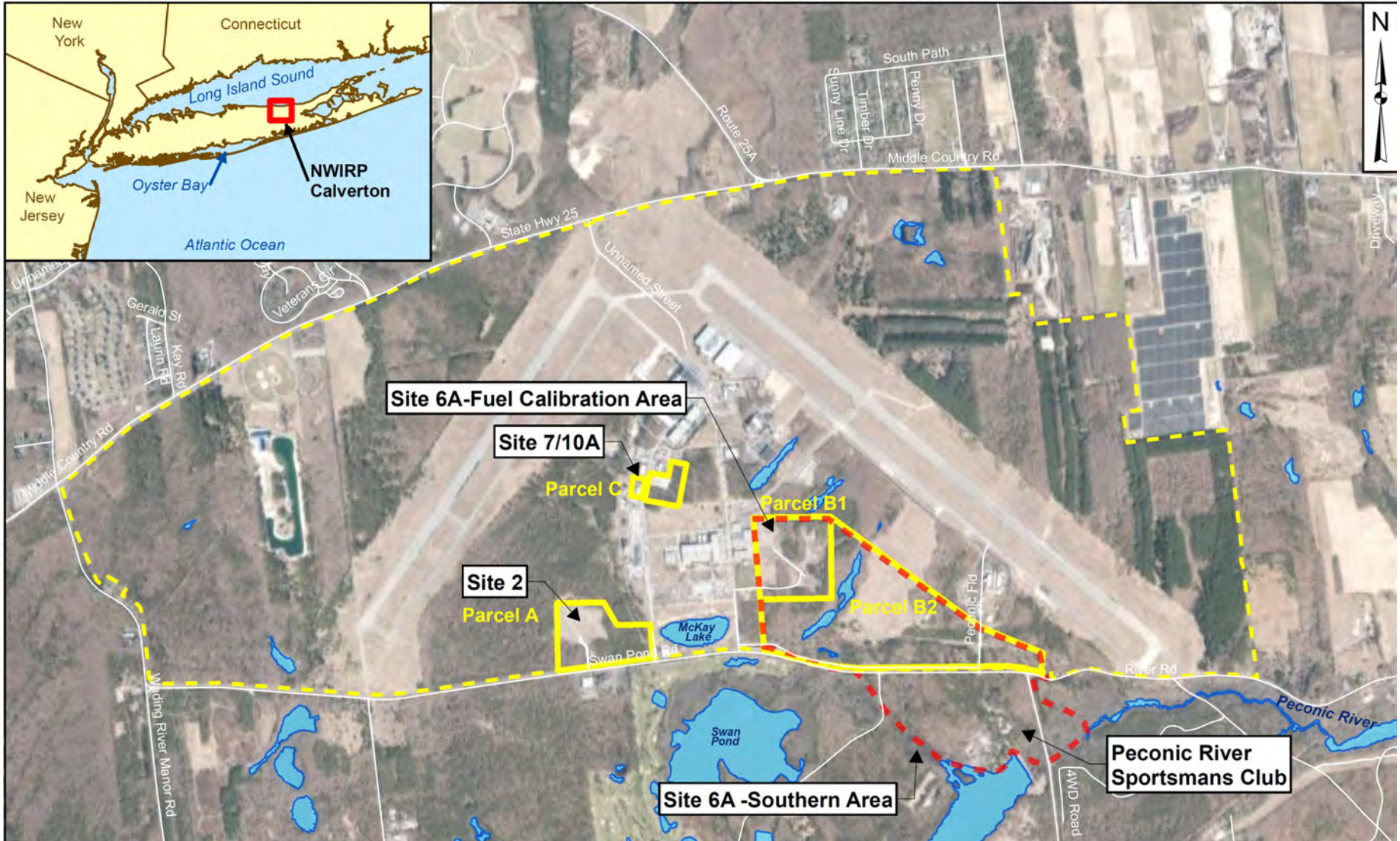


Site 7 – Fuel Depot Biosparge System Evaluation and Preliminary Recommendations

**Presented by:
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NAVFAC Mid-Atlantic
5 April 2022**

Site 7 – Fuel Depot



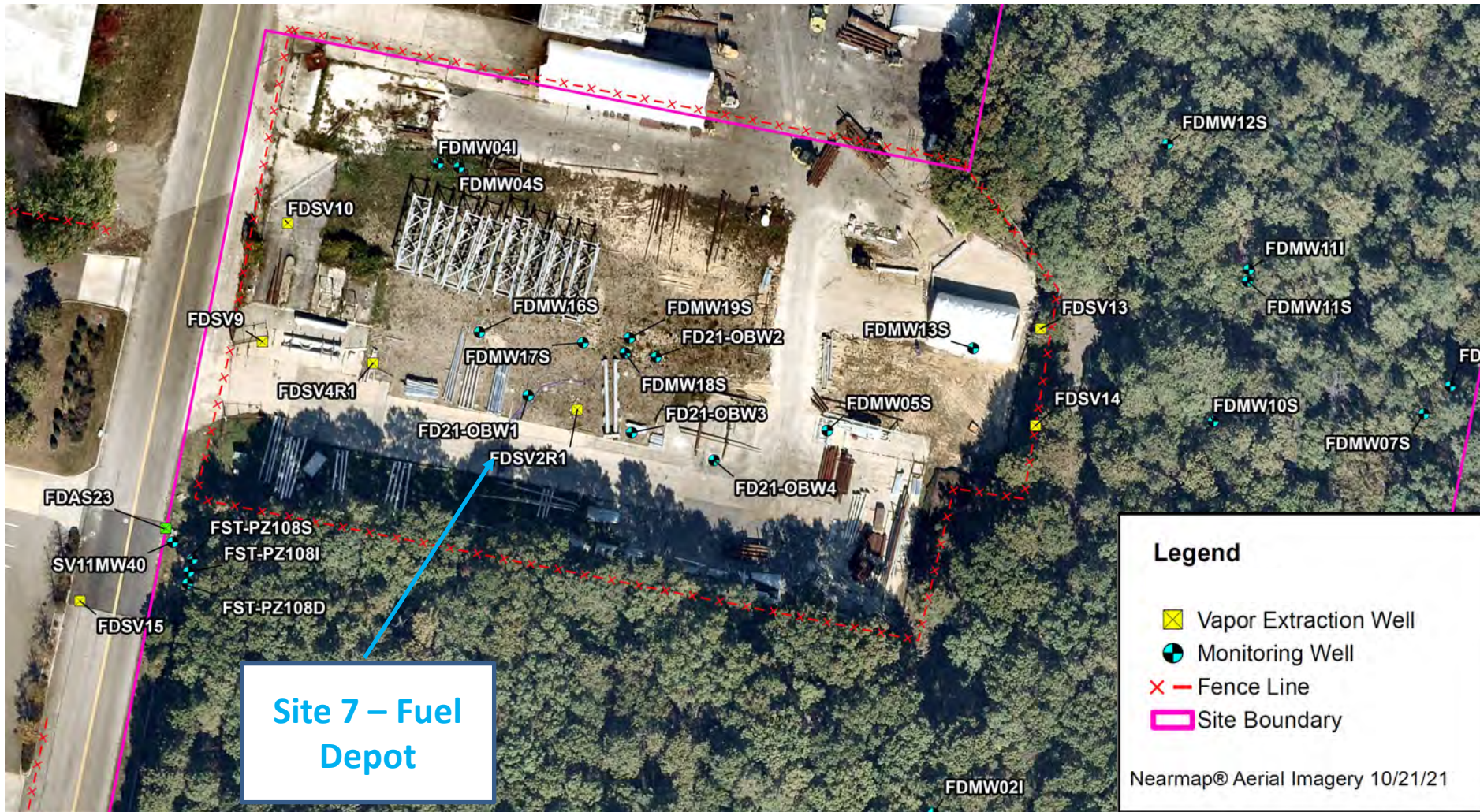
Site 7 History and Current Status



- **Site History:**

- Fuel depot area used for storage and distribution of jet fuel.
- Fuel was stored in underground storage tanks (USTs).
- Fuel was transferred to trucks for use in flight preparation areas.
- Remedial Activities:
 - 1997: Removal of USTs and fueling structures.
 - 2006 to 2013: Operation of air sparge/soil vapor extraction system
 - 2019: Removal of tank saddles, concrete pad, and contaminated soil associated with fueling structures and USTs. Resulted in effective cleanup of the source area.
 - 2021: Operation of a biosparge system south of source area.

Site 7 Layout



- **Most Recent Analytical Results (February 2022):**
 - Overall, the operation of the biosparge system further reduced the concentrations of petroleum related compounds.
 - Concentrations of petroleum related compounds (ethylbenzene and xylenes) remain above the cleanup levels at 5 wells.
 - These wells are located on southern portion of the site.
 - Maximum concentration of ethylbenzene was 61 ug/L (cleanup goal is 5 ug/L).
 - Maximum concentration of total xylenes was 75 ug/L (cleanup goal is 5 ug/L).

Locations Where Groundwater Results Remain Above the Cleanup Goals



Area Where Groundwater Concentrations Remain Above Cleanup Levels



Preliminary Recommendations and Path Forward



- Remobilize biosparge system in Summer 2022.
- Operate biosparge system for an additional 6 months. System will target southern portion of Site 7 where concentrations remain above the cleanup goals. Includes installation of new air sparge well to refine remedial system.
- Complete second round of monitoring in Fall 2022 to assess residual concentrations of volatile organic compounds (VOCs).

QUESTIONS?