

Madison Water Utility 2020 PFAS Test Results

MWU 2020 PFAS Results		Source	Well 06	Well 06	Well 06	Well 06	Well 07	Well 07	Well 08	Well 08	Well 09	Well 09	Well 09	Well 09	Well 09	Well 11	Well 11	Well 11	Well 11	Well 11	Well 12	Well 13	Well 14	Well 14	Well 14	Well 14	Well 14	Well 14	Well 16	Well 16	Well 17	Well 17	Well 18	Well 19	Well 20	Well 24	Well 25	Well 26	Well 27	Well 28	Well 29	Well 29	Well 30	Well 31						
PFAS Compound	Sample Date	Laboratory	Mod 537	ISO	537.1	537.1	Mod 537	ISO	Mod 537	537.1	Mod 537	537.1	537.1	537.1	ISO	Mod 537	ISO	537.1	537.1	Mod 537	Mod 537	Mod 537	537.1	537.1	537.1	ISO	Mod 537	537.1	Mod 537	537.1	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537	Mod 537				
Perfluorooctanoic acid	PFOA		0.82 ^J	<0.356	<0.820	<0.837	1.0 ^J	0.347 ^J	1.1 ^J	0.990	1.2 ^J	0.54 ^J	<0.861	<0.887	<0.359	1.0 ^J	<0.359	<0.850	<0.838	<0.75	1.4 ^J	1.8	1.4 ^J	1.04	1.32	0.699	1.6 ^J	<0.868	1.0 ^J	<0.872	0.80 ^J	<0.78	<0.73	<0.77	0.82 ^J	0.79 ^J	1.2 ^J	<0.76	0.78 ^J	<0.0973	0.80 ^J	<0.73								
Perfluorooctanesulfonic acid	PFOS		0.47 ^J	<0.356	<0.543	<0.554	<0.47	0.123 ^J	1.5 ^J	0.903	0.68 ^J	0.65 ^J	<0.570	<0.587	<0.359	0.75 ^J	<0.359	<0.562	<0.555	<0.47	0.54 ^J	0.76 ^J	0.99 ^J	<0.571	<0.569	<0.367	1.8	1.20	0.71 ^J	<0.577	0.53 ^J	<0.50	<0.47	0.52 ^J	0.62 ^J	0.99 ^J	0.55 ^J	<0.48	<0.48	0.150 ^J	0.51 ^J	<0.46								
Perfluorobutanoic acid	PFBA		1.4 ^J	<0.356	n/a	n/a	0.60 ^{JB}	<1.80	1.1 ^J	n/a	37	n/a	n/a	n/a	27.6	4.1	3.74	n/a	n/a	0.65 ^{JB}	1.8	3.9	n/a	n/a	n/a	4.03	1.6 ^J	n/a	0.85 ^J	n/a	1.0 ^{JB}	0.70 ^{JB}	0.48 ^{JB}	0.64 ^{JB}	0.45 ^{JB}	0.90 ^J	1.2 ^J	0.71 ^{JB}	1.2 ^{JB}	<1.84	0.61 ^{JB}	0.41 ^{JB}								
Perfluoropentanoic acid	PFPeA		0.77 ^J	<0.356	n/a	n/a	<0.42	<0.180	0.67 ^J	n/a	1.0 ^J	n/a	n/a	n/a	0.650	0.73 ^J	0.401	n/a	n/a	<0.43	1.6 ^J	2.0	n/a	n/a	n/a	1.49	1.2 ^J	n/a	<0.42	n/a	0.49 ^J	<0.45	<0.42	<0.44	<0.41	0.42 ^J	0.93 ^J	<0.44	<0.44	<0.184	<0.41	<0.42								
Perfluorohexanoic acid	PFHxA		0.93 ^J	0.607	0.708	0.646	<0.50	<0.126	0.75 ^J	<0.624	0.82 ^J	0.79 ^J	<0.629	<0.647	0.485	0.53 ^J	<0.359	<0.620	<0.612	<0.51	1.9	2.2	2.1	1.76	1.57	1.58	1.1 ^J	0.827	<0.50	<0.636	<0.49	<0.53	<0.50	<0.52	<0.49	<0.48	0.87 ^J	<0.52	<0.52	<0.128	<0.49	<0.50								
