

# Air Force Civil Engineer Center

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## Fire Training Area– 1 (FTA-1) PFAS Proposed Groundwater Interim Action

Joint Base Cape Cod  
Cleanup Team Meeting  
10 Apr 2024



# Overview

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- **Background**
  - Ashumet Valley (legacy) Remedy
  - Ashumet Valley/FTA-1 PFAS
- **Proposed FTA-1 PFAS Groundwater Interim Remedy**



# Ashumet Valley Groundwater

COCs: PCE, TCE, manganese, thallium

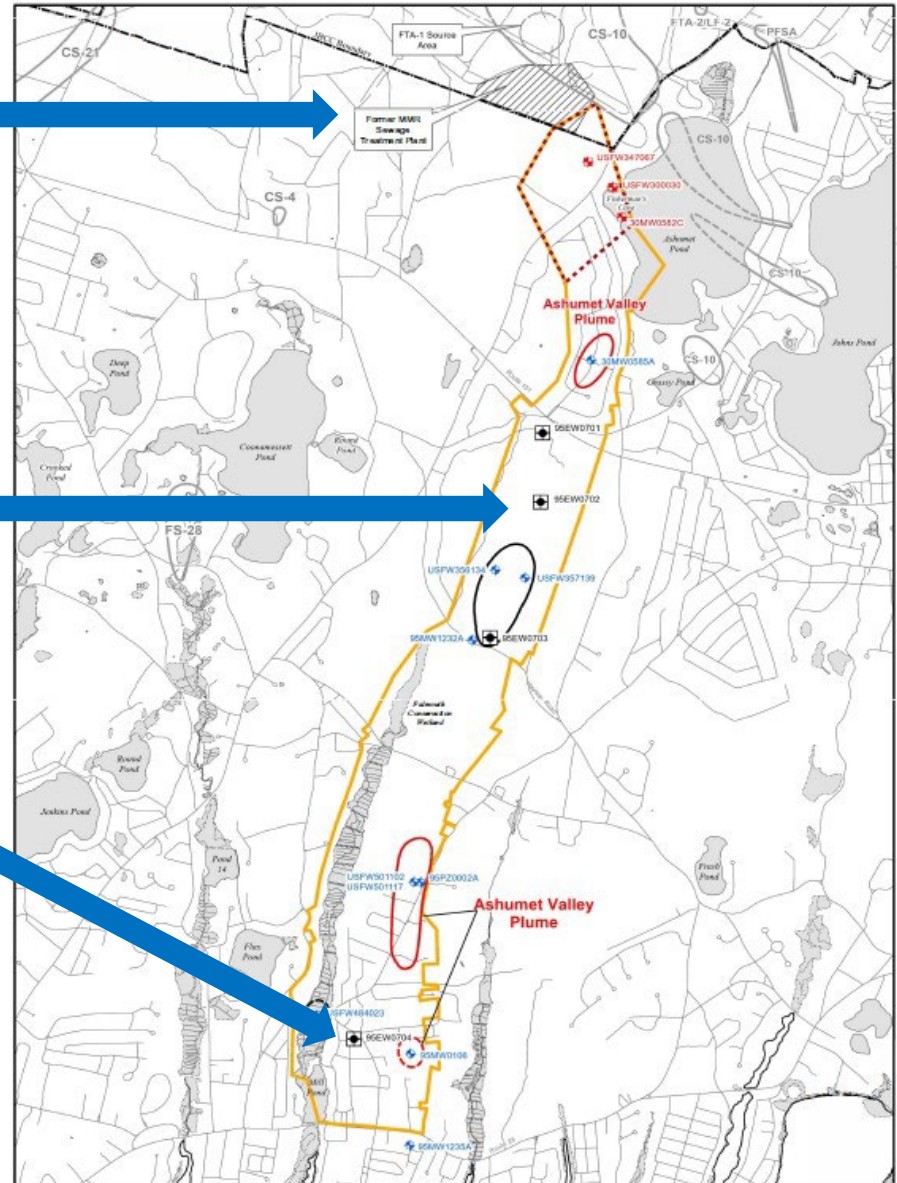


- Source Areas: FTA-1 and Former Sewage Treatment Plant

- Interim AV Remedy: 3 Extraction Wells started in 1999

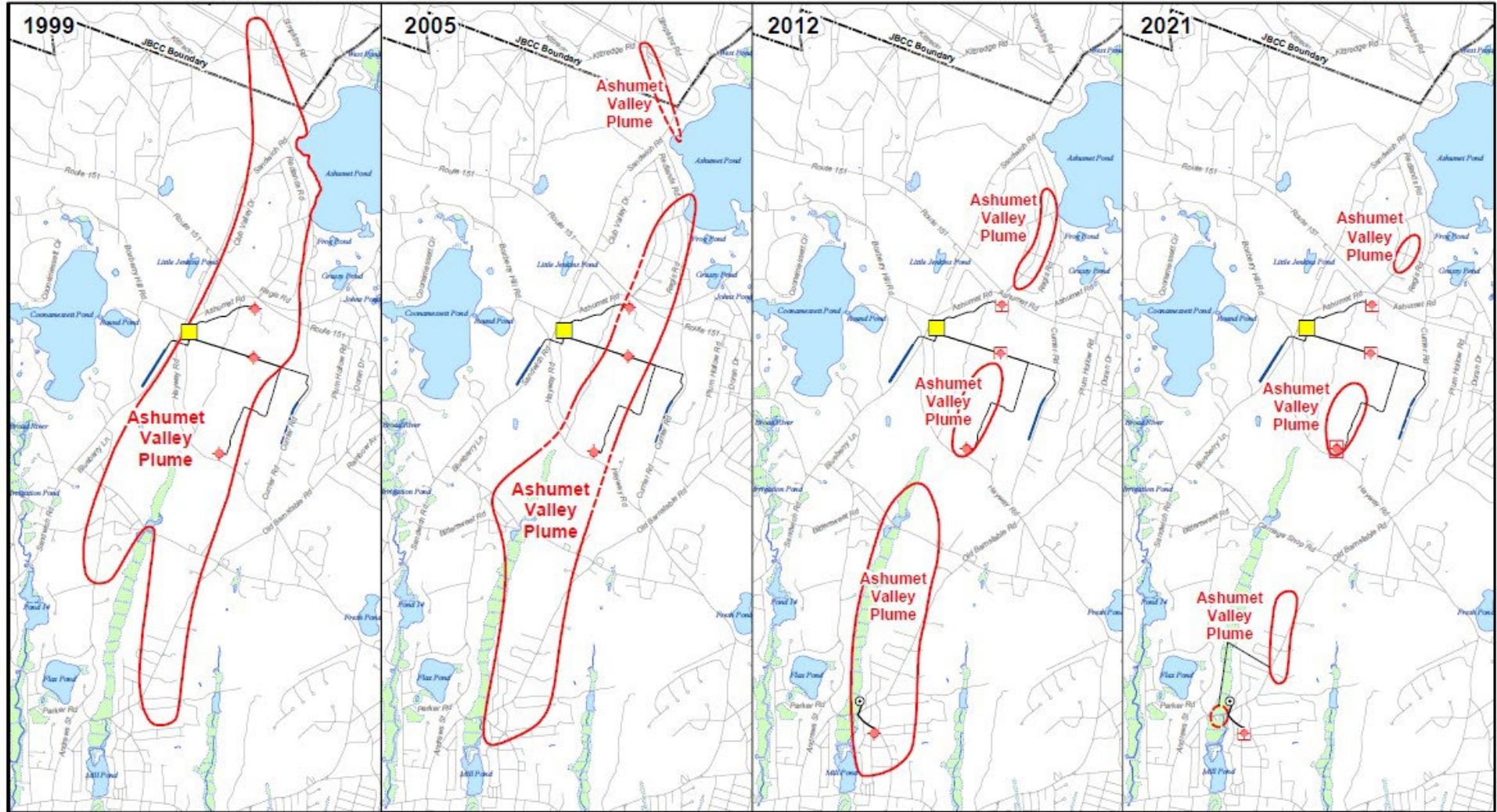
- Record of Decision issued in 2009 required a 4<sup>th</sup> Extraction Well

- All extraction wells are now turned off – 3 remaining VOC areas in red outline.





