

MCP Groundwater Investigation

Brief Chronology & Relevant MCP Regulations

- ***310 CMR 40.0315 – Reportable Conditions***
 - *Notifications to MassDEP in 2021 & 2022 for the measurement of compounds above applicable Reportable Concentrations (RCs) resulted in assignment of 5 Release Tracking Numbers (RTNs).*
 - *Supplemental investigations closed 2 RTNs (2022).*
 - *Three open RTNs: 1 primary (4-28765) with 2 linked (4-29313 & 4-29294) [2023].*
- ***310 CMR 40.0480 – Phase I Initial Site Investigation (ISI)***
 - *In accordance with MCP timelines, a Phase I ISI was submitted in April 2022, one year after initial notification.*
- ***310 CMR 40.0830 – Phase II Comprehensive Site Assessment (CSA)***
 - *Next regulatory submittal is a Phase II CSA, due in April 2025.*
 - *Additional site investigation to identify potential sources and determine extent is needed to meet requirements of a Phase II.*

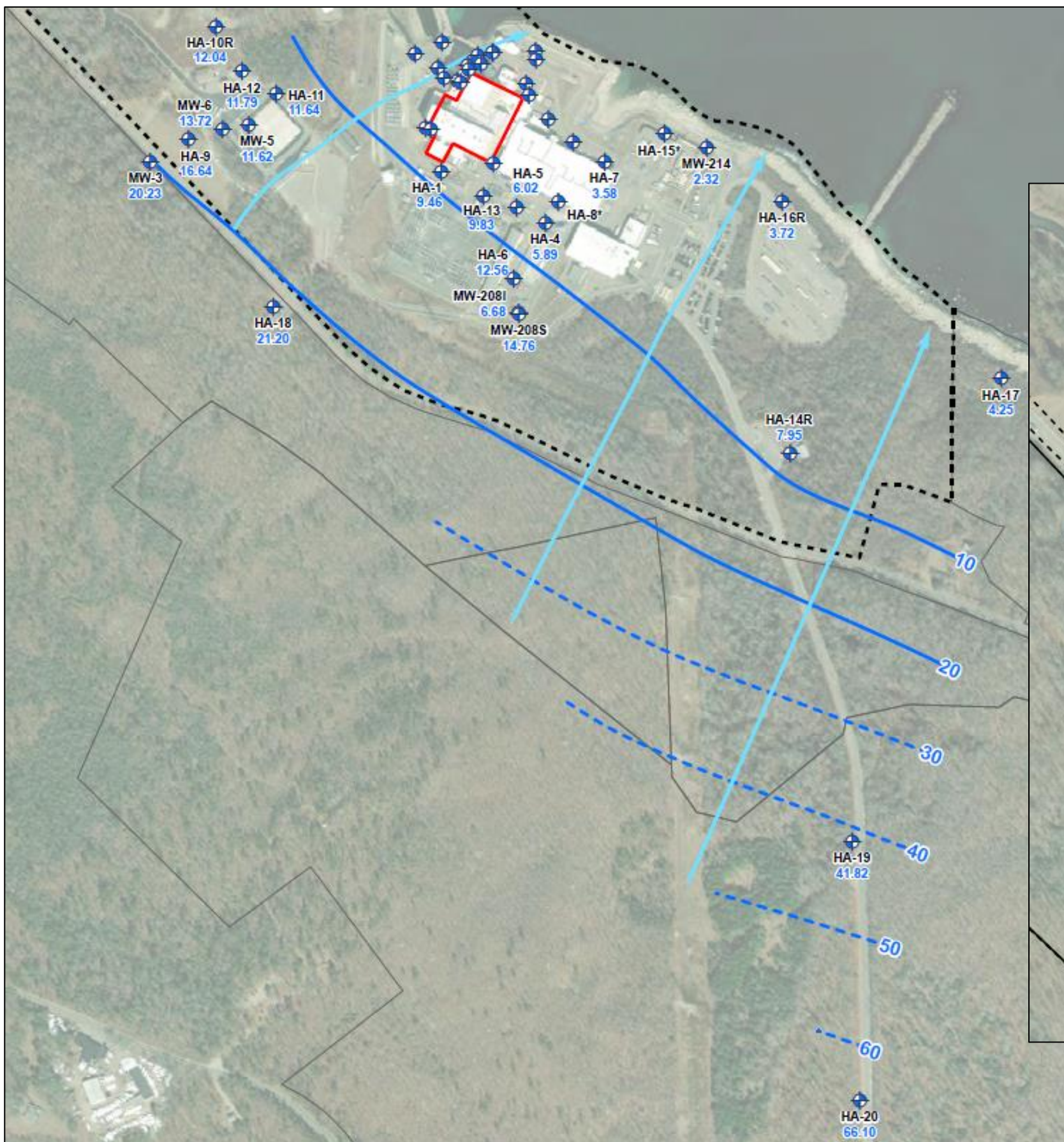
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Groundwater Flow Direction: Southwest to northeast toward Cape Cod Bay, consistent with previous investigations

