

**Joint Base Cape Cod
Cleanup Team /
Restoration Advisory
Board Meeting
16 September 2026**

Fire Training Area-1 PFAS Groundwater Interim Remedial Action Update



**Air Force Civil Engineer
Center (AFCEC) JBCC**



**U.S. Army Corps of
Engineers (USACE)
Baltimore District**

Overview

- Background Information
- Brief Site History
- Explanation of Significant Differences (ESD)
- Fire Training Area (FTA)-1 PFAS Interim Remedial Action (IRA) Construction Areas
 - PFAS = Per- and polyfluoroalkyl substances
- FTA-1 PFAS IRA Construction Update

Background Information

- Work is being completed at the FTA-1 PFAS Site as part of the larger JBCC Optimized Remediation Contract (ORC) to expand the groundwater treatment systems
 - Conducted by the Air Force Civil Engineer Center (AFCEC) at JBCC and U.S. Army Corps of Engineers (USACE) Baltimore District
 - Prime Contractor: EA Engineering, Science, and Technology, PBC (EA)
- Regulatory Agencies
 - Environmental Protection Agency (EPA) Region 1
 - FTA-1 PFAS is part of EPA Operable Unit (OU) #15
 - Massachusetts Department of Environmental Protection (MassDEP)

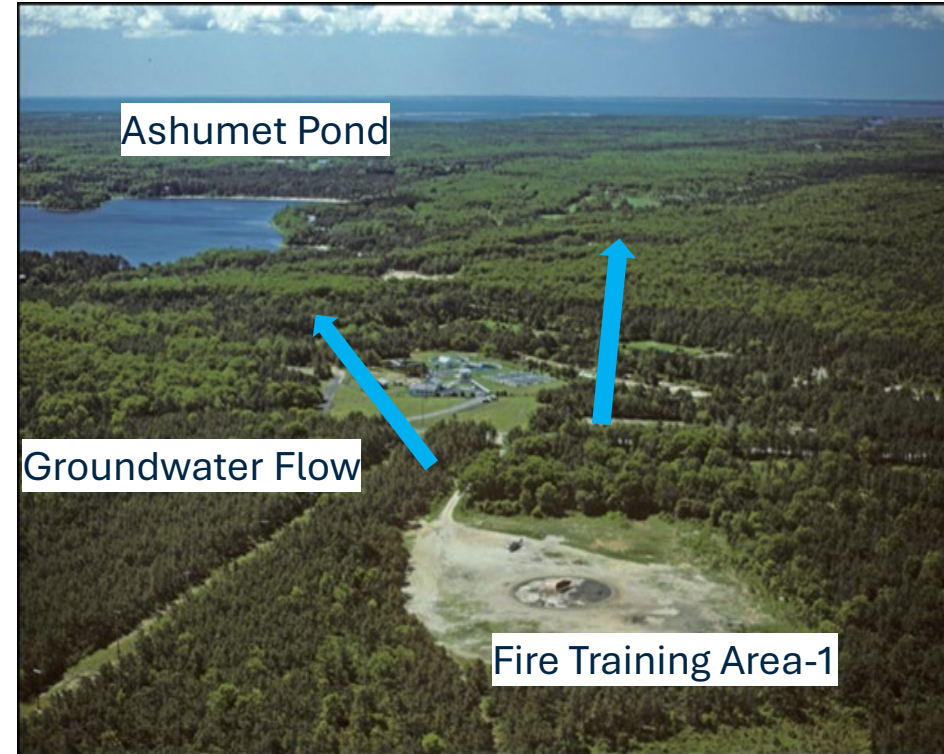
Background Information

- What are per- and polyfluoroalkyl substances (PFAS)?
 - A large class of chemicals found in many consumer products, as well as in industrial products such as certain firefighting agents called aqueous film forming foam (AFFF or “A Triple F”).
 - The known sources of PFAS at JBCC are primarily associated with AFFF discharges to the ground surface.
 - Investigation of PFAS at JBCC began in 2014.

Brief Site History

- The primary source of PFAS to Ashumet Valley (AV) is from FTA-1
 - PFAS plume called “FTA-1” to distinguish it from AV Legacy Site/Plume
 - Note: Legacy contaminants are those being treated at JBCC prior to PFAS, such as the volatile organic compound (VOC) trichloroethylene (TCE)
- FTA-1 operated from 1958 – 1985
 - Use of AFFF with PFAS began in 1970
- Additional AFFF release in 1997
 - AFFF used to suppress a fire during thermal treatment to remove VOC contamination from FTA-1 soil
- PFAS is present in the FTA-1 soils and is an on-going source to groundwater.
- The Remedial Investigation/Feasibility Study (RI/FS) is ongoing and will result in a final remedy in the future.

