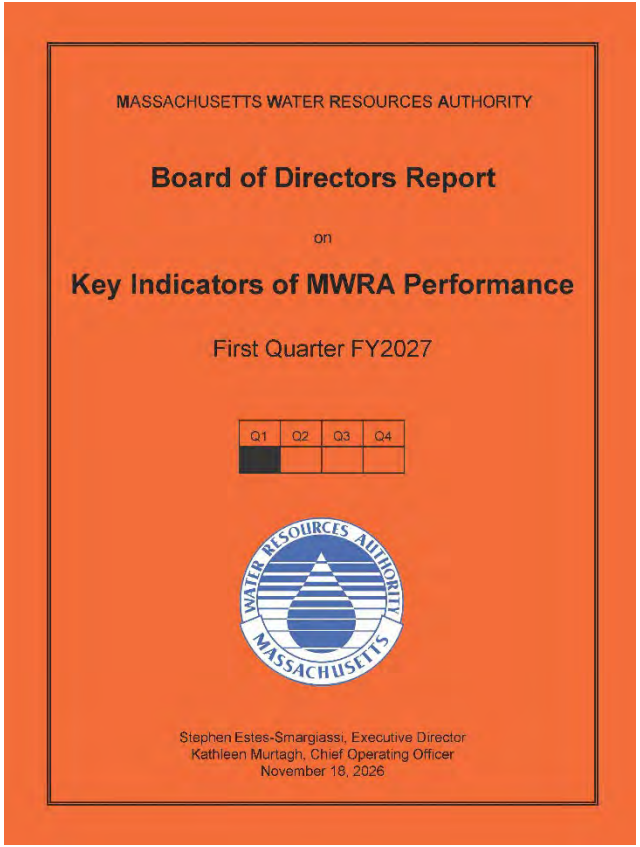
FY27 First Quarter Orange Notebook Highlights


