

# **Per- and Polyfluoroalkyl Substances (PFAS) Overview**

**NAVAL WEAPONS STATION (NWS)  
YORKTOWN, VIRGINIA**

**Presented by:  
Tetra Tech, Inc  
NAVFAC Mid-Atlantic  
1 June 2022**

# Overview



- **Project Scope**
- **Work Completed**
- **Next Steps**

# Project Scope



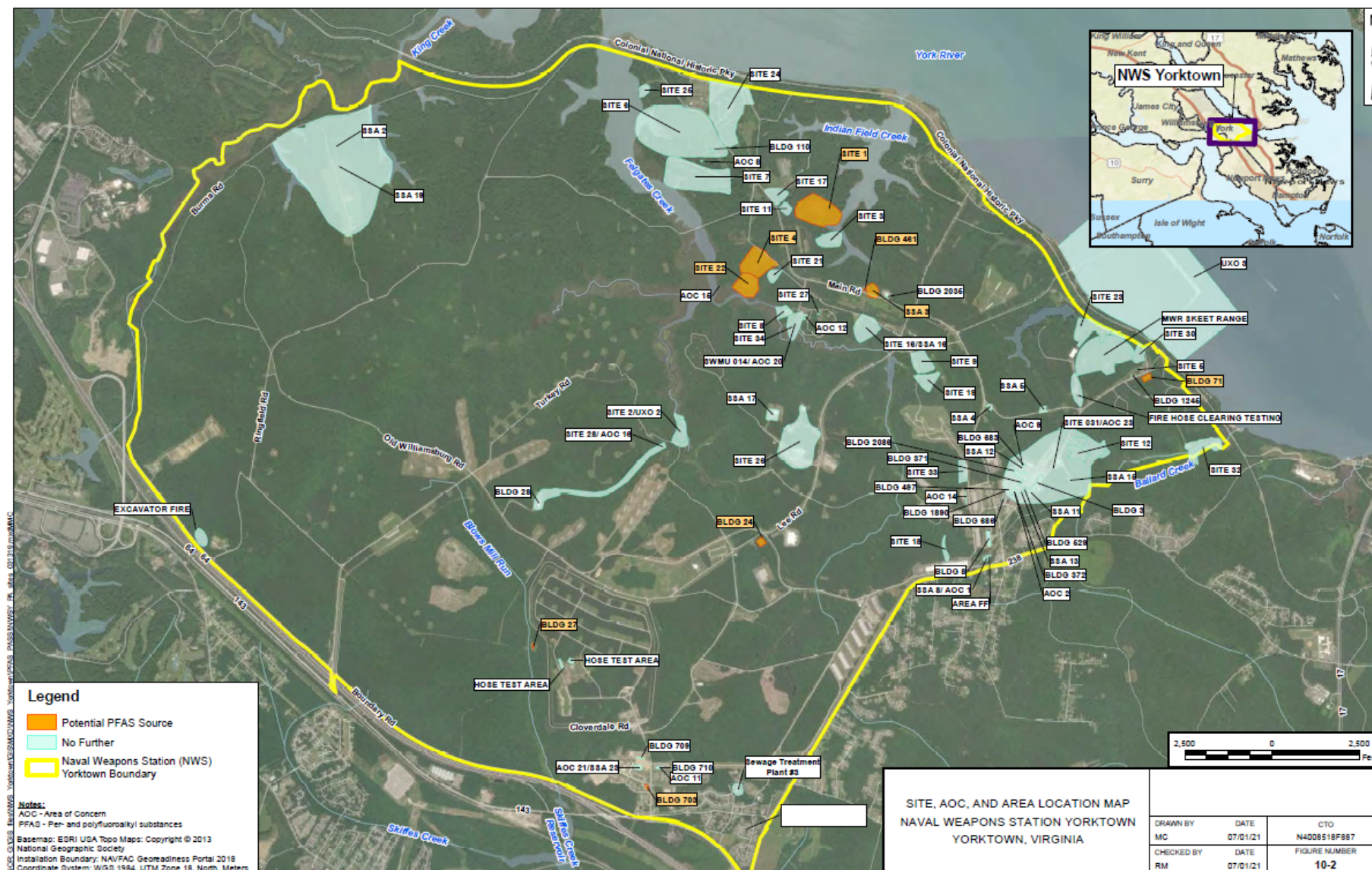
- **Information Research**
- **Preparation of a Preliminary Assessment (PA) Report**
- **Preparation of a Sampling and Analysis Plan (SAP) for the PFAS Site Inspection (SI)**
- **Field Investigation**
- **SI Reporting**