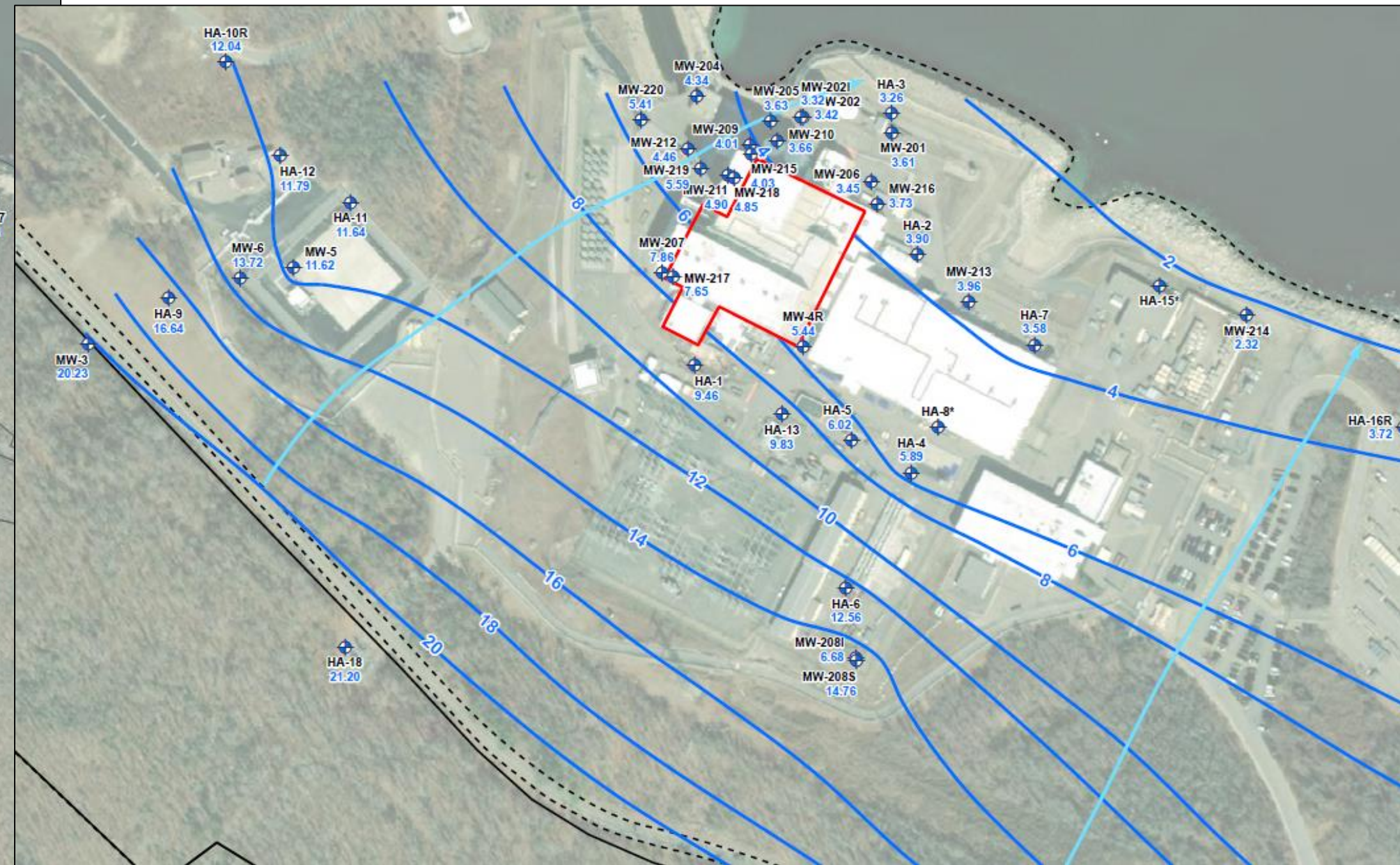


Legend

- Site Monitoring Well
- Groundwater Elevation Contour (Dashed where inferred)
- Approximate Interpreted Groundwater Flow Direction
- Property Boundary
- Power Block/Deep
- Parcel Boundary



