



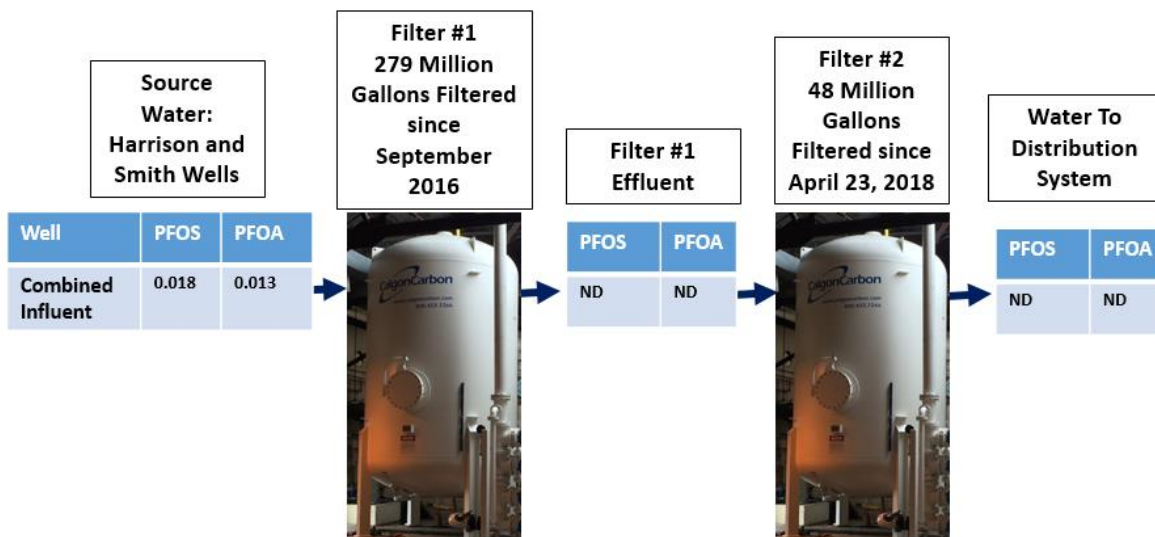
July 30, 2018

PEASE TRADEPORT WATER SUPPLY UPDATE

Demonstration Filter Performance

The City's engineering consultant continues to sample the performance of the activated carbon filters based on the amount of water treated. The graphic below shows the most recent source water sampling and treated filter water quality results for the PFOS and PFOA.

Pease Tradeport Water System
Activated Carbon Treatment
Demonstration Project Sampling:
July 18, 2018 Results



Notes: All samples in parts-per-billion (ppb)

ND = Non Detect

All samples collected by Weston & Sampson and analyzed by Maxxam Laboratory

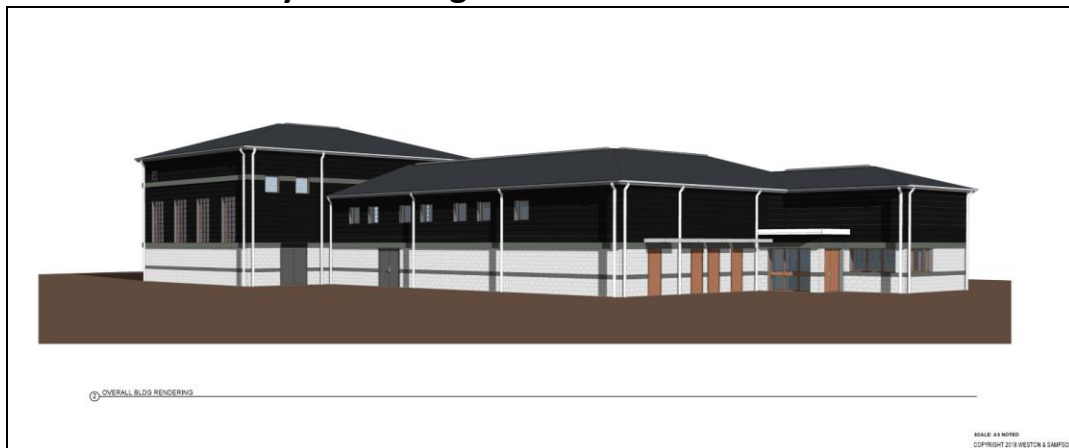
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The activated carbon demonstration filters for the Harrison and Smith wells have been on line since September 2016. As of July 18, 2018, 279 million gallons of water from these two wells has been treated through the activated carbon F400 Calgon Filtrasorb Filter media in Filter Number 1. New carbon was installed on Filter Number 2 during the week of March 26, 2018 due to sample result trends showing that some of the 23 PFAS compounds being sampled were beginning to pass through the first filter. This was an early indicator that the filter media was starting to reach its useful life. Based on other operating systems like ours this is what we expected to see. These filters are in series so currently any compound that passes through the first filter is captured by the second filter prior to water going into the drinking water system. In order to continue the demonstration project and to also assure treatment of the PFAS compounds, the City proposed changing out Filter Number 2 with new carbon and to keep the existing media in Filter Number 1 to assess long-term treatment and use of the carbon.

