

March 2021 Monitoring Well PFAS Analytical Results

Sample Name			MW-1-15	MW-1-40	MW-2-20		MW-2-30	MW-3-15	MW-3-40	MW-4-20	MW-5-20
Sample Date			3/24/2021	3/24/2021	3/24/2021	3/24/2021 (DUP)	3/24/2021	3/24/2021	3/24/2021	3/25/2021	3/25/2021
Analyte	EPA LHA	Units	Water	Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	<1.8	0.68 J	100	98	0.54 J	1.9 J*	17	0.50 J	1.4 J
Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.8	<1.7	31	30	<1.8	0.87 J*	2.4	<1.7	0.89 J
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.8	<1.7	26	24	<1.8	<1.7 J*	<1.7	<1.7	<1.7
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.7	3.8	4.0	<1.8	<1.7 J*	<1.7	<1.7	0.65 J
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	<1.8	<1.7	2.4	2.3	0.91 J	0.24 J*	0.93 J	<1.7	0.45 J
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.4	<4.3	<4.2	<4.3	<4.4	<4.3 J*	<4.4	<4.3	<4.3
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.4	<4.3	<4.2	<4.3	<4.4	<4.3 J*	<4.4	<4.3	<4.3
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.7	<1.7	<1.7	<1.8	<1.7 J*	<1.7	<1.7	<1.7
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.5	<3.4	<3.4	<3.5	<3.5	<3.5 J*	<3.5	<3.5	<3.4
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.8	<1.7	250	240	<1.8	3.1 J*	13	<1.7	2.7
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	<1.7	78	72	<1.8	<1.7 J*	1.7	<1.7	0.87 J
LHA Combined (PFOS + PFOA)	70†	ng/L	n/a	n/a	328	312	n/a	3.1 J*‡	15	n/a	3.6 J

ng/L nanograms per liter, equivalent to parts per trillion

EPA Environmental Protection Agency

LHA Lifetime Health Advisory

† EPA LHA level is 70 ppt 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.

Bold Concentration exceeds LHA level.

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* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.

‡ Minimum concentration, the LHA Combined concentration includes one or more result that is not detected greater than the MDL.

N/A Not applicable. The LHA Combined concentration could not be calculated; PFOS and PFOA were not detected in the project sample.

March 2021 Monitoring Well PFAS Analytical Results

Sample Name			MW-6-20	MW-7-20	MW-8-20	MW-9-30	MW-10-20	MW-11-15		MW-12-10
Sample Date			3/25/2021	3/25/2021	3/24/2021	3/24/2021	3/24/2021	3/25/2021	3/25/2021 (DUP)	3/25/2021
Analyte	EPA LHA	Units	Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	1.0 J	0.98 J	0.57 J*	15	17 J*	17	20	9.4
Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.8 J*	1.3 J	<1.8 J*	8.9	16 J*	15	13	4.8
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.8 J*	1.0 J	<1.8 J*	3.0	4.8	3.0	2.7	3.8
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.7	<1.8 J*	<1.8	<1.7	0.62 J	0.60 J	0.64 J
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	0.30 J*	<1.7	<1.8 J*	1.2 J	1.3 J*	1.2 J	1.4 J	0.52 J
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8 J*	<1.7	<1.8 J*	<1.8	<1.7 J*	<1.7	<1.7	<1.8
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8 J*	<1.7	<1.8 J*	<1.8	<1.7 J*	<1.7	<1.7	<1.8
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8 J*	<1.7	<1.8 J*	<1.8	<1.7 J*	<1.7	<1.7	<1.8
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.7	<1.8 J*	<1.8	<1.7	<1.7	<1.7	<1.8
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8 J*	<1.7	<1.8 J*	<1.8	<1.7 J*	<1.7	<1.7	<1.8
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.5 J*	<4.4	<4.6 J*	<4.5	<4.3 J*	<4.2	<4.3	<4.5
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.5 J*	<4.4	<4.6 J*	<4.5	<4.3 J*	<4.2	<4.3	<4.5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.7	<1.8 J*	<1.8	<1.7	<1.7	<1.7	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.7	<1.8 J*	<1.8	<1.7	<1.7	<1.7	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.7	<1.8 J*	<1.8	<1.7	<1.7	<1.7	<1.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.6 J*	<3.5	<3.7 J*	<3.6	<3.5 J*	<3.4	<3.4	<3.6
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	1.5 J	5.0	<1.8 J*	97	37 J*	210	200	36
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	2.3	<1.8 J*	1.0 J	1.9	2.2	2.2	2.9
LHA Combined (PFOS + PFOA)	70†	ng/L	1.5 J‡	7.3	n/a	98 J	39	212	202	39

ng/L nanograms per liter, equivalent to parts per trillion

EPA Environmental Protection Agency

LHA Lifetime Health Advisory

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