MASSACHUSETTS WATER RESOURCES AUTHORITY

Board of Directors Report

on

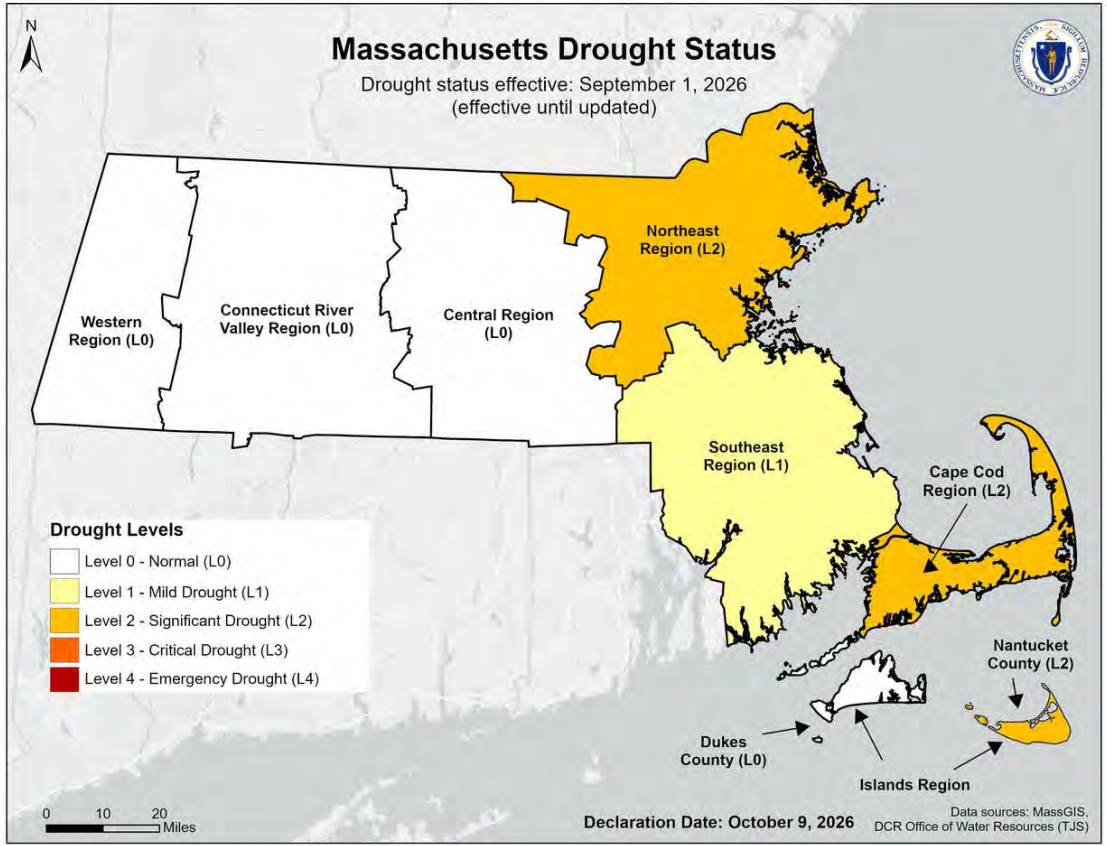
Key Indicators of MWRA Performance

First Quarter FY2027

Q1	Q2	Q3	Q4
■			

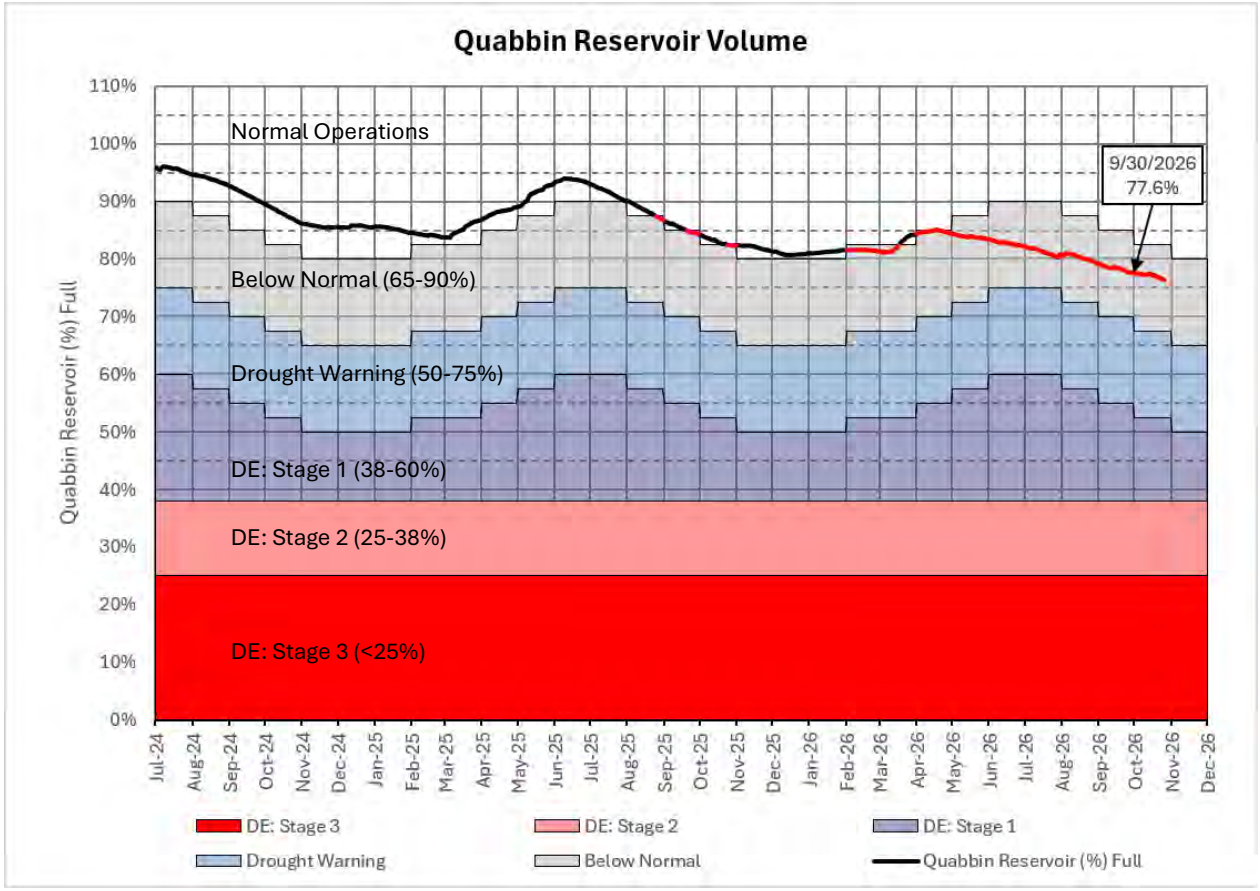
Stephen Estes-Smargiassi, Executive Director
Kathleen Murtagh, Chief Operating Officer
November 18, 2026