Brief Site History



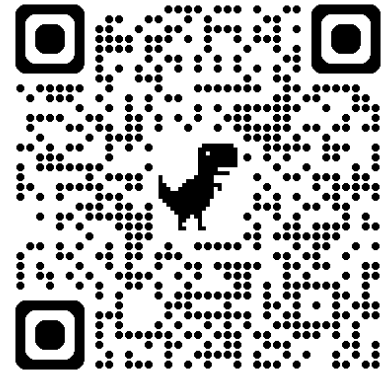
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Explanation of Significant Differences (ESD)

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- Air Force is preparing an ESD to modify the current FTA-1 remedy for legacy contaminants.
- Public Comment Period (May 22 – July 7, 2026)
 - AF currently responding to public comments which will be provided for EPA and MassDEP review
- A copy of the Draft FTA-1 ESD (decision document) has been provided to the main libraries of Falmouth, Mashpee, Sandwich and Bourne and is available online at the following link:
 - <https://jbcc-iagwsp.org/community/public/irp/>
- Among other remedy changes included in the ESD, implementation of active groundwater treatment (pump and treat) is being added in two plume areas as a PFAS interim remedy:
 - FTA-1 PFAS Interim Remedial Action (IRA)

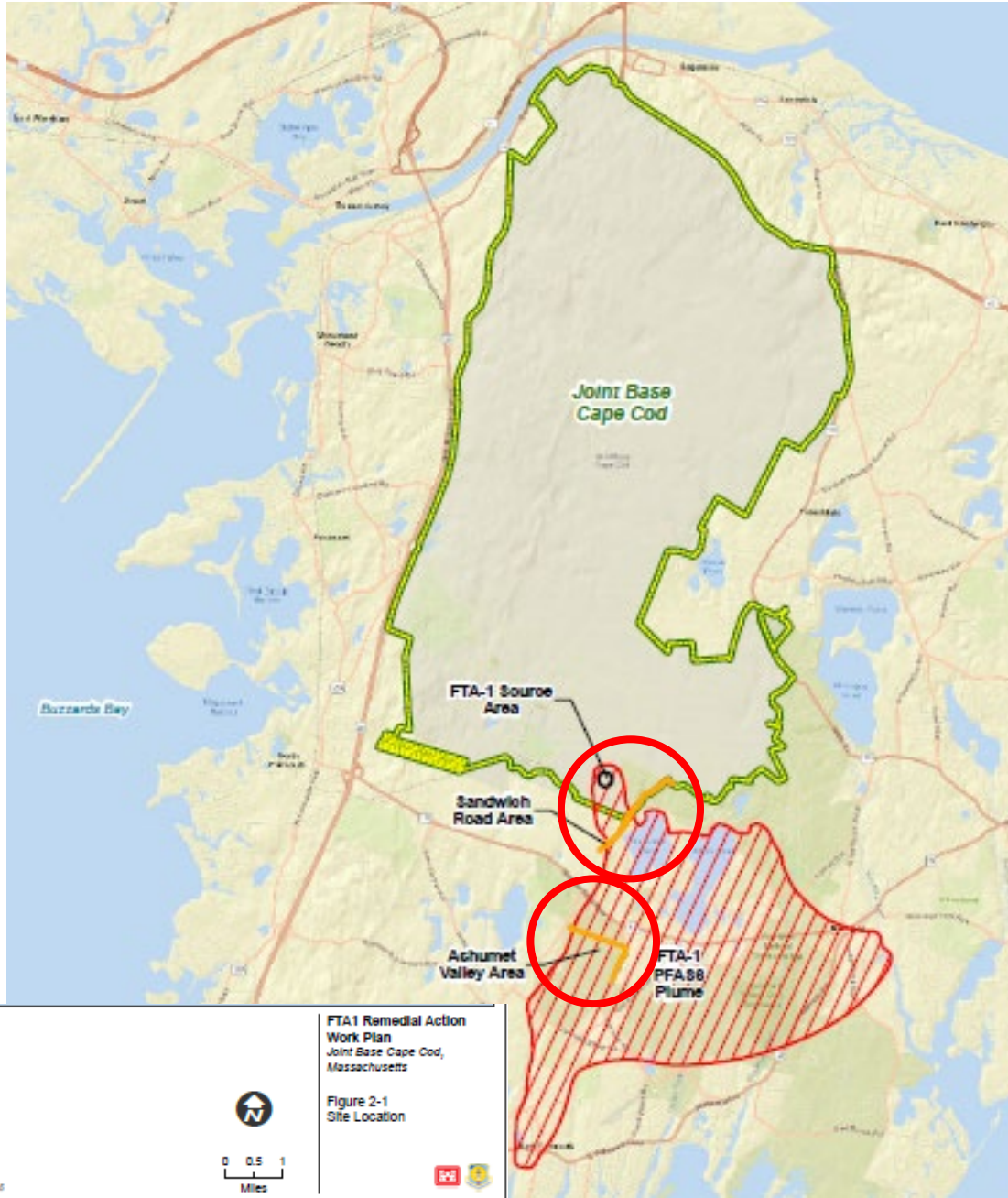


FTA-1 PFAS IRA Construction Areas

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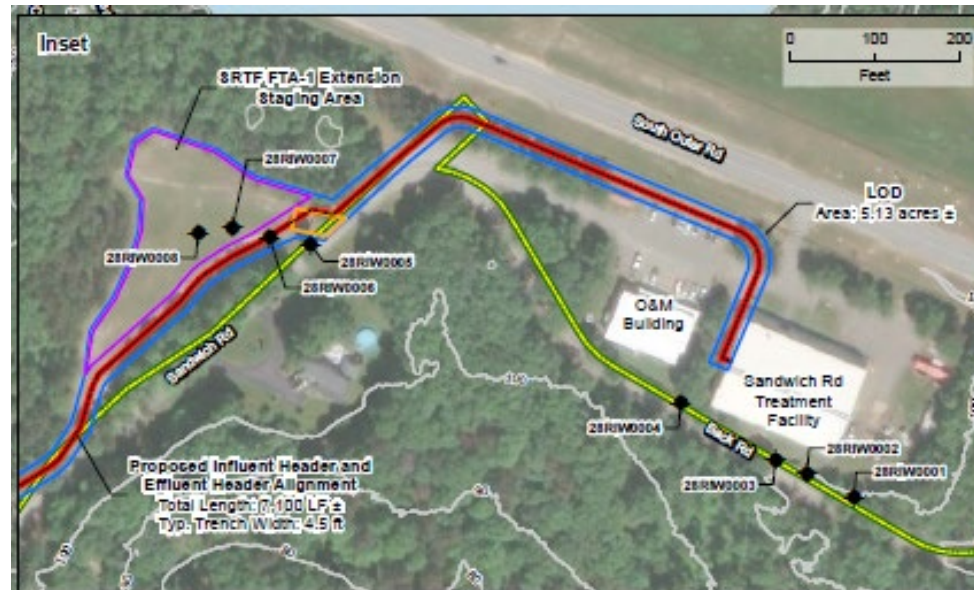
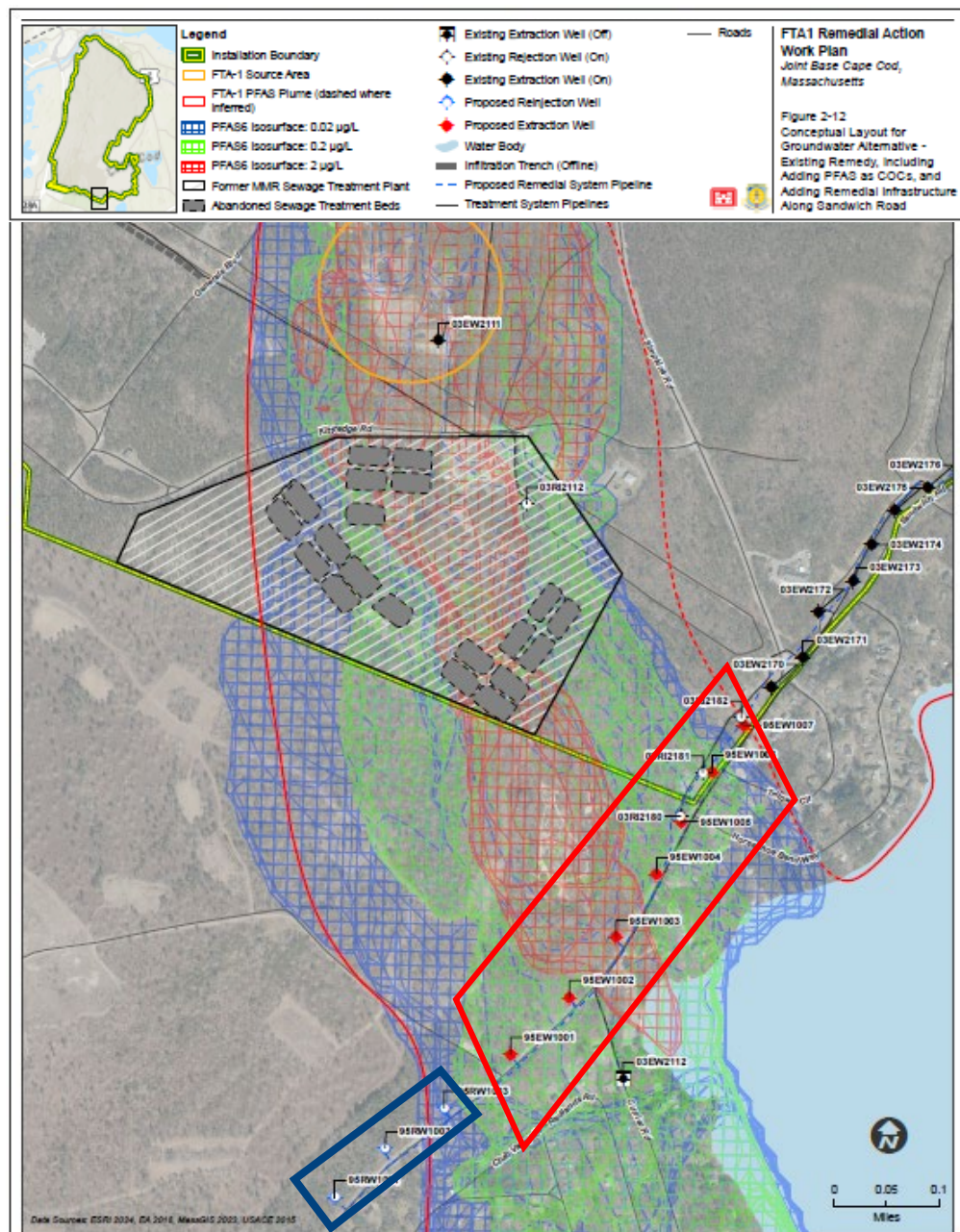
Site Locations:

