

Indoor sampling at location 71 of the granular activated carbon (GAC) pilot study.

Comparison of samples collected by Baron & Budd law firm representatives and DEQ staff and analyzed for GenX and PFAS chemicals.

Sampler:		Baron & Budd			DEQ		
Sample Description:		GAC 71 Influent	GAC 71 Effluent	Location 71 Indoor Hot	Location 71 Indoor Cold	Location 71 Indoor Hot	Location 71 Indoor Flushed Hot
Sample Collection Date:		8/30/2018	8/30/2018	8/30/2018	9/25/2018	9/25/2018	9/25/2018
PFAS Chemical Name	CASN	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	1060	-	185	59.1	120	134
Perfluoro- 2-methoxyacetic acid (PFMOAA)	674-13-5	326	-	112	69.4	84.4	96.6
Perfluoro- 3-methoxy- propanoic acid (PFMOPrA)	377-73-1	1190	-	340	170	320	351
Perfluoro-4-methoxy- butanoic acid (PFMOBA)	863090-89-5	316	-	117	36.0	75.9	81.4
Perfluoro- (3,5-dioxahexanoic) acid (PFO2HxA)	39492-88-1	294	-	125	63.6	77.6	95.8
Perfluoro- (3,5,7-trioxaoctanoic) acid (PFO3OA)	39492-89-2	60.4	-	10.9	4.88	6.36	6.65
Perfluoro- (3,5,7,9- tetraoxadecanoic) acid (PFO4DA)	39492-90-5	16.8	-	-	-	-	-
Nafion Byproduct 1	29311-67-9	-	-	-	-	-	-
Nafion Byproduct 2	749836-20-2	27.6	-	1.64	-	-	-
Perfluoro- butane- sulfonate (PFBS)	375-73-5	2.56	-	-	-	-	-
Perfluoro- butyric acid (PFBA)	375-22-4	13.7	-	7.48	2.92	4.74	4.95
Perfluoro- pentanoic acid (PFPeA)	2706-90-3	21.2	-	7.99	2.82	4.51	4.73
Perfluoro- pentane- sulfonate (PFPeS)	2706-91-4	-	-	-	-	-	-
Perfluoro- hexanesulfonate (PFHxS)	355-46-4	3.14	-	-	-	-	-
Perfluoro- hexanoic acid (PFHxA)	307-24-4	7.73	-	1.74 J	-	0.674 J	0.609 J
Perfluoro- heptanesulfonate (PFHpS)	375-92-8	-	-	-	-	-	-
Perfluoro- heptanoic acid (PFHpA)	375-85-9	4.37	-	-	-	-	-
Perfluorooctane- sulfonate (PFOS)	1763-23-1	1.17	-	-	-	-	-
Perfluoro- octanoic acid (PFOA)	335-67-1	9.62	-	-	-	-	-
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	-	-	-	-	-	-

Sample Description = The GAC pilot study location ID # identifies the property where the sample was taken. 'Influent' sample is untreated well water entering the GAC system. 'Effluent' sample is finished drinking water that has been treated by the GAC system. 'Indoor' water samples were taken after water was treated by the GAC system and after water flowed through the plumbing infrastructure in the house. Samples taken by DEQ include: 'Cold' samples were taken first and are unflushed samples from the cold water lines; 'Hot' samples were taken second and are unflushed samples from the hot water lines; and 'Hot Flushed' samples were taken third after flushing the hot water lines for 2-3 minutes.

PFAS = Per- and polyfluoroalkyl substances.

CASN = Chemical abstracts service number.

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

- = Not detected at the reporting limit.

J = Estimated concentration is higher than the detection limit but lower than the reporting limit.