Perfluoroheptanoic acid	PFHpA		0.29 ^J	<0.356	<0.419	<0.428	<0.22	<0.121	0.31 ^J	<0.437	0.35 ^J	<0.50	<0.440	<0.453	<0.359	0.26 ^J	<0.359	<0.434	<0.428	<0.22	0.52 ^J	0.70 ^J	0.78 ^J	0.502	0.513	0.468	0.50 ^J	<0.444	<0.22	<0.446	<0.21	<0.23	<0.22	<0.23	<0.21	<0.21	0.30 ^J	<0.22	<0.22	<0.124	<0.21	<0.21								
Perfluorooctanesulfonamide	PFOSA		1.6 ^{JB}	<0.356	n/a	n/a	2.4 ^B	0.470 ^B	2.0 ^B	3.1 ^B	n/a	n/a	n/a	<0.359	1.2 ^{JB}	<0.359	<0.434	<0.428	<0.22	1.5 ^{JB}	2.4 ^B	2.0 ^B	n/a	n/a	<0.367	1.7 ^B	n/a	2.5 ^B	n/a	2.6 ^B	2.1 ^B	1.8 ^B	2.9 ^B	3.2 ^B	1.8 ^B	2.2 ^B	2.6 ^B	3.6 ^B	0.261 ^{JB}	3.7 ^B	4.4 ^B									
Perfluorononanoic acid	PFNA		<0.22	<0.356	<0.319	<0.326	<0.23	<0.0684	<0.23	<0.332	<0.24	<0.50	<0.335	<0.345	<0.359	<0.23	<0.359	<0.330	<0.326	<0.24	<0.24	<0.24	<0.50	<0.335	<0.334	<0.367	<0.24	<0.338	<0.23	<0.339	<0.23	<0.25	<0.23	<0.24	<0.23	<0.22	<0.23	<0.24	<0.0697	<0.23	<0.23									
Perfluorodecanoic acid	PFDA		<0.26	<0.356	<0.730	<0.746	<0.27	<0.133	<0.26	<0.761	<0.27	<0.50	<0.767	<0.790	<0.359	<0.26	<0.359	<0.757	<0.746	<0.27	<0.27	<0.27	<0.50	<0.768	<0.766	<0.367	<0.27	<0.773	<0.27	<0.776	<0.26	<0.28	<0.27	<0.28	<0.26	<0.26	<0.27	<0.28	<0.28	<0.136	<0.26	<0.27								
Perfluoroundecanoic acid	PFUnA		<0.91	<0.356	<0.803	<0.820	<0.95	<0.121	<0.93	<0.836	<0.96	<0.50	<0.843	<0.868	<0.359	<0.92	<0.359	<0.831	<0.820	<0.97	<0.96	<0.97	<0.50	<0.844	<0.842	<0.367	<0.96	<0.850	<0.95	<0.853	<0.94	<1.0	<0.95	<0.99	<0.92	<0.91	<0.95	<0.98	<0.99	<0.124	<0.93	<0.94								
Perfluorododecanoic acid	PFDoA		0.56 ^J	<0.356	<0.915	<0.934	<0.48	<0.0936	<0.47	<0.953	<0.48	<0.50	<0.961	<0.989	<0.359	<0.46	<0.359	<0.948	<0.935	<0.48	0.54 ^J	0.48	<0.49	<0.50	<0.962	<0.960	<0.367	<0.48	<0.968	<0.48	<0.973	<0.47	<0.51	<0.47	<0.50	<0.46	<0.45	<0.48	<0.49	<0.0954	<0.46	<0.47								
Perfluorotridecanoic acid	PFTriDA		<1.1	<0.356	<0.803	<0.820	<1.1	<0.146	<1.1	<0.836	<1.1	<0.50	<0.843	<0.868	<0.359	<1.1	<0.359	<0.831	<0.820	<1.1	<1.1	<1.1	<0.50	<0.844	<0.842	<0.367	<1.1	<0.850	<1.1	<0.853	<1.1	<1.2	<1.1	<1.2	<1.1	<1.1	<1.1	<1.2	<1.2	<1.1	<1.1	<1.2	<1.1	<1.1						
Perfluorotetradecanoic acid	PFTeDA		0.52 ^J	<0.356	<0.681	<0.695	<0.25	<0.261	<0.25	<0.709	<0.25	<0.50	<0.715	<0.736	<0.359	<0.24	<0.359	<0.705	<0.695	<0.25	<0.25	<0.26	<0.50	<0.716	<0.714	<0.367	<0.25	<0.720	<0.25	<0.723	<0.25	<0.27	<0.25	<0.27	<0.25	<0.26	0.29 ^J	<0.24	<0.25	<0.26	<0.266	<0.24	<0.25							
