

Expanded PFAS Analysis on DEQ-
Collected Private Wells Associated with
Chemours-Fayetteville

PFAS	2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid (PFPrOPrA, "GenX")	Perfluorooctanesulfonate (PFOS)	Perfluoro- octanoic acid (PFOA)	Perfluoro- 2-methoxyacetic acid (PFMOAA)	Perfluoro- (3,5-dioxahexanoic) acid (PFO2HxA)	Perfluoro- 3-methoxypropanoic acid (PFMOPrA)	Perfluoro- butanesulfonate (PFBS)	Perfluoro- butyric acid (PFBA)	Perfluoro- (3,5,7-trioxaoctanoic) acid (PFO3OA)	Perfluoro-4-methoxy- butanic acid (PFMOBA)	Perfluoro-pentanesulfonate (PFPeS)	Perfluoro-pentanoic acid (PFPeA)		
CASN	13252-13-6	1763-23-1	335-67-1	674-13-5	39492-88-1	377-73-1	375-73-5	375-22-4	39492-89-2	863090-89-5	2706-91-4	2706-90-3		
Chemical Formula	C6HF11O3	C8HF17O3S	C8HF15O2	C3HF5O3	C4HF7O4	C4HF7O3	C4HF9O3S	C4HF7O2	C5HF9O5	C5HF9O3	C5HF11O3S	C5HF9O2		
Estimated Concentration *				X	X	X			X	X				
DEQ Location No.	Collection date	units												
2	9/19/2017	ng/L	20.8	ND	ND	ND	1.61	6.55	ND	ND	ND	ND	ND	
3	9/20/2017	ng/L	55.2	ND	ND	ND	5.70	18.3	ND	ND	ND	1.73	ND	ND
4A	9/18/2017	ng/L	243	0.760 J	3.42	0.368	108	199	41.5	6.69	16.6	43.1	ND	7.83
4B	9/18/2017	ng/L	273	0.781 J	3.59	0.350	120	214	46.9	7.05	15.9	45.2	ND	8.68
5	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	9/21/2017	ng/L	343	0.974 J	ND	0.268	72.2	180	2.13	6.37	7.30	34.6	ND	7.11
9	9/15/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	9/19/2017	ng/L	133	ND	ND	ND	38.0	66.1	ND	4.37	6.68	10.7	ND	6.05
14	9/15/2017	ng/L	176	ND	0.739 J	ND	53.2	83.2	0.700 J	4.8	ND	15.9	ND	6.41
15	9/15/2017	ng/L	6.43	ND	ND	ND	1.06	4.88	ND	ND	ND	0.455	ND	ND
15R	9/29/2017	ng/L	4.73	ND	ND	ND	0.929	4.14	ND	ND	ND	0.397	ND	ND
16	9/19/2017	ng/L	41.0	ND	ND	ND	3.09	18.8	ND	0.818 J	ND	1.16	ND	0.862 J
31	9/19/2017	ng/L	7.79	ND	ND	ND	0.333	5.75	ND	ND	ND	0.349	ND	ND
32	9/21/2017	ng/L	132	2.71	2.40	ND	57.5	161	4.18	7.82	14.6	18.2	ND	4.50
35	9/18/2017	ng/L	453	19.5	12.4	0.289	149	210	0.687 J	11.4	55.6	50.2	ND	6.70
38	9/19/2017	ng/L	1030	ND	5.03	0.642	209	299	2.93	20.2	60.6	67.7	1.83 J	14.4
39	9/20/2017	ng/L	643	ND	3.97	0.455	210	253	1.22 J	25.2	101	62.0	ND	13.1
42	9/18/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.584	ND	ND
71	11/7/2017	ng/L	1160	0.835 J	5.75	0.728	167	ND	2.22	14.7	38.8	45.4	ND	20.7
71-duplicate	11/7/2017	ng/L	1170	0.814 J	6.43	0.711	167	ND	2.09	15.3	39.0	46.9	ND	20.8
75 - pre-filter	12/20/2017	ng/L	845	1.02 J	14.5	0.405	148	294	1.51 J	13.7	26.4	61.0	1.86 U	16.2

