

## 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

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## 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	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	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)*	4074-001
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*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA180008	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

## Laboratory Report

Client: City of Fountain  
Attn: Jasson Palmer  
116 South Main  
Fountain, CO 80817

Report: 442068  
Priority: Standard Written  
Status: Final  
PWS ID: CO0121275


Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4186183	S-1 Well 2	537	01/31/19 15:00	Client	02/01/19 09:45
4186184	S-2 Well 2	537	01/31/19 15:02	Client	02/01/19 09:45
4186185	S-3 Well 2	537	01/31/19 15:04	Client	02/01/19 09:45
4186186	N-4 Well 2	537	01/31/19 15:06	Client	02/01/19 09:45
4186187	Raw Well 2	537	01/31/19 15:08	Client	02/01/19 09:45
4186188	E-1 Well 3	537	01/31/19 15:15	Client	02/01/19 09:45
4186189	E-2 Well 3	537	01/31/19 15:17	Client	02/01/19 09:45
4186190	E-3 Well 3	537	01/31/19 15:19	Client	02/01/19 09:45
4186191	W-4 Well 3	537	01/31/19 15:21	Client	02/01/19 09:45
4186192	Raw Well 3	537	01/31/19 15:23	Client	02/01/19 09:45

### Report Summary

Note: In the Method 537 analysis, Perfluorooctanoic acid (PFOA) in the LFSML (-754%) and Perfluorohexanoic acid (PFHxA) in the LFSML (-431%) were outside the acceptance limits of 50-150%. This failed because the parent sample and the LFSML do not match. The bottles were checked, and the sites on the labels were the same, so it was not a mixup in the lab. This is likely a collection error.

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.*

 ASM  
Authorized Signature \_\_\_\_\_  
Client Name: City of Fountain  
Report #: 442068

Title

02/21/2019  
Date

Sampling Point: S-1 Well 2

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	<b>19</b>	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	<b>5.3</b>	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	<b>16</b>	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	<b>16</b>	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	<b>8.3</b>	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	<b>12</b>	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:22	4186183

Sampling Point: S-2 Well 2

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	<b>4.0</b>	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	<b>5.3</b>	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:39	4186184

Sampling Point: S-3 Well 2

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 04:56	4186185

Sampling Point: N-4 Well 2

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	11	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	17	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:13	4186186

Sampling Point: Raw Well 2

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	<b>32</b>	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	<b>9.9</b>	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	<b>45</b>	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	<b>23</b>	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	<b>35</b>	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	<b>28</b>	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/13/19 08:04	02/14/19 05:47	4186187

Sampling Point: E-1 Well 3

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	<b>12</b>	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	<b>3.2</b>	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	<b>9.6</b>	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	<b>10</b>	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	<b>5.2</b>	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	<b>6.7</b>	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 02:54	4186188

Sampling Point: E-2 Well 3

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:11	4186189

Sampling Point: E-3 Well 3

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 03:28	4186190

Sampling Point: W-4 Well 3

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 10:56	4186191

Sampling Point: Raw Well 3

PWS ID: CO0121275

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	<b>29</b>	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	<b>8.1</b>	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	<b>45</b>	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	<b>18</b>	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
307-55-1	Perfluorododecanoic acid (PFDoA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	<b>2.1</b>	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537	---	2.0	<b>45</b>	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	<b>22</b>	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 04:02	4186192
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	02/14/19 08:12	02/15/19 04:02	4186192

† 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.



Eaton Analytical

Order # 361378  
Batch # 442068

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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#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
BILL TO:					COMPLIANCE MONITORING		Yes	No	POPULATION SERVED	SOURCE WATER					
LAB Number	COLLECTION				SAMPLING SITE		TEST NAME		SAMPLE REMARKS	CHLORINATED					
	DATE	TIME	AM	PM							YES	NO			
1	4186, 183	1-31-19	3:00	X	S-1	well 2	PFC					X	2	DV	SW
2	184	1-31-19	3:02	X	S-2	well 2	PFC					X	2	DV	SW
3	185	1-31-19	3:04	X	S-3	well 2	PFC					X	2	DV	SW
4	186	1-31-19	3:06	X	N-4	well 2	PFC					X	2	DV	SW
5	187	1-31-19	3:08	X	RAW	well 2	PFC					X	2	DV	SW
6	188	1-31-19	3:15	X	E-1	well 3	PFC					X	2	DV	SW
7	189	1-31-19	3:17	X	E-2	well 3	PFC					X	2	DV	SW
8	190	1-31-19	3:19	X	E-3	well 3	PFC					X	2	DV	SW
9	191	1-31-19	3:21	X	W-4	well 3	PFC					X	2	DV	SW
10	192	1-31-19	3:23	X	RAW	well 3	PFC					X	2	DV	SW
11															
12															
13															
14															

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
		AM   PM			AM   PM	
<i>Jack Butts</i>	1-31-19	3:25				
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	CONDITIONS UPON RECEIPT (check one):
		AM   PM			AM   PM	
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	
		AM   PM	<i>S. Hagan</i>	2-1-19	0945	<input checked="" type="checkbox"/> Iced, Wet/Blue <input type="checkbox"/> Ambient <u>0.6</u> °C Upon Receipt <input type="checkbox"/> N/A

MATRIX CODES:	TURN-AROUND TIME (TAT) - SURCHARGES	
DW-DRINKING WATER	SW = Standard Written: (15 working days)	0%
RW-REAGENT WATER	RV* = Rush Verbal: (5 working days)	50%
GW-GROUND WATER	RW* = Rush Written: (5 working days)	75%
EW-EXPOSURE WATER		
SW-SURFACE WATER		
PW-POOL WATER		
WW-WASTE WATER		
	IV* = Immediate Verbal: (3 working days)	100%
	IW* = Immediate Written: (3 working days)	125%
	SP* = Weekend, Holiday	CALL
	STAT* = Less than 48 hours	CALL

\* Please call, expedited service not available for all testing

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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.

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