



December 10, 2024

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# Update on DPW Environmental Site Assessment Activities

PRESENTATION BY:



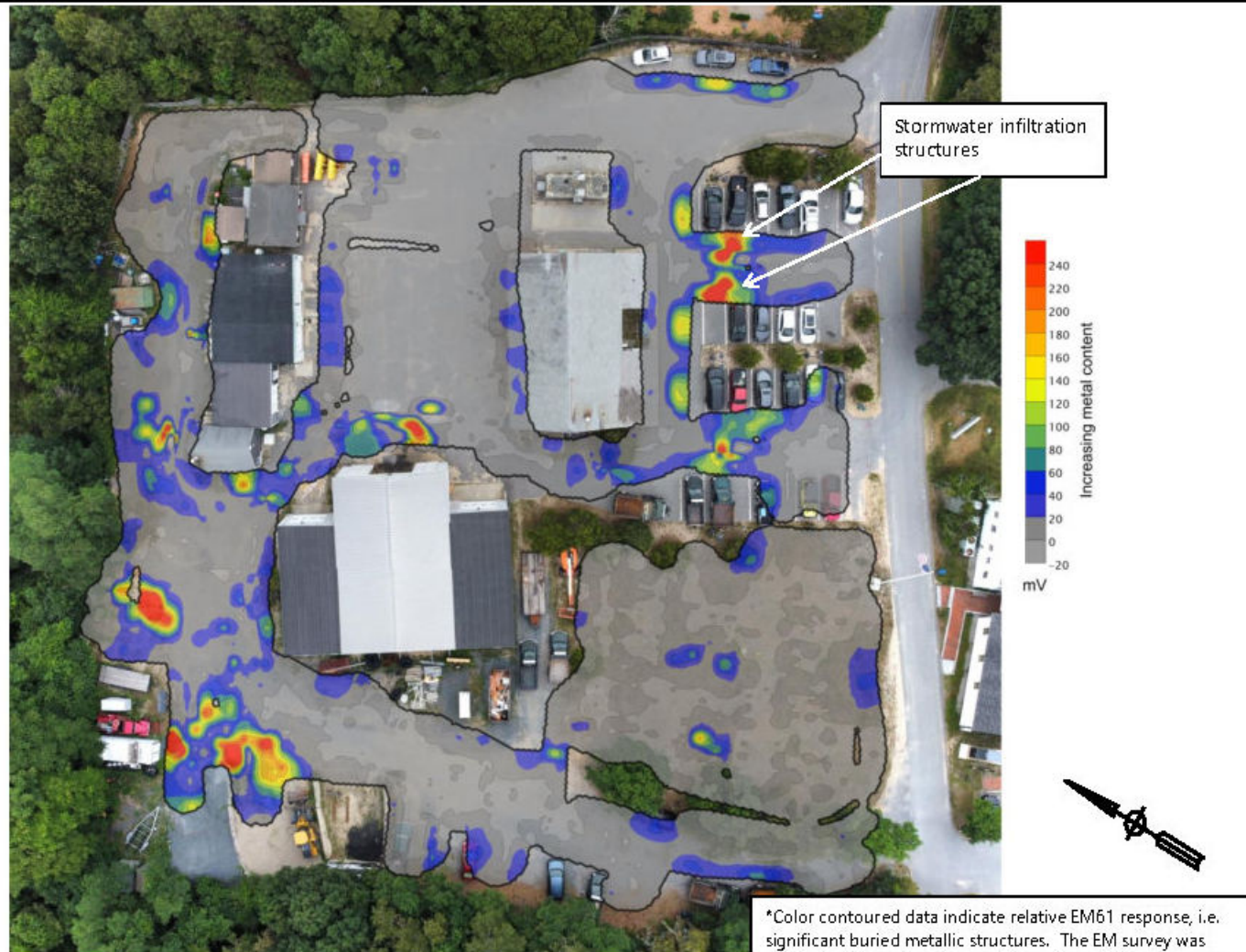
# Background

- The Town of Truro contracted HRP to complete a limited site investigation (LSI) to evaluate if the historical operation of a DPW facility at the Site since the 1950s had resulted in a reportable release of oil and/or hazardous materials (OHM) to the environment. The LSI included the completion of the following activities beginning in July 2024:
  - A geophysical survey using electromagnetic (EM) and ground penetrating radar (GPR) to determine the presence of buried metallic objects and to locate private utilities in the vicinity of the subsurface sampling locations.
  - Excavation of test pits, advancement of soil borings, and the installation of monitoring wells.
  - Collection of soil and groundwater samples for laboratory analysis of volatile petroleum hydrocarbons (VPH), volatile organic compounds (VOCs), extractable petroleum hydrocarbons (EPH), polycyclic aromatic hydrocarbons (PAHs), semi-volatile organic compounds (SVOCs), pesticides, herbicides, polychlorinated biphenyls (PCBs), MCP 14 metals, or per-and polyfluoroalkyl substances (PFAS).

# Background (Continued)

- Areas targeted for investigation included the following:
  - Septic system areas
  - Equipment storage areas
  - Maintenance garage/hydraulic lift areas
  - Former building area (southwestern grass area)
  - Petroleum storage areas