# Work Completed



- **October 2021: Final PA Report**
  - Out of 75 areas screened, 9 Areas of Interest recommended for additional investigation through an SI
- **March 2022: Final SI SAP for soil and groundwater**
- **March to May 2022: Field Investigation**
  - Installation of 35 monitoring wells
  - Collected 78 soil samples and 40 groundwater samples

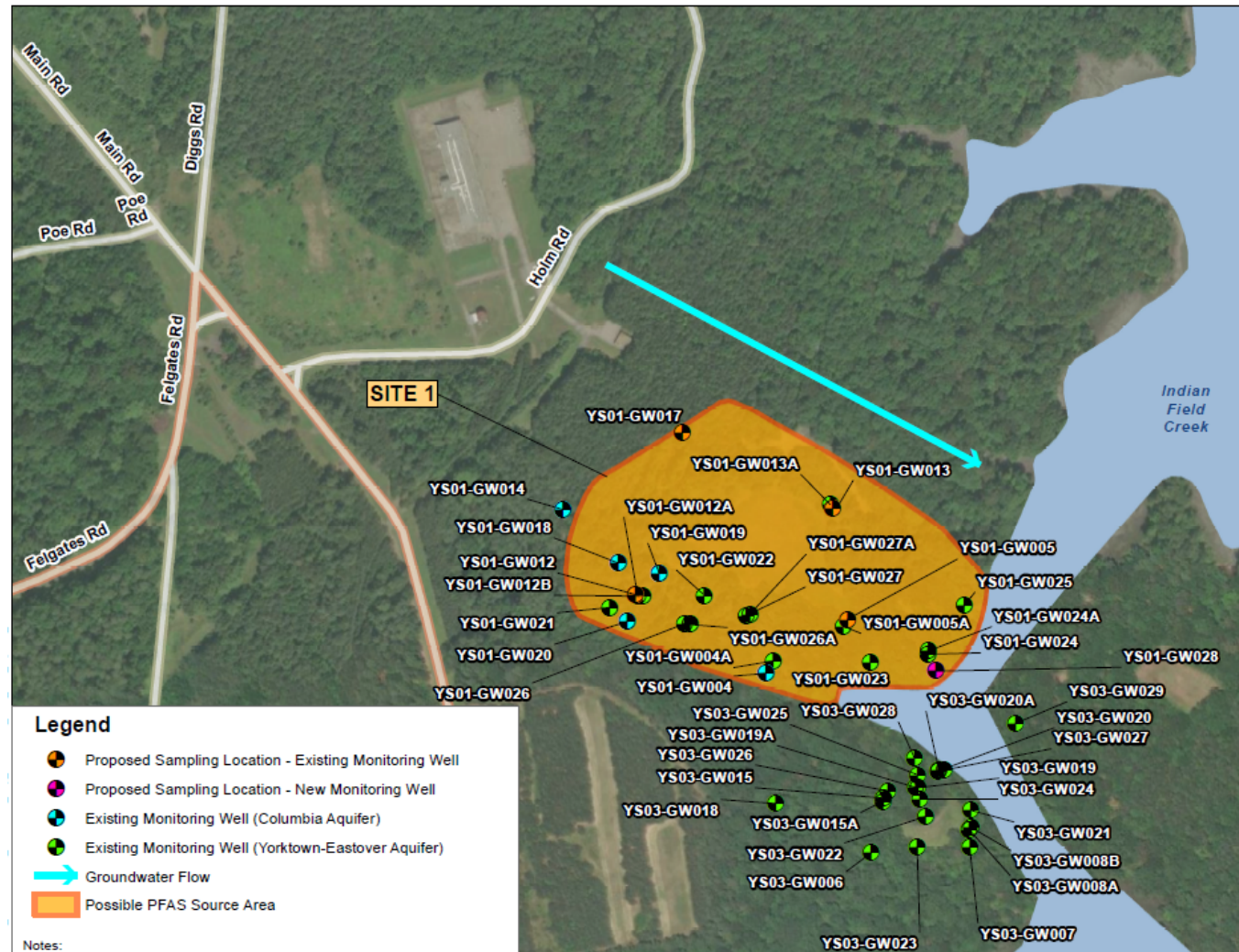
# Work Completed





# Site 1 – Dudley Road Landfill

- **Basis of SI**  
**Recommendation:** Reported disposal of oily wastewater containing AFFF pumped from fire training pits at SSA 3
- **Previous Cleanup:** 1999 soil/debris removal action
- **Media:** Groundwater only
- **Completed:** Sampled 5 existing wells (GW024 sampled in lieu of new well and GW004 in lieu of GW005)



