

Table 5 - Summary of February 2021 Analytical Water Supply Well Results

Sample Name					
Matrix			Water	Water	Water
Analyte	EPA LHA	Units	2/16/2021	2/16/2021	2/16/2021 (DUP)
Perfluorohexanesulfonic acid (PFHxS)	—	ng/L	15	25 J*	34 J*
Perfluorohexanoic acid (PFHxA)	—	ng/L	11	20 J*	32 J*
Perfluoroheptanesulfonic acid (PFHpS)	—	ng/L	0.67 J	1.0 J*	1.6 J*
Perfluoroheptanoic acid (PFHpA)	—	ng/L	5.7	11 J*	18 J*
Perfluorononanoic acid (PFNA)	—	ng/L	77	110 J*	150 J*
Perfluorobutanesulfonic acid (PFBS)	—	ng/L	2.2	5.7 J*	26 J*
Perfluorobutonic acid (PFBA)	—	ng/L	4.6	23 J*	33 J*
Perfluoropentanoic acid (PFPeA)	—	ng/L	16	27 J*	42 J*
Perfluorodecanoic acid (PFDA)	—	ng/L	0.59 J	0.43 J*	1.1 J*
Perfluoroundecanoic acid (PFUnA)	—	ng/L	<1.8	<1.7	<2.3
Perfluorododecanoic acid (PFDoA)	—	ng/L	<1.8	<1.7	<2.3
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	—	ng/L	<1.8	<1.7	<2.3
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	—	ng/L	<1.8	<1.7	<2.3
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	—	ng/L	<1.8	<1.7	<2.3
Hexafluoropropylene oxide dimer acid (HFPO-DA)	—	ng/L	<1.8	<1.7	<2.3
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	—	ng/L	<1.8	<1.7	<2.3
Perfluoro (2-Ethoxyethane) Sulfonic Acid (PFEESA)	—	ng/L	<1.8	<1.7	<2.3
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	—	ng/L	<1.8	<1.7	<2.3
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	—	ng/L	<1.8	<1.7	<2.3
Perfluoropentanesulfonic acid (PFPeS)	—	ng/L	1.7 J	3.1	3.9
6:2 FTS	—	ng/L	17	24	30
8:2 FTS	—	ng/L	<1.8	0.37 J	0.45 J
4:2 FTS	—	ng/L	0.45 J	0.48 J	<2.3
Perfluorooctanesulfonic acid (PFOS)	70 [†]	ng/L	13	20 J*	31 J*
Perfluorooctanoic acid (PFOA)		ng/L	7.4	12 J*	19 J*
LHA Combined (PFOS + PFOA)	70 [†]	ng/L	20	32 J*	50 J*

Notes: Samples were analyzed by TestAmerica Sacramento via Environmental Protection Agency Method 533.

ng/L nanograms per liter

EPA Environmental Protection Agency

LHA Lifetime Health Advisory

† EPA LHA level for drinking water is 70 ppt for PFOS and PFOA combined

- Cleanup/Action level not established.

< Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.

DUP Field-duplicate sample

J Estimated concentration, detected greater than the method detection limit (MDL) and less than the RL. Flag applied by the laboratory.

J* Result considered estimated due to a QC failure. Flag applied by Shannon & Wilson, Inc.

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: NPF Site Assessment

Job ID: 320-70469-1

Client Sample ID: [REDACTED]
Date Collected: 02/16/21 13:13
Date Received: 02/24/21 11:10

