



Presentation to

MWRA Board of Directors

*Surplus Water Easement of the
Abandoned Mystic Water Mains*

June 26, 2024



Map of Proposed Surplus Sewer Easement

Attachment A
Proposed Surplus Water Easement
58 Main Street, Somerville





Presentation to

MWRA Board of Directors

*West Roxbury Tunnel Inspection
Sections 637 & 637A
Black Dog Divers, Inc.
Contract 6898*

June 26, 2024



Project Location

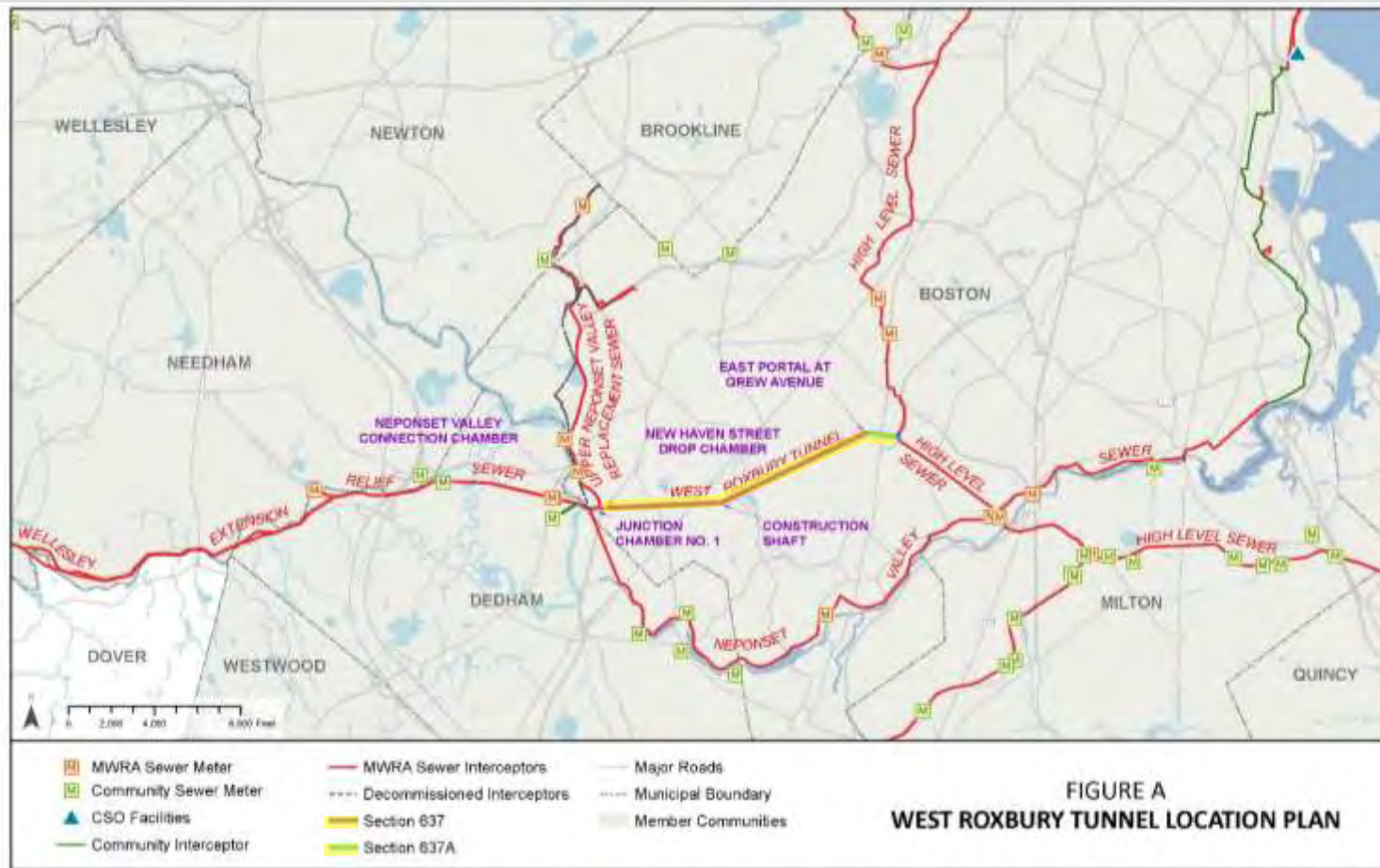
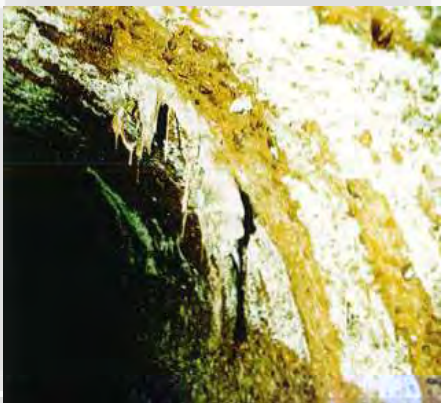


