

Aquarion Water Company of New Hampshire
Results of Perfluorocarbon Samples from Wells, 2014 - 2017

9/20/2017

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Sample Date	Perfluorooctanoic acid PFOA	Perfluorooctane-sulfonate PFOS	Total PFOA + PFOS	Perfluoroheptanoic acid PFHpA	Perfluorobutane-sulfonate PFBS	Perfluorohexane-sulfonate PFHxS	Perfluorononanoic acid PFNA	Perfluorohexanoic acid PFHxA	Total PFCs	Comments
Well 5A										
15-Sep-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	6 PFCs tested
10-Mar-2015	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	6 PFCs tested
25-Jul-2016	4	ND < 10 ppt	4	1	ND < 10	ND < 10 ppt	ND < 2 ppt	2	7	12 PFCs tested
6-Jun-2017	2	3	5	0.7	1	ND < 3 ppt	ND < 2 ppt	0.8	7.5	14 PFCs tested
1-Aug-2017	2.44	3.05	5.49	ND < 4 ppt	ND < 4 ppt	1.25	ND < 4 ppt	ND < 4 ppt	6.74	14 PFCs tested
24-Aug-2017	3.25	2.96	6.21	ND < 4.37	ND < 4.37	2.02	ND < 4.37	ND < 4.37	8.23	14 PFCs tested
Well 7										
15-Sep-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
11-Mar-2015	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
25-Jul-2016	3	ND < 10 ppt	3	1	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	1	5	
6-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	
1-Aug-2017	1.77	2.64	4.41	ND < 4 ppt	ND < 4 ppt	1.58	ND < 4 ppt	ND < 4 ppt	5.99	
24-Aug-2017	2.47	ND < 4.31	2.47	ND < 4.31	ND < 4.31	1.39	ND < 4.31	ND < 4.31	3.86	
Well 14										
15-Jun-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
11-Mar-2015	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
25-Jul-2016	4	ND < 10 ppt	4	2	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	3	9	
6-Jun-2017	4	3	7	2	2	1	ND < 2 ppt	3	15	
1-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	
24-Aug-2017	4.38	3.21	7.59	0.747	3.87	1.51	ND < 4.34	ND < 4.34	13.717	
MILL ROAD WELLS										
Well 6										
16-Sep-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
14-Apr-2015	ND < 20 ppt	ND < 40 ppt	ND	12	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	12	
25-Jul-2016	6	ND < 10 ppt	6	4	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	10	20	
6-Jun-2017	20	5	25	16	4	4	1	38	88	
1-Aug-2017	17.9	6.11	24.01	8.6	2.65	3.71	ND < 4 ppt	25.1	64.07	
24-Aug-2017	22.3	4.25	26.55	12.5	4.24	3.16	ND < 4.44	30.2	76.65	sample tap; well off-line since 8/14/17
24-Aug-2017	19.5	4.98	24.48	11.4	3.60	3.87	ND < 4.19	28.2	71.55	yard hydrant; well off-line since 8/14/17
Well 8A										
16-Sep-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	Wells 8A and 20
7-Apr-2015	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	Wells 8A and 20
25-Jul-2016	2	ND < 10 ppt	2	1	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	1	4	Well 8A alone
6-Jun-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	
1-Aug-2017	1.35	1.96	3.31	ND < 4 ppt	ND < 4 ppt	2.41	ND < 4 ppt	ND < 4 ppt	5.72	Well 8A alone
24-Aug-2017	4.46	2.00	6.46	ND < 4.24	ND < 4.24	2.11	ND < 4.24	ND < 4.24	8.57	
Well 20										
25-Jul-2016	1	ND < 10 ppt	1	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	ND < 2 ppt	1	
24-Aug-2017	1.45	ND < 4.38	1.45	ND < 4.38	ND < 4.38	1.85	ND < 4.38	ND < 4.38	3.30	
Well 21										
25-Jul-2016	ND < 2 ppt	ND < 10 ppt	ND	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	ND < 2 ppt	ND	