  - Areas behind the office/equipment storage buildings that were graded/filled with catch basin and street sweeping debris.

# GPR/EM Results



\*Color contoured data indicate relative EM61 response, i.e. significant buried metallic structures. The EM survey was conducted throughout accessible sections of the scan area, as indicated by black borderline.



17 Town Hall Rd, Truro, MA

Figure 1

Client: HRP

Date: 7/9/24

EM61 Survey Results (metallic structures)

- Areas in red indicate likely buried metallic object(s) (tanks, drums, etc.)



# Sampling Locations



# Subsurface Investigation Results to Date

## Petroleum Impacted Area

- A 275-gallon metal tank containing petroleum related compounds (PRCs) and six (6) 55-gallon drums containing residual PRCs were encountered at depth of approximately 2 feet bgs at test pit TP-5.
- HRP contacted the MassDEP and requested approval to complete an immediate response action that included the removal of the buried tank and drums, removal and off-site disposal of soil impacted with PRCs, and environmental assessment.
- MassDEP approved the IRA and issued RTN 4-50454.
- Approximately 50 tons of PRC impacted soil was removed from the TP-5 area. Post excavation laboratory sample results confirmed that the PRCs were remediated to below the applicable MCP Method 1 soil standards (residential).
- Groundwater was not impacted by the release of PRCs.
- The release obtained regulatory closure in October 2024 with the submission of a Permanent Solution Statement with No Conditions.





