS VOA

Analysis Batch: 362467

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-106317-3 | MW-94S-122118 | Total/NA | Water | 8260B | |
| 240-106317-6 | DUP-02 | Total/NA | Water | 8260B | |
| MB 240-362467/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-362467/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| 240-106318-E-2 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 240-106318-F-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |

Analysis Batch: 362602

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-106317-3 | MW-94S-122118 | Total/NA | Water | 8260B SIM | |
| 240-106317-6 | DUP-02 | Total/NA | Water | 8260B SIM | |
| MB 240-362602/5 | Method Blank | Total/NA | Water | 8260B SIM | |
| LCS 240-362602/4 | Lab Control Sample | Total/NA | Water | 8260B SIM | |
| 240-106318-I-2 MS | Matrix Spike | Total/NA | Water | 8260B SIM | |
| 240-106318-I-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B SIM | |

TestAmerica Job ID: 240-106317-2

Lab Chronicle

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-106317-2

Client Sample ID: MW-94S-122118 Lab Sample ID: 240-106317-3

Date Collected: 12/21/18 13:00 Date Received: 12/27/18 08:30 Matrix: Water

Batch Batch Dilution Batch Prepared **Prep Type** Method Run **Factor** Number or Analyzed Type Analyst Lab TAL CAN Total/NA Analysis 8260B 362467 12/31/18 17:46 LRW Total/NA 8260B SIM 362602 01/02/19 15:42 SAM TAL CAN Analysis 1

Client Sample ID: DUP-02 Lab Sample ID: 240-106317-6

Date Collected: 12/21/18 00:00 Matrix: Water

Date Received: 12/27/18 08:30

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260B | | 1 | 362467 | 12/31/18 18:58 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 362602 | 01/02/19 16:59 | SAM | TAL CAN |

Laboratory References:

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

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. TestAmerica Job ID: 240-106317-2

Project/Site: Ford LTP Livonia MI - E203631

Laboratory: TestAmerica Canton

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

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------------------|---------------|------------|-----------------------|------------------------|
| California | State Program | 9 | 2927 | 02-23-19 * |
| Connecticut | State Program | 1 | PH-0590 | 12-31-19 |
| Florida | NELAP | 4 | E87225 | 06-30-19 |
| Illinois | NELAP | 5 | 200004 | 07-31-19 |
| Kansas | NELAP | 7 | E-10336 | 04-30-19 |
| Kentucky (UST) | State Program | 4 | 58 | 02-23-19 * |
| Kentucky (WW) | State Program | 4 | 98016 | 12-31-19 |
| Minnesota | NELAP | 5 | 039-999-348 | 12-31-19 * |
| Minnesota (Petrofund) | State Program | 1 | 3506 | 07-31-19 |
| Nevada | State Program | 9 | OH00048 | 07-31-19 |
| New Jersey | NELAP | 2 | OH001 | 06-30-19 |
| New York | NELAP | 2 | 10975 | 03-31-19 * |
| Ohio VAP | State Program | 5 | CL0024 | 09-06-19 |
| Oregon | NELAP | 10 | 4062 | 02-23-19 * |
| Pennsylvania | NELAP | 3 | 68-00340 | 08-31-19 * |
| Texas | NELAP | 6 | T104704517-18-10 | 08-31-19 |
| USDA | Federal | | P330-16-00404 | 12-28-19 |
| Virginia | NELAP | 3 | 460175 | 09-14-19 |
| Washington | State Program | 10 | C971 | 01-12-20 * |
| West Virginia DEP | State Program | 3 | 210 | 12-31-19 |

TestAmerica Canton

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

N - None
O - AsNaO2
P - Na2O4S
O - Na2SO3
R - Na2SO3
S - H2SO4
T - TSP Dodecahydrate **TestAmerica** Company Rudis U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Special Instructions/Note: Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) COC No: 240-56713-24439.3 Preservation Codes A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - MarSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid 1730 85.2 0.88 Page 3 of 13 I - Ice J - DI Water K - EDTA L - EDA Archive For Date/Time: 17 Total Number of containers 0 0 lethod of Shipment Disposal By Lab Analysis Requested C and Other Remarks. > 10/24C Special Instructions/QC Requirements CHIGANShain of Custody Record 3.2 (C3.2 E-Mail: michael.delmonico@testamericainc.com COLC Return To Client Gooler Temperature(s) eceived by: Received by 8560B_SIM - Local Method Lab PM: DelMonico, Michael <u>5</u> 2 3 Company Company / BT=Tissue, A:: Air Preservation Code: Matrix Water W=water, 5=s Water 8785 (C=comp, G=grab) Radiological Sample Type 85 A Stalord 1730 1309 408-860 Sample 300 3 Jan 205 1300 9151 Time 131 Wo#: Cadena #: E203631 Unknown TAT Requested (days): Due Date Requested: 96-61 1-16-61 PO#: MI001454.0003 31-18-C1 5-16-1 3-71-18 Sample Date 81-18-61 コウナ Project #: 24015353 SSOW# Poison B Skin Irritant Deliverable Requested: I, II, III, (V) Other (specify) Phone (330) 497-9396 Fax (330) 497-0772 Custody Seal No. 133119 91160-245-WM 811881 - SOB-MM angela.degrandis@arcadis-us.com Flammable 15+ Possible Hazard Identification 3 Ford LTP Livonia MI - E203631 28550 Cabot Drive Suite 500 Empty Kit Relinquished by: North Canton, OH 44720 Custody Seals Intact: 4101 Shuffel Street NW MW-875-Client Information Sample Identification ulinquished by: SH6-MW Non-Hazard ARCADIS U.S., Inc Angela DeGrandis DOP-O Dal-O nquished by: quished by: State, Zip: MI, 48377 Nov

