

# Vermont DEC

## Waste Management and Prevention Division

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Vermont Yankee Nuclear Decommissioning  
Citizen Advisory Panel Meeting

DEC Oversight Status

January 13, 2020

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*Vermont DEC*



# Supplemental Site Investigation Work Plan

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## *Timeline*

- Supplemental site investigation workplan was reviewed by DEC and ATC
- Workplan for Supplemental Site Investigation Work Plan was formally approved by DEC on November 13, 2019
- Authorization provided by DEC to begin sampling after plan review as formal approval was underway
- Results will be submitted by Haley & Aldrich end of January
- Sampling results will be updated in the Site Investigation Plan
- If testing determines need for Risk Assessment, will follow the procedures outlined in Section 4 of the I-Rule governing remediation of all contaminated sites in VT.

# Supplemental Site Investigation Work Plan

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## *Additional samples collected*

- Soil samples for PAHs and SVOCs at **AOC 3, South Warehouse**
- Soil & groundwater samples for VOCs, PAHs, and TPH at **AOC 5 Turbine Building fuel storage**
- Soil samples at **AOC 7, 75,000g fuel AST**
- Soil and groundwater samples at **AOC 8, transformers for PFAS**
- Groundwater samples at **Cooling Towers** for metals
- Shallow soil samples at **AOC 16 rail line** for PAHs and pesticides
- Groundwater samples at **AOC 17 Groundwater** for petroleum, metals, and PFAS

# H&A Continuing Work

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## *Quarterly Groundwater Monitoring*

- May 2019: 1<sup>st</sup> round results included in initial investigation report
- August 2019: 2<sup>nd</sup> round results. Split sampling of groundwater samples by ATC along side H&A
  - results showed low level groundwater contamination in some monitor wells
- Nov. 2019: 3<sup>rd</sup> round. Split samples taken with ATC, results under review.
- Feb. 2020: 4<sup>th</sup> round. Will also include split samples

# H&A Continuing Work

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## *Groundwater intrusion into the Turbine Building Basement*

- H&A conducted groundwater pump testing with one well in front of the Turbine Building.
- 2 additional wells have been installed; all 3 will be connected to groundwater interception system to prevent infiltration
- H&A submitted permit application to discharge groundwater thru. the former cooling tower water discharge system
- Initial water quality tests show that this groundwater meets all drinking water standards.
- DoH is developing groundwater testing criteria for ANR for the discharge permit

# Ongoing Work

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## *Asbestos Abatement*

- Asbestos abatement observation continues at:
  - Turbine building
  - Advanced Off-Gas building
  - The cooling towers were demolished; asbestos work was completed with no anomalies
  - A site-wide asbestos review was conducted by ATC and Hillman (NorthStar asbestos contractor)
  
- ATC asbestos inspectors generally agreed with Hillman observations, and when ATC asked for additional samples they were collected and analyzed without any issues

# 2019 Waste Disposal Quantities

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*continued*

- 1521 tons of construction & demolition debris
  - Western Recycling, Wilbraham, MA
  - Millbury C&D Processing Station, Millbury, MA
- 537 yd<sup>3</sup> of asbestos
  - Minerva Landfill, Waynesburg, OH
  - Waste Management of NH, Rochester, NH
- 237 tons of scrap metal recycled
  - Mattuchio Scrap Metal, Everett, MA

# Post-Closure and Site Restoration Protocols

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*5(k) PUC MOU*

- A protocol has been written and approved by NorthStar and State attorneys, it is required by the MOU to establish procedures for:
  - Information sharing & records management
  - Obtaining samples from onsite environmental media
  - Conducting site visits and inspections
  - Site characterization
  - Remediation
  - Site restoration
  - On-going technical information exchanges
  - Notifications