# Site 4 – Burn Pad Residue Landfill and Site 22 – Burn Pad



## • Site 4

### –Basis of SI

**Recommendation:** Main landfill for Site 22 and during timeframe of PFAS use

### –Several removal actions

–**Media:** GW only

–**Completed:** 4 new wells installed/sampled

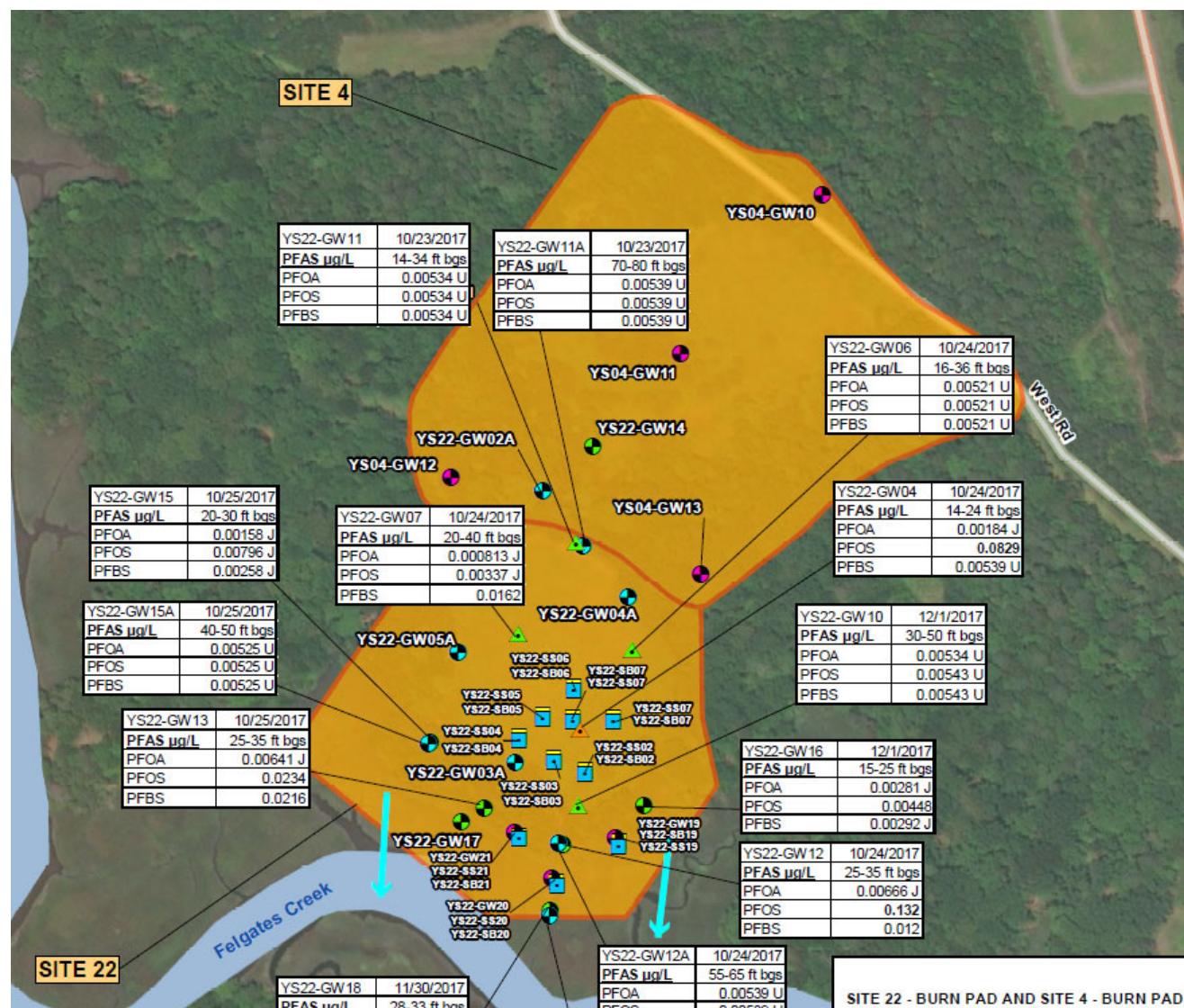
## • Site 22

### –Basis of SI

**Recommendation:** 2017 groundwater samples: elevated concentrations of PFOS

–**Media:** Soil and GW

–**Completed:** 3 new wells installed/sampled, 10 soil locations sampled near previous exceedances, 20 soil samples





# SSA 3 – Fire Training Pits and Vicinity and Building 461 Fire Station No. 14



## • SSA 3

### –Basis of SI Recommendation:

- Documented use of AFFF for firefighter training activities at the former fire training pits
- 1996 removal of concrete pits, tanker trailer, and burnt soil