Drought Status Update



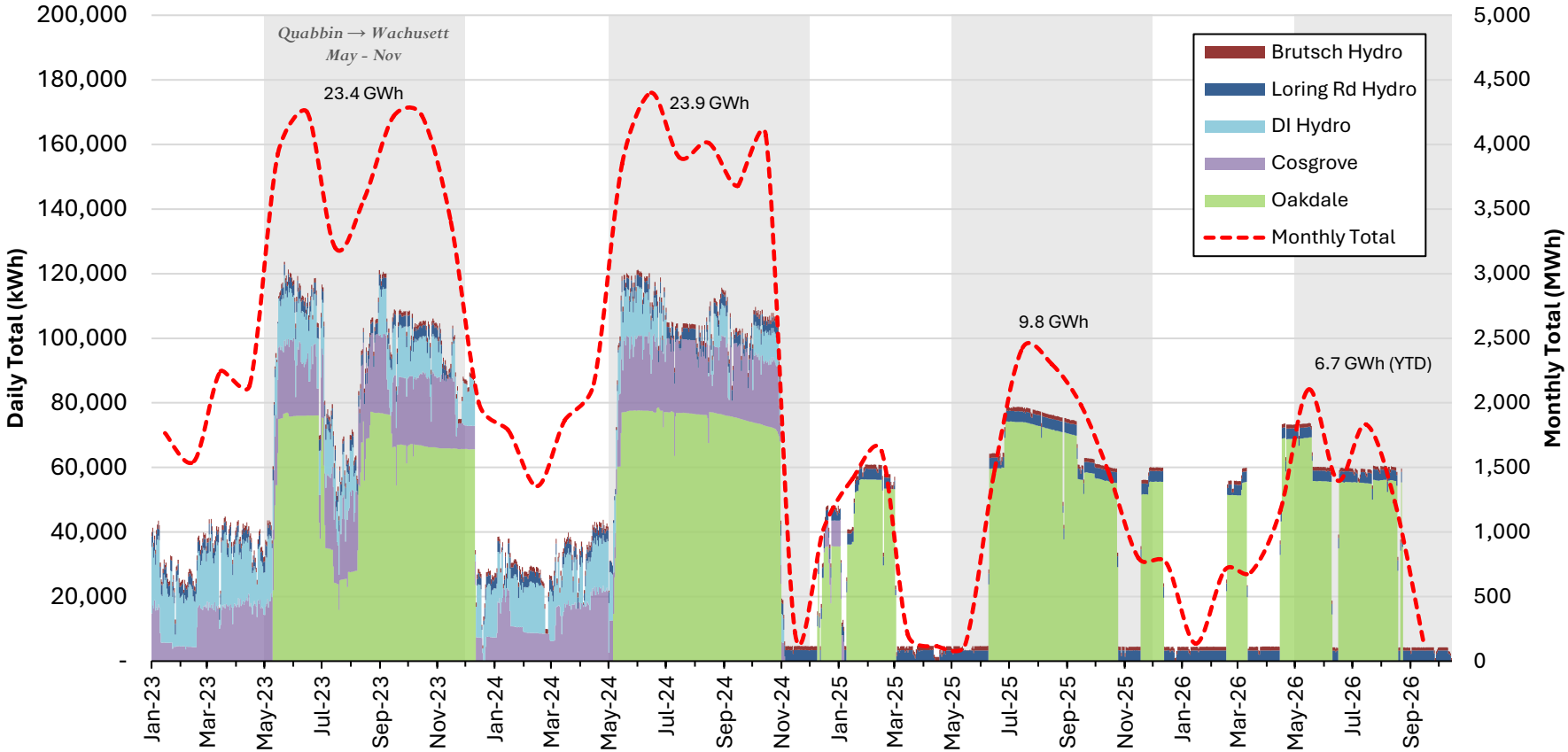
- Drought Levels were downgraded in Q1 across the state
- Both CT River Valley and Central regions went from L2 – Significant Drought to Normal status during Quarter 1
- Quabbin and Wachusett Rainfall 40-50% above 20-year average for Quarter 1, due to a few large storms

Quabbin Reservoir Remains Below Normal Range



- Quabbin Reservoir at 77.6% capacity as of end of Quarter 1. 76.3% as of October 30.
- The low end of normal range reaches 80% in November, does not increase until February. Drought warning begins at 65% during this period

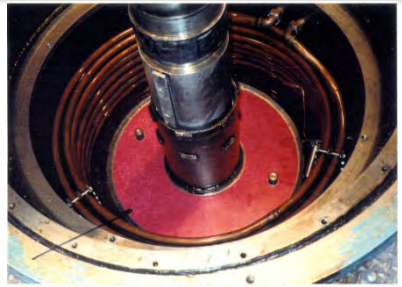
Impact of Maintenance at Hydro Facilities