# Subsurface Investigation Results to date (continued)

## Petroleum Impacted Area (Continued)

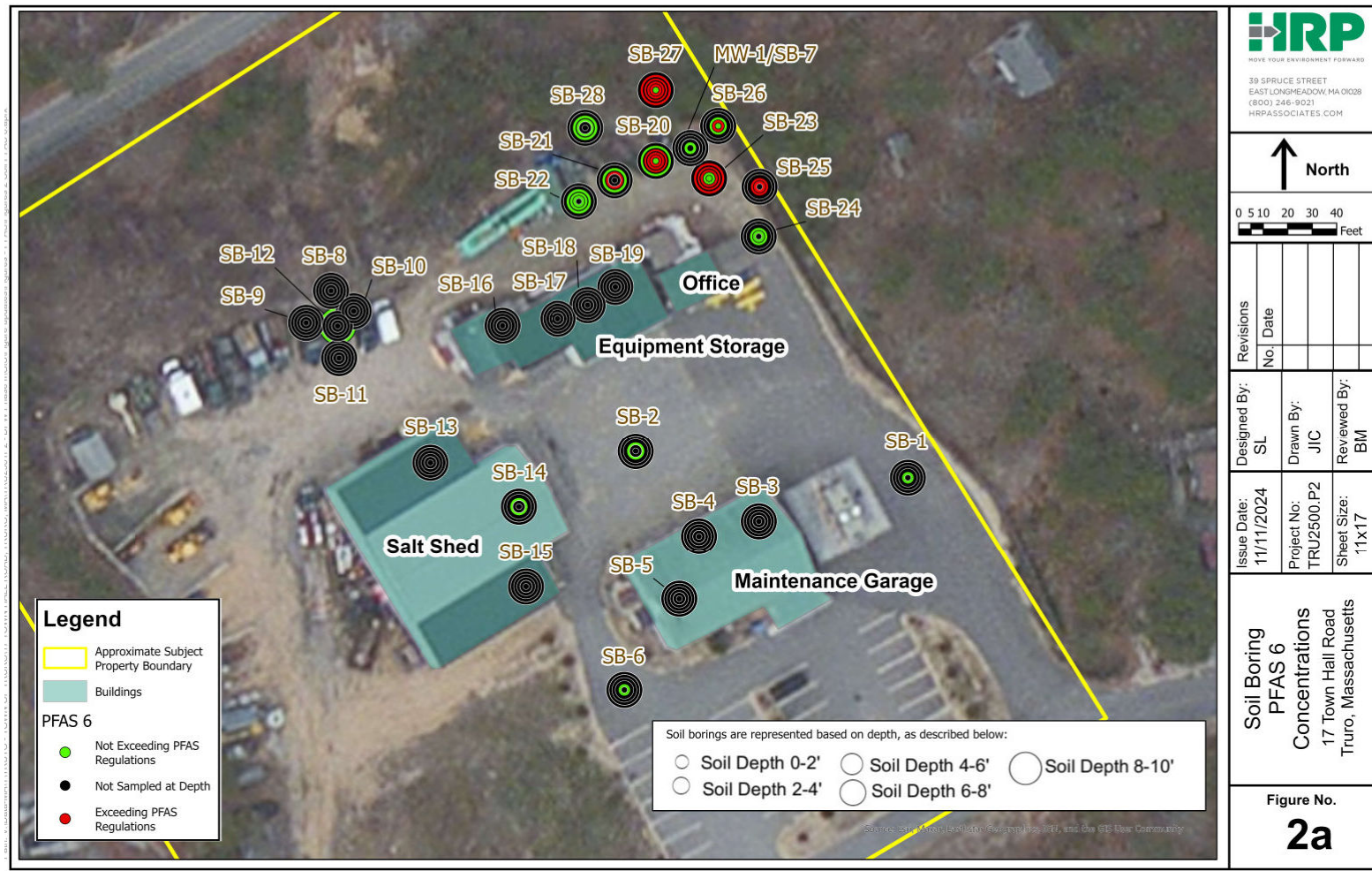




# Results of the Investigation to date (Continued)

## PFAS Impacted Soil Area

- PFAS identified as a potential concern in the catch basin/street sweeping area as indicated below. Investigation of this area is on-going.

