eurofins | Eaton Analytical

# LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call the City of Fountain Water Department at (719) 322-2072

# STATE CERTIFICATION LIST

| State | Certification | State | Certification |
|---|---|---|---|
| Alabama | 40700 | Missouri | 880 |
| Alaska | IN00035 | Montana | CERT0026 |
| Arizona | AZ0432 | Nebraska | NE-OS-05-04 |
| Arkansas | IN00035 | Nevada | IN00035 |
| California | 2920 | New Hampshire* | 2124 |
| Colorado | IN00035 | New Jersey* | IN598 |
| Colorado Radiochemistry | IN00035 | New Mexico | IN00035 |
| Connecticut | PH-0132 | New York* | 11398 |
| Delaware | IN035 | North Carolina | 18700 |
| Florida(Primary AB)* | E87775 | North Dakota | R-035 |
| Georgia | 929 | Ohio | 87775 |
| Hawaii | IN035 | Oklahoma | D9508 |
| Idaho | IN00035 | Oregon* | 4156 |
| Illinois* | 200001 | Pennsylvania* | 68-00466 |
| Illinois Microbiology | 17767 | Puerto Rico | IN00035 |
| Illinois Radiochemistry | IN00035 | Rhode Island | LAO00343 |
| Indiana Chemistry | C-71-01 | South Carolina | 95005 |
| Indiana Microbiology | M-76-07 | South Dakota | IN00035 |
| Iowa | 098 | Tennessee | TN02973 |
| Kansas* | E-10233 | Texas* | T104704187 |
| Kentucky | 90056 | Texas/TCEQ | TX207 |
| Louisiana* | LA014 | Utah* | IN00035 |
| Maine | IN00035 | Vermont | VT-8775 |
| Maryland | 209 | Virginia* | 460275 |
| Massachusetts | M-IN035 | Washington | C837 |
| Michigan | 9926 | West Virginia | 9927 C |
| Minnesota* | 018-999-338 | Wisconsin | 999766900 |
| Mississippi | IN035 | Wyoming | IN035 |
| EPA | IN00035 | | |

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 09/29/2020

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# Laboratory Report

Client: City of Fountain

Attn: Jasson Palmer
116 South Main
Fountain, CO 80817

Report: 518074
Priority: Standard Written
Status: Final
PWS ID: CO0121275

**Sample Information**

| EEA ID # | Client ID | Method | Collected Date / Time | Collected By: | Received Date / Time |
|---|---|---|---|---|---|
| 4902311 | Aga N2 | 537.1 | 05/13/21 13:15 | Client | 05/14/21 08:30 |
| 4902312 | Aga N3 | 537.1 | 05/13/21 13:17 | Client | 05/14/21 08:30 |
| 4902313 | Aga N4 | 537.1 | 05/13/21 13:20 | Client | 05/14/21 08:30 |
| 4902314 | Aga S4 | 537.1 | 05/13/21 13:22 | Client | 05/14/21 08:30 |
| 4902315 | Aga Raw | 537.1 | 05/13/21 13:25 | Client | 05/14/21 08:30 |

**Report Summary**

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

*Note: This report may not be reproduced, except in full, without written approval from EEA.*

Ann Shea Grevin ASM — 05/26/2021

Authorized Signature — Title — Date

Client Name: City of Fountain
Report #: 518074

Client Name: City of Fountain Report #: 518074

Sampling Point: Aga N2 PWS ID: CO0121275

| EEA Methods | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID # |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:31 | 4902311 |
| 1763-23-1 | Perfluorooctanesulfonic acid (PFOS) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:31 | 4902311 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537.1 | --- | 2.0 | **9.5** | ng/L | 05/25/21 06:15 | 05/25/21 22:31 | 4902311 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:31 | 4902311 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537.1 | --- | 2.0 | **2.1** | ng/L | 05/25/21 06:15 | 05/25/21 22:31 | 4902311 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:31 | 4902311 |

Sampling Point: Aga N3 PWS ID: CO0121275

| EEA Methods | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID # |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:44 | 4902312 |
| 1763-23-1 | Perfluorooctanesulfonic acid (PFOS) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:44 | 4902312 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537.1 | --- | 2.0 | **8.1** | ng/L | 05/25/21 06:15 | 05/25/21 22:44 | 4902312 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:44 | 4902312 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:44 | 4902312 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:44 | 4902312 |

Sampling Point: Aga N4 PWS ID: CO0121275

| EEA Methods | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID # |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:58 | 4902313 |
| 1763-23-1 | Perfluorooctanesulfonic acid (PFOS) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:58 | 4902313 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537.1 | --- | 2.0 | **5.7** | ng/L | 05/25/21 06:15 | 05/25/21 22:58 | 4902313 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:58 | 4902313 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:58 | 4902313 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 22:58 | 4902313 |

