

Granular Activated Carbon (GAC) Study			Sampling Date:			05/03/18			05/16/18			05/30/18			06/13/18			06/27/18			07/11/18			07/26/18			08/08/18			08/22/18			09/05/18			10/03/18		
Location 71: GAC system installed 4/13/18			Flowmeter Reading (gallons):			2706.3			4146.8			5762.4			7748.9			9272.2			11722.3			13526.4			15201.4			17265.4			19293.5			23750.3		
GAC Treatment Stages:			Raw	Pre	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post	Raw	Mid	Post		
Chemical Name	CASN	Estimated Concentration	Reporting Units:			ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L		
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA, "GenX")	13252-13-6		1270	1140	-	-	986	-	-	1220	-	-	1030	-	-	919	-	-	1100	-	-	1080	-	-	1130	-	-	1130	-	-	997	-	-	1640	-	-		
Perfluoro-2-methoxyacetic acid (PFMOAA)	674-13-5	X	81.3	195	-	-	98.8	-	-	207	-	-	291	-	-	309	-	-	394	-	-	329	-	-	345	-	-	341	-	-	309	-	-	536	-	-		
Perfluoro-3-methoxy-propanoic acid (PFMOPrA)	377-73-1	X	1440	1340	-	-	1020	-	-	1540	1.56 J	-	1290	-	-	1230	3.03 J	-	1240	10.8	-	1360	9.3	-	1290	7.75	-	1420	10.1	-	1310	9.52	-	1610	7.65	-		
Perfluoro-4-methoxy-butanoic acid (PFMOBA)	863090-89-5	X	429	434	-	-	372	-	-	424	-	-	413	-	-	341	-	-	431	-	-	449	-	-	367	-	-	429	-	-	418	-	-	456	-	-		
Perfluoro-(3,5-dioxahexanoic) acid (PFO2HxA)	39492-88-1	X	341	307	-	-	275	-	-	358	-	-	302	-	-	348	-	-	334	-	-	369	-	-	337	-	-	371	-	-	319	-	-	519	-	-		
Perfluoro-(3,5,7-trioxaoctanoic) acid (PFO3OA)	39492-89-2	X	-	-	-	-	88.2	-	-	89.7 J	-	-	96.9	-	-	114	-	-	111	-	-	91.1	-	-	90.2	-	-	93.4	-	-	73.2	-	-	111	-	-		
Perfluoro-(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	39492-90-5	X	22.5	20.8	-	-	20.1	-	-	19	-	-	19	-	-	21.6	-	-	24.8	-	-	-	-	-	16.5	-	-	20	-	-	15.2	-	-	23.2	-	-		
Nafion Byproduct 1	29311-67-9	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Nafion Byproduct 2	749836-20-2	X	38	35.3	-	-	29	-	-	36.2	-	-	37.1	-	-	49.1	-	-	36.7	-	-	-	-	-	31.9	-	-	31.7	-	-	24.0	-	-	44.7	-	-		
Perfluoro-butane-sulfonate (PFBS)	375-73-5		1.93	1.63 J	-	-	1.81	-	-	2.04	-	-	1.91	-	-	2.07	-	-	1.84	-	-	2.86	-	-	2.23	-	-	2.17	-	-	1.95	-	-	2.4	-	-		
Perfluoro-butyric acid (PFBA)	375-22-4		-	11	-	-	11.8	-	-	11.3	-	-	-	-	-	-	-	-	-	-	-	-	-	13.5	-	-	12	-	-	11.9	-	-	-	-	-			
Perfluoro-pentanoic acid (PFPeA)	2706-90-3		17.2	14.8	-	-	15.3	-	-	17.2	-	-	17.4	-	-	17.3	-	-	15.8	-	-	24.1	-	-	19.3	-	-	19.1	-	-	16.3	-	-	23.4	-	-		
Perfluoro-pentane-sulfonate (PFPeS)	2706-91-4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-hexanesulfonate (PFHxS)	355-46-4		1.63 J	1.74 J	-	-	1.68 J	-	-	1.83	-	-	1.79	-	-	2.05	-	-	1.94	-	-	2.54	-	-	2.38	-	-	2.08	-	-	1.54 J	-	-	2.85	-	-		
Perfluoro-hexanoic acid (PFHxA)	307-24-4		5.42	5.13	-	-	5.37	-	-	5.7	-	-	5.62	-	-	6.36	-	-	5.76	-	-	6.97	-	-	6.84	-	-	7.12	-	-	6.23	-	-	9.33	-	-		
Perfluoro-heptanesulfonate (PFHpS)	375-92-8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-heptanoic acid (PFHpA)	375-85-9		3.51	3.09	-	-	3.25	-	-	3.46	-	-	4.08	-	-	3.67	-	-	3	-	-	4.69	-	-	3.71	-	-	3.27	-	-	3.19	-	-	5.77	-	-		
Perfluorooctane-sulfonate (PFOS)	1763-23-1		1.90 J	0.940 J	-	0.841 J	-	-	0.787 J	-	-	2.3	2.42	-	0.814 J	-	-	0.682 J	-	-	0.962 J	-	-	0.757 J	-	-	0.969 J	-	-	0.996 J	-	-	0.989 J	-	-	-		
Perfluoro-octanoic acid (PFOA)	335-67-1		6.36	6.11	-	-	6.63	-	-	6.41	-	-	6.68	-	-	5.91	-	-	5.68	-	-	7.23	-	-	6.54	-	-	6.38	-	-	5.46	-	-	9.81	-	-		
Perfluoro-nonane-sulfonate (PFNS)	68259-12-1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-nonanoic acid (PFNA)	375-95-1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-decanesulfonate (PFDS)	335-77-3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-decanoic acid (PFDA)	335-76-2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-undecanoic acid (PFUdA)	2058-94-8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-dodecanoic acid (PFDoA)	307-55-1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-tridecanoic acid (PFTrDA)	72629-94-8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-tetradecanoic acid (PFTeDA)	376-06-7		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluorotelomer sulfonate 4:2 (4:2 FTS)	757124-72-4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorotelomer sulfonate 6:2 (6:2 FTS)	27619-97-2		-	-	-	-	-	-	-	-	-	-	2.26 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluorotelomer sulfonate 8:2 (8:2 FTS)	39108-34-4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Perfluoro-octane-sulfonamide (PFOSA)	754-91-6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-methylperfluoro-1-octane-sulfon-amidoacetic acid (N-MeFOSAA)	2355-31-9		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
N-ethylperfluoro-1-octane-sulfon-amidoacetic acid (N-EtFOSAA)	2991-50-6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

GAC Treatment Stages: Raw = Untreated well water; Pre = Sediment & iron-filtered water; Mid = After 1st carbon tank & before the 2nd carbon tank; Post = After all GAC system treatment stages, "finished" water.

X = The reported PFAS concentrations are estimated for this compound. Samples were quantified using a non-certified calibration standard because a certified standard for this PFAS was not available at the time.

ng/L = Nanograms per liter, "parts-per-trillion".

J = Estimated concentration is greater than the analytical method detection limit and less than the sample-specific reporting limit.

- = Not detected. Sample reporting limits (RLs) are typically in the range of approximately 1 - 5 ng/L for treated water (Mid and Post). RLs may be higher (up to approximately 200 ng/L) for untreated water (Raw and Pre) when dilutions are required.