Hydro Turbine Status

Oakdale – Quabbin Aqueduct Shaft 1

- Out of service since August 24th due to suspected thrust bearing oil leak
- Largest of MWRA's turbines, rated at 3.4 MW
- Staff expect the turbine to be repaired and tested by the end of the month





Cosgrove Intake – Wachusett Reservoir

- Out of service since January 2025 to allow for work on nearby Wachusett Dam Lower Gatehouse. Electrical issues have prevented reactivation
- The transformer at the site is in the process of being replaced

Deer Island Outfall

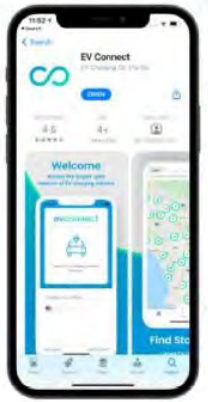
- Turbine #1 has been inactive since July 2023, #2 since November 2024
- Both experienced equipment issues and are currently being rehabilitated
- Independent Efficiency study completed in November 2025, found rehabilitation is cost effective



Fleet Electrification Update



- EV charging stations available for fleet and employee use on personal vehicles for a fee at Deer Island, Chelsea Facility, and Southborough
- Additional charging stations in planning stage for Carroll Water Treatment Plant



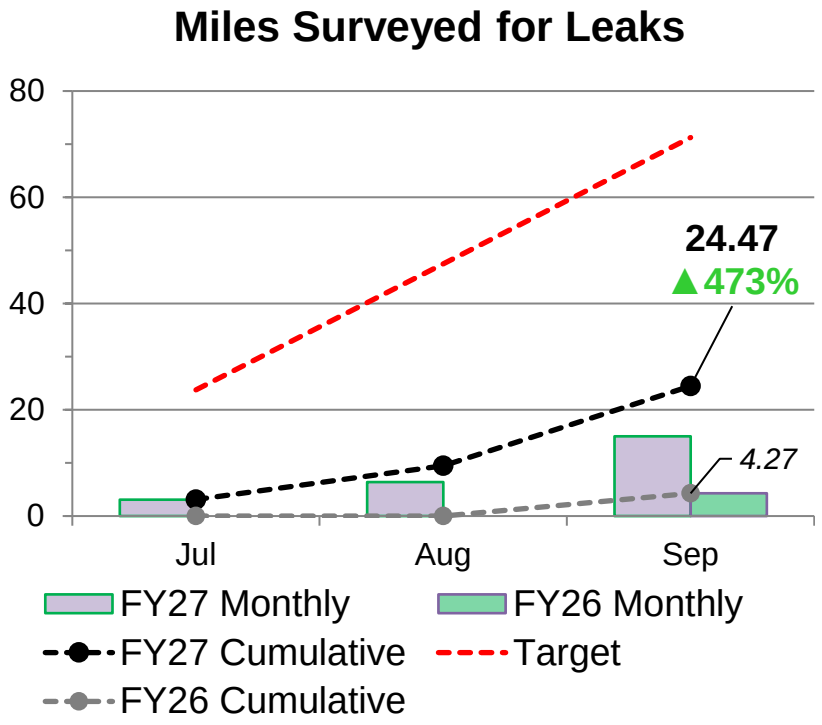
Download the free EV Connect App.

- Internal Audit Department began Fleet Optimization Analysis
- Preliminary findings suggest new department assignments for some EVs

Employee Use of Electric Vehicle Chargers at MWRA Facilities for Personal Vehicles

Policy #: HR.29

Water Pipeline Inspection Update



- Miles of water pipeline inspections in Quarter 1 totaled more than 80% of all inspections in FY26
- Staffing challenges limited inspections (task can only be performed overnight)
- As of the end of the Quarter, 3 out of 4 related Senior Field Service Technicians positions have been filled

