

Table 2 - Summer 2022 Private Well Analytical Results

Sample Name			129089	167649-SW	167738	168173	168688	521779	569356	669077	87301	
Description												
Analyte	DEC Action Level	Units	8/26/22	10/19/22	8/26/22	8/23/22	8/25/22	8/23/22	8/26/22	8/23/22	8/23/22	
Perfluorooctanesulfonic acid (PFOS)	70	ng/L	37	37	40	47	19	1.7 J	11	20	21	24
Perfluorooctanoic acid (PFOA)	70	ng/L	17	18	7.3	12	3.0	1.5 J	4.4	2.9	4.3	5.3
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10	ng/L	<3.4	<3.6	<3.8	<3.3	<3.5	<3.5	<3.6	<3.6	<3.5	<3.5
Perfluorobutanesulfonic acid (PFBS)	2,000	ng/L	17	17	3.2	16	1.5 J	1.4 J*	2.4	2.3	1.6 J	4.2
Perfluorodecanoic acid (PFDA)	N/A	ng/L	<1.7	<1.8	0.78 J	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
Perfluorododecanoic acid (PFDoA)	N/A	ng/L	<1.7	<1.8	<1.9	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
Perfluoroheptanoic acid (PFHpA)	N/A	ng/L	5.2	5.2	4.3	8.1	1.8	2.0	3.3	1.9	2.7	4.5
Perfluorohexanesulfonic acid (PFHxS)	N/A	ng/L	41	42	13	62	6.9	1.7 J	9.1	9.0	8.1	16
Perfluorohexanoic acid (PFHxA)	N/A	ng/L	21	21	10	25	4.5	3.9	9.3	5.2	7.6	15
Perfluorononanoic acid (PFNA)	N/A	ng/L	<1.7	<1.8	2.0	1.4 J	0.57 J	<1.8	0.73 J	0.42 J	<1.7	0.25 J
Perfluorotetradecanoic acid (PFTeA)	N/A	ng/L	<1.7	<1.8	<1.9	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
Perfluorotridecanoic acid (PFTTrDA)	N/A	ng/L	<1.7	<1.8	<1.9	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
Perfluoroundecanoic acid (PFUnA)	N/A	ng/L	<1.7	<1.8	<1.9	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	N/A	ng/L	<1.7	<1.8	<1.9	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	N/A	ng/L	<1.7	<1.8	<1.9	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	N/A	ng/L	<1.7	<1.8	<1.9	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7	<1.8
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	N/A	ng/L	<4.3	<4.5	<4.7	<4.1	<4.3	<4.4	<4.5	<4.6	<4.4	<4.4
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	N/A	ng/L	<4.3	<4.5	<4.7	<4.1	<4.3	<4.4	<4.5	<4.6	<4.4	<4.4
LHA (PFOS + PFOA)	70†	ng/L	54	55	47	59	22	3.2 J	15	23	25	29