Demonstration Project Sample Data

All samples collected are analyzed by Maxxam laboratories, the same laboratory that has been performing the Pease well PFC analysis since 2014. Data for the Pease Well sampling is uploaded to the City's website when it is validated by the Air Force's consultant and sent to the City. A summary of the data for the Pease Well Carbon Treatment Demonstration Project is provided on the City's website.

Final Treatment System Design



Rendering of Proposed Drinking Water Treatment Facility Upgrade – Grafton Road

The City of Portsmouth and the United States Air Force entered into an agreement on August 8, 2017 to continue design efforts for the final treatment system for all three Pease Tradeport wells. After piloting the Resin Filters and presenting this information to the Air Force, they agreed to modify our treatment design to include both resin and carbon filtration for PFAS treatment. Design utilizing those parameters continues. We anticipate the design will be completed by the end of the summer in 2018 with bidding and construction to commence in late 2018 or early 2019.

Review of Other Municipal Water Systems Treating PFAS Compounds

The City's engineering consultant has been gathering information on drinking water systems located across the country that are dealing with Per- and Polyfluoroalkyl Substances (PFAS) contamination of their water supplies. Preliminary findings of their assessment were summarized in the City's April 2018 Pease Tradeport Water Supply Update. Updated information is anticipated soon and will be posted when the report is complete.

ONGOING WATER QUALITY MONITORING AND UPDATES

The Air Force's consultant continues to perform routine sampling of the water supply wells in the Pease water system. In addition to these water supply wells, the Air Force's consultant samples other monitoring wells in the surrounding area to track the aquifer and monitor for any PFAS moving toward the supply wells. Currently, with the demonstration filters on line, the supply wells are sampled monthly and eleven monitoring wells are sampled quarterly. Sampling data is posted on the City's website once it has been validated by the Air Force's engineering consultant. Information is also posted on the City's website for the City of Portsmouth's PFAS sampling program.

The City's updated website now has specific pages dedicated to the Pease Tradeport and Portsmouth Water System PFAS information:

www.cityofportsmouth.com/publicworks/water/pease-tradeport-water-system

www.cityofportsmouth.com/publicworks/water/portsmouth-water-system-pfas-update

EPA HEALTH ADVISORY

In May 2016, the EPA issued new health advisories of 0.070 µg/L (micrograms per liter) for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). The Smith and Harrison wells that supply the Pease Tradeport Water System have combined levels PFOA and PFOS that have consistently been below this limit since sampling began in 2014.

