

Massachusetts Water Resources Authority

Metropolitan Water Tunnel Program

Wellesley School Committee

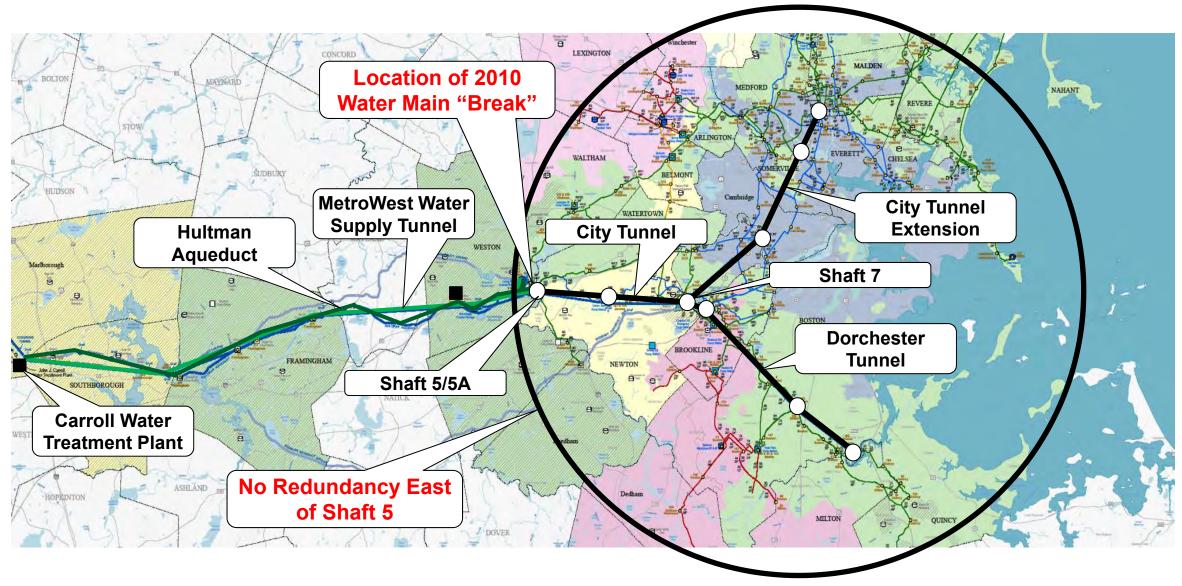
Geotechnical Investigation at the Schofield Elementary School

Topics

- Metropolitan Water Tunnel Program
- Tunnel Program Schedule
- Geotechnical Investigation Program
- Where to Find Information / How to Contact Us
- Questions?



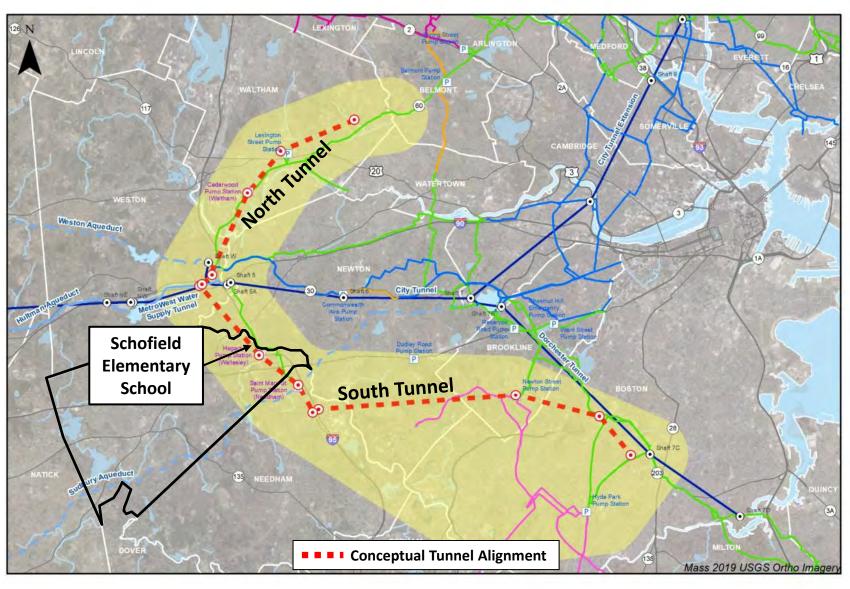
Metropolitan Tunnel System Serves About 60 Percent of Water Demand in Metropolitan Area





Metropolitan Water Tunnel Program

- ~14.5 miles of deep, hard rock, pressure tunnel
- Tunnels will begin in the Weston (I-90/I-95 vicinity)
- Northern Tunnel ~4.5 miles, ends near Waltham/Belmont line
- Southern Tunnel ~10 miles,
 ends in Mattapan near American
 Legion
- Six intermediate connections to existing water infrastructure
- Construction anticipated between 2027 and 2040