Table 2 - Summer 2022 Private Well Analytical Results

Sample Name			87301-SW	87319	87335	87351	87360	87408	87416	95630	
Description											
Analyte	DEC Action Level	Units	8/29/22	8/29/22	9/2/22	8/26/22	8/26/22	8/23/22	8/23/2022	8/23/2022	
Perfluorooctanesulfonic acid (PFOS)	70	ng/L	14	17	23	20	7.6	28	25	31	32
Perfluorooctanoic acid (PFOA)	70	ng/L	5.1	5.9	5.9	5.7	2.7	6.7	6.1	7.9	7.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10	ng/L	<3.4	<3.6	<3.3	<3.5	<3.4	<3.5	<3.7	<3.2	<3.6
Perfluorobutanesulfonic acid (PFBS)	2,000	ng/L	4.3	4.5	5.9	4.7	1.8	6.6	6.1	6.0	5.5
Perfluorodecanoic acid (PFDA)	N/A	ng/L	<1.7	<1.8	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
Perfluorododecanoic acid (PFDoA)	N/A	ng/L	<1.7	<1.8	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
Perfluoroheptanoic acid (PFHpA)	N/A	ng/L	4.8	5.6	4.1	4.1	2.0	6.8	5.0	6.7	6.6
Perfluorohexanesulfonic acid (PFHxS)	N/A	ng/L	14	21	34	25	8.9	27	33	28	29
Perfluorohexanoic acid (PFHxA)	N/A	ng/L	12	17	18	15	6.7	21	21	17	18
Perfluorononanoic acid (PFNA)	N/A	ng/L	0.68 J	0.28 J	<1.7	0.36 J	<1.7	0.37 J	<1.8	1.0 J	1.0 J
Perfluorotetradecanoic acid (PFTeA)	N/A	ng/L	<1.7	<1.8 J*	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
Perfluorotridecanoic acid (PFTTrDA)	N/A	ng/L	<1.7	<1.8	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
Perfluoroundecanoic acid (PFUnA)	N/A	ng/L	<1.7	<1.8	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	N/A	ng/L	<1.7	<1.8	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	N/A	ng/L	<1.7	<1.8	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	N/A	ng/L	<1.7	<1.8	<1.7	<1.7	<1.7	<1.8	<1.8	<1.6	<1.8
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	N/A	ng/L	<4.3	<4.5	<4.2	<4.3	<4.2	<4.4	<4.6	<4.1	<4.5
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	N/A	ng/L	<4.3	<4.5	<4.2	<4.3	<4.2	<4.4	<4.6	<4.1	<4.5
LHA (PFOS + PFOA)	70†	ng/L	19	23	29	26	10	35	31	39	40

NOTES:

- † EPA Lifetime Health Advisory Level is 70 ng/L for PFOS and PFOA combined.
 - < Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.
 - J Estimated concentration, detected greater than the method detection limit (MDL) and less than the RL. Flag applied by the laboratory.
 - J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.
- DEC = Alaska Department of Environmental Conservation; EPA = U.S. Environmental Protection Agency; LHA = lifetime health advisory; ng/L = nanograms per liter; N/A = not applicable, action level not yet established

Table 4 - Winter 2023 Private Well Analytical Results

Sample Name			167738	87335	87351	87360	87416	95630	87301	
Description									Road	
Analyte	DEC Action Level	Units	2/17/23	2/17/23	3/2/23	2/16/23	2/16/2023	2/17/2023	3/3/2023	
Perfluorooctanesulfonic acid (PFOS)	70	ng/L	44	46	21	18	6.3	27	21	
Perfluorooctanoic acid (PFOA)	70	ng/L	9.6	11	5.3	4.9	2.7	6.4	5.7	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10	ng/L	<3.8	<3.8	<3.6	<3.5	<3.8	<3.9	<3.7	
Perfluorobutanesulfonic acid (PFBS)	2,000	ng/L	13	14	4.6	4.0	1.6 J	5.5	3.9	
Perfluorodecanoic acid (PFDA)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
Perfluorododecanoic acid (PFDoA)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
Perfluoroheptanoic acid (PFHpA)	N/A	ng/L	5.7	6.3	3.5	3.4	1.7 J	4.2	4.3	
Perfluorohexanesulfonic acid (PFHxS)	N/A	ng/L	62	64	31	24	9.5	41	19	
Perfluorohexanoic acid (PFHxA)	N/A	ng/L	22	22	17	13	6.3	22	14	
Perfluorononanoic acid (PFNA)	N/A	ng/L	1.8 J	1.9	<1.8	<1.8	<1.9	0.29 J	1.0 J	0.34 J
Perfluorotetradecanoic acid (PFTeA)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
Perfluorotridecanoic acid (PFTrDA)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
Perfluoroundecanoic acid (PFUnA)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	N/A	ng/L	<1.9	<1.9	<1.8	<1.8	<1.9	<2.0	<1.9	
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	N/A	ng/L	<4.7	<4.8	<4.6	<4.4	<4.7	<4.9	<4.7	
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	N/A	ng/L	<4.7	<4.8	<4.6	<4.4	<4.7	<4.9	<4.7	
LHA (PFOS + PFOA)	70 [†]	ng/L	54	57	26	23	9	33	27	

