April 16, 2019

**Vista Work Order No. 1900545**

Ms. Maya Murshak
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Murshak,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on March 27, 2019 under your Project Name 'MDEQ State Municipal Sampling'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

for

Martha Maier
Laboratory Director

*Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.*

**Vista Work Order No. 1900545**
**Case Narrative**

**Sample Condition on Receipt:**

One drinking water sample was received in good condition and within the method temperature requirements. The sample was received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

**Analytical Notes:**

**EPA Method 537, Rev. 1.1**

The sample was extracted and analyzed for a selected list of 14 PFAS using EPA Method 537, Rev. 1.1. The results have been reported following the conventions specified by the Michigan Department of Environmental Quality.

Holding Times

The sample was extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Laboratory Fortified Blank (LFB) and a Laboratory Reagent Blank (LRB) were extracted and analyzed with the preparation batch. No analytes were detected in the Laboratory Reagent Blank. The LFB recoveries were within the method acceptance criteria.

The surrogate recoveries for all QC and field samples were within the acceptance criteria.

TABLE OF CONTENTS

# Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/Containers |
|---|---|---|---|---|
| 1900545-01 | GWEF1903251430KER | 25-Mar-19 14:30 | 27-Mar-19 09:12 | HDPE Bottle, 250 mL |
| | | | | HDPE Bottle, 250 mL |

## ANALYTICAL RESULTS

## Sample ID: LRB

**EPA Method 537**

**Client Data**

Name: Merit Laboratories, Inc.
Project: MDEQ State Municipal Sampling
Matrix: Aqueous

**Laboratory Data**

Lab Sample: B9D0010-BLK1
Column: BEH C18

| Analyte | CAS Number | Conc. (ng/L) | RL | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|---|---|---|---|---|---|---|---|---|---|
| PFBS | 375-73-5 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFHxA | 307-24-4 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFHpA | 375-85-9 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFHxS | 355-46-4 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFOA | 335-67-1 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFNA | 375-95-1 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFOS | 1763-23-1 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFDA | 335-76-2 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| MeFOSAA | 2355-31-9 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| EtFOSAA | 2991-50-6 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFUnA | 2058-94-8 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFDoA | 307-55-1 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFTrDA | 72629-94-8 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| PFTeDA | 376-06-7 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|---|---|---|---|---|---|---|---|---|---|
| 13C2-PFHxA | SURR | 105 | 70 - 130 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| 13C2-PFDA | SURR | 107 | 70 - 130 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |
| d5-EtFOSAA | SURR | 105 | 70 - 130 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 19:00 | 1 |

RL - Reporting limit

Results reported to RL.
Reporting convention specified by MI DEQ.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

## Sample ID: LFB

**EPA Method 537**

**Client Data**

Name: Merit Laboratories, Inc.
Project: MDEQ State Municipal Sampling
Matrix: Aqueous

**Laboratory Data**

Lab Sample: B9D0010-BS1
Column: BEH C18

| Analyte | CAS Number | Amt Found (ng/L) | Spike Amt | % Rec | Limits | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PFBS | 375-73-5 | 15 | 18 | 83 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFHxA | 307-24-4 | 16 | 20 | 80 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFHpA | 375-85-9 | 17 | 20 | 84 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFHxS | 355-46-4 | 17 | 18 | 92 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFOA | 335-67-1 | 19 | 20 | 96 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFNA | 375-95-1 | 23 | 20 | 117 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFOS | 1763-23-1 | 20 | 19 | 109 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFDA | 335-76-2 | 25 | 20 | 126 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| MeFOSAA | 2355-31-9 | 21 | 20 | 103 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| EtFOSAA | 2991-50-6 | 19 | 20 | 97 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFUnA | 2058-94-8 | 23 | 20 | 115 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFDoA | 307-55-1 | 18 | 20 | 91 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFTrDA | 72629-94-8 | 16 | 20 | 79 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| PFTeDA | 376-06-7 | 13 | 20 | 66 | 50 - 150 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |

| Labeled Standards | Type | % Rec | Limits | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|---|---|---|---|---|---|---|---|---|---|
| 13C2-PFHxA | SURR | 79 | 70- 130 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| 13C2-PFDA | SURR | 129 | 70- 130 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |
| d5-EtFOSAA | SURR | 98 | 70- 130 | | B9D0010 | 02-Apr-19 | 0.25 L | 04-Apr-19 18:10 | 1 |

Data Reported per Michigan DEQ instructions.

