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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*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
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*	T104704187-18-12
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: 03/14/2019

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Laboratory Report

Client: City of Fountain

Attn: Jasson Palmer
116 South Main
Fountain, CO 80817

Report: 460423
Priority: Standard Written
Status: Final
PWS ID: CO0121275

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4372862	Well 3 W2	537	08/01/19 14:00	Client	08/02/19 09:30
4372863	Well 3 W3	537	08/01/19 14:02	Client	08/02/19 09:30
4372864	Well 3 E1	537	08/01/19 14:04	Client	08/02/19 09:30
4372865	Well 3 E4	537	08/01/19 14:06	Client	08/02/19 09:30
4372866	Well 3 Raw	537	08/01/19 14:10	Client	08/02/19 09:30
4372867	Aga N2	537	08/01/19 14:15	Client	08/02/19 09:30
4372868	Aga N3	537	08/01/19 14:17	Client	08/02/19 09:30
4372869	Aga S1	537	08/01/19 14:19	Client	08/02/19 09:30
4372870	Aga S4	537	08/01/19 14:22	Client	08/02/19 09:30
4372871	Aga Raw	537	08/01/19 14:25	Client	08/02/19 09:30

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.

Kelly Blackburn ASM

Authorized Signature | Title

08/16/2019
Date

Client Name: City of Fountain
Report #: 460423

Client Name: City of Fountain Report #: 460423

Sampling Point: Well 3 W2 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	**14**	ng/L	08/08/19 07:05	08/09/19 00:46	4372862
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	**4.0**	ng/L	08/08/19 07:05	08/09/19 00:46	4372862
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	**16**	ng/L	08/08/19 07:05	08/09/19 00:46	4372862
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 00:46	4372862
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	**12**	ng/L	08/08/19 07:05	08/09/19 00:46	4372862
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**9.4**	ng/L	08/08/19 07:05	08/09/19 00:46	4372862

Sampling Point: Well 3 W3 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	**4.6**	ng/L	08/08/19 07:05	08/09/19 01:03	4372863
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:03	4372863
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	**2.9**	ng/L	08/08/19 07:05	08/09/19 01:03	4372863
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:03	4372863
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:03	4372863
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**2.3**	ng/L	08/08/19 07:05	08/09/19 01:03	4372863

Sampling Point: Well 3 E1 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:37	4372864
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:37	4372864
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:37	4372864
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:37	4372864
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:37	4372864
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:37	4372864

Client Name: City of Fountain Report #: 460423

Sampling Point: Well 3 E4 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:54	4372865
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:54	4372865
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:54	4372865
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:54	4372865
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:54	4372865
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 01:54	4372865

Sampling Point: Well 3 Raw PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	**22**	ng/L	08/08/19 07:05	08/09/19 02:11	4372866
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	**6.8**	ng/L	08/08/19 07:05	08/09/19 02:11	4372866
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	**36**	ng/L	08/08/19 07:05	08/09/19 02:11	4372866
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 02:11	4372866
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	**32**	ng/L	08/08/19 07:05	08/09/19 02:11	4372866
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**18**	ng/L	08/08/19 07:05	08/09/19 02:11	4372866

Sampling Point: Aga N2 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	**17**	ng/L	08/08/19 07:05	08/09/19 02:28	4372867
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	**3.2**	ng/L	08/08/19 07:05	08/09/19 02:28	4372867
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	**8.3**	ng/L	08/08/19 07:05	08/09/19 02:28	4372867
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 02:28	4372867
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	**2.4**	ng/L	08/08/19 07:05	08/09/19 02:28	4372867
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.4**	ng/L	08/08/19 07:05	08/09/19 02:28	4372867

Client Name: City of Fountain Report #: 460423

Sampling Point: Aga N3 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	**9.6**	ng/L	08/08/19 07:05	08/09/19 02:45	4372868
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 02:45	4372868
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	**2.2**	ng/L	08/08/19 07:05	08/09/19 02:45	4372868
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 02:45	4372868
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 02:45	4372868
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 02:45	4372868

Sampling Point: Aga S1 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 03:02	4372869
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 03:02	4372869
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 03:02	4372869
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 03:02	4372869
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 03:02	4372869
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	08/08/19 07:05	08/09/19 03:02	4372869

Sampling Point: Aga S4 PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	08/09/19 07:48	08/10/19 18:56	4372870
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	08/09/19 07:48	08/10/19 18:56	4372870
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	08/09/19 07:48	08/10/19 18:56	4372870
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/09/19 07:48	08/10/19 18:56	4372870
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	08/09/19 07:48	08/10/19 18:56	4372870
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	08/09/19 07:48	08/10/19 18:56	4372870

Client Name: City of Fountain Report #: 460423

Sampling Point: Aga Raw PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	**29**	ng/L	08/09/19 07:48	08/10/19 19:09	4372871
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	**9.0**	ng/L	08/09/19 07:48	08/10/19 19:09	4372871
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	**41**	ng/L	08/09/19 07:48	08/10/19 19:09	4372871
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	08/09/19 07:48	08/10/19 19:09	4372871
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	**27**	ng/L	08/09/19 07:48	08/10/19 19:09	4372871
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**25**	ng/L	08/09/19 07:48	08/10/19 19:09	4372871

† 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.

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 # 3746752
Batch # 460423

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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		CO 0121275	CO	weekly PFC Samples	

BILL TO: City of Fountain 116 S. Main St Fountain CO 80817

COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER
		X	27000	Well 3 & Ags Pools

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	4372862	8-1-19	200		X	Well 3 W2	PFC Sample S3	Cl-A		X	2	DW	SU
2	863	8-1-19	202		X	Well 3 W3		Cl-A		X	2	DW	SU
3	864	8-1-19	204		X	Well 3 E1		Cl-A		X	2	DW	SU
4	865	8-1-19	206		X	Well 3 E4		Cl-A		X	2	DW	SU
5	866	8-1-19	210		X	Well 3 RAW		Cl-A		X	2	DW	SU
6	867	8-1-19	215		X	Ags N2		Cl-A		X	2	DW	SU
7	868	8-1-19	217		X	Ags N3		Cl-A	8-2-19	X	2	DW	SU
8	869	8-1-19	219		X	Ags S1		Cl-A		X	2	DW	SU
9	870	8-1-19	222		X	Ags S4		Cl-A		X	2	DW	SU
10	871	8-1-19	225		X	Ags RAW		Cl-A		X	2	DW	SU
11													
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	8-1-19	430 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		8-2-19	0930 AM PM

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

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): X Iced: Wet/Blue ___ Ambient 0.6 °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%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* =Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

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

06-LO-F0435 Issue 7.0 Effective Date: 2018-10-11

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.