Additional information can be accessed at:

www.cityofportsmouth.com/publicworks/water/pease-tradeport-water-system

or by calling Al Pratt, Water Resources Manager, at: 603-520-0622 or Brian Goetz, Deputy Director of Public Works at: 603-766-1420

Table 1
Summary of PFC Analytical Results
Demonstration Project
Former Pease Air Force Base, New Hampshire

Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDOA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA		
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	0.07		
Method Detection Limit (MDL)						0.0065	0.0055	0.0053	0.0049	0.0040	0.0061	0.0019	0.0066	0.0043	0.0066	0.0057	0.0036	0.0047	0.0040	0.0046	0.0053	0.0046	0.0058	0.0033	0.0036	0.0052	0.0032	0.0037			
Reported Detection Limit (RDL)						0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
Harrison Well	13-Sep-16	---	---	---	---	ND	ND	NA	NA	NA	NA	0.0029 B	ND	NA	NA	NA	ND	ND	0.0260 B	0.0071 J	0.006 J	ND	ND	0.022 B	0.008 B	NA	NA	NA	0.028		
Smith Well	19-Sep-16	---	---	---	---	ND	ND	NA	NA	NA	NA	0.0072 J	0.0067 J	NA	NA	NA	ND	ND	0.0150 J	0.0053 J	0.006 J	ND	ND	0.013 J	0.007 J	NA	NA	NA	0.019 J		
Harrison Well	26-Sep-16	1	249	1	248	ND	ND	NA	NA	NA	NA	0.0040 J	ND	NA	NA	NA	0.0042 J	ND	0.0340	0.0100 J	ND	ND	ND	0.024	0.014 J	NA	NA	NA	0.024		
Smith Well	26-Sep-16	1	249	1	248	ND	ND	NA	NA	NA	NA	0.0029 J	ND	NA	NA	NA	0.0036 J	ND	0.0140 J	0.0050 J	ND	ND	ND	0.010 J	0.008 J	NA	NA	NA	0.010 J		
Harrison Well	19-Oct-16	6	1,238	6	1,149	ND	ND	NA	NA	NA	NA	0.0038 J	0.0069 J	NA	NA	NA	ND	0.0057 J	0.0320	0.0059 J	ND	ND	ND	0.022	0.009 J	NA	NA	NA	0.022		
Smith Well	19-Oct-16	6	1,238	6	1,149	ND	ND	NA	NA	NA	NA	0.0035 J	ND	NA	NA	NA	ND	ND	0.0130 J	ND	ND	ND	ND	0.010 J	0.005 J	NA	NA	NA	0.010 J		
Harrison Well	17-Nov-16	18	3,358	17	3,269	ND	ND	NA	NA	NA	NA	0.0026 J	0.0072 J	NA	NA	NA	ND	0.0059 J	0.0350	0.0085 J	0.006 J	ND	ND	0.026	0.013 J	NA	NA	NA	0.032		
Smith Well	17-Nov-16	18	3,358	17	3,269	ND	ND	NA	NA	NA	NA	0.0020 J	ND	NA	NA	NA	ND	ND	0.0140 J	ND	ND	ND	ND	0.011 J	0.008 J	NA	NA	NA	0.011 J		
Harrison Well	14-Dec-16	24	4,491	23	4,402	ND	ND	NA	NA	NA	NA	0.0062 J	0.0068 J	NA	NA	NA	ND	ND	0.0350	0.0120 J	0.0078 J	ND	ND	0.026	0.012 J	NA	NA	NA	0.034		
Smith Well	14-Dec-16	24	4,491	23	4,402	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0150 J	0.0065 J	ND	ND	ND	0.012 J	0.0059 J	NA	NA	NA	0.012 J		
Smith Well (Dup)	14-Dec-16	24	4,491	23	4,402	ND	ND	NA	NA	NA	NA	0.0055 J	ND	NA	NA	NA	ND	ND	0.0150 J	0.0057 J	ND	ND	ND	0.012 J	0.006 J	NA	NA	NA	0.012 J		
Harrison Well	11-Jan-17	31	5,845	30	5,809	ND	ND	NA	NA	NA	NA	0.0090 J	0.008 J	NA	NA	NA	ND	0.006 J	0.0380	0.0180 J	0.009 J	ND	ND	0.024	0.0160 J	NA	NA	NA	0.033		
Smith Well	11-Jan-17	31	5,845	30	5,809	ND	ND	NA	NA	NA	NA	0.0080 J	ND	NA	NA	NA	ND	ND	0.0170	0.0100 J	ND	ND	ND	0.012 J	0.0080 J	NA	NA	NA	0.012 J		