NOTES:

- † EPA Lifetime Health Advisory Level is 70 ng/L for PFOS and PFOA combined.
 - < Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.
 - J Estimated concentration, detected greater than the method detection limit (MDL) and less than the RL. Flag applied by the laboratory.
- DEC = Alaska Department of Environmental Conservation; EPA = U.S. Environmental Protection Agency; LHA = lifetime health advisory; N/A = not applicable, action level not yet established; ng/L = nanograms per liter

Table 6 - Comparison of Well Monitoring Network Historic Analytical Results

Sample Name	Sample Date	Sample Location	Perfluorooctane sulfonate (PFOS) ng/L	Perfluorooctanoic acid (PFOA) ng/L	LHA Combined (PFOS + PFOA)	Exceed LHA Level?†	Trends‡
129089	August, 2022	[REDACTED]	37	18	55	No	Increasing PFOS and LHA
	July, 2021		33 J*	24	57 J*		
	August, 2020		28	21	49		
	August, 2019		25	21	46		
	July, 2018		23	21	44		
	October, 2017		20	21	41		
	July, 2017		21	17	38		
	October, 2016		18	19	37		
167738	February, 2023	[REDACTED]	46	11	57	No	Increasing PFOS and LHA, Probably Increasing PFOA
	August, 2022		47	12	59		
	February, 2022		44	10	54		
	July, 2021		32 J*	13	45 J*		
	January, 2021		32	8.2	40		
	November, 2020		28	8.3	37		
	August, 2020		29	7.6	37		
	March, 2020		28	8.3	36		
168173	August, 2022	[REDACTED]	19	3.0	22	No	Stable PFOS and LHA
	July, 2021		19	2.6	22		
	February, 2021		22	2.1	24		
	August, 2020		20	2.2	22		
	February, 2020		24	2.5	27		
	July, 2019		20	2.7	23		
	January, 2019		26	2.8	29		
	July, 2018		23	2.7	26		
	October, 2017		21	2.6	24		
	July, 2017		22	2.1	24		
	April, 2017		24	2.7	27		
	January, 2017		20	2.5	23		
	October, 2016		17	2.3 J*	19 J*		
168980	February, 2022	[REDACTED]	12 N*	3.1 N*	15	No	Decreasing PFOS and LHA, Probably Increasing PFOA
	August, 2020		12	2.7	15		
	July, 2018		16	3.2	19		
	October, 2017		14	2.8	17		
	July, 2017		17	2.4	19		
	April, 2017		16	2.6	19		
	January, 2017		17	3.0	20		
	August, 2016		19	2.1	21		
515469	February, 2022	[REDACTED]	14	2.6	17	No	Stable PFOS, PFOA, and LHA
	August, 2020		14	2.7	17		
	July, 2019		13	2.3	15		
	January, 2019		18	2.7	21		
	October, 2018		18	2.9	21		
	July, 2018		17	2.7	20		
	April, 2018		15	2.7	18		
	January, 2018		14	2.5	17		
September, 2016	18	2.7	21				
515507	February, 2022	[REDACTED]	16 N*	2.8 N*	19	No	Probably Decreasing PFOS and LHA, Stable PFOA
	February, 2021		16	2.8	19		
	August, 2018		17	2.9	20		
	April, 2018		16	2.8	19		
	January, 2018		16	2.8	19		
	October, 2017		16	2.8	19		
	July, 2017		21	2.2	23		
515515	August, 2016	[REDACTED]	22	3.1	25	No	Stable PFOS and PFOA, Probably Decreasing LHA
	February, 2022		15	2.8	18		
	August, 2020		13	2.9	16		
	July, 2018		16	2.6	19		
	April, 2018		16	2.9	19		
	January, 2018		14	2.7 J*	17 J*		
	October, 2017		15	2.8	18		
521779	July, 2017	[REDACTED]	18	2.2	20	No	Increasing PFOA, Probably Increasing LHA
	August, 2016		25	3.5	29		
	February, 2022		15	2.8	18		
	August, 2020		13	2.9	16		
	July, 2018		16	2.6	19		
	April, 2018		16	2.9	19		
	January, 2018		14	2.7 J*	17 J*		
	October, 2017		15	2.8	18		
	July, 2017		18	2.2	20		
	August, 2016		25	3.5	29		
	February, 2022		11 N*	3.6 N*	15		
569356	July, 2021	[REDACTED]	11 J*	4.0	15 J*	No	Probably Increasing PFOS and LHA, Probably Decreasing PFOA
	January, 2021		11	3.1	14		
	August, 2020		10	3.2	13		
	July, 2019		9.7	3.7	16		
	January, 2019		12	3.5	16		
	October, 2018		12	3.6	16		
	July, 2018		12	3.4	15		
	April, 2018		11	3.4	14		
	January, 2018		9.8	3.2	13		
	October, 2017		10	3.2	13		
	May, 2016		9.3	2.7	12		
569356	August, 2022	[REDACTED]	20	2.9	23	No	Probably Increasing PFOS and LHA, Probably Decreasing PFOA
	March, 2022		20	2.3	22		
	July, 2021		24 J*	3.0	27 J*		
	January, 2021		21	2.4	23		
	August, 2020		19	2.7	22		