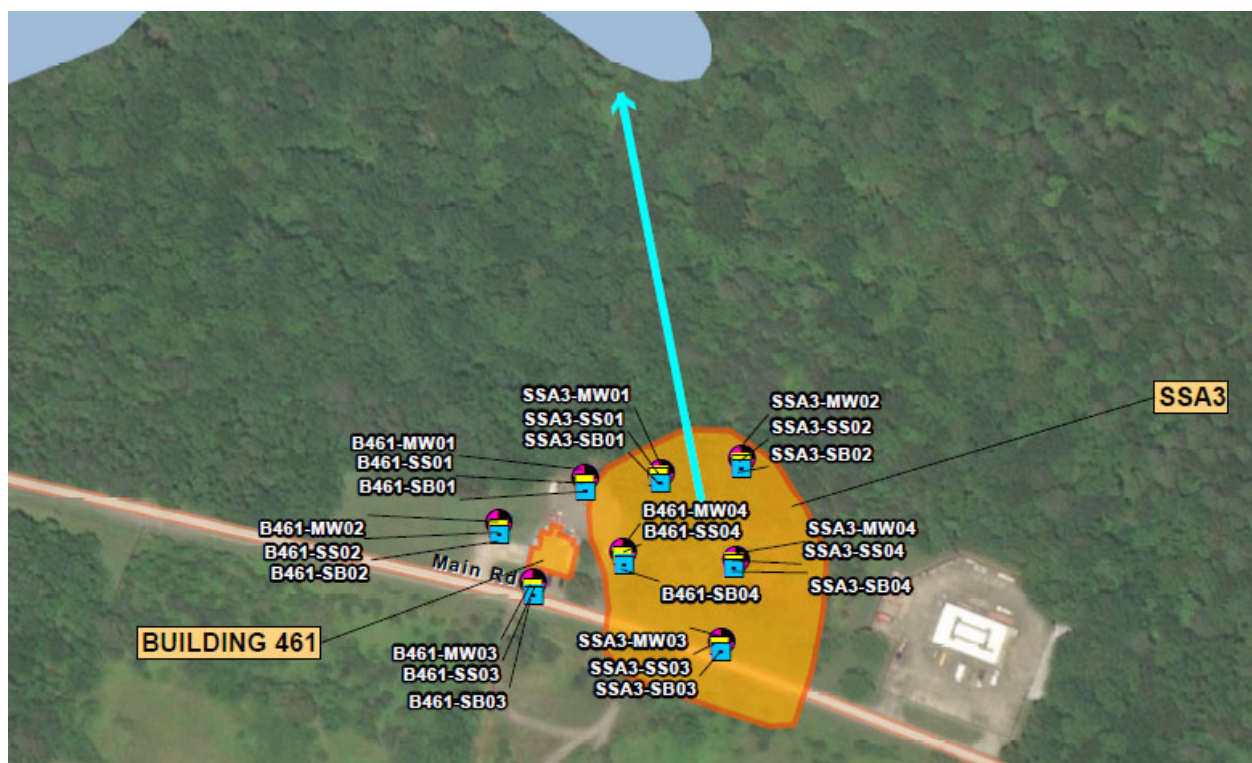
## • Bldg 461

### –Basis of SI Recommendation:

- Presumed historical handling, storage, and potential release of AFFF at Building 461