FIGURE A
WEST ROXBURY TUNNEL LOCATION PLAN



Background

1999 Tunnel Inspection



2002 Rehab. to New Haven Street
Drop Chamber and Wellesley
Extension Relief Sewer



2010 Tunnel Inspection





Project Scope

- Physical entry video inspection
- Tunnel measurements, pH readings, structural testing
- Core sampling
- Sediment measurement and sampling
- Dry weather bypass
- Rescue team





2010 Bypass Setup





Summary of Bids Received – Bid opening April 25, 2024

BIDDER	BID PRICE
<i>Engineer's Estimate</i>	<i>\$1,156,335</i>
Black Dog Divers, Inc.	\$1,656,930
R. Zoppo Corp.	\$2,122,000

Schedule – 365 total contract days

Description	Anticipated Date
Notice to Proceed	July 2024
Substantial Completion	July 2025



Presentation to

MWRA Board of Directors

*Agency-Wide Technical Assistance
Consulting Services*

*Contract 7990 Amendment 1 (Hazen and Sawyer, P.C.) and
Contract 7991 Amendment 1 (Kleinfelder Northeast, Inc.)*

June 26, 2024



Provide multi-discipline services of qualified, professional engineering firms:

- Studies and designs;
- Engineering Services During Construction; and
- Resident Engineering/Inspection.

Typically used for:

- high priority or unanticipated projects;
- smaller projects such as roof and fuel oil tank replacements;
- expertise / specialized disciplines short term assignments; and
- emergency or unanticipated situations.



Agency-Wide Technical Assistance Consulting Services

Contract Number	NTP	Duration (years)	Amount	Amend. Time (years)	Amend. Amount	Total Amount
7990 (Hazen)	1/9/23	2	\$3.0M	1	\$1.5M	\$4.5M
7991 (Kleinfelder)	12/21/22	2	\$3.0M	1	\$1.5M	\$4.5M
TOTAL			\$6.0M		\$3.0M	\$9.0M