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Sample Name	Sample Date	Sample Location	Perfluorooctane sulfonate (PFOS) ng/L	Perfluorooctanoic acid (PFOA) ng/L	LHA Combined (PFOS + PFOA)	Exceed LHA Level?†	Trends‡
569356	February, 2020	[REDACTED]	21	2.6	24	No	Probably Increasing PFOS and LHA, Probably Decreasing PFOA
	July, 2019		16	2.3	18		
	January, 2019		20	2.9	23		
	October, 2018		22	2.8	25		
	July, 2018		22	3.2	25		
	April, 2018		17	2.9	20		
	January, 2018		15	2.7 J*	18 J*		
	October, 2017		16	3.0	19		
	November, 2016		17	2.9	20		
593460-2	July, 2021	[REDACTED]	5.3 J*	4.0	9.3 J*	No	Decreasing PFOS, Stable PFOA, Probably Decreasing LHA
	July, 2019		9.8	3.8	14		
	May, 2018		19	4.4	23		
	July, 2017		19	3.6	23		
	May, 2017		17	4.2	21		
	May, 2016		31	5.5	37		
87301	March, 2023	[REDACTED]	21	5.7	27	No	Increasing PFOA, Stable PFOS and LHA
	August, 2022		24	5.3	29		
	February, 2022		27	4.7	32		
	July, 2021		28 J*	3.6	32 J*		
	February, 2021		28	4.3	32		
	August, 2020		27	4.7	32		
	February, 2020		28	4.3	32		
	July, 2019		24	4.0	28		
	January, 2019		30	4.8	35		
	July, 2018		32	4.5	37		
	October, 2017		25	4.1	29		
	July, 2017		29	3.6	33		
	April, 2017		28	4.2	32		
	January, 2017		24	3.7	28		
	October, 2016		20	3.1	23		
	July, 2016		24	3.5	28		
February, 2016	30	2.3	32				
87335	February, 2023	[REDACTED]	21	5.3	26	No	Increasing PFOS, PFOA, and LHA
	September, 2022		23	5.9	29		
	March, 2022		19	4.3	23		
	July, 2021		18 J*	6.2	24 J*		
	January, 2021		18	4.3	22		
	August, 2020		17	4.2	21		
	February, 2020		17	4.0	21		
	July, 2019		14	3.9	18		
	January, 2019		16	4.2	20		
	August, 2018		17	4.4	21		
	October, 2017		12	3.7	16		
	July, 2017		13	3.7	17		
	April, 2017		13	4.0	17		
	January, 2017		11	3.9	15		
October, 2016	11	3.7	15				
July, 2016	9.2	3.0	12				
February, 2016	10	2.8	13				
87351	March, 2023	[REDACTED]	18	4.9	23	No	Increasing PFOS, PFOA, and LHA
	August, 2022		20	5.7	26		
	July, 2021		17	4.1	21		
	February, 2021		18	4.3	22		
	August, 2020		15	3.5	19		
	February, 2020		17	4.4	21		
	July, 2019		12	3.5	16		
	January, 2019		18	4.6	23		
	October, 2018		15	4.1	19		
	July, 2018		13	3.3	16		
	April, 2018		11	3.9	15		
	March, 2016		9.5	3.6	13		
	87360		February, 2023	[REDACTED]	6.2		
August, 2022		7.6	2.7		10		
February, 2022		6.2	2.7		8.9		
July, 2021		6.9	2.6		10		
February, 2021		4.2	1.8		6.0		
August, 2020		4.5	1.8		6.3		
March, 2020		4.9	2.1		7.0		
July, 2019		2.6	4.4		7.0		
January, 2019		4.1	2.2		6.3		
October, 2018		4.1	2.6		6.7		
July, 2018		4.4	3.8		8.2		
April, 2018		2.7	2.4		5.1		
March, 2016		2.1	2.6		4.7		
87416		February, 2023	[REDACTED]		27	6.4	33
	August, 2022	25		6.1	31		
	February, 2022	25		5.9	31		
	July, 2021	20 J*		5.9	26 J*		
	August, 2020	21		5.6	27		
	August, 2019	26		5.0	31		
January, 2019	24	5.3	29				