## • Media: GW and soil

## • Completed: installed/samples 8 new wells, 18 soil samples





# Building 24 Betty Warehouse Fire



- **Basis of SI**

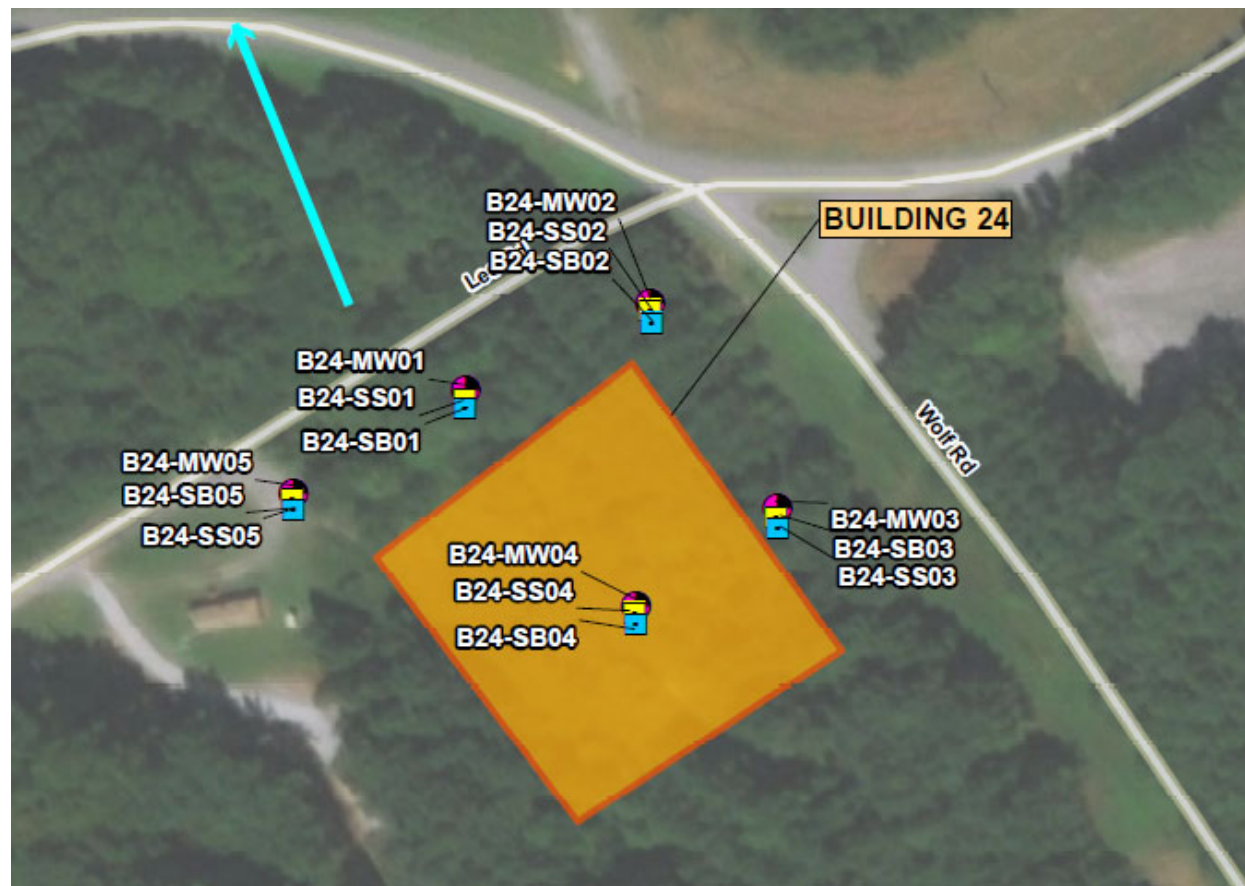
- Recommendation:**

- Documented use of AFFF to extinguish the Building 24 fire

- **Media:** GW and soil

- **Completed:**

- Installed/sampled 5 New wells, 10 soil samples



# Building 27 Fire

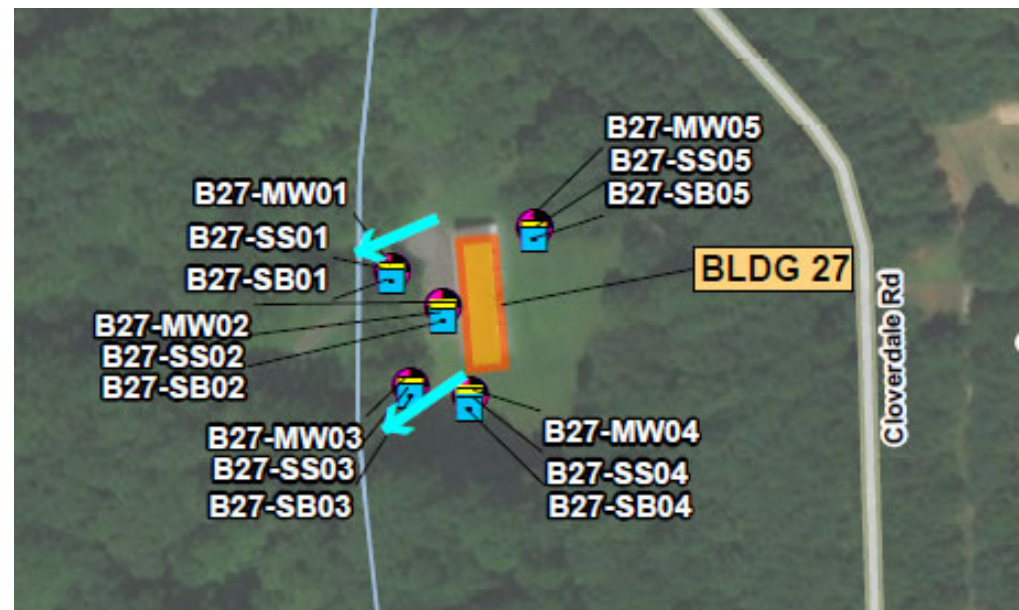
- **Basis of SI**

**Recommendation:** Use of AFFF to extinguish the Building 27 fire

- **Media:** GW and soil

- **Completed:**

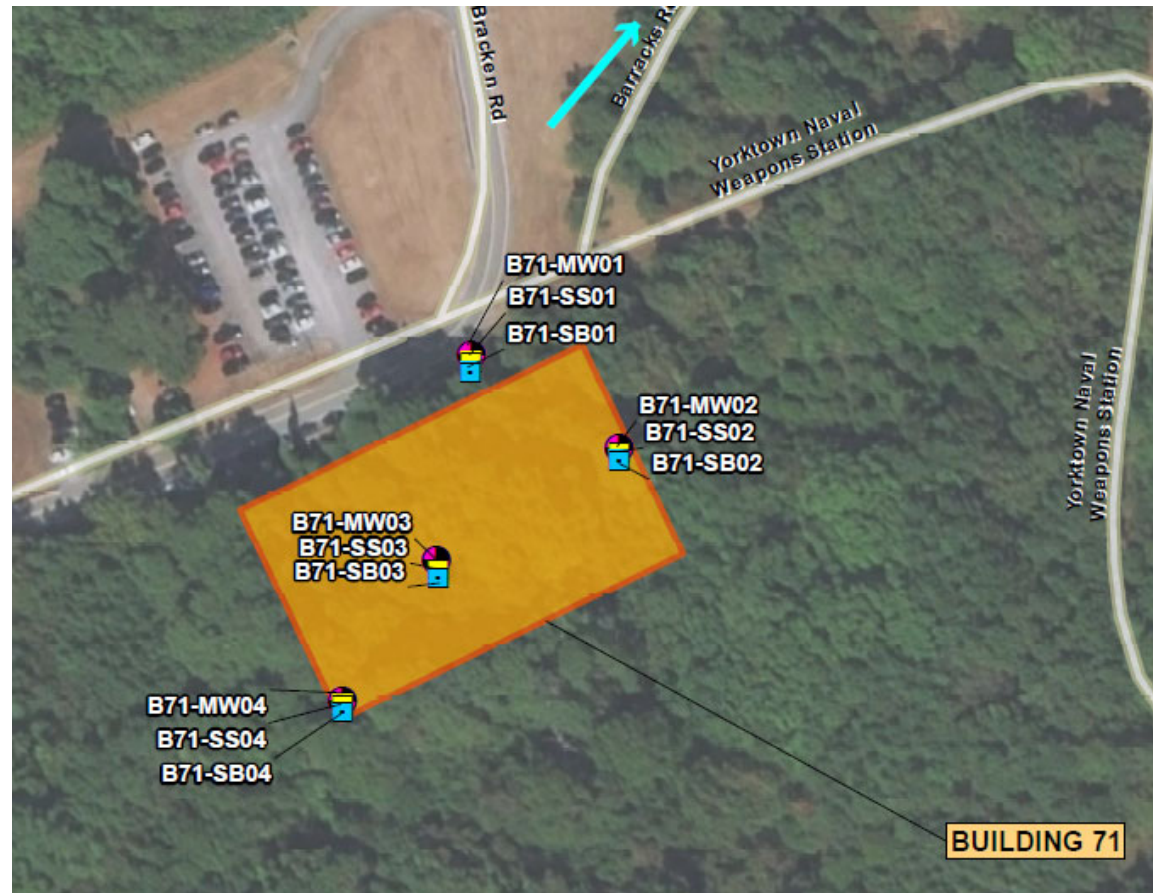
Installed/sampled 5 new wells, 10 soil samples



# Building 71 Former Fire Station



- **Basis of SI**  
