



Overview of Testing Results for Perfluorinated Compounds (PFCs) and Follow-On Actions for Naval Weapons Station Earle, Colts Neck, NJ

Navy environmental personnel tested the drinking water produced by the onsite potable wells for a second time on 24 March 2016. Samples were collected from a faucet on the well supply line with a second sample collected inside the main building from the sink. All samples were sent to a DoD-certified laboratory for analysis.

The results of analyses of the potable water samples indicate that the combined concentrations of PFC parameters, Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA), were not detected above their U. S. Environmental Protection Agency (EPA) Health Advisory Levels (HAL) of 70 parts per trillion, or the combined HAL 70 parts per trillion. The HALs are health based concentrations above which action should be taken to reduce exposure to PFOA and PFOS. In addition, the analysis for perfluorononanoic acid (PFNA) indicated this compound was not detected above the NJ DEP Interim Groundwater Quality Standard (IGWQS) of 10 parts per trillion, the applicable health based level for this compound.

A copy of test results is enclosed for your information and presented in Table 1.

Table 1 provides the March 2016 Sampling Results and additional information for each parameter using the following columns; Parameter, Potable Water Analytical Result, EPA HAL or NJ DEP IGWQS Level, Exceeds EPA HAL or NJ DEP IGWQS Level, Units, and Corrective Actions. The Parameter column lists the name and acronym of the parameter tested. The Drinking Water column shows the result of the potable water sampling location. The EPA HAL or NJ DEP IGWQS Level column and the Exceeds EPA HAL or NJ DEP IGWQS Level column confirm whether the results exceeded the parameter's HAL or IGWQS level and if any corrective actions are required. The Corrective Actions column describes immediate actions to reduce exposure, and additional actions to remediate and ensure levels in the drinking water system will remain below the HALs.

In the event that additional follow-on sampling is required, follow-on potable water sampling results will be provided separately at:

http://www.cnrc.navy.mil/regions/cnrma/om/environmental_support/water_quality_information/perfluorinated_compounds_sampling_program/NWS_Earle_MSC_Firefighting_School.html

To learn more about the emerging contaminants, PFOS and PFOA, please see this EPA fact sheet at:

https://www.epa.gov/sites/production/files/2016-06/documents/drinkingwaterhealthadvisories_pfoa_pfos_updated_5.31.16.pdf

To answer any questions you may have on the sampling program contact the NWS Earle Public Affairs Officer at 732-866-2171.

If you have any health questions or concerns, we encourage you to contact your health care provider or our medical representative, Pamela Krahl, at 410-293-1152.

Table 1. March 2016 Sampling Results

Parameter	Potable Water Analytical Result	US EPA HAL or NJ DEP IGWQS	Exceeds EPA HAL Level or NJ DEP IGWQS	Unit	Corrective Actions
Perfluorooctane Sulfonate (PFOS)	1.8 J	70	No	ppt*	As PFOA, PFOS, and PFNA were not detected at concentrations greater than the EPA HAL or NJ DEP IGWQS, no corrective actions are necessary. Due to detections of these compounds in area groundwater, the Navy will monitor drinking water on a routine basis.
Perfluorooctanoic Acid (PFOA)	3.1 J			ppt*	
Perfluorononanoic Acid (PFNA)	1 J	10	No	ppt*	

*1 part per trillion (ppt) = 1 nanogram per liter (ng/L)

J = concentration is estimated

HAL = U.S. EPA Health Advisory Levels (applicable to PFOS/PFOA)

IGWQS = NJ DEP Interim Ground Water Quality Standard (applicable to PFNA)