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Sample Name	Sample Date	Sample Location	Perfluorooctane sulfonate (PFOS) ng/L	Perfluorooctanoic acid (PFOA) ng/L	LHA Combined (PFOS + PFOA)	Exceed LHA Level?†	Trends‡
87416	October, 2018	[REDACTED]	27	5.5	33	No	Probably Increasing PFOS, Increasing PFOA and LHA
	July, 2018		26	6.1	32		
	April, 2018		22	4.7	27		
	January, 2018		20 J*	5.0 J*	25 J*		
	October, 2017		21	4.9	26		
	July, 2016		21	4.3	25		
168688	August, 2022	[REDACTED]	1.7 J	1.5 J	3.2 J	No	Decreasing PFOS, PFOA, and LHA
	January, 2021		1.8	2.1	3.9		
	January, 2019		3.9	2.9	6.8		
	July, 2018		3.1	1.9	5.0		
	January, 2018		3.1	2.5	5.6		
	April, 2017		3.3	3.8	7.1		
168921	January, 2017	[REDACTED]	3.7	3.3	7.0	No	Stable PFOS and LHA
	August, 2020		18	3.8	22		
	July, 2019		15	4.9	20		
	July, 2018		21	3.8	25		
669077	August, 2017	[REDACTED]	21	3.3	24	No	Decreasing PFOS and LHA, Probably Increasing PFOA
	August, 2022		21	4.3	25		
	February, 2021		20	3.2	23		
	August, 2020		21	3.9	25		
	February, 2020		32	6.1	38		
	August, 2019		30	3.7	34		
	January, 2019		27	3.8	31		
	July, 2018		30	4.2	34		
	October, 2017		32	3.7	36		
	July, 2017		37	3.5	41		
	April, 2017		35	3.9	39		
	January, 2017		32	3.7	36		
	October, 2016		20	2.8	23		
	July, 2016		32	3.5	36		
87319	March, 2016	[REDACTED]	35	3.9	39	No	Decreasing PFOS and LHA, Increasing PFOA
	August, 2022		17	5.9	23		
	August, 2020		18	4.3	22		
	February, 2020		21	4.7	26		
	July, 2019		19	4.4	23		
	January, 2019		24	5.5	30		
	July, 2018		25	4.8	30		
	October, 2017		23	4.9	28		
	July, 2017		27	4.7	32		
	April, 2017		26	4.9	31		
	January, 2017		24	4.3	28		
	October, 2016		19	3.9	23		
	July, 2016		22	3.8	26		
	February, 2016		32	3.3	35		
87408	February, 2016	[REDACTED]	32	3.3	35	No	Probably Decreasing PFOS, Increasing PFOA, Stable LHA
	August, 2022		28	6.7	35		
	January, 2021		33	5.7	39		
	August, 2020		32	7.0	39		
	February, 2020		34	6.2	40		
	July, 2019		31	5.7	37		
	January, 2019		39	6.3	45		
	July, 2018		40	6.9	47		
	October, 2017		34	5.9	40		
	July, 2017		43	6.6	50		
	April, 2017		37	6.4	43		
	January, 2017		35	5.8	41		
	October, 2016		30	5.2	35		
	July, 2016		31	5.3	36		
February, 2016	43	5.0	48				
95630	February, 2016	[REDACTED]	43	5.0	48	No	Increasing PFOS, PFOA, and LHA
	February, 2022		24 N*	7.0 N*	31		
	July, 2021		24 J*	7.5	32 J*		
	January, 2021		25	5.2	30		
	August, 2020		23	5.6	29		
	July, 2019		22	4.8	27		
	January, 2019		21	4.0	25		
	July, 2018		26	4.5	31		
	November, 2017		22	4.1	26		
	July, 2017		28	3.8	32		
	May, 2017		23	3.9	27		
	January, 2017		23	5.4	28		
	November, 2016		18	3.6	22		
	July, 2016		19	3.4	22		
May, 2016	17	4.2	21				
MW-1701-13	February, 2023	[REDACTED]	67	620	687	Yes	Increasing PFOS and LHA, Probably Increasing PFOA
	August, 2022		81 J*	420 J*	501		
	February, 2022		85	73	155		
	July, 2021		140	190	330		
	February, 2021		180	14	194		
	August, 2020		120	260	380		
	February, 2020		74	44	118		
	July, 2019		36	240	276		
January, 2019	15	32	47				

