



Waste Management and Prevention Division

Vermont Yankee Nuclear Decommissioning
Citizen Advisory Panel Meeting
DEC Oversight Status

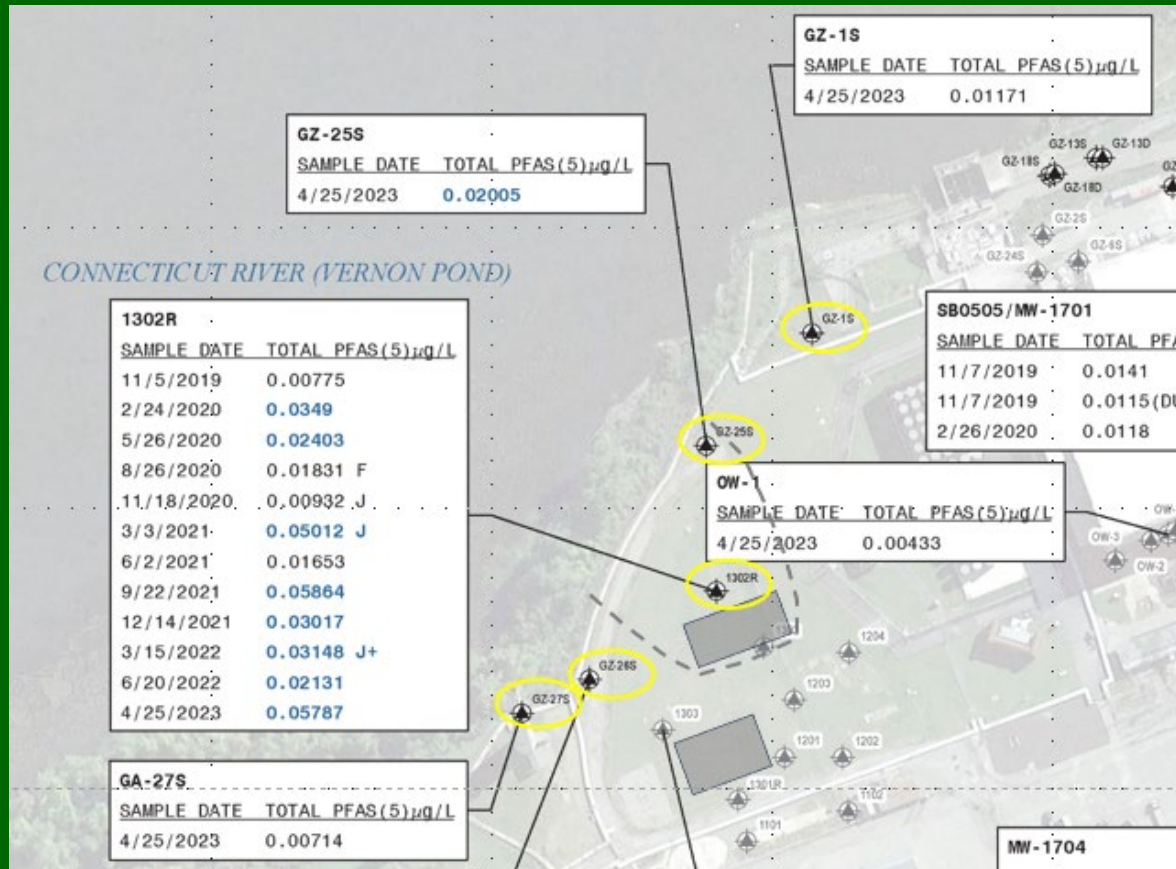
September 18, 2023
Graham Bradley
Vermont DEC WMPD

DEC Role:

Regulate Vermont Rules and 2018 Memorandum of Understanding (MOU) between NorthStar and the State of Vermont, through:

- Ongoing communication and coordination
- Oversight of non-radiological characterization:
 - Site Investigation
 - Groundwater Monitoring
 - Post Demolition Surveys
- Corrective Action Plans (CAP) Review/Approval
- CAP Completion Review/Approval
- Permitting – with other DEC programs
- Progress review

Groundwater Monitoring



2019 to 2022 Monitoring Program

- Three years of quarterly monitoring
- 70 wells to 19 wells to 4 wells
- Atlas validated Haley & Aldrich procedures and laboratory results
- Impacts small - local exceedances of VOCs, PAHs, and PFAS
- Monitoring suspended during demolition and soil remediation