# Ashumet Valley Groundwater Temporal Cleanup Progress





# Ashumet Valley/FTA-1 PFAS



- Ashumet Valley (FTA-1) PFAS Remedial Investigation (RI) completed Mar 2024
- PFAS in groundwater primarily from the FTA-1 source area
- PFAS plume is called “FTA-1” to distinguish from Ashumet Valley plume with legacy contaminants
- FTA-1 PFAS plume extent depicted on next slide



# FTA-1 PFAS Extent

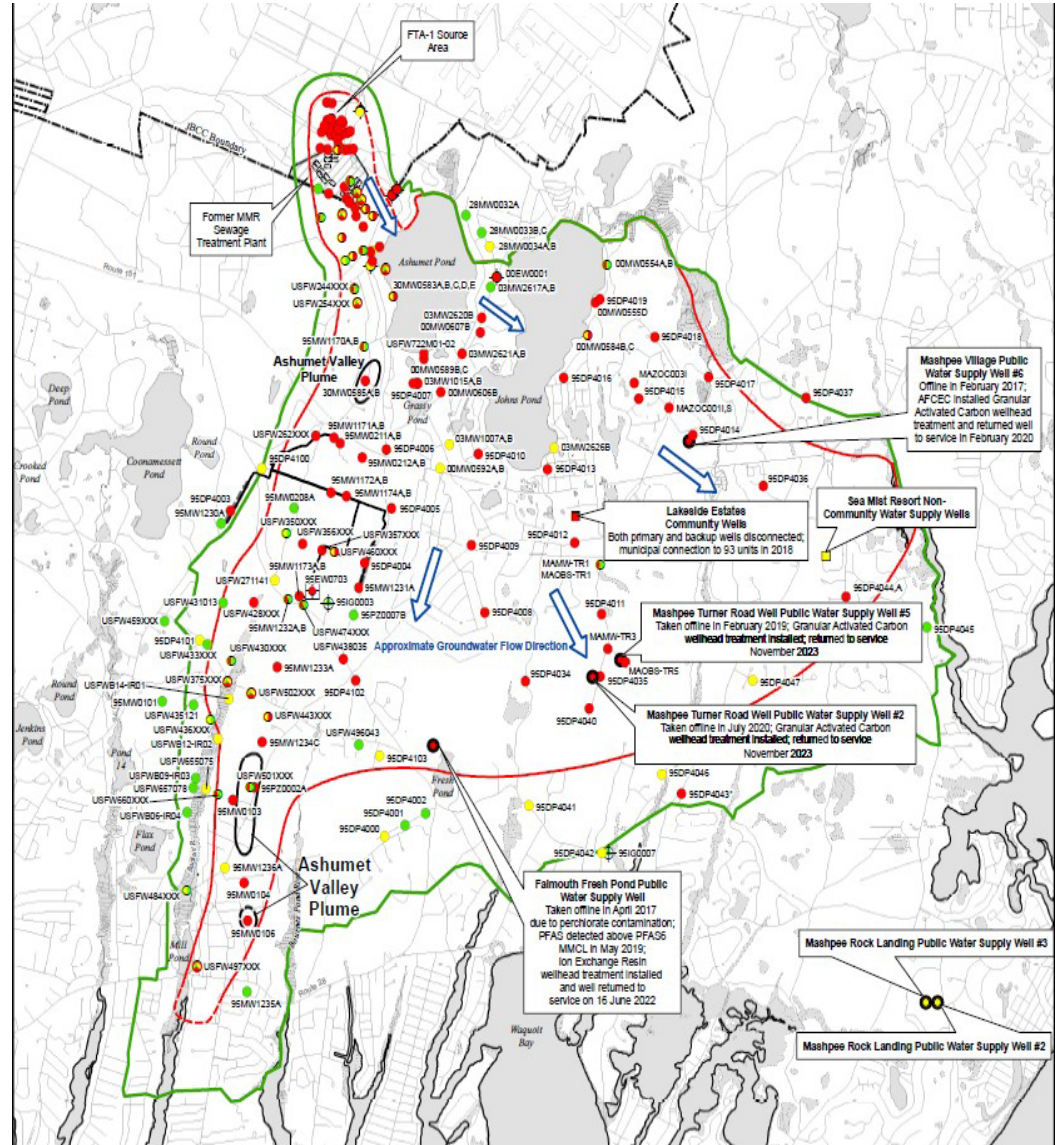


Sum of PFAS6 Detections in Groundwater

- Above MassDEP PFAS6 MMCL
- At or Below MassDEP PFAS6 MMCL
- No Detection

— FTA-1 PFAS6 Plume Boundary

— FTA-1 Land Use Control Area





# Proposed FTA-1 PFAS Groundwater (GW) Interim Remedy

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- Issue an Explanation of Significant Differences (ESD) to modify current Ashumet Valley (FTA-1) GW remedy
- Use the first Draft Supplemental FS remedial alternative evaluation for PFAS as basis of ESD
- ESD will:
  - Add four GW COCs: PFOS, PFOA, PFHxS, and PFNA
  - Add a Remedial Action Objective to prevent residential exposure to PFAS in GW
  - Implement active treatment in two plume areas as an interim remedy
  - Establish a permanent Land Use Control (LUC) Program for FTA-1 PFAS in GW
- Estimated total cost for FTA-1 PFAS Interim Remedy: \$81.4M