Table 6 - Comparison of Well Monitoring Network Historic Analytical Results

Sample Name	Sample Date	Sample Location	Perfluorooctane sulfonate (PFOS) ng/L	Perfluorooctanoic acid (PFOA) ng/L	LHA Combined (PFOS + PFOA)	Exceed LHA Level?†	Trends‡
MW-1701-13	October, 2018	Onsite RFTC MW	34	200	234	Yes	Increasing PFOS and LHA, Probably Increasing PFOA
	July, 2018		31	73	104		
	April, 2018		17	23	40		
	January, 2018		14	27	41		
	October, 2017		57	100	157		
	July, 2017		110	160	270		
	May, 2017		39	48	87		
MW-1701-35	February, 2023	Onsite RFTC MW	6,200	220	6,420	Yes	Decreasing PFOS, PFOA, and LHA
	August, 2022		3,500 J*	97 J*	3,597 J*		
	February, 2022		5,300	100	5,400		
	July, 2021		5,800	170	5,970		
	February, 2021		9,500	240	9,740		
	August, 2020		17,000	400	17,400		
	February, 2020		11,000	270	11,270		
	July, 2019		14,000	530	14,530		
	January, 2019		26,000	800	26,800		
	October, 2018		24,000	840	24,840		
	July, 2018		30,000	900	30,900		
	April, 2018		17,000	850	17,850		
	January, 2018		16,000	660	16,660		
	October, 2017		11,000	500	11,500		
	July, 2017		17,000	800	17,800		
May, 2017	13,000	640	13,640				
MW-2001-15	February, 2023	Picket Place, 15-foot well	17	11	28	Yes	Increasing PFOA
	August, 2022		20 J*	11 J*	31 J*		
	February, 2022		18	10	28		
	July, 2021		19	10	29		
MW-2001-50	October, 2020	Picket Place, 50-foot well	10	6.1	16	No	Stable PFOS, PFOA, and LHA
	February, 2023		20	4.8	25		
	August, 2022		24 J*	5.2 J*	29 J*		
	February, 2022		27	4.5	32		
MW-2001-90	July, 2021	Picket Place, 90-foot well	24	5.2	29	No	Increasing PFOA
	October, 2020		32	6.5	39		
	February, 2023		12	4.3	16		
	August, 2022		14 J*	4.2 J*	18 J*		
MW-2002-15	February, 2022	Stubborn German Court, 15-foot well	11	3.9	15	Yes	Stable PFOS, PFOA, and LHA
	July, 2021		12	3.9	16		
	October, 2020		12	3.5	16		
	February, 2023		41	25	76		
MW-2002-50	August, 2022	Stubborn German Court, 50-foot well	41	30	71	No	Stable PFOS, Increasing PFOA
	February, 2022		34	33	67		
	July, 2021		43 J*	36 J*	78 J*		
	October, 2020		55	39	94		
MW-2002-75	February, 2023	Stubborn German Court, 75-foot well	19	7.5	27	No	Increasing PFOA and LHA
	August, 2022		21	7.3	28		
