



Waste Management and Prevention Division

Vermont Yankee Nuclear Decommissioning
Citizen Advisory Panel Meeting
DEC Oversight Status

May 8, 2023

Graham Bradley

Vermont DEC WMPD

DEC Role:

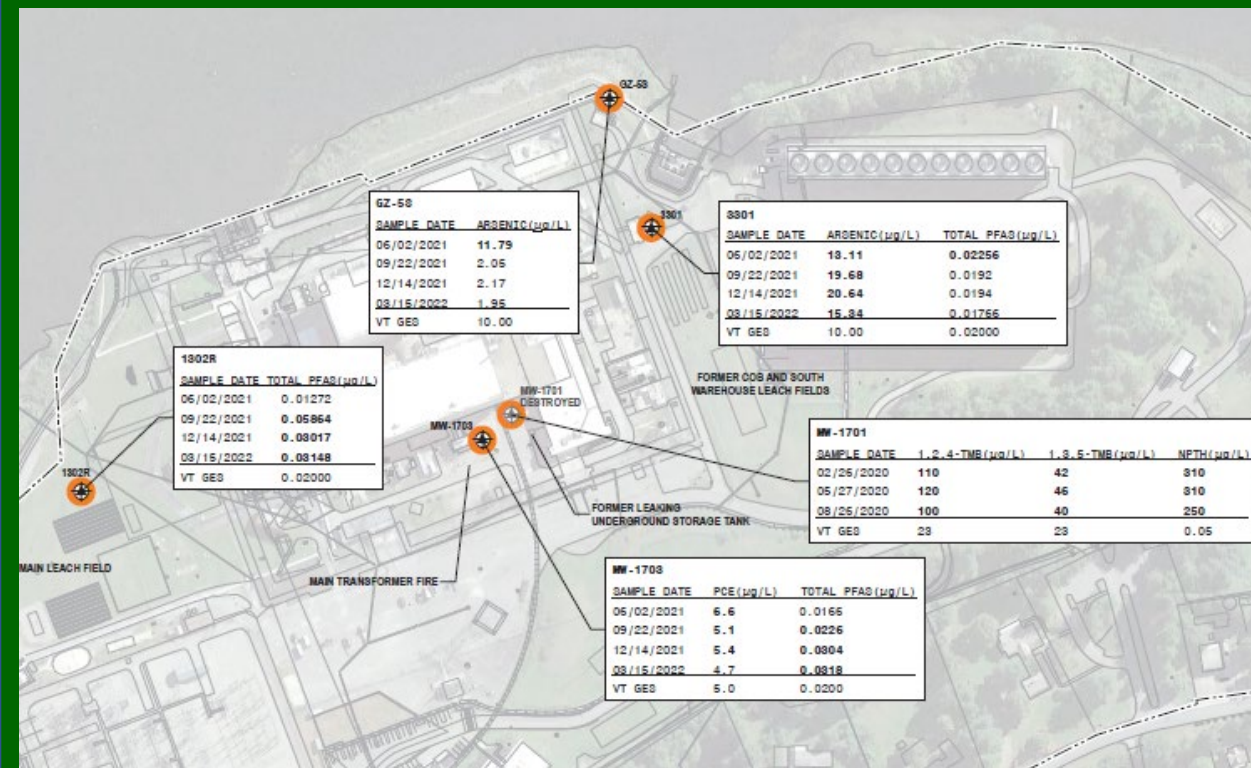
Regulate Vermont Rules and 2018 Memorandum of Understanding (MOU) between NorthStar and the State of Vermont, through:

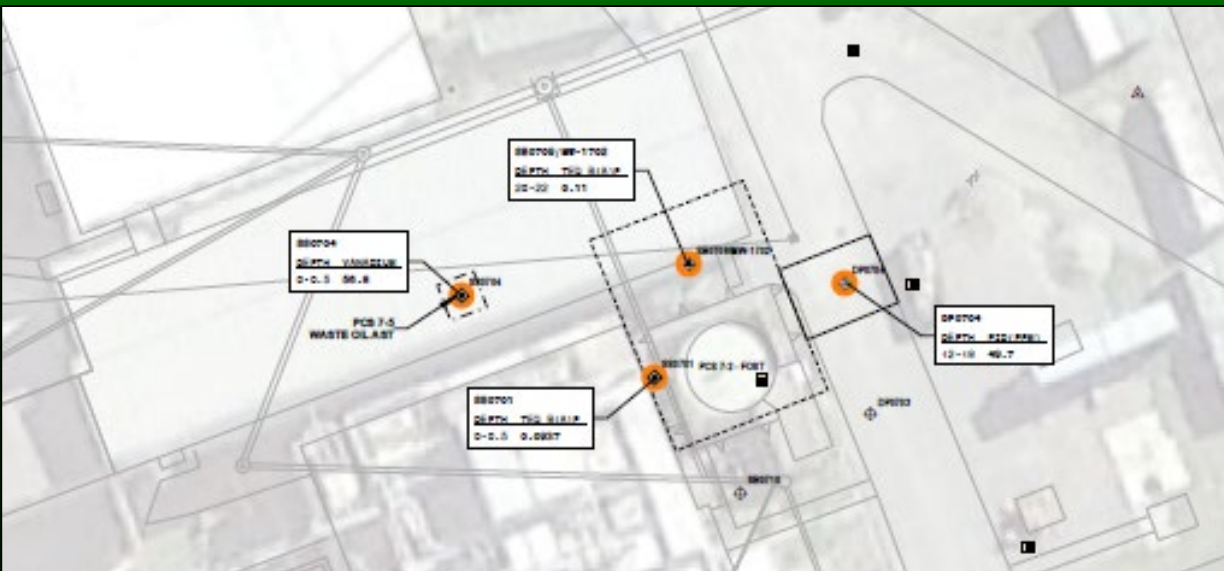
- Ongoing communication and coordination
- Oversight of non-radiological characterization:
 - Site Investigation
 - Groundwater Monitoring
 - Post Demolition Surveys
- Corrective Action Plans (CAP) Review/Approval
- CAP Completion Review/Approval
- Permitting – with other DEC programs
- Progress review