Install Hydraulic Relief at the CSO CHE008



New Concrete Headwall



New 48" Pipe



Prison Point CSO Facility Discharge Pipe Repair



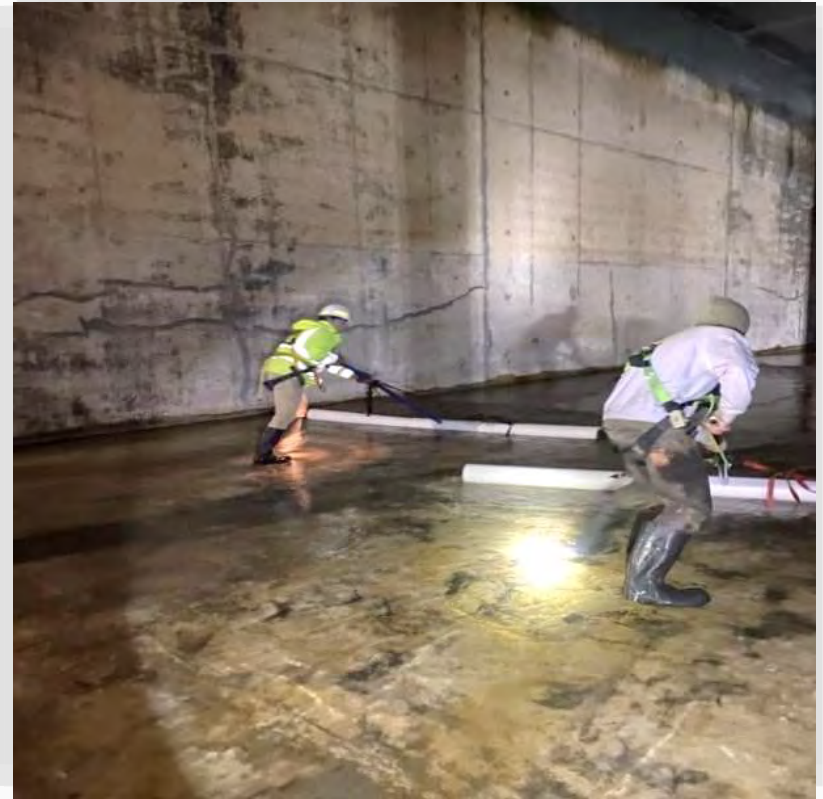


Winsor Dam Intake Masonry Repairs





Norumbega Covered Storage Tank Cleaning Projects





Top of Shaft 5 Improvements





Belle Isle Sandcatcher and Headhouse Rehabilitation





Structural Evaluation of the Bellevue Standpipe 1 and Arlington Heights Tank



Bellevue Standpipe 1



Arlington Heights Tank



Presentation to

MWRA Board of Directors

*Nut Island Headworks
Odor Control and HVAC System Improvements
Contract 7548 - Change Order 18*