Harrison Well	17-Feb-17	39	7,388	38	7,299	ND	ND	NA	NA	NA	NA	0.0020 J	ND	NA	NA	NA	ND	ND	0.0360	0.0060 J	0.009 J	ND	ND	0.027	0.0130 J	NA	NA	NA	0.036		
Smith Well	17-Feb-17	39	7,388	38	7,299	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0100 J	ND	ND	ND	ND	0.013 J	0.0070 J	NA	NA	NA	0.013 J		
Harrison Well	23-Mar-17	50	9,568	50	9,479	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0270	0.0052 J	ND	ND	ND	0.0210	0.0095 J	NA	NA	NA	0.021		
Smith Well	23-Mar-17	50	9,568	50	9,479	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0093 J	ND	ND	ND	ND	0.0072 J	ND	NA	NA	NA	0.007 J		
Filter 2 Effluent	22-Sep-16	0	70	0	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	#####	
Filter 1 - 25%	06-Oct-16	3	646	3	557	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	#####	
Filter 2 Effluent	06-Oct-16	3	646	3	557	ND	ND	ND	ND	0.0065 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	14-Oct-16	5	996	5	907	ND	ND	ND	ND	ND	ND	0.0022 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	14-Oct-16	5	996	5	907	ND	ND	ND	ND	ND	ND	0.0021 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	14-Oct-16	5	996	5	907	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	20-Oct-16	7	1,325	6	1,236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	20-Oct-16	7	1,325	6	1,236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	20-Oct-16	7	1,325	6	1,236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	28-Oct-16	10	2,002	10	1,913	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0082 J	ND	ND	ND	0.0062 J	ND	0.0052 J	ND	ND	ND	ND	ND	0.0082 J	0.0084 J	ND	
Filter 1 Effluent	28-Oct-16	10	2,002	10	1,913	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0049 J	ND	ND	ND	ND	0.0078 J	0.0081 J	ND	ND	
Filter 2 Effluent	28-Oct-16	10	2,002	10	1,913	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0040 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	10-Nov-16	16	3,066	16	2,977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	10-Nov-16	16	3,066	16	2,977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	28-Nov-16	20	3,795	19	3,706	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	28-Nov-16	20	3,795	19	3,706	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	27-Dec-16	27	5,143	26	5,054	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	27-Dec-16	27	5,143	26	5,054	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	16-Jan-17	32	6,056	31	5,967	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	16-Jan-17	32	6,056	31	5,967	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	10-Feb-17	37	7,117	37	7,028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	10-Feb-17	37	7,117	37	7,028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