BOLD = GenX concentration greater than or equal to the NC DHHS July 2017 GenX Provisional Drinking Water Health Goal of 140 ng/L GenX

The USEPA 2016 Drinking Water Health Advisory Level for PFOS, PFOA or (PFOS + PFOA) = 70 ng/L

PFAS = per- and poly-fluorinated alkyl substances

CASN = the Chemical Abstract Number

ND = Not Detected, sample reporting limits (RLs) in the range of approximately 1.6 - 4.6 ng/L

* "X" indicates the reported PFAS concentration is estimated and was quantified from the GenX calibration curve because an authentic calibration standard for this PFAS was not available at the time of the analysis

ng/L = nanograms per liter, or "parts-per-trillion"

U = PFAS not detected at the indicated sample-specific analyte reporting limit concentration

J = estimated concentration reported at less than the sample-specific analyte reporting limit concentration

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PFAS	Fluorotelomer sulfonate 4:2 (4:2 FTS)	Perfluoro-hexanesulfonate (PFHxS)	Perfluoro-hexanoic acid (PFHxA)	Nafion Byproduct 1	Nafion Byproduct 2	Perfluoro-heptanesulfonate (PFHpS)	Perfluoro-heptanoic acid (PFHpA)	Fluorotelomer sulfonate 6:2 (6:2 FTS)	Perfluoro-octane-sulfonamide (PFOSA)	Perfluoro-nonane-sulfonate (PFNS)	Perfluoro-nonanoic acid (PFNA)
CASN	757124-72-4	355-46-4	307-24-4	29311-67-9	749836-20-2	375-92-8	375-85-9	27619-97-2	754-91-6	68259-12-1	375-95-1
Chemical Formula	C6H5F9O3S	C6HF13O3S	C6HF11O2	C7HF13SO5	C7H2F14SO5	C7HF15O3S	C7HF13O2	C8H5F13O3S	C8H2F17NO2S	C9HF19O3S	C9HF17O2
Estimated Concentration *				X	X						

DEQ Location No.	Collection date	units	Fluorotelomer sulfonate 4:2 (4:2 FTS)	Perfluoro-hexanesulfonate (PFHxS)	Perfluoro-hexanoic acid (PFHxA)	Nafion Byproduct 1	Nafion Byproduct 2	Perfluoro-heptanesulfonate (PFHpS)	Perfluoro-heptanoic acid (PFHpA)	Fluorotelomer sulfonate 6:2 (6:2 FTS)	Perfluoro-octane-sulfonamide (PFOSA)	Perfluoro-nonane-sulfonate (PFNS)	Perfluoro-nonanoic acid (PFNA)
2	9/19/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4A	9/18/2017	ng/L	ND	4.92	2.91	0.411	41.9	ND	1.73 J	ND	ND	ND	ND
4B	9/18/2017	ng/L	ND	5.74	3.16	0.482	46.4	ND	2.01	ND	ND	ND	ND
5	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	9/21/2017	ng/L	ND	ND	1.89	ND	2.53	ND	ND	ND	ND	ND	ND
9	9/15/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	9/19/2017	ng/L	ND	ND	1.72 J	ND	9.14	ND	0.627 J	ND	ND	ND	ND
14	9/15/2017	ng/L	ND	0.652 J	2.05	ND	22.5	ND	0.958 J	6.70	ND	ND	ND
15	9/15/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	7.60	ND	ND	ND
15R	9/29/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	9/19/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	9/19/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	9/21/2017	ng/L	ND	0.812 J	1.49 J	0.405	69.3	ND	1.25 J	ND	ND	ND	ND
35	9/18/2017	ng/L	ND	ND	2.53	0.359	125	0.909 J	3.44	ND	ND	ND	ND
38	9/19/2017	ng/L	ND	4.74	5.50	1.40	36.8	ND	4.91	ND	ND	ND	ND
39	9/20/2017	ng/L	ND	1.24 J	3.84	0.915	60.6	ND	3.74	ND	ND	ND	ND
42	9/18/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
71	11/7/2017	ng/L	ND	1.77	6.84	1.52	43.5	ND	3.51	ND	ND	ND	ND
71 - duplicate	11/7/2017	ng/L	ND	1.94	7.11	1.47	46.1	ND	3.59	ND	ND	ND	ND
75 - pre-filter	12/20/2017	ng/L	3.72 U	0.819 J	4.73	ND	48.5	1.88 U	2.88	3.76 U	1.84 U	1.90 U	1.98 U