TestAmerica Canton

| 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 IR GUN# IR-8 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity —Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Are these work share samples? If yes, Questions 12-16 have been checked at the originating laboratory. 12. Were all preserved sample(s) at the correct pH upon receipt? | Form Temp°C mp3, ≥_°C | | | |
|--|--|--|--|--|
| Cooler Received on 12-27-18 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier 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 Lee Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cooler IR GUN# IR-8 (CF -0.2°C) Observed Cooler Temp. °C Corrected Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Terms. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. See Multiple Cooler Temp. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. See Multiple Cooler Temp. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. See Multiple Cooler Temp. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. See Multiple Cooler Temp. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. See Multiple Coo | Form Temp °C mp3, _2 °C Tess No Tess No Tess No Tess No Tess that are not checked for pH by Receiving: VOAs Oil and Grease TOC TOC | | | |
| FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier 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 Lee Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cooler IR GUN# IR-8 (CF -0.2°C) Observed Cooler Temp. See Multiple Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Are these work share samples? 12. Were all preserved sample(s) at the correct pH upon receipt? | Form Temp °C mp3, _2 °C Tess No Tess No Tess No Tess No Tess that are not checked for pH by Receiving: VOAs Oil and Grease TOC TOC | | | |
| Receipt After-hours: Drop-off Date/Time 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 IR GUN# IR-8 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. 3. 2 °C Corrected Cooler Temp. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottle labels be reconciled with the COC? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Are these work share samples? 12. Were all preserved sample(s) at the correct pH upon receipt? | Form Temp°C mp, Z°C Test No Test No Test No Test No Test No Test that are not checked for pH by Receiving: VOAs Oil and Grease TOC | | | |
| 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 IR GUN# IR-8 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN#36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Are these work share samples? 12. Were all preserved sample(s) at the correct pH upon receipt? | Form Temp°C mp°C mp | | | |
| Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Lee Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cooler IR GUN# IR-8 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #36 (CF +0°C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity — Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Are these work share samples? If yes, Questions 12-16 have been checked at the originating laboratory. 12. Were all preserved sample(s) at the correct pH upon receipt? | Form Temp°C mp3, \(\) °C mp3, \(\) | | | |
| 14. Were air bubbles >6 mm in any VOA vials? Larger than this. | Yes No NA Yes No | | | |
| Contacted PM Date by via Verbal Concerning | Yes (No) Voice Mail Other | | | |
| 17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES | Samples processed by: | | | |
| | L RC | | | |
| | ved in a broken container. | | | |
| Sample(s) were received with bubble >6 mi | in in diameter. (Notify PNI) | | | |
| 19. SAMPLE PRESERVATION | | | | |
| | further preserved in the laboratory. | | | |
| Sample(s) were Time preserved:Preservative(s) added/Lot number(s): | | | | |

CADENA INC.

January 18, 2019

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: MI001454.0002/3/4.00002/2B/3B

Client project scope reference: Sample COC only was used to define project analytical requirements.

Laboratory: TestAmerica - North Canton

Laboratory submittal: 106317-2 Sample date: 2018-12-21

Report received by CADENA: 2019-01-17

Initial Data Verification completed by CADENA: 2019-01-18

The following minor QC exceptions or missing information were noted:

SUR - GCMS VOC surrogate recoveries were outside of laboratory control limits biased HIGH for at least 1 surrogate. These client sample results that were detected for the analytical fraction specified should be considered to be estimated and qualified with J flags (non-detect results do not require qualification): GCMS VOC samples -003, -006.

MS/MSD recovery outliers or sample duplicate RPD outliers were not determined using a client sample from this submittal for the test and QC batch noted so qualification was not required based on these sample-specific QC outliers:

GCMS VOC QC batch.

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.

2 Water sample(s) were analyzed for GCMS VOC parameter(s).

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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Laboratory Submittal: 106317-2

| | | Sample Name: | MW-94S-122118 2401063173 | | | | DUP-02 2401063176 | | | | |
|---------------|--------------------------|----------------|-----------------------------|-------|-------|------------|----------------------|--------|-------|-----------|--|
| | | Lab Sample ID: | | | | | | | | | |
| | | Sample Date: | 12/21/2018 | | | 12/21/2018 | | | | | |
| | | | Report | | | Valid | | Report | | Valid | |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | |
| GC/MS VOC | | | | | | | | | | | |
| <u>OSW-82</u> | <u>:60B</u> | | | | | | | | | | |
| | 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | |
| | cis-1,2-Dichloroethene | 156-59-2 | 0.16 | 1.0 | ug/l | J | 0.18 | 1.0 | ug/l | J | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | |
| OSW-82 | <u> 60BBSim</u> | | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | | |
| | | | | | | | | | | | |