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Sample Date	Perfluorooctanoic acid PFOA	Perfluorooctane-sulfonate PFOS	Total PFOA + PFOS	Perfluoroheptanoic acid PFHpA	Perfluorobutane-sulfonate PFBS	Perfluorohexane-sulfonate PFHxS	Perfluorononanoic acid PFNA	Perfluorohexanoic acid PFHxA	Total PFCs	Comments
Well 9										
16-Sep-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
10-Mar-2015	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
25-Jul-2016	3	ND < 10 ppt	3	1	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	3	7	
6-Jun-2017	5	3	8	2	2	1	0.6	3	16.6	
1-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	
24-Aug-2017	4.46	3.18	7.64	ND < 4.32	ND < 4.32	1.51	ND < 4.32	ND < 4.32	9.15	
Well 11										
16-Sep-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
10-Mar-2015	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	
25-Jul-2016	3	ND < 10 ppt	3	1	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	4	8	
6-Jun-2017	6	2	8	4	2	2	ND < 2 ppt	8	24	
1-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	
24-Aug-2017	3.13	2.33	5.46	ND < 4.28	ND < 4.28	1.71	ND < 4.28	ND < 4.28	7.17	
Mill Road Distribution System Mill Road Tank, Hampton										
1-Aug-2017	4.08	3.27	7.35	ND < 4 ppt	ND < 4 ppt	1.9	ND < 4 ppt	ND < 4 ppt	9.25	Blend of Mill Road Wells
28-Aug-2017	3.72	1.36	5.08	2.39	1.71	1.12	ND < 2.05	5.05	15.35	Well 6 off-line since 8/14/17
WINNICUT ROAD WELLS										
Well 10										
25-Jul-2016	1	ND < 10 ppt	1	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	ND < 2 ppt	1	
28-Aug-2017	ND < 4.24	ND < 4.24	ND	ND < 4.24	ND < 4.24	ND < 4.24	ND < 4.24	ND < 4.24	ND	
Well 12										
25-Jul-2016	2	ND < 10 ppt	2	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	1	3	
28-Aug-2017	ND < 4.26	1.12	1.12	ND < 4.26	ND < 4.26	1.43	ND < 4.26	ND < 4.26	2.55	
Well 13B										
25-Jul-2016	1	ND < 10 ppt	1	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	ND < 2 ppt	1	
28-Aug-2017	ND < 4.43	ND < 4.43	ND	ND < 4.43	ND < 4.43	ND < 4.43	ND < 4.43	ND < 4.43	ND	
Well 16										
25-Jul-2016	3	ND < 10 ppt	3	1	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	2	6	
28-Aug-2017	2.79	0.922	3.712	ND < 4.18	3.23	ND < 4.18	ND < 4.18	4.00	10.942	
Well 17										
25-Jul-2016	2	ND < 10 ppt	2	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	1	3	
Well 18										
25-Jul-2016	1	ND < 10 ppt	1	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	ND < 2 ppt	1	
Well 19										
25-Jul-2016	ND < 2 ppt	ND < 10 ppt	ND	ND < 2 ppt	ND < 10 ppt	ND < 10 ppt	ND < 2 ppt	ND < 2 ppt	ND	
28-Aug-2017	13.5	ND < 4.26	13.5	ND < 4.26	ND < 4.26	1.11	ND < 4.26	ND < 4.26	14.61	

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Winnicut Wells Blend										
16-Sep-2014	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	Wells 10, 12, 13B, 16, 17, 18 & 19
10-Mar-2015	ND < 20 ppt	ND < 40 ppt	ND	ND < 10 ppt	ND < 90 ppt	ND < 30 ppt	ND < 20 ppt	NT	ND	Wells 10, 12, 13B, 16, 17, 18 & 19
25-Jul-2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	
7-Jun-2017	2	ND < 6 ppt	2	ND < 2 ppt	1	ND < 3 ppt	ND < 2 ppt	0.9	3.9	Wells 10, 12, 13B, 16, 17, 18 & 19
1-Aug-2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	
28-Aug-2017	1.50	0.936	2.436	0.493	1.16	0.604	ND < 2.01	1.15	5.843	
Well #7 Area Distribution System 20 Birch Road, Hampton										
1-Aug-2017	2.94	2.17	5.11	ND < 4 ppt	ND < 4 ppt	1.8	ND < 4 ppt	ND < 4 ppt	6.91	Near Well 7
Tide Mill PRV Distribution Point										
28-Aug-17	2.61	1.63	4.24	1.08	1.46	0.793	ND < 2.04	1.99	9.563	
Exeter Road Tank Distribution Point										
28-Aug-17	2.38	1.88	4.26	1.09	1.43	0.806	ND < 2.07	2.65	10.236	

PFCs Not Detected In Any Sample:

Perfluorodecanoic acid
 Perfluoroundecanoic acid
 Perfluorododecanoic acid

Perfluorotridecanoic acid
 Perfluorotetradecanoic acid
 N-ethyl-heptadecafluorooctanesulfonamidoacetic acid
 N-methyl-perfluorooctanesulfonamidoacetic acid