June 26, 2024



Floor Coating Surface Preparation





Floor Coating Voids and Cracks



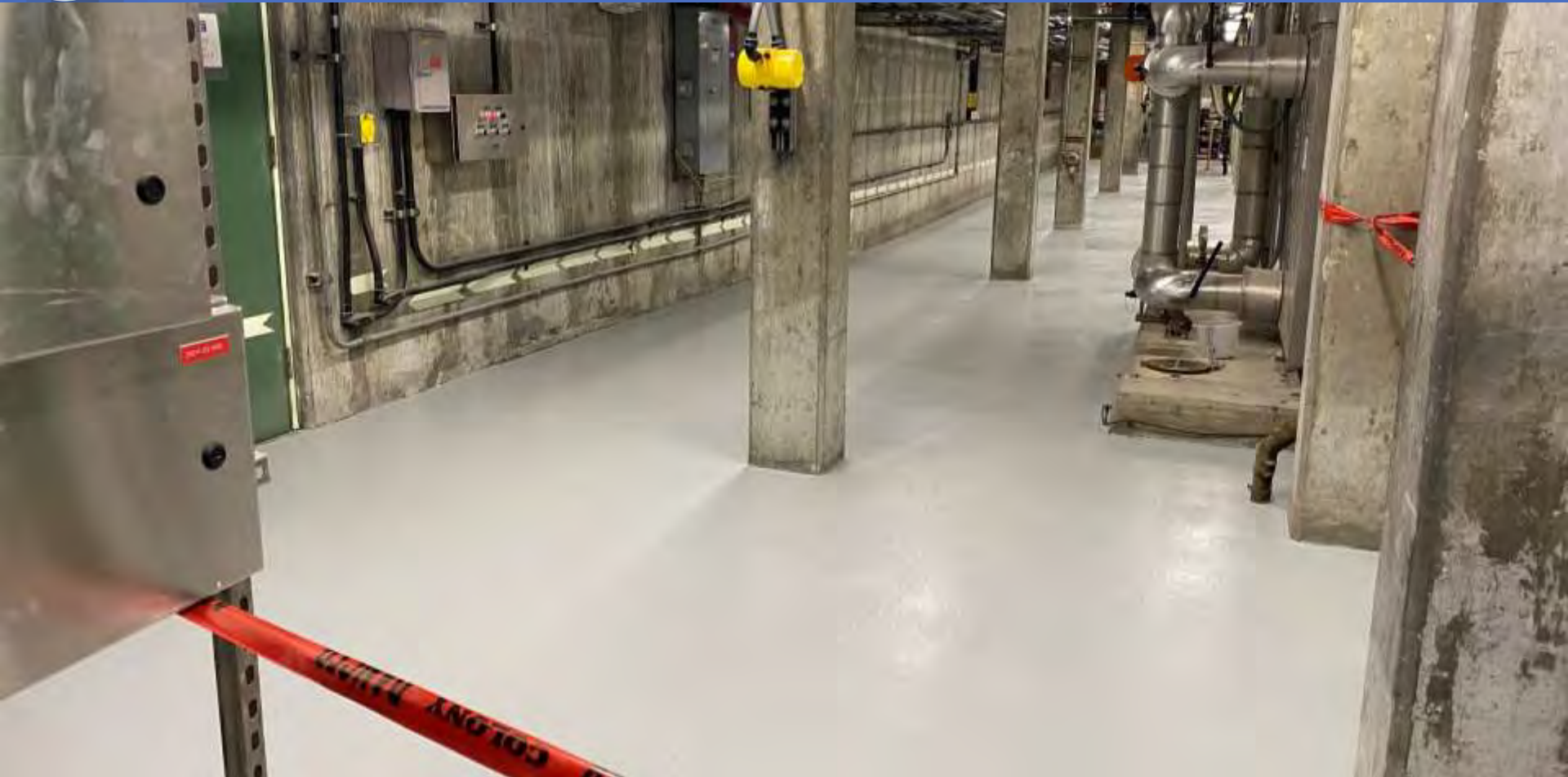


Floor Coating Crack Filler and Vapor Resistant Primer





Floor Coating Final Top Coat





Odor Control Roof Hot Liquid-Applied Rubber





Odor Control Roof Insulation Board





Odor Control Roof Sloped Topping Slab and Masonry Shelf





Odor Control Roof Drainage Mat and Crushed Stone Layer





Odor Control Roof Soil Backfill





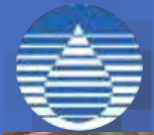
Odor Control Roof Final Plantings





Odor Control Room





Carbon Adsorbers (10)





Air Handling Units (14)





Site Restoration and Final Landscaping





Presentation to

Board of Directors

Contract No. 7614

*Dam Safety Compliance and Consulting Services
Repairs Design and ESDC – Amendment 3*