Groundwater Monitoring

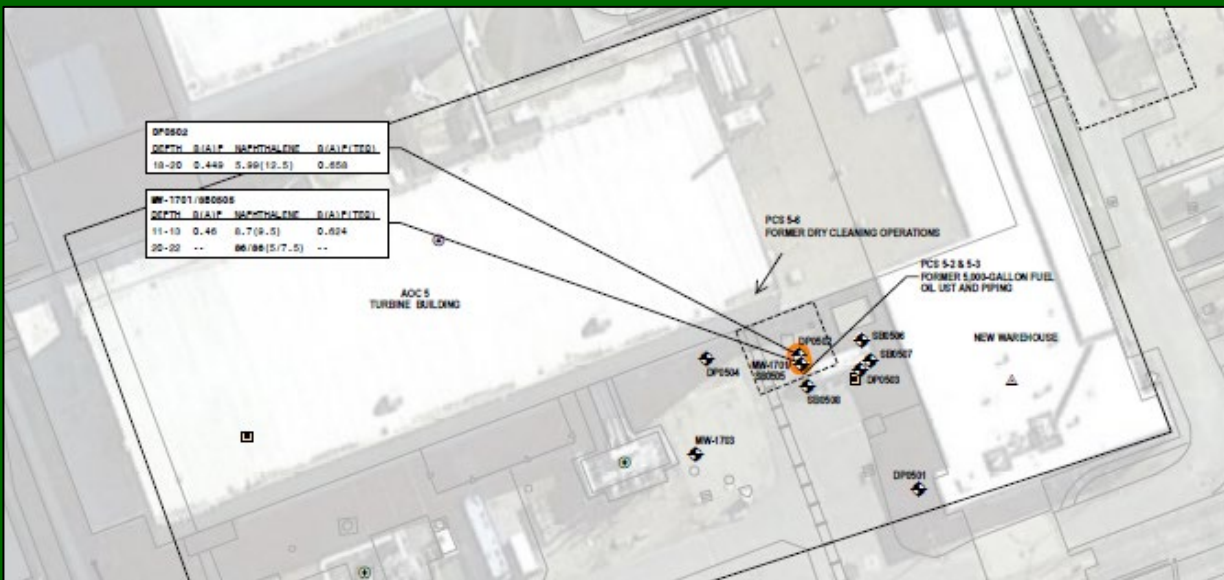
DEC Review - 2021-2022 Annual Report

- 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
- Asked for additional PFAS sampling & interpretation due to low exceedances
- Monitoring suspended during demolition and soil remediation
- Existing wells closed and new wells to be installed post-demolition & remediation
- Post-completion monitoring plan in preparation by H&A





Corrective Actions



Approved Corrective Action Plans to be implemented after building demolition

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



Post Demo Surveys



1. Chemical Laboratory Drain (AOC 6)

- Chemicals not disposed via drain
- H&A and Atlas inspected pipe trench after excavation, and took soil sample
- VOCs, PAHs, and metals below Vermont standards &/or background

2. Transformer Pads (AOC 8)

- Transformers pads sit on top of gravel filled concrete containment
- No staining to base of gravel.
- Soils outside concrete berm sampled.
- Waiting on laboratory results.

Remaining Post-Demolition Surveys:

ASTs & USTs near South Warehouse, Turbine Building. Radwaste building. Transformers. Haz Mat short-term storage area.

DEC Permit Programs

- **Hazardous Waste Program (WMPD)**
 - Now “Small Quantity Generator”
- **Residuals program (WMPD)**
 - All requirements met – Certification Ended
- **Public Drinking Water Program (DWGPD)**
 - Routine compliance
- **Direct Discharge (WMD)**
 - None. Dewatering wells decommissioned.
- **Stormwater Program (WMD)**
 - No update.
- **Rivers Program (WMD)**
 - Stream Alteration Permit issued May 2nd, 2023
- **Air Emissions (AQCD)**
 - Not required. Generators will be removed