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Demonstration Project
Former Pease Air Force Base, New Hampshire

Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnA)	PFOA+PFOS	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	-	0.07
Filter 1 - 25%	07-Mar-17	43	8,206	43	8,117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	07-Mar-17	43	8,206	43	8,117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	20-Mar-17	48	9,235	48	9,146	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	20-Mar-17	48	9,235	48	9,146	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	27-Mar-17	52	9,886	51	9,797	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 50%	27-Mar-17	52	9,886	51	9,797	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	27-Mar-17	52	9,886	51	9,797	ND	ND	0.0097 J	ND	ND	0.0052 J	ND	ND	ND	ND	ND	ND	ND	0.0056 J	ND	0.0068 J	ND	ND	0.0036 J	ND	ND	0.0033 J	ND	0.0036 J	
Filter 1 Effluent Rerun	27-Mar-17	52	9,886	51	9,797	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	12-Apr-17	60	11,362	59	11,273	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	12-Apr-17	60	11,362	59	11,273	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	21-Apr-17	64	12,273	64	12,184	ND	ND	ND	ND	ND	ND	ND	0.0068 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND
Filter 1 Effluent	21-Apr-17	64	12,273	64	12,184	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0052 J	ND	ND	ND	ND	0.0052 J
Filter 1 Effluent	21-Apr-17	64	12,273	64	12,184	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	24-Apr-17	66	12,521	65	12,432	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0064 J	0.0049 J	ND	ND	0.0150 J	0.0053 J	ND	ND	ND	0.0199 J	
Filter 1 - 25%	01-May-17	69	13,169	69	13,079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	01-May-17	69	13,169	69	13,079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	01-May-17	69	13,169	69	13,079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	ND	0.0040 J	0.0270	0.0087 J	0.0081 J	ND	ND	0.0190 J	0.0084 J	ND	ND	ND	0.0271
Filter 1 - 25%	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	ND
Filter 1 Effluent	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0055 J	0.0280	0.0072 J	0.0088 J	ND	ND	0.0230	0.0089 J	ND	ND	ND	0.0318
Filter 1 - 25%	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0048 J	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	02-Jun-17	85	16,282	85	16,193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0280	0.0090 J	0.0081 J	ND	ND	0.0200 J	0.0077 J	ND	ND	ND	0.0281	
Filter 1 - 25%	02-Jun-17	85	16,282	85	16,193	ND	ND	0.0089 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	02-Jun-17	85	16,282	85	16,193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	02-Jun-17	85	16,282	85	16,193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0230	0.0063 J	0.0055 J	ND	ND	0.0190 J	0.0068 J	ND	ND	ND	0.0245	
Filter 1 - 25%	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0052 J	ND	ND	ND	ND
Filter 1 Effluent	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0280	0.0080 J	ND	ND	ND	0.0170 J	0.0086 J	ND	ND	ND	0.0170 J	
Filter 1 - 25%	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065 J	ND	ND	ND	ND
Filter 1 Effluent	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0058 J	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	07-Jul-17	104	19,916	104	19,827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0110 J	0.0064 J	ND	ND	0.0210	0.0085 J	ND	ND	ND	0.0274	
Filter 1 - 25%	07-Jul-17	104	19,916	104	19,827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND
Filter 1 - 50%	07-Jul-17	104	19,916	104	19,827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	07-Jul-17	104	19,916	104	19,827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	07-Jul-17	104	19,916	104	19,827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	19-Jul-17	112	21,313	111	21,224	Sample damaged during shipping; analysis not possible.																								

Table 1
Summary of PFC Analytical Results
Demonstration Project
Former Pease Air Force Base, New Hampshire

Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDOA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	-	0.07
Filter 1 - 25%	19-Jul-17	112	21,313	111	21,224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0052 J	ND	ND	ND	ND
Filter 1 Effluent	19-Jul-17	112	21,313	111	21,224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	19-Jul-17	112	21,313	111	21,224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0034 J	0.0250	0.0076 J	ND	ND	ND	0.0130 J	0.0073 J	ND	ND	ND	0.0130 J	
Filter 1 - 25%	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0038 J	ND	ND	ND	ND	0.0062 J	ND	ND	ND	ND	
Filter 1 Effluent	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	0.0047 J	ND	ND	ND	ND	ND	ND	0.0049 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	ND	ND	ND	0.0036 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0300	0.0099 J	0.0077 J	ND	ND	ND	0.0190 J	0.0120 J	ND	ND	ND	0.0267	
Filter 1 - 25%	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	0.0092 J	ND	ND	ND	ND	
Filter 1 Effluent	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0310	0.0120 J	0.0140 J	ND	ND	ND	0.0240	0.0130 J	ND	ND	ND	0.0380	
Filter 1 - 25%	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	0.0110 J	ND	ND	ND	ND	ND	0.0140 J	ND	ND	ND	ND	
Filter 1 - 50%	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0068 J	ND	ND	ND	ND	
Filter 1 Effluent	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0170 J	ND	ND	ND	ND	ND	
Combined Raw	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0066 J	0.0310	0.0130 J	ND	ND	ND	0.0190 J	ND	ND	ND	ND	0.0190 J	
Filter 1 - 25%	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053 J	ND	ND	ND	ND	
Filter 1 Effluent	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0410	0.0088 J	0.0087 J	ND	ND	ND	0.0210	0.0130 J	ND	ND	ND	0.0297	
Filter 1 - 25%	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065 J	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	
Filter 1 - 50%	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0042 J	0.0340	0.0098 J	0.0069 J	ND	ND	0.0220	0.0140 J	ND	ND	ND	0.0289	
Filter 1 - 25%	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0062 J	0.0064 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	
Filter 1 - 50%	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 75%	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0075 J	0.0065 J	ND	ND	ND	0.0130 J	0.0078 J	ND	ND	ND	0.0195 J	
Filter 1 - 25%	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0088 J	0.0075 J	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	
Filter 1 - 50%	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	ND	
Filter 1 Effluent	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	
Filter 2 Effluent	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	02-Oct-17	157	29,951	156	29,861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0110 J	0.0340	0.0110 J	0.0130 J	ND	ND	0.0210	0.0150 J	ND	ND	ND	0.0340	
Filter 1 - 25%	02-Oct-17	157	29,951	156	29,861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0120 J	0.0100 J	ND	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND	
Filter 1 - 50%	02-Oct-17	157	29,951	156	29,861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0140 J	ND	ND	ND	ND	
Filter 1 Effluent	02-Oct-17	157	29,951	156	29,861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	02-Oct-17	157	29,951	156	29,861	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0490	0.0150 J	0.0088 J	ND	ND	ND	0.0250	0.0100 J	ND	ND	ND	0.0338	