Presentation to

MWRA Board of Directors

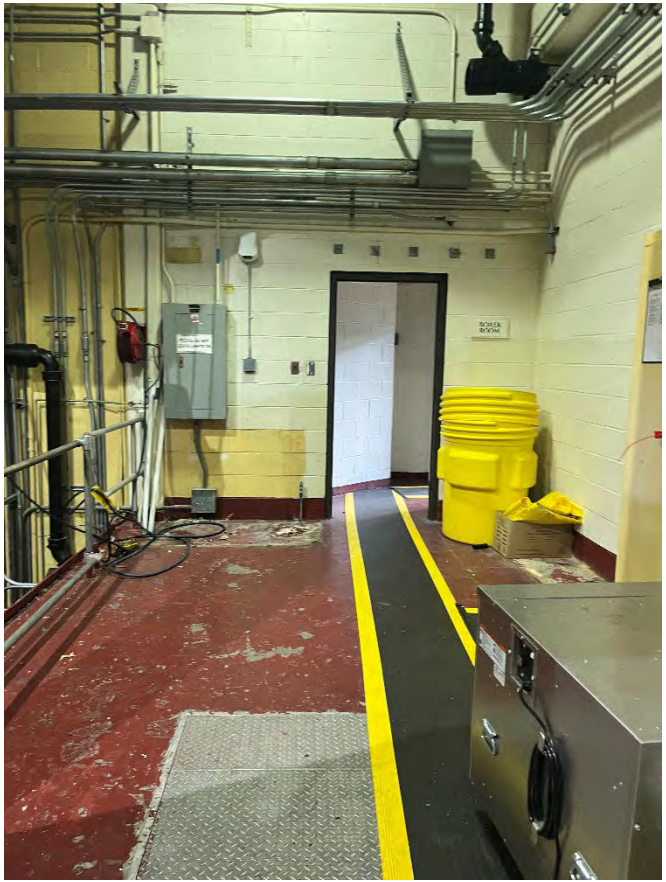
Cottage Farm CSO Facility PCB Abatement – Phase 1
American Environmental, Inc.
Contract No. 7389

November 18, 2026

Cottage Farm CSO Facility



Project Scope





Procurement Process & Schedule

Summary of Bids Received

Bidder	Bid Price	Variance from Engineer's Estimate (%)
APC Development Group, Inc. (Bid Withdrawn)	$8,767,575.00	*-1.83%*
American Environmental, Inc.	$8,774,411.00	-1.75%
Engineer's Estimate (revised for addenda 9/29/26)	*$8,931,000.00*	--
Select Demo Services, LLC	$8,932,000.00	0.01%
Bestech Inc. of CT	$9,444,000.00	5.74%
G.V.W., Inc.	$9,697,435.00	8.58%
Homer Contracting	$11,670,000.00	30.67%

Schedule – 24 Months from NTP

- Anticipated contract period from December 2026 through December 2029 (includes 12-month warranty period)

Presentation to

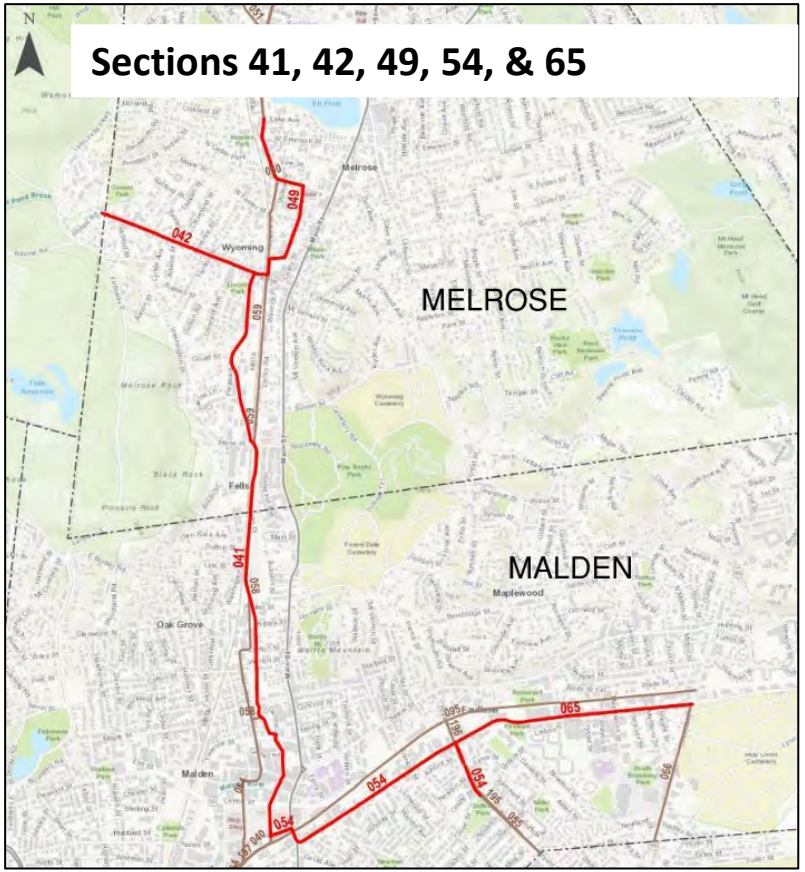
MWRA Board of Directors

Interceptor Renewal No. 7 Malden-Melrose (Sections 37/41/42/49/54/65) – RE/RI Services Arcadis U.S., Inc., Contract 7751