Lab Sample ID: 320-70469-1
Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	ND		1.7	0.34	ng/L		02/27/21 07:32	03/01/21 19:07	1
9CI-PF3ONS	ND		1.7	0.50	ng/L		02/27/21 07:32	03/01/21 19:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.23	ng/L		02/27/21 07:32	03/01/21 19:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7	0.22	ng/L		02/27/21 07:32	03/01/21 19:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7	0.56	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorobutanoic acid (PFBA)	23		1.7	0.79	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorobutanesulfonic acid (PFBS)	5.7		1.7	0.43	ng/L		02/27/21 07:32	03/01/21 19:07	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.37	J	1.7	0.34	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorodecanoic acid (PFDA)	0.43	J	1.7	0.23	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.7	0.50	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.0	J	1.7	0.44	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoroheptanoic acid (PFHpA)	11		3.5	0.87	ng/L		02/27/21 07:32	03/01/21 19:07	1
4:2 FTS	0.48	J	1.7	0.43	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorohexanesulfonic acid (PFHxS)	25		1.7	0.45	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorohexanoic acid (PFHxA)	20		1.7	0.23	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7	0.18	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7	0.35	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorononanoic acid (PFNA)	110		1.7	0.30	ng/L		02/27/21 07:32	03/01/21 19:07	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	24		1.7	0.30	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorooctanesulfonic acid (PFOS)	20		1.7	0.35	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluorooctanoic acid (PFOA)	12		1.7	0.64	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoropentanoic acid (PFPeA)	27		1.7	0.59	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoropentanesulfonic acid (PFPeS)	3.1		1.7	0.32	ng/L		02/27/21 07:32	03/01/21 19:07	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		02/27/21 07:32	03/01/21 19:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	101		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C5 PFPeA	159		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C3 PFBS	121		50 - 200				02/27/21 07:32	03/01/21 19:07	1
M2-4:2 FTS	96		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C5 PFHxA	104		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C3 HFPO-DA	92		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C4 PFHpA	114		50 - 200				02/27/21 07:32	03/01/21 19:07	1
M2-6:2 FTS	82		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C8 PFOA	119		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C9 PFNA	98		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C8 PFOS	106		50 - 200				02/27/21 07:32	03/01/21 19:07	1
M2-8:2 FTS	70		50 - 200				02/27/21 07:32	03/01/21 19:07	1
13C6 PFDA	85		50 - 200				02/27/21 07:32	03/01/21 19:07	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: NPF D Site Assessment

Job ID: 320-70469-1

Client Sample ID: [REDACTED]
Date Collected: 02/16/21 13:13
Date Received: 02/24/21 11:10

Lab Sample ID: 320-70469-1
Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C7 PFUnA	85		50 - 200	02/27/21 07:32	03/01/21 19:07	1
13C2 PFDoA	82		50 - 200	02/27/21 07:32	03/01/21 19:07	1
13C3 PFHxS	111		50 - 200	02/27/21 07:32	03/01/21 19:07	1

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: NPF D Site Assessment

Job ID: 320-70469-1

Client Sample ID: [REDACTED]
Date Collected: 02/16/21 13:03
Date Received: 02/24/21 11:10

Lab Sample ID: 320-70469-2
Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	ND		2.3	0.45	ng/L		02/27/21 07:32	03/01/21 19:16	1
9CI-PF3ONS	ND		2.3	0.67	ng/L		02/27/21 07:32	03/01/21 19:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.3	0.31	ng/L		02/27/21 07:32	03/01/21 19:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.3	0.29	ng/L		02/27/21 07:32	03/01/21 19:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.3	0.73	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorobutanoic acid (PFBA)	33		2.3	1.0	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorobutanesulfonic acid (PFBS)	26		2.3	0.56	ng/L		02/27/21 07:32	03/01/21 19:16	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.45	J	2.3	0.45	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorodecanoic acid (PFDA)	1.1	J	2.3	0.30	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorododecanoic acid (PFDoA)	ND		2.3	0.68	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		2.3	0.67	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.6	J	2.3	0.58	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoroheptanoic acid (PFHpA)	18		4.6	1.1	ng/L		02/27/21 07:32	03/01/21 19:16	1
4:2 FTS	ND		2.3	0.57	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorohexanesulfonic acid (PFHxS)	34		2.3	0.60	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorohexanoic acid (PFHxA)	32		2.3	0.30	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.3	0.24	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.3	0.46	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorononanoic acid (PFNA)	150		2.3	0.40	ng/L		02/27/21 07:32	03/01/21 19:16	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	30		2.3	0.40	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorooctanesulfonic acid (PFOS)	31		2.3	0.46	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluorooctanoic acid (PFOA)	19		2.3	0.85	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoropentanoic acid (PFPeA)	42		2.3	0.78	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoropentanesulfonic acid (PFPeS)	3.9		2.3	0.42	ng/L		02/27/21 07:32	03/01/21 19:16	1
Perfluoroundecanoic acid (PFUnA)	ND		2.3	0.57	ng/L		02/27/21 07:32	03/01/21 19:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	74		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C5 PFPeA	102		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C3 PFBS	88		50 - 200				02/27/21 07:32	03/01/21 19:16	1
M2-4:2 FTS	82		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C5 PFHxA	76		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C3 HFPO-DA	74		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C4 PFHpA	78		50 - 200				02/27/21 07:32	03/01/21 19:16	1
M2-6:2 FTS	74		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C8 PFOA	85		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C9 PFNA	81		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C8 PFOS	83		50 - 200				02/27/21 07:32	03/01/21 19:16	1
M2-8:2 FTS	60		50 - 200				02/27/21 07:32	03/01/21 19:16	1
13C6 PFDA	71		50 - 200				02/27/21 07:32	03/01/21 19:16	1