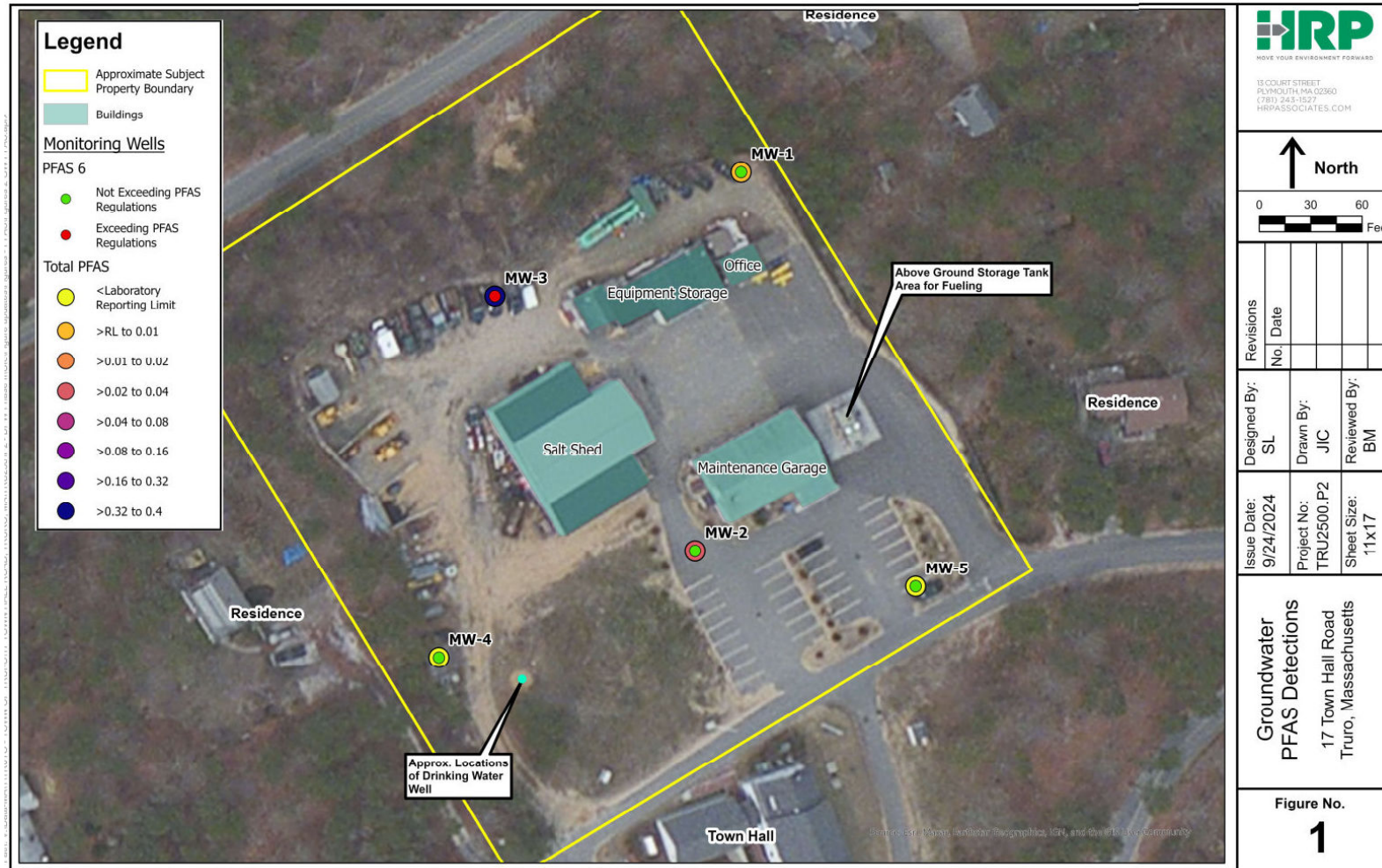




# Results of the Investigation to date (Continued)

## PFAS Impacted Groundwater Area

- PFAS was identified in groundwater, but it is currently unclear if the detections are related to the catch basin sediment/street sweepings or an unknown off-Site source. Investigation is ongoing.



# Next Steps

- PRC Area has achieved regulatory closure. 50 cubic yards of impacted soil was removed along with one 275-gallon AST and six 55-gallon drums. Post excavation analytical results were less than the applicable Method 1 Standards (residential) for soil and groundwater.
- PFAS area investigation in soil is on-going to delineate the vertical and horizontal extent of impacts. Impacts appear to be limited to locations that were filled with catch basin sediment/street sweepings.
- PFAS area investigation in groundwater is on-going to delineate the spatial extent of impacts. It is currently unclear if impacts are related to the catch basin sediment/street sweepings or from an unknown off-Site source that are migrating onto the property.
- To date, 44 soil samples and 10 groundwater samples have been collected for multiple laboratory analysis. Except for PFAS, no other contaminants of concern have been identified. PRCs have already been remediated and are no longer considered a concern.





# THANK YOU

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