November 18, 2026

Interceptor Renewal No. 7 - Limits of Work





Interceptor Renewal No. 7 – Cost & Schedule

Firm	Proposed Cost	Level of Effort
Arcadis U.S., Inc.	$1,595,903.11	10,644 Hours
Engineer's Estimate	$1,441,386.00	10,735 Hours

Milestone	RE/I Contract
Anticipated NTP	December 2026
Anticipated Contract Expiration	April 2029

Presentation to

MWRA Board of Directors

Agency-Wide Technical Assistance Consulting Services Contract 7991, Amendment 3

November 18, 2026

Contract 7991 Ongoing Task Orders

Task Orders	Task Order Budget Required	Amendment 3 Budget Required	Time Extension Required
Chelsea Administration Building HVAC Replacement	$540,000	$540,000	44 months
Lonergan Intake Facility Walkway and Wall Improvements	$440,000	$120,000	35 months
Foss Reservoir Gatehouse Wet Well Internal Masonry Repairs	$310,000	$0	33 months
Wachusett Reservoir Water Quality Sampling Replacement	$0	$0	24 months
Ward St. Headworks CSO Facility MUAHs Replacement	$0	$0	16 months
Totals	*$1,290,000*	*$700,000 (1)*	*48 months (1)*

(1) Rounded up

Contract 7991 Amendment 3

	AMOUNT	TIME
Original Contract	$3,000,000	24 months
Amendment 1	$1,500,000	12 months
Amendment 2	$0	12 months
Amendment 3	**$700,000**	**48 months**
Amended Contract Amount	**$5,200,000**	**96 months**



LONERGAN INTAKE FACILITY WALKWAY AND WALL IMPROVEMENTS

Presentation to

MWRA Board of Directors

Contract 7395 Deer Island Treatment Plant Clarifier Rehabilitation, Phase II Change Order 6

November 18, 2026

7395: Deer Island Clarifier Treatment Plant Rehabilitation Phase II - Change Order No. 6

Cracks on Primary Clarifier Roof Slabs:

Item 1: Topside Cracks ($7,939.49 per tank)	NTE $381,095.52
Item 2: Underside Cracks at Hatches ($8,155.07 per tank)	NTE $358,823.19
Item 3: Underside Cracks (as-needed)	NTE $220,000.00