Table 1
Summary of PFC Analytical Results
Demonstration Project
Former Pease Air Force Base, New Hampshire

Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOA)	N-Ethyl perfluorooctane sulfonamide (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOA)	N-Methyl Perfluorooctane Sulfonamide (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	-	0.07
Filter 1 - 25%	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0048 J	0.0038 J	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND	
Filter 1 - 50%	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0098 J	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	
Filter 1 - 75%	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0042 J	ND	ND	ND	ND	
Filter 1 Effluent	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0058 J	ND	ND	ND	ND	
Filter 2 Effluent	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0089 J	0.0470	0.0140 J	0.0110 J	ND	ND	0.0280	0.0150 J	ND	ND	ND	0.0390	
Filter 1 - 25%	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0076 J	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND	
Filter 1 - 50%	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0095 J	ND	ND	ND	ND	
Filter 1 - 75%	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0330	0.0093 J	0.0110 J	ND	ND	0.0190	ND	ND	ND	ND	0.0300	
Filter 1 - 25%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 75%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	0.0057 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	0.0056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0330	0.0043 J	0.0055 J	ND	ND	0.0120 J	ND	ND	ND	ND	0.0175 J	
Filter 1 - 25%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0056 J	0.0037 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 75%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0086 J	ND	ND	ND	ND	ND	ND	0.0330	0.0140 J	0.0083 J	ND	ND	0.0160 J	0.0120 J	ND	ND	ND	0.0243	
Filter 1 - 25%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0090 J	ND	ND	ND	ND	ND	ND	0.0100 J	0.0130 J	0.0047 J	ND	ND	ND	ND	0.0140 J	ND	ND	ND	0.0047 J
Filter 1 - 50%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0091 J	ND	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	0.0130 J	ND	ND	ND	ND	
Filter 1 - 75%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	
Filter 1 Effluent	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	
Filter 2 - 25%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 75%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	0.0095 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0057 J	0.0056 J	ND	ND	ND	ND	ND	0.0160 J	0.0076 J	0.0059 J	ND	ND	0.0110 J	ND	ND	ND	ND	0.0169 J	
Filter 1 - 25%	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0059 J	0.0056 J	ND	ND	ND	ND	ND	0.0100 J	0.0110 J	0.0042 J	ND	ND	ND	ND	0.0100 J	ND	ND	ND	0.0042 J
Filter 1 - 50%	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0058 J	ND	ND	ND	ND	ND	ND	ND	0.0088 J	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	
Filter 1 - 75%	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	ND	ND	ND	0.0054 J	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 2 - 50%	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0097 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 75%	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0098 J	ND	ND	ND	ND	0.0076 J	ND	ND	ND	ND	0.0076 J	
Filter 1 - 25%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Table 1
Summary of PFC Analytical Results
Demonstration Project
Former Pease Air Force Base, New Hampshire

Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnA)	PFOA+PFOS		
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	-	0.07	
Filter 1 - 75%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 100%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	0.0084 J	0.0110 J	0.0400	0.0150 J	0.0055 J	ND	ND	0.0130 J	0.0130 J	ND	ND	ND	0.0185 J		
Filter 1 - 25%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0064 J	ND	ND	ND	ND	0.0081 J	0.0120 J	0.0130 J	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 50%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	ND	ND	0.0088 J	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 75%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	ND	ND	0.0041 J	ND	ND	ND	ND	ND	0.0098 J	ND	ND	ND	ND	
Filter 1 - 100%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	ND	ND	0.0048 J	ND	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND	
Filter 2 - 50%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0074 J	0.0350	0.0110 J	0.0085 J	ND	ND	0.0170 J	0.0110 J	ND	ND	ND	0.0255 J		
Filter 1 - 25%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	ND	ND	0.0120 J	0.0120 J	0.0051 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	0.0051 J	
Filter 1 - 50%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	0.0110 J	ND	0.0140 J	ND	0.0084 J	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	0.0140 J	ND	ND	ND	ND	
Filter 1 - 75%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	ND	0.0088 J	0.0038 J	ND	ND	ND	ND	0.0160 J	ND	ND	ND	0.0038 J	
Filter 1 - 100%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	ND	ND	0.0043 J	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	
Filter 2 - 50%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	0.0082 J	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	ND	0.0047 J	ND	ND	ND	ND	ND	0.0084 J	ND	ND	ND	ND	
Filter 2 - 100%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0460	0.0160 J	0.0095 J	ND	ND	0.0180 J	0.0150 J	ND	ND	ND	0.0275 J		
Filter 1 - 25%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0130 J	0.0130 J	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 50%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 75%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	
Filter 1 - 100%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0390	0.0083 J	ND	ND	ND	0.0130 J	0.0095 J	ND	ND	ND	0.0130 J		
Filter 1 - 25%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0110 J	0.0056 J	ND	ND	ND	ND	ND	0.0097 J	ND	ND	ND	ND	
Filter 1 - 50%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0050 J	ND	ND	ND	ND	0.0080 J	ND	ND	ND	ND	ND	
Filter 1 - 75%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0077 J	ND	ND	ND	ND	ND	
Filter 1 - 100%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	0.0060 J	ND	ND	ND	ND	0.0086 J	0.0480	0.0160 J	0.0130 J	ND	ND	0.0210	0.0150 J	ND	ND	ND	0.0340 J		
Filter 1 - 25%	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	0.0061 J	ND	ND	ND	ND	ND	0.0210	0.0140 J	0.0066 J	ND	ND	ND	0.0150 J	ND	ND	ND	ND	0.0066 J	
Filter 1 - 50%	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	0.0068 J	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND	ND	
Filter 1 - 75%	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	ND	
Filter 1 - 100%	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	0.0076 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	
Filter 2 - 50%	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0180 J	ND	ND	ND	ND	0.0099 J	0.0430	0.0170 J	0.0150 J	ND	ND	0.0200	0.0190 J	ND	ND	ND	0.0350 J		
Filter 1 - 25%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	0.0270	0.0150 J	0.0091 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0091 J		
Filter 1 - 50%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	0.0100 J	0.0130 J	0.0067 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0067 J		
Filter 1 - 75%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	ND	0.0180 J	ND	ND	ND	ND	ND	

Table 1
Summary of PFC Analytical Results
Demonstration Project
Former Pease Air Force Base, New Hampshire

Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOA)	N-Ethyl perfluorooctane sulfonamide (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOA)	N-Methyl Perfluorooctane Sulfonamide (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	-	0.07
Filter 1 - 100%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND	
Filter 2 - 50%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0430	0.0130 J	0.0049 J	ND	ND	0.0200 J	0.0140 J	ND	ND	ND	0.0249 J	
Filter 1 - 25%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0140 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	
Filter 1 - 50%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0068 J	0.0120 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	
Filter 1 - 75%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 100%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	
Filter 2 - 50%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	0.0055 J	0.0093 J	ND	ND	ND	ND	0.0100 J	0.0440	0.0160 J	0.0130 J	ND	ND	0.0250	0.0160 J	ND	ND	ND	0.0380 J	
Filter 1 - 25%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	0.0055 J	0.0092 J	ND	ND	ND	ND	0.0088 J	0.0290	0.0150 J	0.0100 J	ND	ND	0.0120 J	0.0160 J	ND	ND	ND	0.0220 J	
Filter 1 - 50%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	0.0080 J	0.0150 J	0.0150 J	0.0071 J	ND	ND	ND	0.0160 J	ND	ND	ND	0.0071 J	
Filter 1 - 75%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	0.0095 J	ND	ND	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	0.0170 J	ND	ND	ND	ND	
Filter 1 - 100%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND	
Filter 2 - 50%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	28-Jun-18	267	51,030	36	6,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0340	0.0097 J	0.0085 J	ND	ND	0.0170 J	0.0096 J	ND	ND	ND	0.0255 J	
Filter 1 - 25%	28-Jun-18	267	51,030	36	6,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0280	0.0110 J	0.0079 J	ND	ND	0.0085 J	0.0110 J	ND	ND	ND	0.0164 J	
Filter 1 - 50%	28-Jun-18	267	51,030	36	6,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0160 J	0.0120 J	0.0051 J	ND	ND	ND	0.0120 J	ND	ND	ND	0.0051 J	
Filter 1 - 75%	28-Jun-18	267	51,030	36	6,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 100%	28-Jun-18	267	51,030	36	6,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0079 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	
Filter 2 - 50%	28-Jun-18	267	51,030	36	6,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	28-Jun-18	267	51,030	36	6,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	11-Jul-18	275	52,440	44	8,310	ND	ND	ND	ND	ND	ND	ND	0.0086 J	ND	ND	ND	ND	0.0089 J	0.0410	0.0170 J	0.0160 J	ND	ND	0.0230	0.0150 J	ND	ND	ND	0.0390 J	
Filter 1 - 25%	11-Jul-18	275	52,440	44	8,310	ND	ND	ND	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND	0.0084 J	0.0310	0.0160 J	0.0130 J	ND	ND	0.0140 J	0.0160 J	ND	ND	ND	0.0270 J	
Filter 1 - 50%	11-Jul-18	275	52,440	44	8,310	ND	ND	ND	ND	ND	ND	0.0055 J	0.0098 J	ND	ND	ND	ND	0.0082 J	0.0190 J	0.0170 J	0.0110 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0110 J	
Filter 1 - 75%	11-Jul-18	275	52,440	44	8,310	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND	
Filter 1 - 100%	11-Jul-18	275	52,440	44	8,310	ND	ND	ND	ND	ND	ND	ND	0.0091 J	ND	ND	ND	ND	ND	0.0058 J	0.0140 J	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND	
Filter 2 - 50%	11-Jul-18	275	52,440	44	8,310	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	11-Jul-18	275	52,440	44	8,310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	0.0061 J	ND	ND	ND	ND	ND	0.0390	0.0140 J	0.0130 J	ND	ND	0.0180 J	0.0140 J	ND	ND	ND	0.0310 J	
Filter 1 - 25%	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	0.0064 J	ND	ND	ND	ND	0.0077 J	0.0310	0.0150 J	0.0110 J	ND	ND	0.0081 J	0.0140 J	ND	ND	ND	0.0191 J	
Filter 1 - 50%	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	0.0066 J	ND	ND	ND	ND	ND	0.0160 J	0.0150 J	0.0075 J	ND	ND	ND	0.0150 J	ND	ND	ND	0.0075 J	
Filter 1 - 100%	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	0.0070 J	ND	ND	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND	
Filter 2 - 25%	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	0.0085 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 75%	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 100%	18-Jul-18	279	53,200	48	9,070	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:
 Grey text indicates the parameter was not analyzed or not detected.
 All concentrations in µg/L - micrograms per liter (ppb)
 J - The result is an estimated value.
 B - Detected in Blank.

USEPA - Environmental Protection Agency
 NA - Not Analyzed or Not Applicable
 ND - Not detected
 - - No Health Advisory available

- Denotes 'B' value, detected in blank
 - Denotes raw water influent sample
 - Denotes short chain compound