**Recommendation:** use as a fire station and assumption of handling and storage of AFFF
- **Media:** GW and soil
- **Completed:**  
installed/sampled 4 new wells, 8 soil samples





# Building 703 Main Fire Station No. 13



- **Basis of SI**  
**Recommendation:**  
presumed handling,  
storage, and potential  
release of AFFF
- **Media:** GW and soil
- **Completed:**  
installed/sampled 6 new  
wells, 12 soil samples



# Next Steps



- **Summer 2022:** Data analysis and validation
- **Late Summer 2022:** Data evaluation and initial recommendation
- **Fall 2022 – 2023:** SI Report, which will summarize data collected and recommendation for a path forward for each AOI
  - Draft SI Report – April 2023
  - Draft Final SI Report – June 2023
  - Final SI Report – August 2023

# Questions or Comments?



**For additional information regarding the ERP at Naval Weapons Station (NWS) Yorktown, please contact:**

Cecilia Landin – Navy's ERP Manager for NWS Yorktown  
(757) 341-2014 or [cecilia.a.landin.civ@us.navy.mil](mailto:cecilia.a.landin.civ@us.navy.mil)

Jeff Kissler – Environmental Director for NWS Yorktown  
(757) 887-4086 or [John.j.kissler1@navy.mil](mailto:John.j.kissler1@navy.mil)

NWS Yorktown Publics Affair Officer  
(757) 887-4939

Visit NWS Yorktown's ERP Public Web Page at:  
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