Not-to-Exceed $959,918.71

* Further Authorize Executive Director up to $1,000,000 and 180 Days *

Sealant for Topside Cracks on Primary Clarifier Roof Slabs



Ultra High-Pressure (UHP) Water Jetting Process



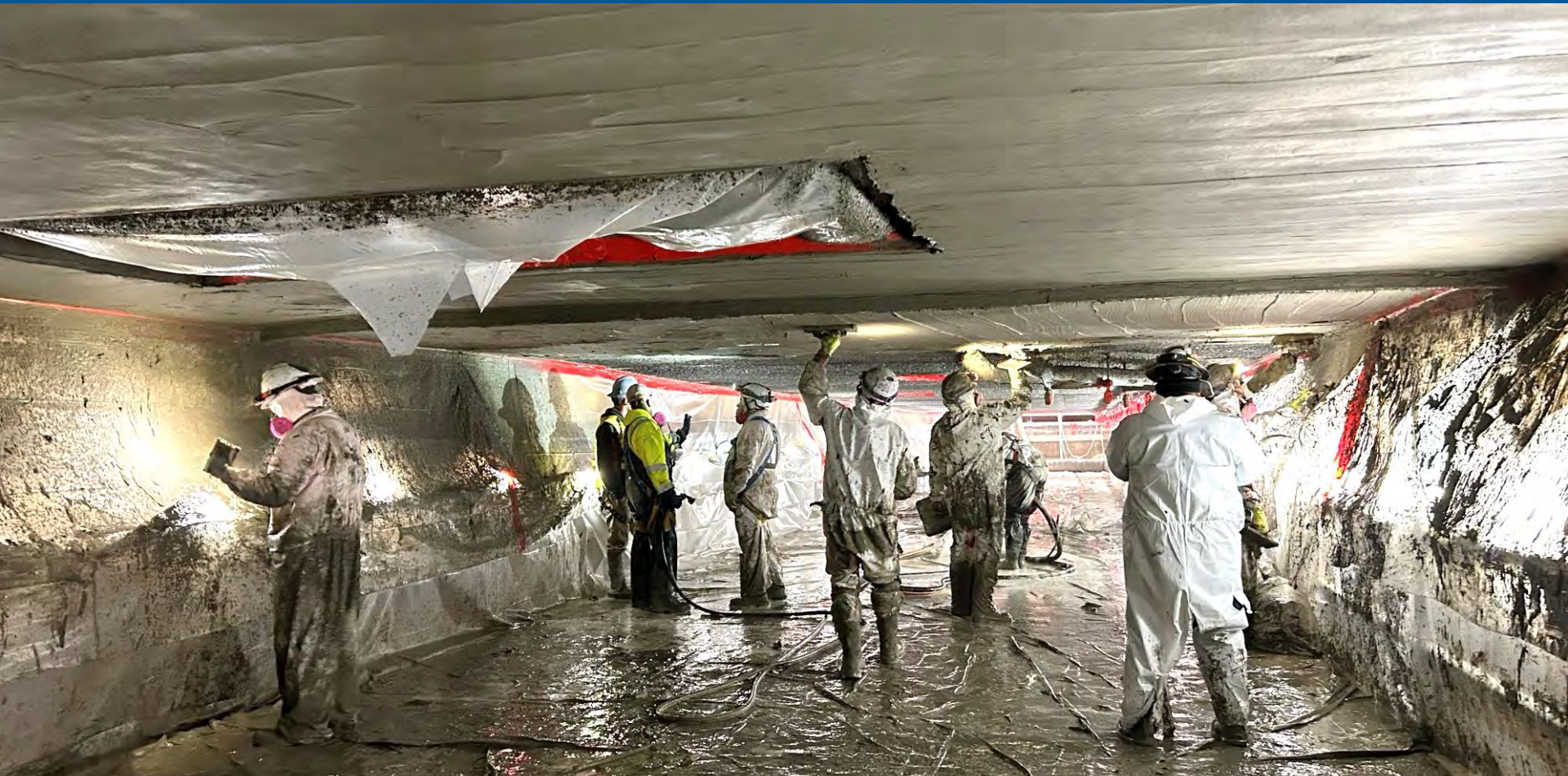
Surface Preparation Inspection



Concrete Resurfacer (Spray Applied with Trowel Finish)



Concrete Resurfacer (Spray Applied with Trowel Finish)



Fiberglass Mesh Cloth for Dynamic Cracks at Hatch Openings



Industrial Epoxy Coating Application



Adhesion Tests



Completed Primary Clarifier with New Collection Equipment



Presentation to

MWRA Board of Directors

Deer Island Treatment Plant Clarifier Rehab, Phase II
Contact 7394, Design/ESDC, Amendment 5

November 18, 2026

Clarifier Rehab Design and ESDC

Request Approval for Amendment 5

- Funding allocation

Construction Administration		$ 30,000
Submittal & RFI Review		$ 525,000
Full-Time RE & RI services		$1,665,000
Change orders and Claim review		$ 230,000
	Total	**$2,450,000**

- Amendment 5 funding to support project through June 10, 2028

Presentation to

MWRA Board of Directors

Contract 7572: CSO Post-Construction Monitoring & Performance Assessment Amendment 6

November 18, 2026

Contract 7572 Scope & Amendments 1-5

- Original Contract Scope of Work – Support the CSO Post-Construction Monitoring & Performance Assessment.
- New Variances required the preparation of an updated CSO Control Plan requiring additional consultant support