Program Wide Geotechnical Investigation Overview

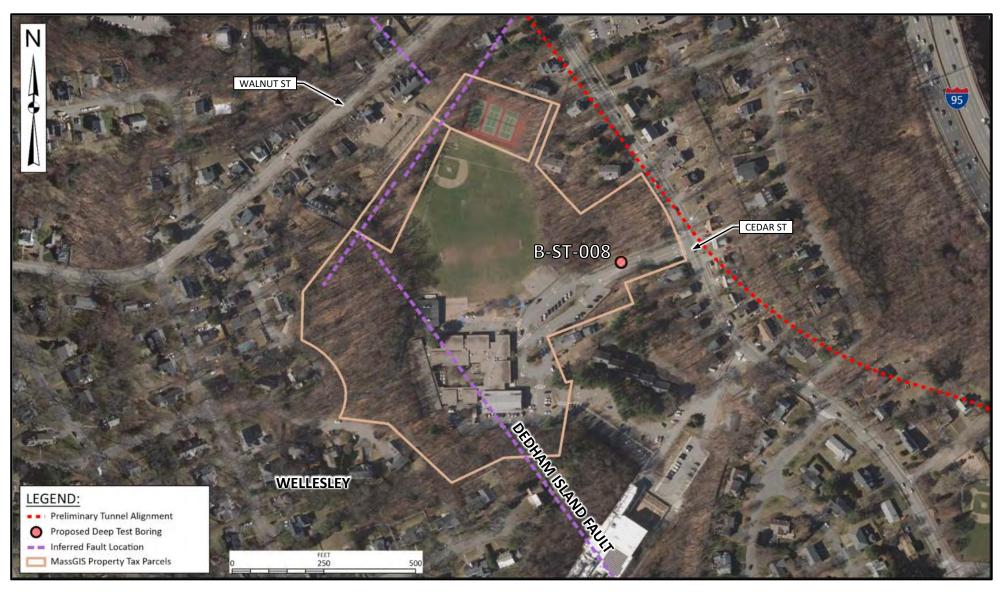
- The geotechnical investigation started in the spring of 2021 and will last multiple years to support the design and construction of the Program
- The investigation consists of conducting deep test borings and surface geophysical survey along the proposed tunnel alignment
- The purpose of the investigation is to:
 - Build upon the data we have collected in the first phase of geotechnical investigation
 - Advance understanding of area geology with target on areas of challenging geology (faults, river beds, etc.)





Proposed Geotechnical Investigation Location

- 1 Deep Test Boring
 - Rock coring
 - Borehole testing





Geotechnical Investigation – Deep Test Borings

Deep Test Borings

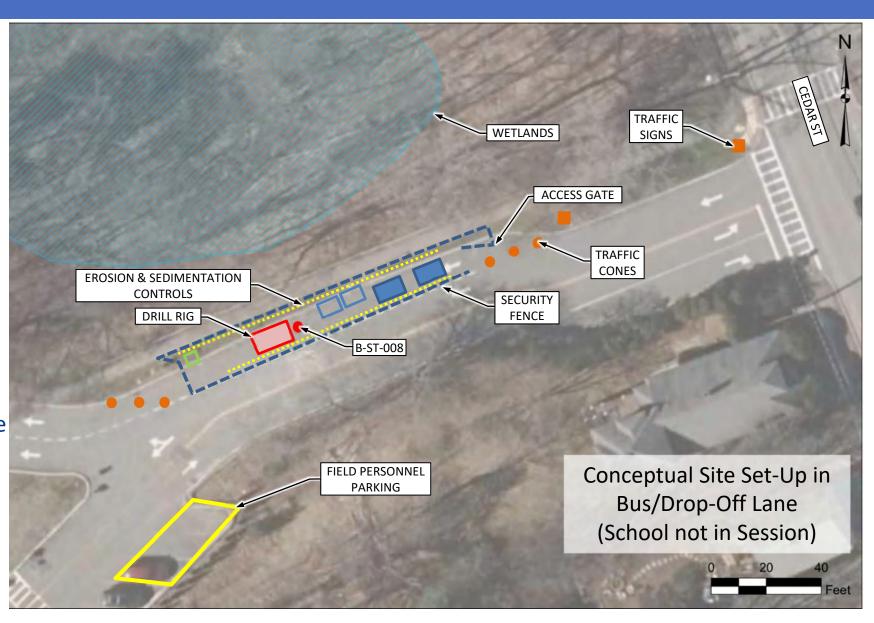
- ~4-inch diameter, ~400 ft deep
- No analytical (chemical) testing of soil/rock/groundwater
- Downhole geophysical logging and permeability testing

What will I see?

- Fenced-in work area
- Erosion & sedimentation controls
- Drill rig, support truck, water truck/tanks, testing equipment, area for rock core logging, portable toilet etc.
- ~3 to 6 person crew

When will it happen?

 Summer of 2023, when school is out of session





Geotechnical Investigation – Health and Safety

- The health and safety of the work crew and pedestrians/abutters are the Program's top priority during the geotechnical investigation
- Comprehensive Health and Safety Plan establish for Investigation Program
- Deep test boring sites are enclosed with temporary chain-link fence
 - Fence is locked with a heavy-duty lock at the end of each work day
 - No equipment or materials are left outside of the temporary fence
- The work crew starts each work day with a health and safety briefing



Newton South High School

Daily Health & Safety Briefing





Geotechnical Investigation – Deep Test Borings

- Upon completion:
 - All excess materials drummed and removed from site
 - Backfill borehole with clean cement-bentonite grout
 - Work site restored upon completion (before, during, and after photos taken at all locations)

Before During After

Bering

Boring

Boring

St Mary St, Needham



Geotechnical Investigation – Deep Test Borings

- How long will it take?
 - Given the depth and all the testing to be done within each borehole, it is anticipated each boring will take about 6 to 8 weeks to complete

Work will be during normal business hours (Monday-Friday,
 7am to 4pm)



Request and Next Steps

 Request School Committee Approval to conduct one deep test boring at the Schofield Elementary School in support of the Metropolitan Water Tunnel Program



- Upon Approval
 - Execute License Agreement
 - Obtain all necessary permits
 - Coordinate start date and logistics with Town and school staff



Where to Find Information / How to Contact Us

- https://www.mwra.com/mwtp.html
 - Program documents (ENF, DEIR)
 - Meeting notices, agendas, presentations, minutes

- Contact Us
 - Carmine DeMaria, Community Relations Coordinator
 - **–** 617-305-5725
 - Carmine.DeMaria@mwra.com
 - Tunnels.info@mwra.com



Questions/Comments?



Thank you!