Regional Scale

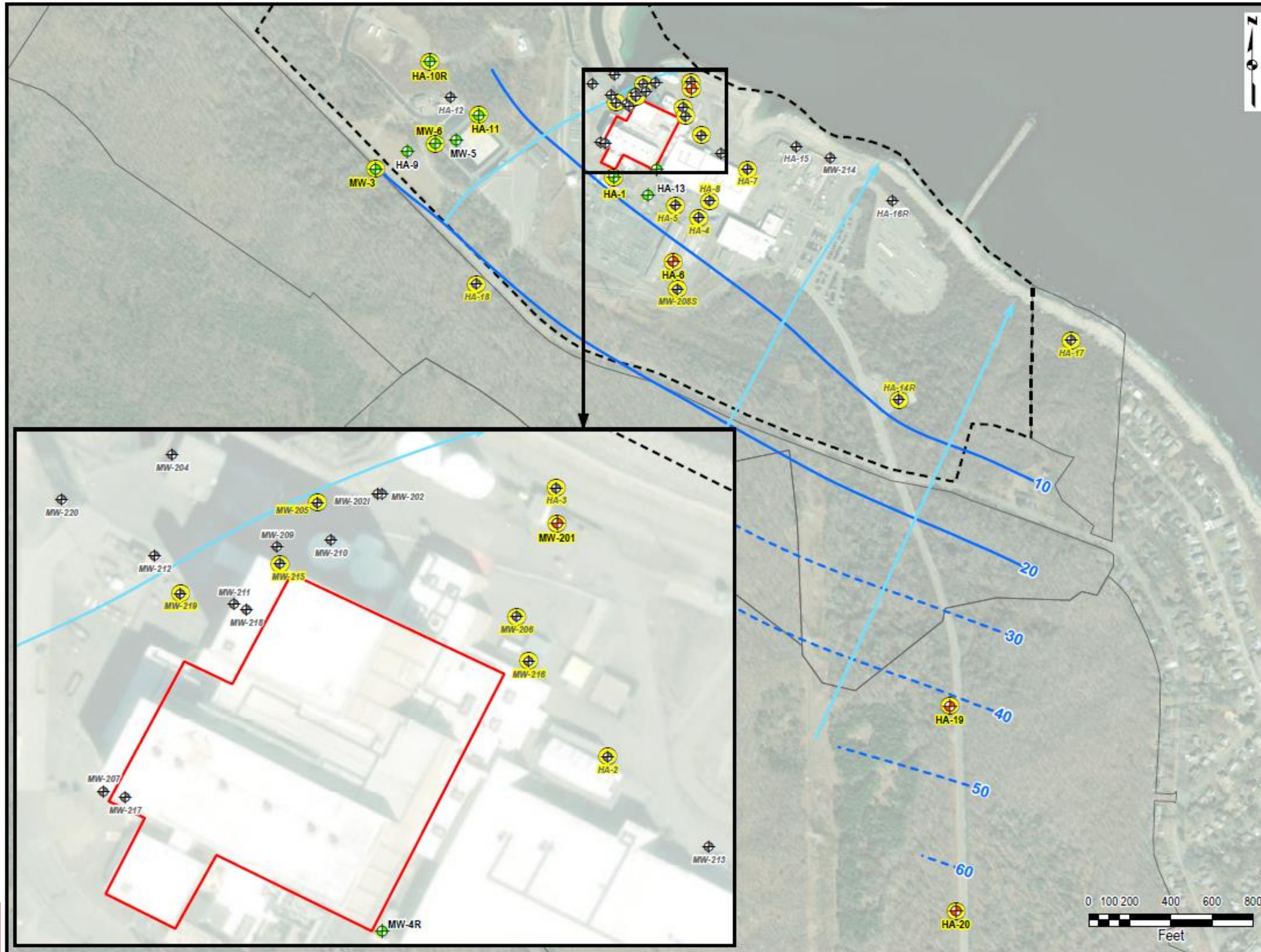


Local Scale

- Scope of additional sampling is based on the results of previous events and groundwater flow direction
- Scope has been provided to MassDEP for review and comment.

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PFAS – Previous GW results



Legend

- Monitoring Well Locations**
- Results Below RCGW-1
 - Results Above RCGW-1
 - Site Monitoring Well
 - Proposed Locations for Future Sampling
 - Approximate Interpreted Groundwater Flow Direction
 - Disposal Site Boundary
 - Power Block (Approximated)

- *Four (4) locations with PFAS(6) exceedances*

RCGW-1 Std.	Max. Detection
20 ng/L	72 ng/L

ng/L = nanogram per liter

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Proposed Monitoring Plan



- *Proposed sampling plan submitted to MassDEP for review and comment*
- *Proposed plan includes:*
 - *Measuring groundwater elevations to confirm groundwater flow direction*
 - *Groundwater flow is towards Cape Cod Bay*
 - *Assess prior exceedances of PFAS(6), benzo(a)pyrene, arsenic and vanadium in groundwater*
- *Prior exceedances slightly above MCP Reportable Concentration for GW-1 classified groundwater*
 - *GW-1 classification tied to high-yield aquifer*
 - *Groundwater not used as a source of drinking water at Pilgrim*
- *Results of proposed sampling will inform future sampling campaigns (e.g., number and location of wells, analytical suite for testing, etc.)*