



February 6, 2017

PEASE TRADEPORT WATER SUPPLY UPDATE

ACTIVATED CARBON FILTERS – WATER QUALITY MONITORING

The activated carbon demonstration filters for the Harrison and Smith wells have been on line since mid-September 2016. The City’s engineering consultant has been periodically sampling the performance of the filters based on the volume of flow going through the filters. To date, nine sample round results have been received. Results for all nine of those sample rounds have resulted in “non detect” (ND) for PFOS and PFOA. 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 attached. Over 30 million gallons of water has been treated through these filters since they went on line in September. The following table provides a summary of the average filter PFOA and PFOS influent levels based on the Air Force’s sampling, and the effluent concentrations.

Source	PFOA (ppb)	PFOS (ppb)
Average Filter Influent (as of 12/14/2016)	0.003	0.018
Average Filter Effluent (as of 01/16/2017)	Non Detect	Non Detect

ppb = parts per billion

PEASE TRADEPORT WATER SYSTEM AGREEMENT WITH THE UNITED STATES AIR FORCE

The City of Portsmouth, the Pease Development Authority and the United States Air Force recently announced the execution of another agreement to design and treat perfluorochemical compounds (PFCs) from water supplied by the Smith, Harrison and Haven wells. This latest agreement will provide the City with reimbursement for engineering work to further determine the parameters and location of the final water treatment system for all three wells. Additionally, the City’s engineering consultant will perform an analysis of other existing municipal treatment plants currently treating PFCs to better define operating parameters.

This next phase of work will better define the final design and operating parameters necessary for the long-term operation of the Pease Tradeport wells. Information gathered as part of this

process will also be presented to the public in a future forum so that all are aware of the selected technologies and anticipated water quality. This phase of work will take ten weeks, at which time the City intends to meet with the Air Force to discuss the findings and recommendations. A public meeting would follow prior to the commencement of final design.

WATER TREATMENT PILOT TESTING REPORT

The City's engineering consultant recently submitted the testing report for the carbon filtration pilot they performed in 2016. That document can be accessed on the City's website at:
<http://www.cityofportsmouth.com/publicworks/PeaseTradeportWaterSystemWellTreatmentPilotReportFinal.pdf>

ONGOING WATER QUALITY MONITORING

The Air Force's consultant has been performing frequent routine sampling of the water supply wells in the Pease water system since May 2014. The Smith Well was originally sampled weekly for PFCs and the Harrison Well sampled every two weeks. 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 PFCs 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.

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.

The City will continue to work towards the appropriate water quality monitoring and treatment methods to assure that all drinking water is in compliance with current regulations.

Additional information can be accessed at:

<http://www.cityofportsmouth.com/publicworks/phwn.html>

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