	February, 2022		17	6.2	23		
	July, 2021		21	7	28		
MW-2004-15	October, 2020	Washington Drive, 15-foot well	20	6.1	26	No	Stable PFOS, PFOA, and LHA
	February, 2023		15	4.2	19		
	August, 2022		15	4.0	19		
	February, 2022		13	3.4	16		
MW-2004-50	July, 2021	Washington Drive, 50-foot well	15	3.5	19	Yes	Stable PFOA
	October, 2020		12	2.9	15		
	February, 2023		19	12	31		
	August, 2022		9	11	20		
MW-507	February, 2022	DOT&PF MW on Davis Rd	18	12	30	Yes	Decreasing PFOA
	July, 2021		20	13	33		
	October, 2020		27	15	42		
	February, 2023		64	20	84		
	August, 2022		58	21	79		
	February, 2022		35	19	54		
	July, 2021		50	26	76		
	October, 2020		49	22	71		
	February, 2023		280	16	296		
	August, 2022		340	19	359		
	February, 2022		260	20	280		
	July, 2021		320	18	338		
	February, 2021		280	18	298		
	August, 2020		270	15	285		
	February, 2020		300	22	322		
July, 2019	330	23	353				
January, 2019	430	37	467				
July, 2018	300	20	320				
October, 2017	270	28	298				
July, 2017	330	23	353				
April, 2017	320	27	347				
October, 2016	160	23	183				
July, 2016	200	23	223				
November, 2015	63	21	84				

Table 6 - Comparison of Well Monitoring Network Historic Analytical Results

Notes:

J	Estimated concentration, detected greater than the method detection limit (MDL) and less than the RL. Flag applied by the laboratory.
J*	Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.
N*	Sample analyzed outside of method holding time. Flag applied by Shannon & Wilson, Inc.
<	Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.
BOLD	Concentration exceeds EPA LHA level or DEC groundwater-cleanup level reported in 18 AAC 75, Table C.
†	LHA level is 70 ng/L for PFOS and PFOA combined; following ADEC guidance results are compared to 65 ng/L.
‡	Mann-Kendall Trends. Increasing/Decreasing >95% confidence; Probably Increasing/Decreasing 90-95% confidence; No Trend <90% confidence or <90% and COV ≥1; Stable <90% confidence and COV <1.

LHA = Lifetime Health Advisory; ng/L = nanograms per liter; N/A = Not applicable, analytical results of monitoring wells are compared to groundwater cleanup levels of 400 ng/L PFOS or PFOA