PFAS in Groundwater Update

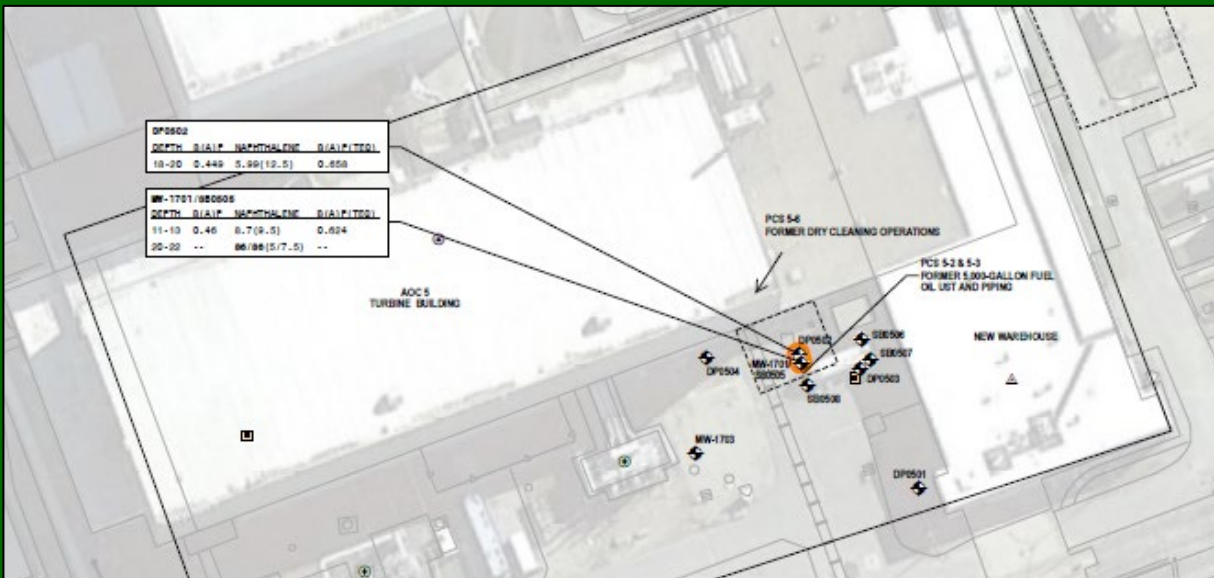
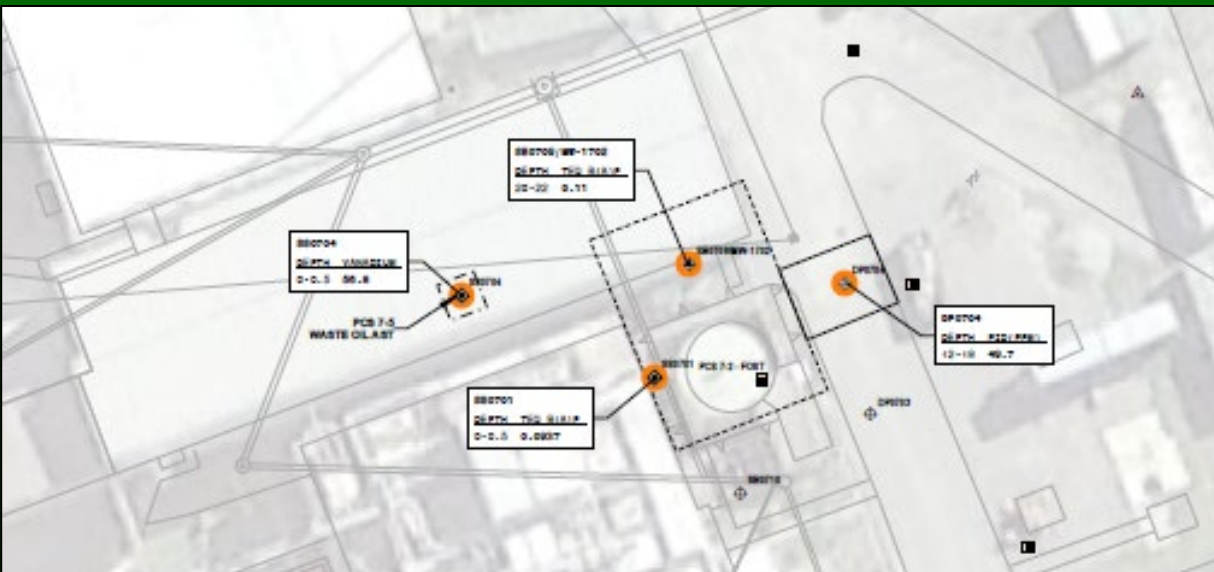
- PFAS downgradient of Main leachfield and former COB leachfield
- Possibly related to cleaning products
- Impacted areas small
- Ongoing monitoring required

Corrective Action Plans to be implemented in 2024

1. Area of Concern (AOC) 7A - 75,000 gal Fuel Oil Storage Tank & 500 gal Waste Oil Aboveground Storage Tank
2. Area of Concern (AOC) 5 - Fuel-Impacted Soils at the Turbine Building

- Excavation
- Confirmatory soil sampling
- Groundwater sampling
- Stockpile management & characterization
- Off-site disposal
- Restoration & completion report
- Schedule – when area is clear and equipment available

Corrective Actions



Post Demo Surveys



Transformer Pads (AOC 8)

- Transformers pads sit on top of gravel filled concrete containment – no staining
- Soils outside concrete berm sampled.
- Post-Demo Report to be issued

Gov. Hunt House - Due Diligence Investigation

- 1988 Plan suggested “oil” seen at 9 feet
- Monitoring well, closed in 2021
- Test Pit logged and sampled to 10 feet
- Observations and laboratory results no evidence of contaminant impacts

Remaining Post-Demolition Surveys:

- Turbine Building
- Radwaste building
- Haz Mat short-term storage area

DEC Permit Programs

- **Hazardous Waste Program (WMPD)**
 - “Small Quantity Generator”
- **Residuals program (WMPD)**
 - Certification Ended
- **Public Drinking Water Program (DWGPD)**
 - Routine compliance
- **Direct Discharge (WMD)**
 - None.
- **Stormwater Program (WMD)**
 - ISFSI annual inspection report submitted
- **Rivers Program (WMD)**
 - Stream Alteration Permit issued May 2nd, 2023
 - Work on discharge structure under way.