- Southern portion of JBCC and south of the JBCC installation
- **Sandwich Road Treatment Facility (SRTF)**
 - West of Sandwich Road in Sandwich, Falmouth, and Mashpee, MA
- **Ashumet Valley Plant (AVP)**
 - East of Sandwich Road and west of Currier Road in Falmouth, MA



FTA-1 PFAS IRA Construction Areas

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Sandwich Road Treatment Facility:

- Installation of 7 new extraction wells (red outline) and 3 new reinjection wells (blue outline)
- 6,000 linear feet (LF) of new extraction pipeline and 7,000 LF of reinjection pipeline and conduit
- New electrical power and fiber communication
- Vegetation removal, access road improvement/install along limit of disturbance (required for new wells/pipeline)

Sandwich Road Treatment Facility (continued):

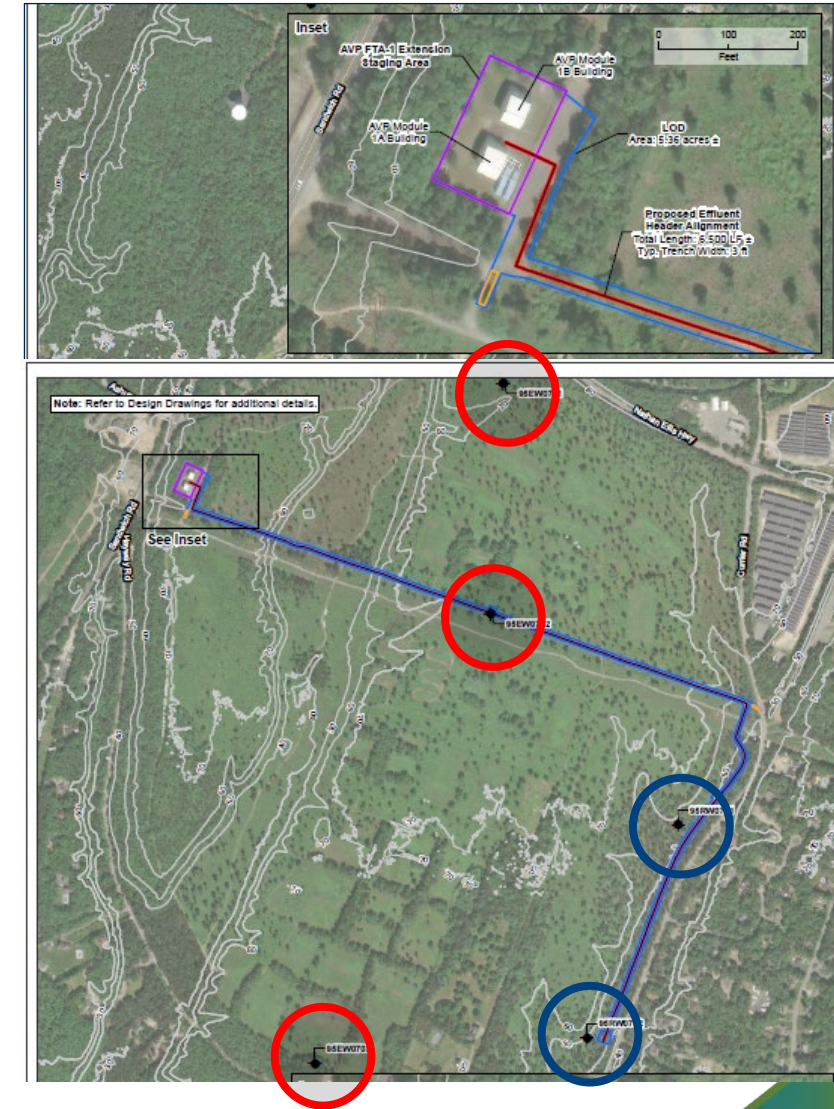
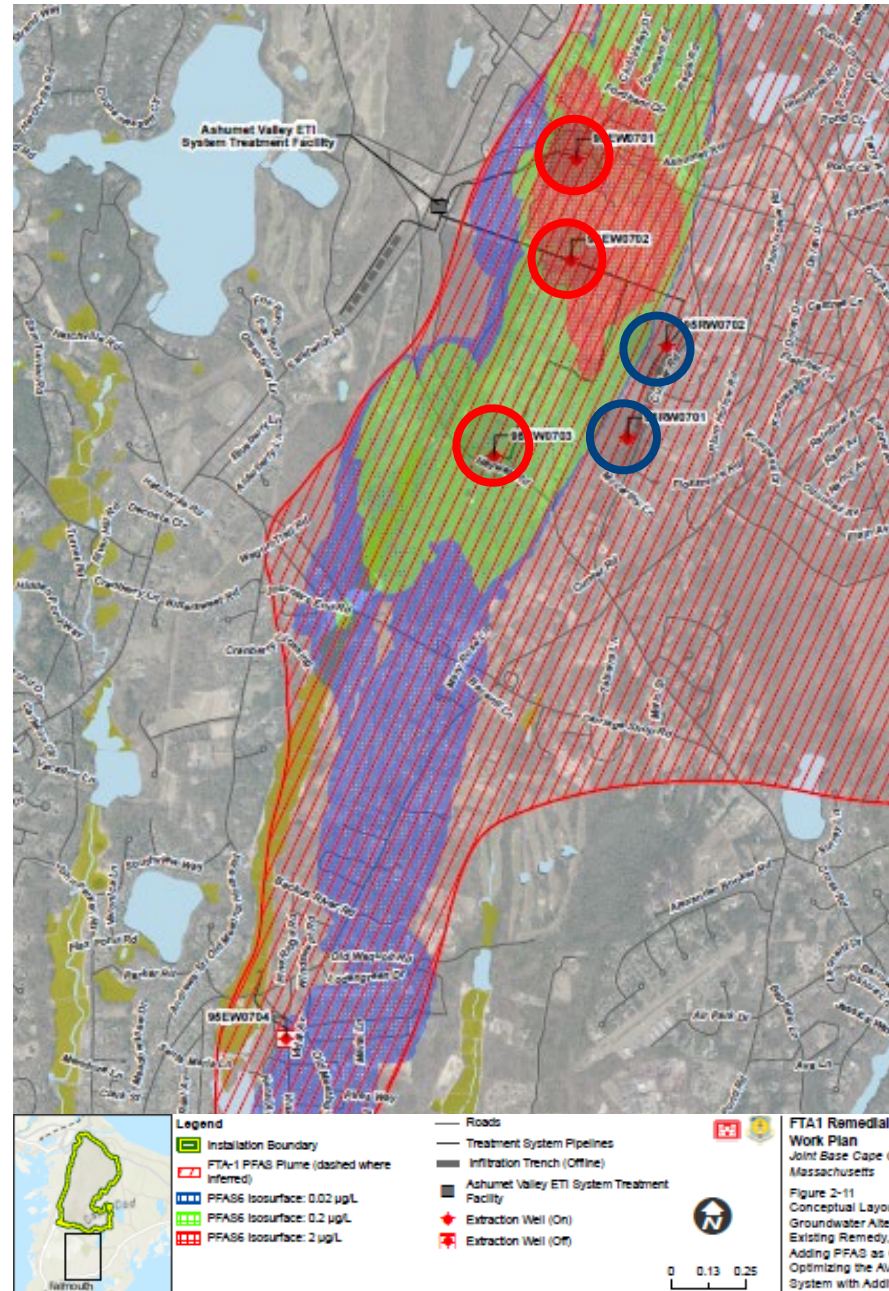
- The SRTF Area is located on a combination of JBCC Installation property, Frances A. Crane Wildlife Management Area (MassWildlife), and land owned by the towns of Sandwich, Falmouth and Mashpee
 - There will be no construction on private land
- There will not be any road closures in the area
 - The only road crossing is at Simpkins Road and access will continue with traffic control during active construction work for pipeline installation below the roadway
 - Construction vehicles will access the area along Falmouth-Sandwich Road through designated construction entrances or directly from SRTF
 - Neighborhood notices submitted before and during work.