Perfluoro-n-hexadecanoic acid	PFHxDA		<0.74	<0.889	n/a	n/a	<0.77	<0.314	<0.75	n/a	<0.78	n/a	n/a	n/a	<0.897	<0.74	<0.897	n/a	n/a	<0.78	<0.78	<0.79	n/a	n/a	n/a	<0.917	<0.78	n/a	<0.77	n/a	<0.76	<0.82	<0.77	<0.80	<0.75	<0.73	<0.77	<0.79	<0.80	<0.320	<0.75	<0.76								
Perfluoro-n-octadecanoic acid	PFODA		<0.38	n/a	n/a	n/a	<0.40	n/a	<0.39	n/a	<0.40	n/a	n/a	n/a	<0.40	<0.38	n/a	n/a	n/a	<0.40	<0.40	<0.41	n/a	n/a	n/a	n/a	<0.40	n/a	<0.40	n/a	<0.39	<0.42	<0.40	<0.41	<0.39	<0.38	<0.40	<0.41	n/a	<0.39	<0.39									
Perfluorobutanesulfonic acid	PFBS		1.1 ^J	0.749	0.855	0.796	<0.17	<0.214	<0.17	<0.402	0.92 ^J	0.89 ^J	0.654	0.680	0.668	0.48 ^J	0.389	<0.400	<0.394	<0.18	1.1 ^J	1.7 ^J	1.7 ^J	1.28	1.22	1.30	0.85 ^J	0.624	<0.17	<0.410	<0.17	<0.18	<0.17	<0.18	<0.17	<0.17	0.25 ^J	0.62 ^J	<0.18	<0.18	<0.218	<0.17	<0.17							
Perfluoropentanesulfonic acid	PFPeS		0.74 ^J	0.555	n/a	n/a	<0.26	<0.0504	<0.25	n/a	0.26 ^J	n/a	n/a	n/a	<0.359	<0.25	<0.359	n/a	n/a	<0.26	<0.26	0.41 ^J	n/a	n/a	n/a	<0.367	<0.26	n/a	<0.26	n/a	<0.26	<0.28	<0.26	<0.27	<0.25	<0.25	<0.26	<0.27	<0.0514	<0.25	<0.26									
Perfluorohexanesulfonic acid	PFHxS		4.2 ^B	3.37	3.76	3.66	0.75 ^{JB}	0.545	0.93 ^{JB}	0.618	1.4 ^{JB}	1.8 ^J	1.13	1.20	1.09	1.7 ^B	1.31	1.29	1.26	<0.15	2.6 ^B	5.0 ^B	6.4	4.15	4.08	4.15	2.9 ^B	2.40	0.77 ^{JB}	0.597	0.46 ^{JB}	0.30 ^{JB}	0.25 ^{JB}	0.28 ^{JB}	<0.14	0.92 ^{JB}	1.8 ^B	0.26 ^{JB}	0.43 ^{JB}	0.131 ^J	0.30 ^{JB}	0.26 ^{JB}								
Perfluoroheptanesulfonic acid	PFHpS		<0.16	<0.356	n/a	n/a	<0.16	<0.0675	<0.16	n/a	<0.17	n/a	n/a	n/a	<0.359	<0.16	<0.359	n/a	n/a	<0.17	<0.17	<0.17	<0.359	<0.16	<0.367	<0.17	n/a	<0.16	<0.16	<0.17	<0.16	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Perfluorononanesulfonic acid	PFNS		<0.13	<0.356	n/a	n/a	<0.14	<0.0450	<0.14	n/a	<0.14	n/a	n/a	n/a	<0.359	<0.13	<0.359	n/a	n/a	<0.14	<0.14	<0.14	n/a	n/a	n/a	<0.367	<0.14	n/a	<0.14	n/a	<0.14	<0.15	<0.14	<0.14	<0.13	<0.13	<0.13	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Perfluorodecane sulfonic acid	PFDS		<0.27	<0.356	n/a	n/a	<0.28	<0.123	<0.27	n/a	<0.28	n/a	n/a	n/a	<0.359	<0.27	<0.359	n/a	n/a	<0.28	<0.28	<0.28	n/a	n/a	n/a	<0.367	<0.28	n/a	<0.28	n/a	<0.29	<0.28	<0.29	<0.28	<0.27	<0.28	<0.29	<0.29	<0.29	<0.29										