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PFAS	Perfluoro- (3,5,7,9-tetraoxadecanoic acid (PFO4DA)	Perfluoro- decanoic acid (PFDA)	N-methylperfluoro- 1-octane-sulfon- amidoacetic acid (N-MeFOSAA)	Perfluoro- undecanoic acid (PFUdA)	N-ethylperfluoro- 1-octane-sulfon-amidoacetic acid (N-EtFOSAA)	Perfluoro- dodecanoic acid (PFDoA)	Perfluoro- tridecanoic acid (PFTrDA)	Perfluoro- tetradecanoic acid (PFTeDA)		
CASN	39108-34-4	39492-90-5	335-77-3	335-76-2	2355-31-9	2058-94-8	2991-50-6	307-55-1	72629-94-8	376-06-7
Chemical Formula	C10H5F17O3S	C10H7F11O6	C10HF21O3S	C10GF19O2	C11H6F17NO4S	C11HF21O2	C12H8F17NO4S	C12HF23O2	C13HF25O2	C14HF27O2
Estimated Concentration *	X									

DEQ Location No.	Collection date	units	Perfluoro- (3,5,7,9-tetraoxadecanoic acid (PFO4DA)	Perfluoro- decanoic acid (PFDA)	N-methylperfluoro- 1-octane-sulfon- amidoacetic acid (N-MeFOSAA)	Perfluoro- undecanoic acid (PFUdA)	N-ethylperfluoro- 1-octane-sulfon-amidoacetic acid (N-EtFOSAA)	Perfluoro- dodecanoic acid (PFDoA)	Perfluoro- tridecanoic acid (PFTrDA)	Perfluoro- tetradecanoic acid (PFTeDA)
2	9/19/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
3	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
4A	9/18/2017	ng/L	ND	4.98	ND	ND	ND	ND	ND	ND
4B	9/18/2017	ng/L	ND	4.34	ND	ND	ND	ND	ND	ND
5	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
6	9/20/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
8	9/21/2017	ng/L	ND	0.347	ND	ND	ND	1.30 J	ND	ND
9	9/15/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
13	9/19/2017	ng/L	ND	0.741	ND	ND	ND	ND	ND	ND
14	9/15/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
15	9/15/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
15R	9/29/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
16	9/19/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
31	9/19/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
32	9/21/2017	ng/L	ND	6.35	ND	ND	ND	ND	ND	ND
35	9/18/2017	ng/L	ND	49.5	ND	ND	ND	ND	ND	ND
38	9/19/2017	ng/L	ND	30.7	ND	ND	ND	ND	ND	ND
39	9/20/2017	ng/L	ND	35.0	ND	ND	ND	ND	ND	ND
42	9/18/2017	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
71	11/7/2017	ng/L	ND	9.86	ND	ND	ND	ND	ND	ND
71-duplicate	11/7/2017	ng/L	ND	10.2	ND	ND	ND	ND	ND	ND
75 - pre-filter	12/20/2017	ng/L	3.80 U	12.8	1.92 U	1.98 U	3.95 U	1.98 U	1.98 U	1.98 U