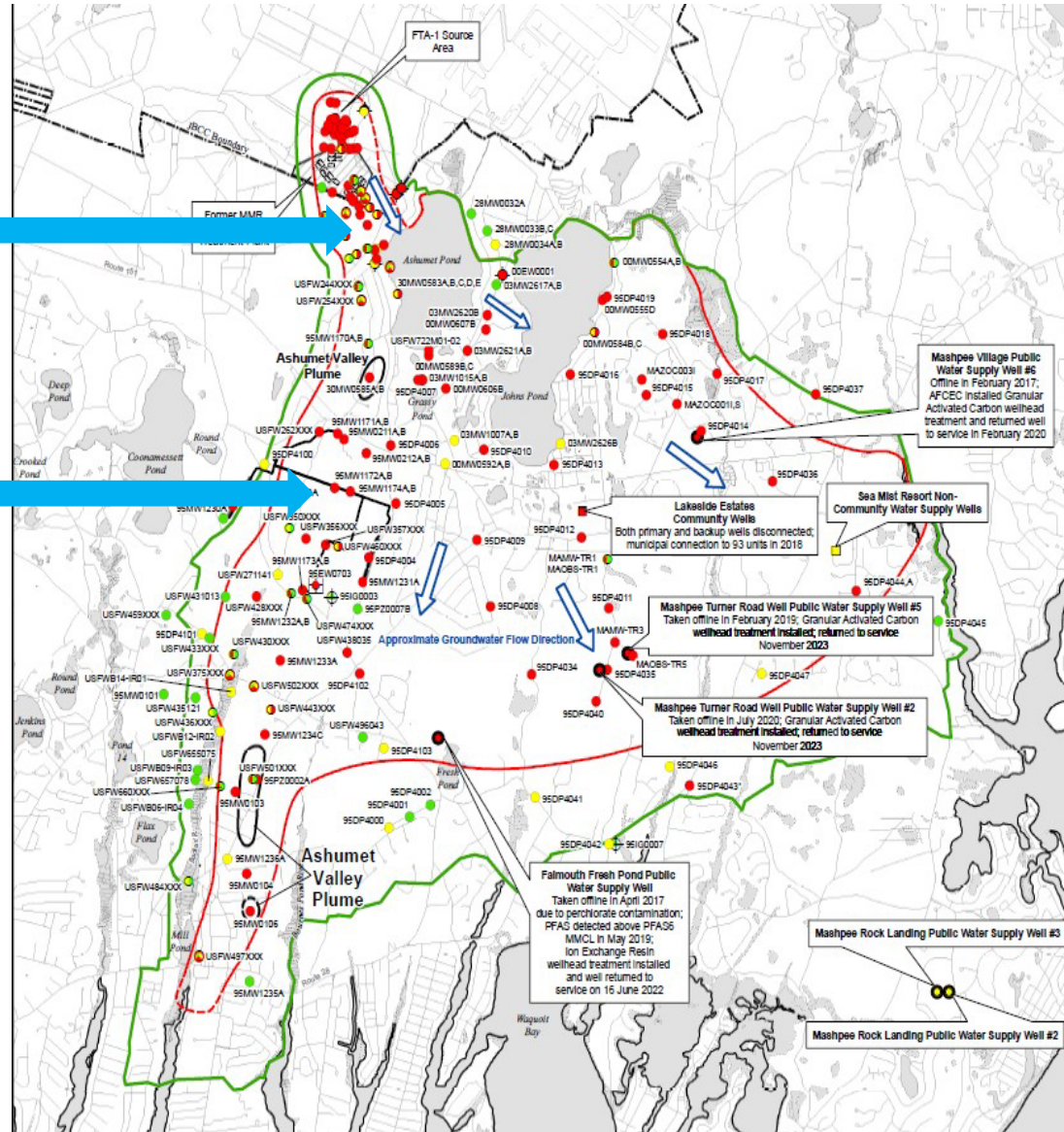


# FTA-1 PFAS Interim Remedy Locations



New Sandwich Rd Extraction Fence

Restart Ashumet Valley Treatment System



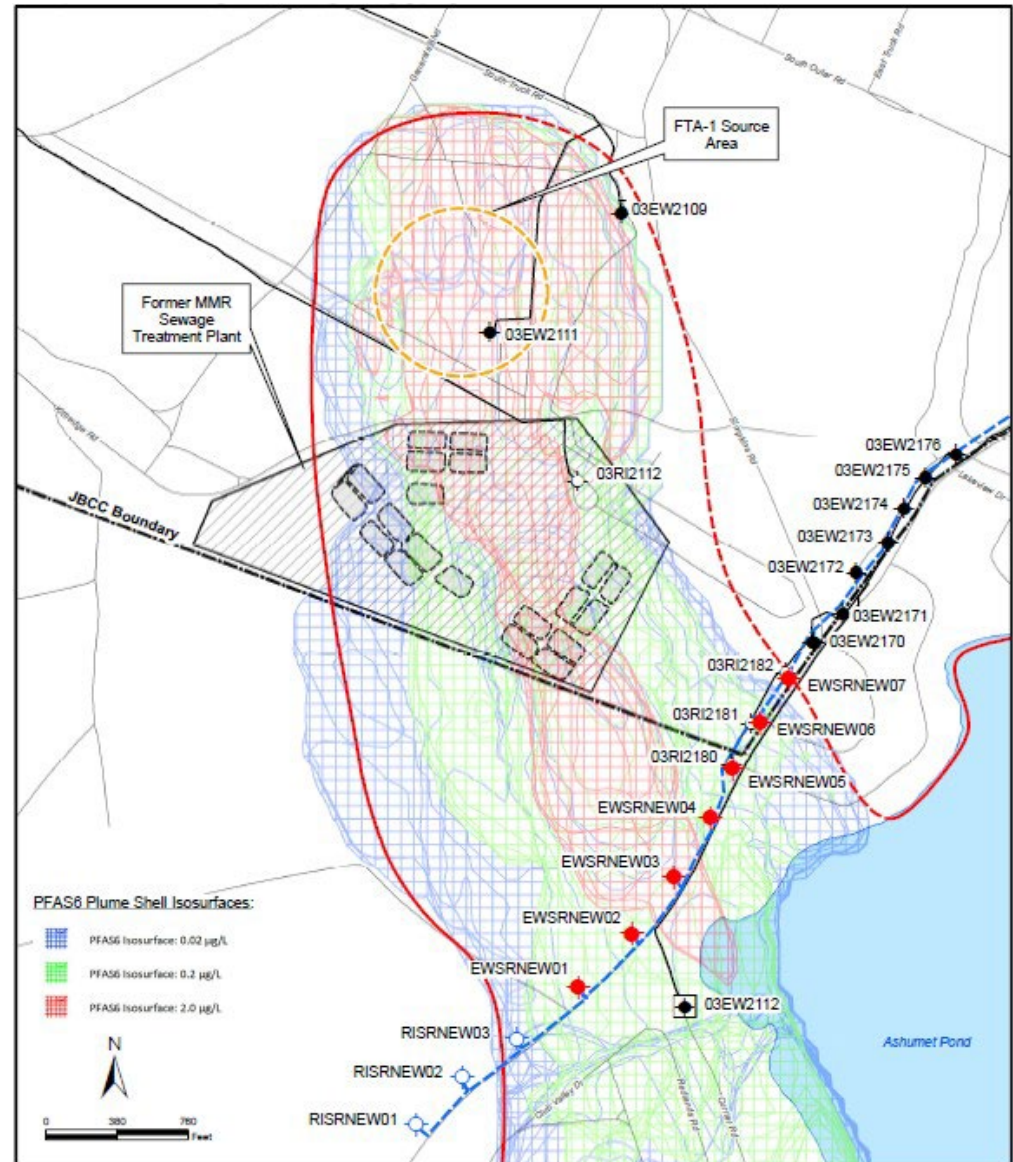




# FTA-1 PFAS Sandwich Rd Extraction Fence



- **Alternative 5 from first Draft Supplemental Feasibility Study**
- **Install 7 new extraction wells and 3 new reinjection wells**
- **Total flow rate estimated at 1,350 gallons per minute (gpm)**
- **Water treated at Sandwich Road Treatment Facility (Granular Activated Carbon [GAC])**