Client Name: City of Fountain Report #: 518074

Sampling Point: Aga S4 PWS ID: CO0121275

| EEA Methods | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID # |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537.1 | --- | 2.0 | **8.4** | ng/L | 05/25/21 06:15 | 05/25/21 23:11 | 4902314 |
| 1763-23-1 | Perfluorooctanesulfonic acid (PFOS) | 537.1 | --- | 2.0 | **5.1** | ng/L | 05/25/21 06:15 | 05/25/21 23:11 | 4902314 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537.1 | --- | 2.0 | **23** | ng/L | 05/25/21 06:15 | 05/25/21 23:11 | 4902314 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537.1 | --- | 2.0 | **4.5** | ng/L | 05/25/21 06:15 | 05/25/21 23:11 | 4902314 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537.1 | --- | 2.0 | **14** | ng/L | 05/25/21 06:15 | 05/25/21 23:11 | 4902314 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 23:11 | 4902314 |

Sampling Point: Aga Raw PWS ID: CO0121275

| EEA Methods | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID # |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537.1 | --- | 2.0 | **20** | ng/L | 05/25/21 06:15 | 05/25/21 23:24 | 4902315 |
| 1763-23-1 | Perfluorooctanesulfonic acid (PFOS) | 537.1 | --- | 2.0 | **26** | ng/L | 05/25/21 06:15 | 05/25/21 23:24 | 4902315 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537.1 | --- | 2.0 | **31** | ng/L | 05/25/21 06:15 | 05/25/21 23:24 | 4902315 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537.1 | --- | 2.0 | **7.6** | ng/L | 05/25/21 06:15 | 05/25/21 23:24 | 4902315 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537.1 | --- | 2.0 | **40** | ng/L | 05/25/21 06:15 | 05/25/21 23:24 | 4902315 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537.1 | --- | 2.0 | < 2.0 | ng/L | 05/25/21 06:15 | 05/25/21 23:24 | 4902315 |

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

| Reg Limit Type: | MCL | SMCL | AL |
|---|---|---|---|
| Symbol: | * | ^ | ! |

## Lab Definitions

**Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) -** is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS) -** are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD) -** is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

**Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) -** is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

**Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) -** is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

**Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) -** is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery %**

**Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) -** is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

**Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) -** is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

**Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) -** is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

**Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) -** is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS) / Surrogate Analyte (SUR) -** is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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[redacted]

Order # 423362

Batch # 518074

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# CHAIN OF CUSTODY RECORD

Page 1 of 1

Shaded area for EEA use only

| REPORT TO: | SAMPLER (Signature) | PWS ID # | STATE (sample origin) | PROJECT NAME | PO# |
|---|---|---|---|---|---|
| Justin Moore 719-322-2073 | | CO0121275 | CO | Aga PFC Weekly | |
| BILL TO: 116 S Main Street Fountain CO 80817 | COMPLIANCE MONITORING: Yes [ ] No [X] | POPULATION SERVED: 29,000 | SOURCE WATER: Aga Pods | Preservative Checks | |

| | LAB Number | COLLECTION DATE | COLLECTION TIME | AM | PM | SAMPLING SITE | TEST NAME | pH accep-table? √ | Residual Chlorine (P/A) | CHLORINATED YES | CHLORINATED NO | # OF CONTAINERS | MATRIX CODE | TURNAROUND TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4902311 | 5/13 | 1:15 | | X | Aga N2 | PFC | | | | X | 2 | DW | SW |
| 2 | 312 | 5/13 | 1:17 | | X | Aga N3 | PFC | | | | X | 2 | DW | SW |
| 3 | 313 | 5/13 | 1:20 | | X | Aga N4 | PFC | | | | X | 2 | DW | SW |
| 4 | 314 | 5/13 | 1:22 | | X | Aga S4 | PFC | | | | X | 2 | DW | SW |
| 5 | 315 | 5/13 | 1:25 | | X | Aga Raw | PFC | | | | X | 2 | DW | SW |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |

| RELINQUISHED BY:(Signature) | DATE | TIME | RECEIVED BY:(Signature) | DATE | TIME |
|---|---|---|---|---|---|
| | 5/13 | 1:30 AM PM | | | AM PM |
| RELINQUISHED BY:(Signature) | DATE | TIME | RECEIVED BY:(Signature) | DATE | TIME |
| | | AM PM | | | AM PM |
| RELINQUISHED BY:(Signature) | DATE | TIME | RECEIVED FOR LABORATORY BY: | DATE | TIME |
| | | AM PM | | 5/14/2021 | 0830 AM PM |

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue ____ Ambient ____ 3 °C Upon Receipt____ N/A

**MATRIX CODES:**

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

**TURN-AROUND TIME (TAT) - SURCHARGES**

**SW** = Standard Written: (15 working days) **0% RV*** = Rush Verbal: (5 working days)
**50% RW*** = Rush Written: (5 working days) 75%
* Please call, expedited service not available for all testing

**IV*** = Immediate Verbal: (3 working days) **IW*** 100%
=Immediate Written: (3 working days) **SP*** = 125%
Weekend, Holiday CALL
**STAT*** = Less than 48 hours CALL

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.