## Sample ID: GWEF1903251430KER

**EPA Method 537**

**Client Data**

Name: Merit Laboratories, Inc.
Project: MDEQ State Municipal Sampling
Location: OTSEGO05060TP003
Matrix: Drinking Water
Date Collected: 25-Mar-19 14:30

**Laboratory Data**

Lab Sample: 1900545-01
Date Received: 27-Mar-19 09:12
Column: BEH C18

| Analyte | CAS Number | Conc. (ng/L) | RL | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|---|---|---|---|---|---|---|---|---|---|
| PFBS | 375-73-5 | 14 | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFHxA | 307-24-4 | 4 | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFHpA | 375-85-9 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFHxS | 355-46-4 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFOA | 335-67-1 | 3 | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFNA | 375-95-1 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFOS | 1763-23-1 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFDA | 335-76-2 | ND | 2 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| MeFOSAA | 2355-31-9 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| EtFOSAA | 2991-50-6 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFUnA | 2058-94-8 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFDoA | 307-55-1 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFTrDA | 72629-94-8 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| PFTeDA | 376-06-7 | ND | 4 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Batch | Extracted | Samp Size | Analyzed | Dilution |
|---|---|---|---|---|---|---|---|---|---|
| 13C2-PFHxA | SURR | 99 | 70 - 130 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| 13C2-PFDA | SURR | 96 | 70 - 130 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |
| d5-EtFOSAA | SURR | 95 | 70 - 130 | | B9D0010 | 02-Apr-19 | 0.24 L | 04-Apr-19 20:14 | 1 |

RL - Reporting limit

Results reported to RL.
Reporting convention specified by MI DEQ..

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

# DATA QUALIFIERS & ABBREVIATIONS

| | |
|---|---|
| B | This compound was also detected in the method blank |
| Conc. | Concentration |
| D | Dilution |
| DL | Detection limit |
| E | The associated compound concentration exceeded the calibration range of the instrument |
| H | Recovery and/or RPD was outside laboratory acceptance limits |
| I | Chemical Interference |
| J | The amount detected is below the Reporting Limit/LOQ |
| LOD | Limits of Detection |
| LOQ | Limits of Quantitation |
| M | Estimated Maximum Possible Concentration (CA Region 2 projects only) |
| NA | Not applicable |
| ND | Not Detected |
| P | The reported concentration may include contribution from chlorinated diphenyl ether(s). |
| Q | The ion transition ratio is outside of the acceptance criteria. |
| TEQ | Toxic Equivalency |
| U | Not Detected (specific projects only) |
| * | See Cover Letter |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

## Vista Analytical Laboratory Certifications

| Accrediting Authority | Certificate Number |
|---|---|
| Alaska Department of Environmental Conservation | 17-013 |
| Arkansas Department of Environmental Quality | 19-013-0 |
| California Department of Health – ELAP | 2892 |
| DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005 | 3091.01 |
| Florida Department of Health | E87777 |
| Hawaii Department of Health | N/A |
| Louisiana Department of Environmental Quality | 01977 |
| Maine Department of Health | 2018017 |
| Michigan Department of Environmental Quality | 9932 |
| Minnesota Department of Health | 1521520 |
| New Hampshire Environmental Accreditation Program | 207718 |
| New Jersey Department of Environmental Protection | CA003 |
| New York Department of Health | 11411 |
| Oregon Laboratory Accreditation Program | 4042-010 |
| Pennsylvania Department of Environmental Protection | 015 |
| Texas Commission on Environmental Quality | T104704189-19-10 |
| Virginia Department of General Services | 9618 |
| Washington Department of Ecology | C584-19 |
| Wisconsin Department of Natural Resources | 998036160 |

*Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.*

## NELAP Accredited Test Methods

| MATRIX: Air | |
|---|---|
| **Description of Test** | **Method** |
| Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans | EPA 23 |
| Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans | EPA TO-9A |

| MATRIX: Biological Tissue | |
|---|---|
| **Description of Test** | **Method** |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Drinking Water | |
|---|---|
| **Description of Test** | **Method** |
| 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS | EPA 1613/1613B |
| 1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS | EPA 522 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | ISO 25101 2009 |

| MATRIX: Non-Potable Water | |
|---|---|
| **Description of Test** | **Method** |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Dioxin by GC/HRMS | EPA 613 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Solids | |
|---|---|
| **Description of Test** | **Method** |
| Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613 |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

Vista Analytical Laboratory

# CHAIN OF CUSTODY

*For Laboratory Use Only*
Work Order #: 1900545 Temp: 2.7 °C
Storage ID: WR-2 Storage Secured: Yes ☑ No ☐

Project ID: MDEQ STATE MUNICIPAL SAMPLING PO#: 60570309 Sampler: KELLY RICHART (name)

TAT (check one): Standard: x 21 days; Rush (surcharge may apply): ☐ 14 days ☐ 7 days Specify:

| Invoice to: Name | Company | Address | City | State | Ph# | Fax# |
|---|---|---|---|---|---|---|
| MIKE JURY | MDEQ | 401 KETCHUM ST, SUITE B | BAY CITY | MI | 989-894-6255 | 989-891-9237 |

| Relinquished by (printed name and signature) | Date | Time | Received by (printed name and signature) | Date | Time |
|---|---|---|---|---|---|
| Kelly Richart | 3-26-19 | 1700 | Ashween. Brakash | 03/27/19 | 0912 |
| Relinquished by (printed name and signature) | Date | Time | Received by (printed name and signature) | Date | Time |

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
Ph: (916) 673-1520; Fax: (916) 673-0106

ATTN: Jennifer Miller

Method of Shipment:

Tracking No.:

Add Analysis(es) Requested

| Sample ID | Date | Time | Location/Sample Description | Container(s) Quantity | Type | Matrix | PFAS Isotope Dilution List of 21 | List of 21 w/Isomers | List of 24 | List of 24 w/Isomers | List of 28 | Other: Please List Below | USEPA Method 537 PFOA/PFOS | UCMR3 PFAS List:6 | PFAS List: 14 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWEF1903251430KER | 3/25/19 | 1430 | OTSEGO05060TP003 | 2 | P | DW | | | | | | | | | X | TZ |
| | | | | | | | | | | | | | | | | |
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Special Instructions/Comments: Send Results and Acknowledgements to the list provided by e-mail to Vista.

SEND DOCUMENTATION AND RESULTS TO:
Name: MIKE JURY
Company: MDEQ
Address: 401 KETCHUM ST, SUITE B
City: BAY CITY State: MI Zip: 48708
Phone: 989-894-6255 Fax: 989-891-9237
Email: dorin.bogdan@aecom.com

**Container Types:** P= HDPE, PJ= HDPE Jar, O = Other:

**Bottle Preservation Type:** T = Thiosulfate, TZ = Trizma:

**Matrix Types:** AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other:

Vista Analytical Laboratory

# Sample Log-In Checklist

Vista Work Order #: 1900545 Page # 1 of 1

TAT Std

| | | | |
|---|---|---|---|
| **Samples Arrival:** | **Date/Time** 03/27/19 0912 | **Initials:** | **Location:** WR-2 **Shelf/Rack:** N/A |
| **Logged In:** | **Date/Time** 03/28/19 1335 | **Initials:** KE | **Location:** WR-2 **Shelf/Rack:** A3/E5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Delivered By:** | FedEx | UPS | On Trac | GSO | DHL | Hand Delivered | Other |
| **Preservation:** | Ice | | Blue Ice | | Dry Ice | | None |

| | | |
|---|---|---|
| **Temp °C:** 2.8 (uncorrected) | **Probe used:** Y / (N) | **Thermometer ID:** IR-4 |
| **Temp °C:** 2.7 (corrected) | | |

| | YES | NO | NA |
|---|---|---|---|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | | ✓ | ✓ |
| Shipping Documentation Present? | ✓ | | |
| Airbill — Trk # 4894 8695 8011 | ✓ | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | ✓ |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | | | ✓ | | |
| Preservation Documented: | $Na_2S_2O_3$ | Trizma | None | Other | Yes | No | NA |
| Shipping Container | Vista | Client | Retain | Return | Dispose | | |

*Comments:*