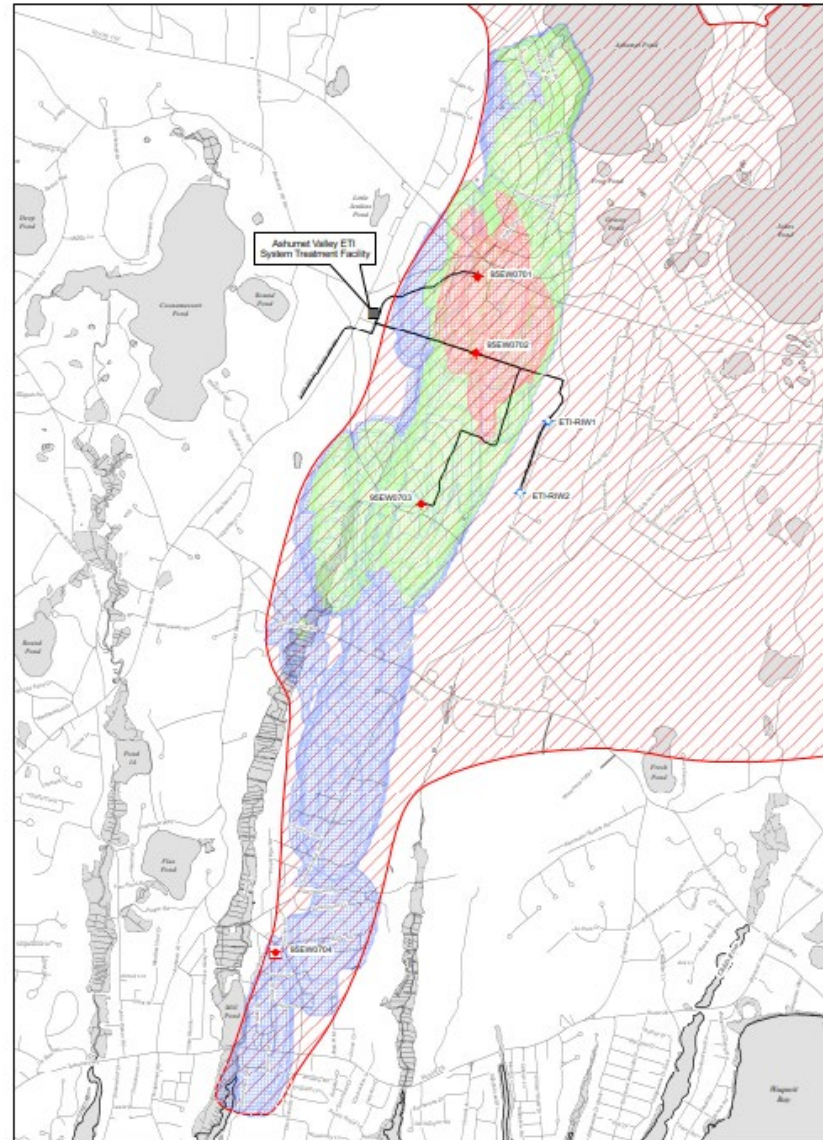




# FTA-1 PFAS Restart Ashumet Valley Treatment System



- **Alternative 4 from first Draft Supplemental Feasibility Study**
- **Restart existing 3 extraction wells**
- **Install 2 new reinjection wells**
- **Total flow rate estimated at 1,400 gpm**
- **Treatment at existing Ashumet Valley system (GAC)**





# Proposed FTA-1 PFAS GW Interim Remedy Status

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- 5 Apr 24: Draft ESD submitted for regulatory review
- Apr-May 2024: Complete Draft Final ESD
  - Immediately followed by 30-day public comment period
  - Issue Final ESD with response to public comments
- Jan 2024 – Sep 2024: Issue contract for construction and operation of FTA-1 PFAS Interim Remedy
  - Construction schedule TBD
- Land Use Control (LUC) requirements integrated into JBCC LUC Implementation Plan and results reported in Annual LUC Letter Report