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Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: NPF D Site Assessment

Job ID: 320-70469-1

Client Sample ID: [REDACTED]
Date Collected: 02/16/21 13:03
Date Received: 02/24/21 11:10

Lab Sample ID: 320-70469-2
Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C7 PFlUnA	69		50 - 200	02/27/21 07:32	03/01/21 19:16	1
13C2 PFlDoA	63		50 - 200	02/27/21 07:32	03/01/21 19:16	1
13C3 PFlHxS	88		50 - 200	02/27/21 07:32	03/01/21 19:16	1

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: NPF D Site Assessment

Job ID: 320-70469-1

Client Sample ID: [REDACTED]

Lab Sample ID: 320-70469-3

Date Collected: 02/16/21 14:17

Matrix: Water

Date Received: 02/24/21 11:10

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11CI-PF3OUdS	ND		1.8	0.34	ng/L		02/27/21 07:32	03/01/21 19:25	1
9CI-PF3ONS	ND		1.8	0.51	ng/L		02/27/21 07:32	03/01/21 19:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.24	ng/L		02/27/21 07:32	03/01/21 19:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8	0.22	ng/L		02/27/21 07:32	03/01/21 19:25	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8	0.56	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorobutanoic acid (PFBA)	4.6		1.8	0.80	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorobutanesulfonic acid (PFBS)	2.2		1.8	0.43	ng/L		02/27/21 07:32	03/01/21 19:25	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.34	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorodecanoic acid (PFDA)	0.59 J		1.8	0.23	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.8	0.51	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.67 J		1.8	0.45	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoroheptanoic acid (PFHpA)	5.7		3.5	0.88	ng/L		02/27/21 07:32	03/01/21 19:25	1
4:2 FTS	0.45 J		1.8	0.44	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorohexanesulfonic acid (PFHxS)	15		1.8	0.46	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorohexanoic acid (PFHxA)	11		1.8	0.23	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8	0.19	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8	0.35	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorononanoic acid (PFNA)	77		1.8	0.31	ng/L		02/27/21 07:32	03/01/21 19:25	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	17		1.8	0.31	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorooctanesulfonic acid (PFOS)	13		1.8	0.35	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluorooctanoic acid (PFOA)	7.4		1.8	0.65	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoropentanoic acid (PFPeA)	16		1.8	0.60	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoropentanesulfonic acid (PFPeS)	1.7 J		1.8	0.33	ng/L		02/27/21 07:32	03/01/21 19:25	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44	ng/L		02/27/21 07:32	03/01/21 19:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C5 PFPeA	127		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C3 PFBS	112		50 - 200	02/27/21 07:32	03/01/21 19:25	1
M2-4:2 FTS	83		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C5 PFHxA	102		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C3 HFPO-DA	97		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C4 PFHpA	108		50 - 200	02/27/21 07:32	03/01/21 19:25	1
M2-6:2 FTS	88		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C8 PFOA	100		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C9 PFNA	91		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C8 PFOS	108		50 - 200	02/27/21 07:32	03/01/21 19:25	1
M2-8:2 FTS	77		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C6 PFDA	95		50 - 200	02/27/21 07:32	03/01/21 19:25	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Shannon & Wilson, Inc
Project/Site: NPF D Site Assessment

Job ID: 320-70469-1

Client Sample ID: [REDACTED]
Date Collected: 02/16/21 14:17
Date Received: 02/24/21 11:10

Lab Sample ID: 320-70469-3
Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C7 PFUnA	94		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C2 PFDoA	90		50 - 200	02/27/21 07:32	03/01/21 19:25	1
13C3 PFHxS	112		50 - 200	02/27/21 07:32	03/01/21 19:25	1