PISCATAWAY CREEK

AOC-33

Joint Base Andrews April 2022

BACKGROUND

Piscataway Creek forms in the south-central portion of Joint Base Andrews (JBA) and is classified as a receptor under the EPA Hazard Ranking System. {check this—receptor under the HRS?} The creek is not a suspected source of contamination, but rather a receptor from other Environmental Restoration Program (ERP) sites and areas of concern (AOCs). The majority of the flightline, runways, ramps, and aprons are part of the Piscataway Creek watershed. The creek forms directly adjacent to two landfills (LF-06 and LF-07) and directly down-gradient of the former skeet range. Piscataway Creek receives groundwater from the following ERP sites: FT-02, FT-04, LF-06, LF-07/BLNA, SD-23, AOC-26, SS-26, SS-27, and SS-28.

Surface water and sediment sampling data collected from Piscataway Creek during a 2005 Environmental Restoration Account investigation indicated that major contaminants of concern (COCs) were lead and polycyclic aromatic hydrocarbons (PAHs). The source of the COCs was most-likely lead shot from the former skeet range.

Samples collected during the 2018 Site Inspection (SI) of Fire Fighting Foam Usage at Joint Base Andrews indicated the presence of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in the creek. The source of PFOS/PFOA is most likely from the use of aqueous film forming foam at upgradient sites.

CHALLENGES

This site has been validated as a PFOS/PFOA site due to the results of the SI.

PERFORMANCE-BASED APPROACH

In studies conducted prior to the 2018 SI, JBA had determined that maintaining AOC-33 as a separate site was unnecessary and did not conform to the streamlined restoration strategy of the Andrews Performance Enhanced Program for Environmental Restoration.

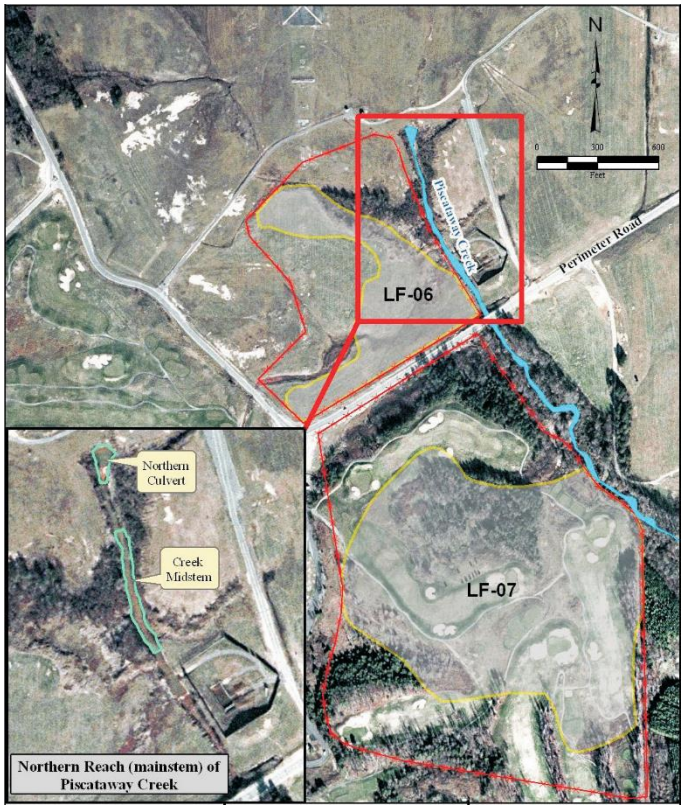

Figure: Piscataway Creek, LF-06 and LF-07

Remedial actions executed on LF-06 included the removal of contaminated sediments (lead and PAHs) from Piscataway Creek. Scoping of the upcoming PFOS/PFOA remedial investigation includes the Piscataway Creek site back into the CERCLA process.

RISK DRIVERS

Contaminants: Lead, PAHs
Impacted Media: Sediment
Completed Exposure Pathways: Potential ecological
Drainage: Piscataway Creek
Current Land Use/Surface Cover: Recreational and open space
Reasonably Anticipated Land Use: Recreational and open space
Relative Risk: NR