

Vermont DEC

Waste Management and Prevention Division

Vermont Yankee Nuclear Decommissioning
Citizen Advisory Panel Meeting

DEC Oversight Status

May 9, 2022

Graham Bradley

Vermont DEC WMPD

- New Project Manager: Graham Bradley
- Hydrogeologist in US / UK / Canada
- Consultant / academic / regulator
- Contamination, water resources, mining, radioactive waste repositories



DEC Work

DEC Role:

Ensure adherence to the 3/2/2018 Memorandum of Understanding between NorthStar and the State through:

- Ongoing communication and coordination
- Work with State consultant (Atlas) for non-radiological confirmatory surveys & analysis
 - Post Demolition Surveys
 - Groundwater split samples
- Corrective Action Plan (CAP) Review & Approval
- CAP Completion Review & Approval
- Permitting – work with other DEC programs
- Other report and progress review

Environmental Investigation

- **Groundwater Quarterly Sampling:**
 - December 14, 2021 & March 15, 2022
 - Atlas validated Haley & Aldrich procedures and laboratory results
 - Annual Report due May 2022

- **Cooling Tower #1 Post Demolition Survey:**
 - December 14, 2021
 - 4 ft x 45 ft x 450 ft excavation
 - Photoionization detector (PID) survey for volatile organic compounds (VOCs) detected no contaminated soil
 - Sampling not required

Corrective Actions

- **Approved Corrective Action Completion**
 - **East Cooling Tower Transformer (AOC 8B, PCS 8-5)**
 - Excavate polyaromatic hydrocarbon (PAH) contaminated soil
 - Approx. 2 ft x 20 ft x 25 ft
 - Contaminated soil shipped offsite to Waste Control Specialists LLC.
 - Excavation backfilled with clean fill
- **Corrective Action Plans submitted for Approval**
 - AOC 5 - Fuel-Impacted Soils at the Turbine Building
 - AOC 7a - Fuel-Impacted Soils at the 75,000-gallon Fuel Oil Aboveground Storage Tank

Other DEC Programs & Permits

- **Hazardous Waste Program (WMPD)**
 - No HW shipments since August 2021
 - Offsite battery shipment (as mixed waste) anticipated later this year
- **Stormwater Program (WMPD)**
 - Correspondence with H&A about consolidating and terminating permits
- **Public Drinking Water Program (DWGPD)**
 - Close out Construction Permit requirements
 - Update water quality sampling requirements
- **Rivers Program (WMD)**
 - June site visit specific to riverbank restoration following removal of intake/outfall structures
- **Site Visit last week (May 5 2022)**
 - Attended by Hazardous Waste and Direct Discharge Program Staff

DEC

Ongoing Work

- **Bi-weekly NorthStar, H&A, VT Agency Meeting**
- **Non-Radiological Investigations & Remediation**
 - As buildings removed, ground investigation and remediation will proceed as agreed
 - Some monitoring wells may be abandoned (sealed) & reinstated following demolition
 - Post-demolition surveys conducted & confirmed
 - Corrective Action Plans to be Approved
 - Corrective actions completed and confirmed
- **Ongoing Permits and Reviews**
 - Hazardous Waste, Solid Waste, Stormwater, Direct Discharge, Drinking Water, Rivers Program