June 26, 2024



Scope of Contract

Sudbury Spillway Masonry Repair



North Dike Overtopping Protection



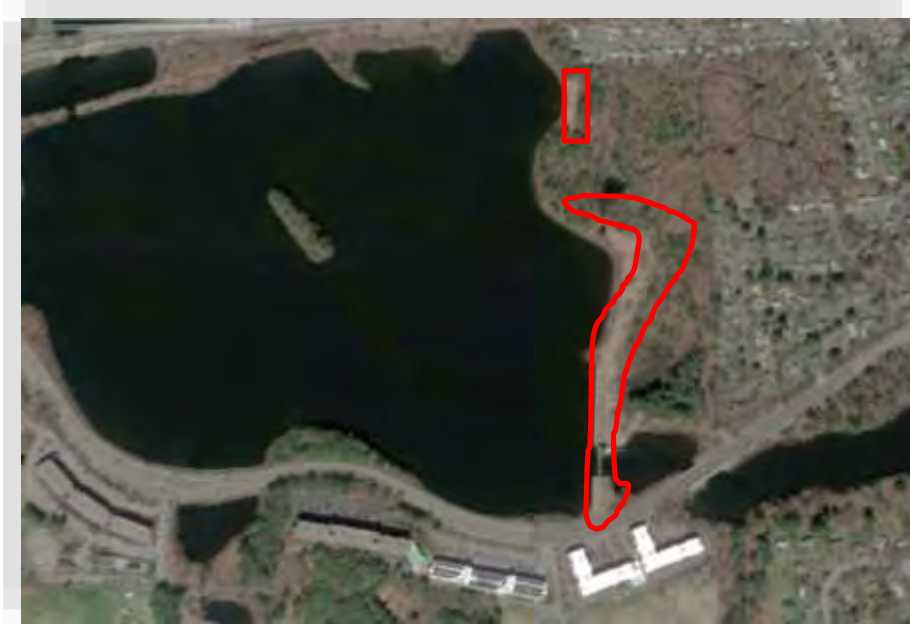
Chestnut Hill Dam Seepage Repair (added by Amendment)

Foss Dam Overtopping Protection





New Regulatory Requirements



Example of TRM erosion control



Piezometer installation in dam



Wachusett North Dike Modifications





Presentation to

MWRA Board of Directors

*TRAC Amendments to MWRA Regulations for
Sewer Use (360 CMR 10.000)*

June 26, 2024



MWRA Regulation Revision (Monitoring Charges/ Permit Fees)



Industrial Monitoring



New trap Inspection



Inspection for Permitting



Lab sample storage



Lab analysis





Presentation to

Board of Directors

Contract No. 7348

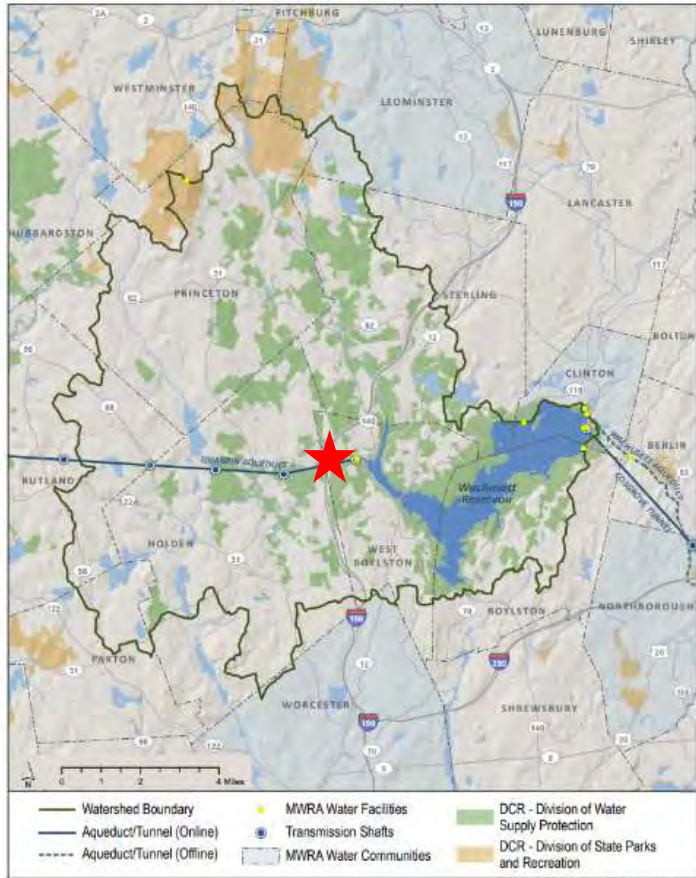
Quinapoxet Dam Removal Update

June 26, 2024



Quinapoxet Dam Location

Wachusett Watershed





Quinapoxet River Channel 1902 – 1904





Quinapoxet Circular Dam 1905





Sediment control function of enlarged downstream channel





No longer serves original purpose





Existing dam condition





- Ecological Restoration
- Natural riverine hydrology aids in climate resilience
- *DER: “Quinapoxet River at this location has high potential for restoration”*





