

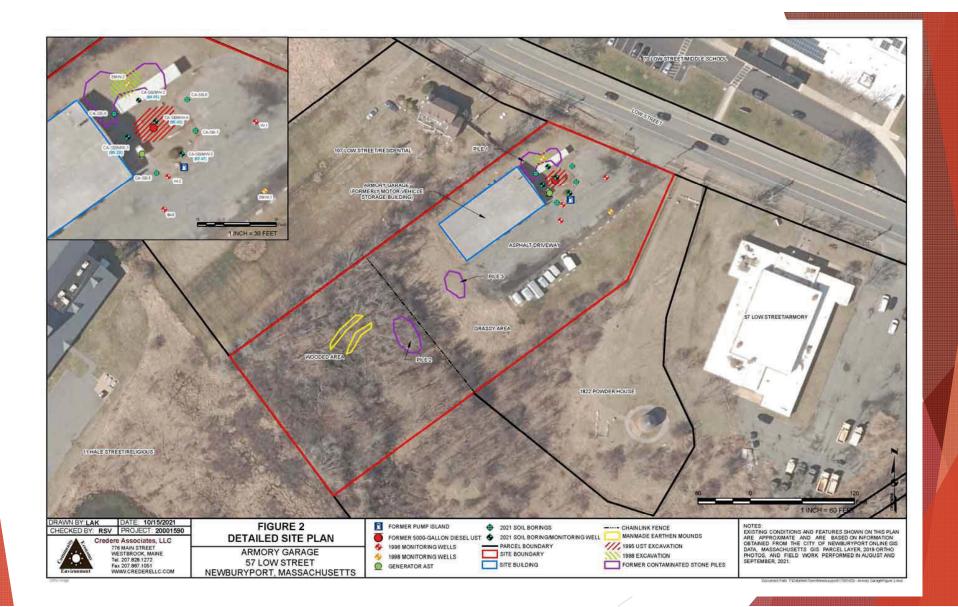
## Armory Garage - Scope of Work

- Assess residual petroleum impacted soil from a former leaking underground storage tank (UST) that does not meet unrestricted use standards
- Assess the suspected presence of PCB-containing building materials in the Site building

Assess the potential presence of mold

# Work Performed

- Installation of 8 soil borings & 4 monitoring wells
- Collection & analysis of the following media samples:
  - ▶ 8 soil samples & 4 groundwater samples
  - 4 suspect PCB-containing building materials identified during December 2020 work
  - ▶ 11 air samples for mold
  - ▶ 3 tape lift samples for mold



# Limited Phase II ESA Results

- Soil: Two Samples (CA-SB-4 & CA-SB-8) contained low concentrations of both VPH and EPH compounds below the Massachusetts applicable standards
- Groundwater: Methyl-tert-butyl ether (MTBE) is present in one well(CA-MW-2) but below applicable Massachusetts applicable standards. No EPH compounds were detected above laboratory reporting limits

# Limited Phase II ESA Results

- PCBs: Two materials were identified containing PCBs >1 mg/kg and <50 mg/kg</p>
  - CA-PCB-2: expansion gasket, black (foundation)
  - CA-PCB-4: mastic, black (below boiler in boiler room)
- Mold: None of the detected mold spore counts in the air samples exceeded any of the Calculated Reference Standards
- Mold: Pithomyces were identified at a "high" level in the tape lift samples from the Men's Bathroom



#### Findings - December 2020 HBMS

- Lead-containing paint present throughout the building
- Lead-based paint outside on flag point and adjacent to garage doors
- Asbestos is present in/on the building







#### Findings - October 2021 Limited Phase II ESA

- Residual petroleum impacted soil onsite associated with the former leaking UST (previously cleaned up & regulatorily closed), but it is below applicable Massachusetts soil & groundwater standards
- PCB's are present in 2 of the 4 materials sampled greater than 1 mg/kg but less than 50 mg/kg
- Mold is not present in the building airspace at concentrations exceeding Site-specific calculated reference standards; however, sensitivities vary greatly by individual
- Mold tape lift sample results indicate that mold growth is occurring on the Men's Bathroom wall

## Recommendations & Budgetary Estimates

- Abatement of Asbestos that will be impacted during future renovation or demolition
  - \$33,000 to \$57,000 for the roof abatement
  - \$600 to \$1,000 for expansion gasket abatement (only if demolished)
- Manage painted surfaces that contain lead appropriately during future renovations
  - ▶ \$10,000 to \$15,000 encapsulation of LBP/LCP
- PCB-containing materials below 50 mg/kg once removed during renovations must be disposed at a facility licensed to accept this waste material
  - \$2,000 to \$5,000 PCB remediation (only if renovation)
- Visible mold identified in the Men's Bathroom should be remediated
  - <\$5,000 (assuming no hidden mold)</p>

## 2021 Phase I ESA - Armory Garage

- Historical Recognized Environmental Condition (HREC) #1 Impato to soil associated with the former storage of contaminated ballas material onsite
- HREC #2 Residual petroleum impacted soil from a former leaking UST (Tank 1)
- Environmental Finding (EF) #1 Confirmed presence of ACM in/on the Site building
- EF #2 Confirmed presence of lead paint in/on the Site building
- EF #3 Confirmed presence of PCB-containing building materials in/on the Site building