

Granular Activated Carbon (GAC) Study			Sampling Date:	03/28/18				04/11/18			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 77: GAC system installed 3/23/18			Flowmeter Reading (gallons):	n/a				n/a			10440.5				14540.0			17426.5			21433.9			26434.5			34809.2			40391.8			44120.6			48860.3			n/a			59800.8										
Chemical Name	CASN	Estimated Concentration	Reporting Units:	GAC Treatment Stages:				Raw			Mid			Post			Raw			Mid			Post			Raw			Mid			Post			Raw			Mid			Post			Raw			Mid			Post		
				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	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			1260	957	-	-	1300	-	-	1310	1340	-	-	1040	-	-	1420	-	-	1340	-	-	1220	-	-	1190	-	-	1080	-	-	1200	-	-	1180	-	-	1040	1.08 J	-	1130	-	-								
Perfluoro-2-methoxyacetic acid (PFMOAA)	674-13-5	X		0.427 ¹	0.283 ¹	-	-	0.52 ¹	-	-	306 ²	300 ²	-	-	246 ²	-	-	348 ²	-	-	366 ²	-	-	359 ²	-	-	405 ²	-	-	370 ²	-	-	434 ²	-	-	442 ²	-	-	340 ²	-	-	315 ²	-	-								
Perfluoro-2-methoxypropanoic acid (PFMOPra)	377-73-1	X		858 ¹	627 ¹	-	-	843 ¹	-	-	2940 ²	2870 ²	-	-	2260 ²	-	-	3110 ²	-	-	3030 ²	-	-	2210 ²	-	-	2520 ²	-	-	1880 ²	-	-	2520 ²	3.83 ²	-	2870 ²	9.22 ²	-	2440 ²	28.2 ²	-	2300 ²	-	-								
Perfluoro-4-methoxybutanoic acid (PFMOBA)	863090-89-5	X		146 ¹	101 ¹	-	-	148 ¹	-	-	791 ²	905 ²	-	-	698 ²	-	-	888 ²	-	-	866 ²	-	-	685 ²	-	-	747 ²	-	-	664 ²	-	-	686 ²	-	-	794 ²	-	-	707 ²	2.40 J ²	-	582 ²	-	-								
Perfluoro-(3,5-dioxahexanoic acid) (PFO2HxA)	39492-88-1	X		198 ¹	87.5 ¹	-	-	194 ¹	-	-	345 ²	388 ²	-	-	323 ²	-	-	459 ²	-	-	398 ²	-	-	362 ²	-	-	407 ²	1.34 J ²	-	398 ²	-	-	365 ²	-	-	406 ²	-	-	369 ²	-	-	371 ²	-	-								
Perfluoro-(3,5,7-trioxaoctanoic acid) (PFO3OA)	39492-89-2	X		30.6 ¹	12.4 ¹	-	-	32.6 ¹	-	-	76.5 ²	-	-	79.5 ²	-	-	91.2 J ²	-	-	87.4 ²	-	-	89.0 J ²	-	-	102 ²	-	-	91.3 J ²	-	-	69.8 ²	-	-	82.9 ²	-	-	71.7 ²	-	-	71.9 ²	-	-									
Perfluoro-(3,5,7,9-tetraoxadecanoic acid) (PFO4DA)	39492-90-5	X		8.26 ¹	3.34 ¹	-	-	8.88 ¹	-	-	29.7 ²	24.9 ²	-	-	23.1 ²	-	-	27.3 ²	-	-	21.4 ²	-	-	-	-	-	-	-	-	-	-	19.3 ²	-	-	21.9 ²	-	-	17.2 ²	-	-	19.5 ²	-	-									
Nafion Byproduct 1	29311-67-9	X		-	-	-	-	3.31 ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Nafion Byproduct 2	749836-20-2	X		89.2 ¹	49.5 ¹	-	-	82.2 ¹	-	-	59.9 ²	57.6 ²	-	-	42.8 ²	-	-	58.3 ²	-	-	61.2 ²	-	-	42.3 J ²	-	-	44.2 J ²	-	-	46.8 J ²	-	-	45 ²	-	-	50.3 ²	-	-	42.5 ²	-	-	45.1 ²	-	-								
Perfluoro-butane sulfonate (PFBS)	375-73-5			0.911 J	-	-	-	1.03 J	-	-	0.881 J	0.793 J	-	-	0.853 J	-	-	0.840 J	-	-	0.865 J	-	-	0.856 J	-	-	0.789 J	-	-	1.07 J	-	-	0.963 J	-	-	0.927 J	-	-	0.806 J	-	-	0.797 J	-	-								
Perfluoro-butyric acid (PFBA)	375-22-4			21.2	14.3	-	-	19.1	-	-	-	-	-	-	-	-	-	-	-	17.8 J	-	-	17.9 J	-	-	-	-	15.8 J	-	-	16.4 J	-	-	16.4 J	-	-	17.3 J	-	-	-	-	-										
Perfluoro-pentanoic acid (PFPeA)	2706-90-3			17.5	10.6	-	-	15.4	-	-	14	13.4	-	-	13.2	-	-	14.5	-	-	16.2	-	-	19.7 J	-	-	-	17.2 J	-	-	15.8	-	-	13.3	-	-	13.5	-	-	13.6	-	-										
Perfluoro-pentane sulfonate (PFPeS)	2706-91-4			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Perfluoro-hexanesulfonate (PFHxS)	355-46-4			0.666 J	-	-	-	0.723 J	-	-	-	-	-	-	-	-	0.627 J	-	-	-	-	-	0.653 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Perfluoro-hexanoic acid (PFHxA)	307-24-4			3.79	2.00	-	-	2.93	-	-	2.64	2.65	-	-	2.57	-	-	2.57	-	-	2.73	-	-	3.1	-	-	2.45	-	-	3.2	-	-	2.83	-	-	3.21	-	-	2.46	-	-	2.65	-	-								
Perfluoro-heptanesulfonate (PFHpS)	375-92-8			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Perfluoro-heptanoic acid (PFHpA)	375-85-9			2.58	1.42 J	-	-	2.37	-	-	2.02	2.05	-	-	1.87 J	-	-	2.28	-	-	2.41	-	-	2.48	-	-	1.63 J	-	-	2.06	-	-	2.34	-	-	2.52	-	-	1.47 J	-	-	2.24	-	-								
Perfluorooctane sulfonate (PFOS)	1763-23-1			-	-	-	-	1.65 J	-	-	1.40 J	-	-	-	-	-	0.992 J	-	-	1.12 J	-	-	-	-	-	-	0.927 J	-	-	-	-	-	-	-	-	-	0.745 J	-	-	-	-	-										
Perfluoro-octanoic acid (PFOA)	335-67-1			4.86	2.46	-	-	4.77	-	-	4.48	3.91	-	-	3.95	-	-	4.07	-	-	5.42	-	-	4.38	-	-	4.07	-	-	3.95	-	-	4.25	-	-	4.4	-	-	3.91	-	-	3.95	-	-								
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			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
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