FTA-1 PFAS IRA Construction Areas

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Ashumet Valley Plant:

- Installation of 2 new reinjection wells (blue circles) and restart/refurbish 3 existing extraction wells (red circles)
- 6,500 LF of new effluent pipeline and conduit
- Updates to electrical and fiber communication
- Limited vegetation removal and access road improvement along limit of disturbance (required for new wells/pipeline)



Ashumet Valley Plant (continued):

- The Ashumet Valley Plant Area is entirely within the Frances A. Crane Wildlife Management Area in Falmouth
 - There will be no construction on private land
- There will not be any road closures in the area
 - Work will occur to the west of Currier Road with construction vehicles accessing the area from designated construction entrances or directly from AVP
 - Neighborhood notices submitted before and during work.

FTA-1 PFAS IRA Construction Update

- Preliminary Investigation: SRTF & AVP
 - Work began the week of 17 August 2026 and is expected to be completed during the week of 05 October 2026
 - Advance soil borings to collect geotechnical soil data to 70 and 150 feet below ground surface (bgs) using direct-push technology (Geoprobe® drill rig). Collect GW PFAS data from monitoring wells to confirm and refine plume geometry.
 - Will provide the data to finalize extraction and reinjection well design as part of the RD-RAWP (Remedial Design-Remedial Action Work Plan).
- RD-RAWP:
 - USACE and AFCEC has reviewed the draft and updates are in process, EA conducting revisions based on updated design specifications, subcontractor scopes, and results of the Preliminary Investigation.
 - Submittal to EPA/MassDEP for review in Fall 2026.

FTA-1 PFAS IRA Construction Update

- Public Notification:
 - Neighborhood notice(s) will be submitted to local residents by AFCEC prior to start of construction work
- Work Requirements and Sequencing: Construction
 - Vegetation removal, Access Road Improvements, and Erosion and Sediment (E&S) Control Installation
 - Drilling and Extraction/Reinjection Well Installation
 - Trenching, Pipeline and Conduit Installation, and Well Vault Installation
 - Well Infrastructure Installation, Plant Connections (e.g., interior piping), Communication, and Electrical Installation and Connections
 - Site Restoration & System Startup, Shakedown, and Commissioning
- Total Duration of Construction:
 - Approximately 6 months, anticipated start date February/March 2027