Quinapoxet Dam Removal Groundbreaking - June 18, 2024





Welcome and Project Overview





Project Partners





Ceremonial Groundbreaking







Presentation to

MWRA Board of Directors

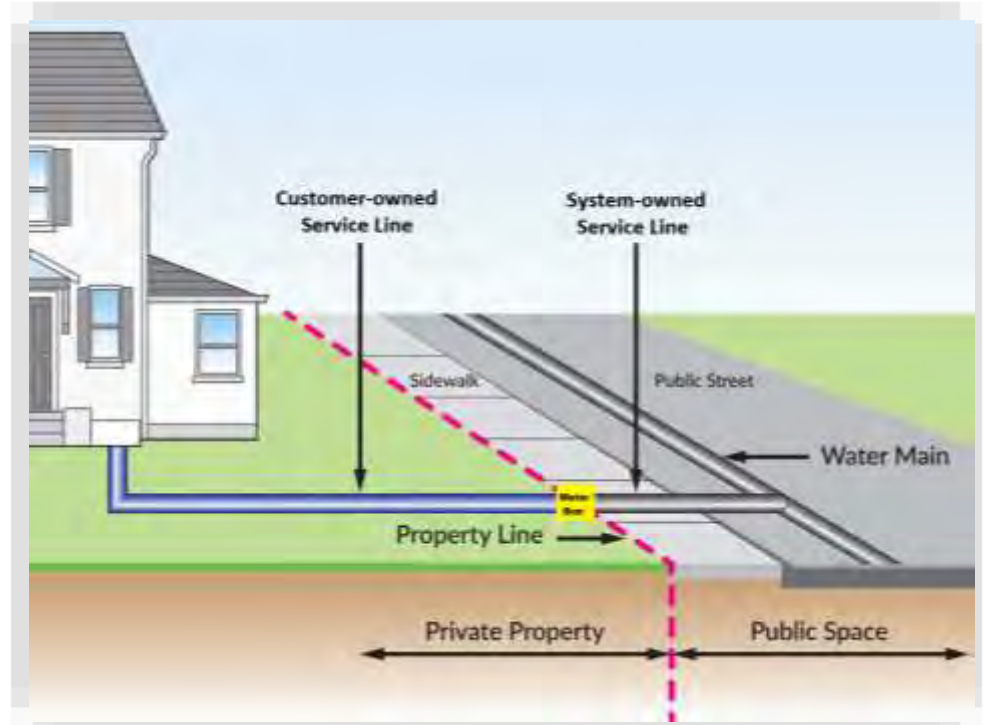
*Revisions to Lead Service Line Replacement
Program Guidelines*

June 26, 2024



Replacement of Lead Service Lines

- Lead Service Lines Are the Largest Contributor of Lead Levels in Drinking Water
- Reluctance of Homeowners to Pay for Replacement of the Part on Private Property has been an Obstacle to Program Success
- To Accelerate Replacement, the Board Approved the Addition of a 25% Grant
- Staff have Revised the Program Guidelines, with Input from the Advisory Board





Highlights of Revisions to Guidelines



- Updated Program Guidelines Include New Language about Grant
- Full Funding of Private Side Replacement Required to Receive Grant
- Interest-Free Loan Still Available to any Communities not Funding Private Side Removal
- Revised Program will be in effect July 1, 2024
- Retroactive Fundings Not Eligible to Receive Grant



Future Program Updates

- Goal is to Replace all Lead Services by 2032
- Plan to Return to Board with Regular Progress Updates
- MWRA Finance Staff Investigating Additional Funding Sources
- Currently In Discussions with Massachusetts Clean Water Trust about SRF Funding