2019 Amend. 1
Receiving-water model, extended metering, permanent meter equipment

2020 Amed. 2
Variance requirements, model calibration and performance analysis

2022 Amend. 3
16 CSOs, Updated Plan, annual reports, Unified Model

2023 Amend. 4
CAM401A metering, Unified Model refinement

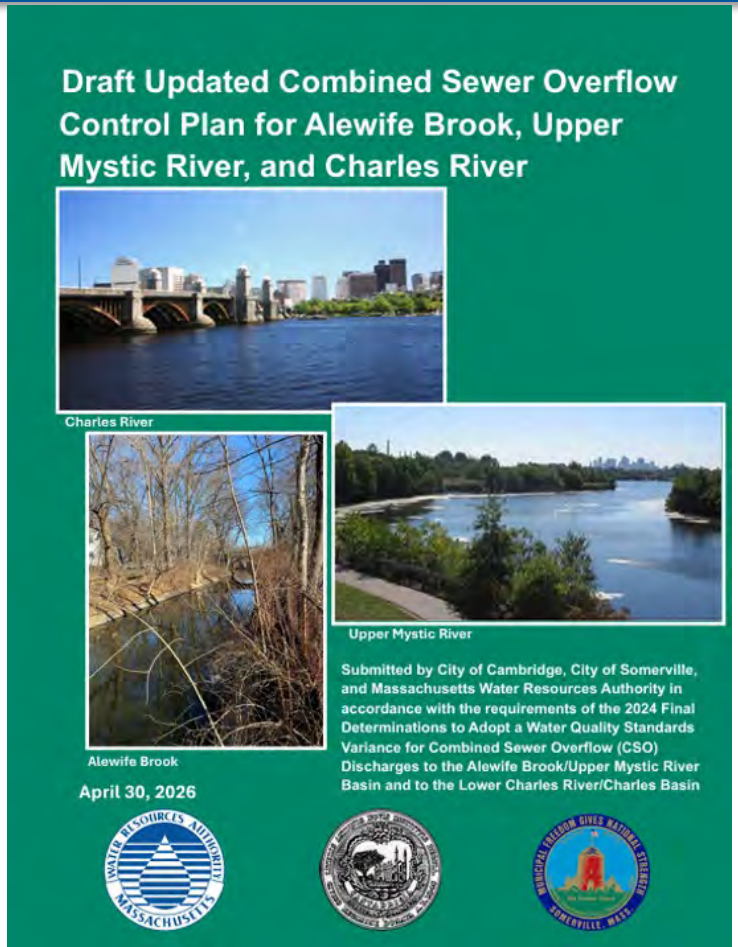
2024 Amend. 5
Alternatives, UAA/FCA, stakeholder engagement, updated plan

Contract 7572, Amendment 6

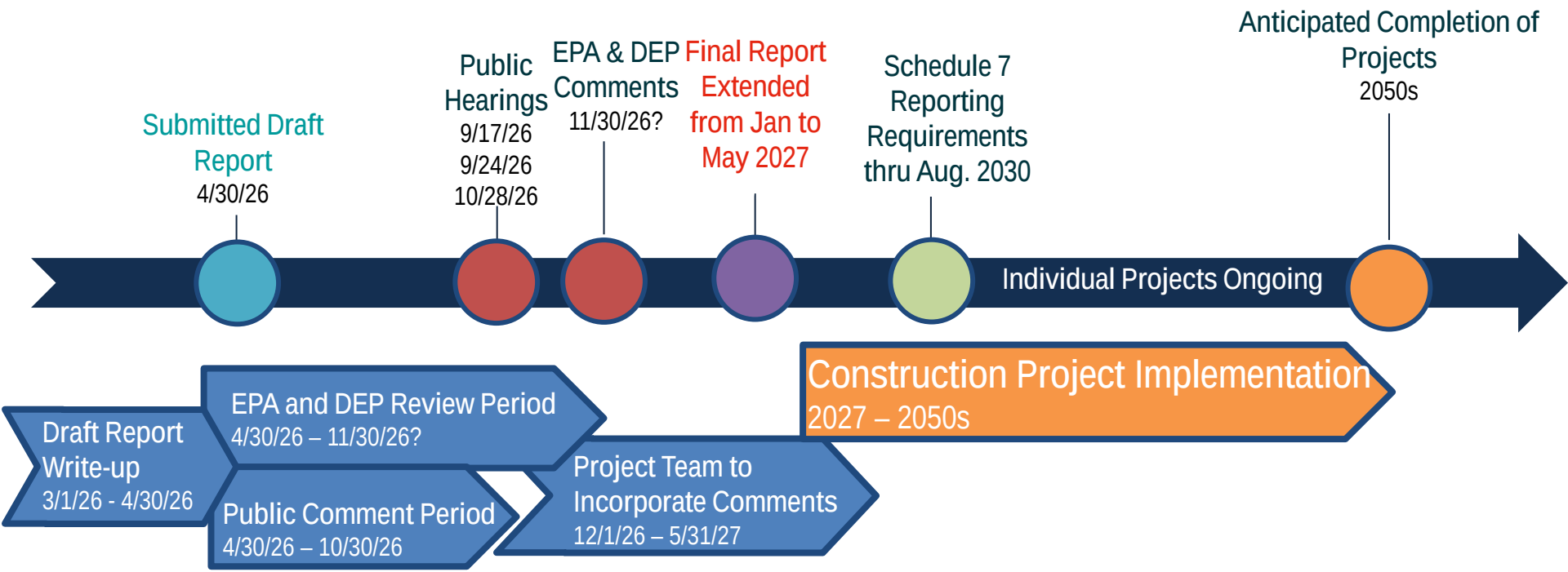
Proposed Amendment 6 – $2,250,000 / 1-year

- Greater LOE on Draft Updated CSO Control Plan
- Extensions to the Draft and Final Plan submittal dates
- Additional reporting requirements in amended Schedule Seven
- Further LOE anticipated on Final Plan preparation





Impact of Updated CSO Control Plan Timeline on Contract 7572



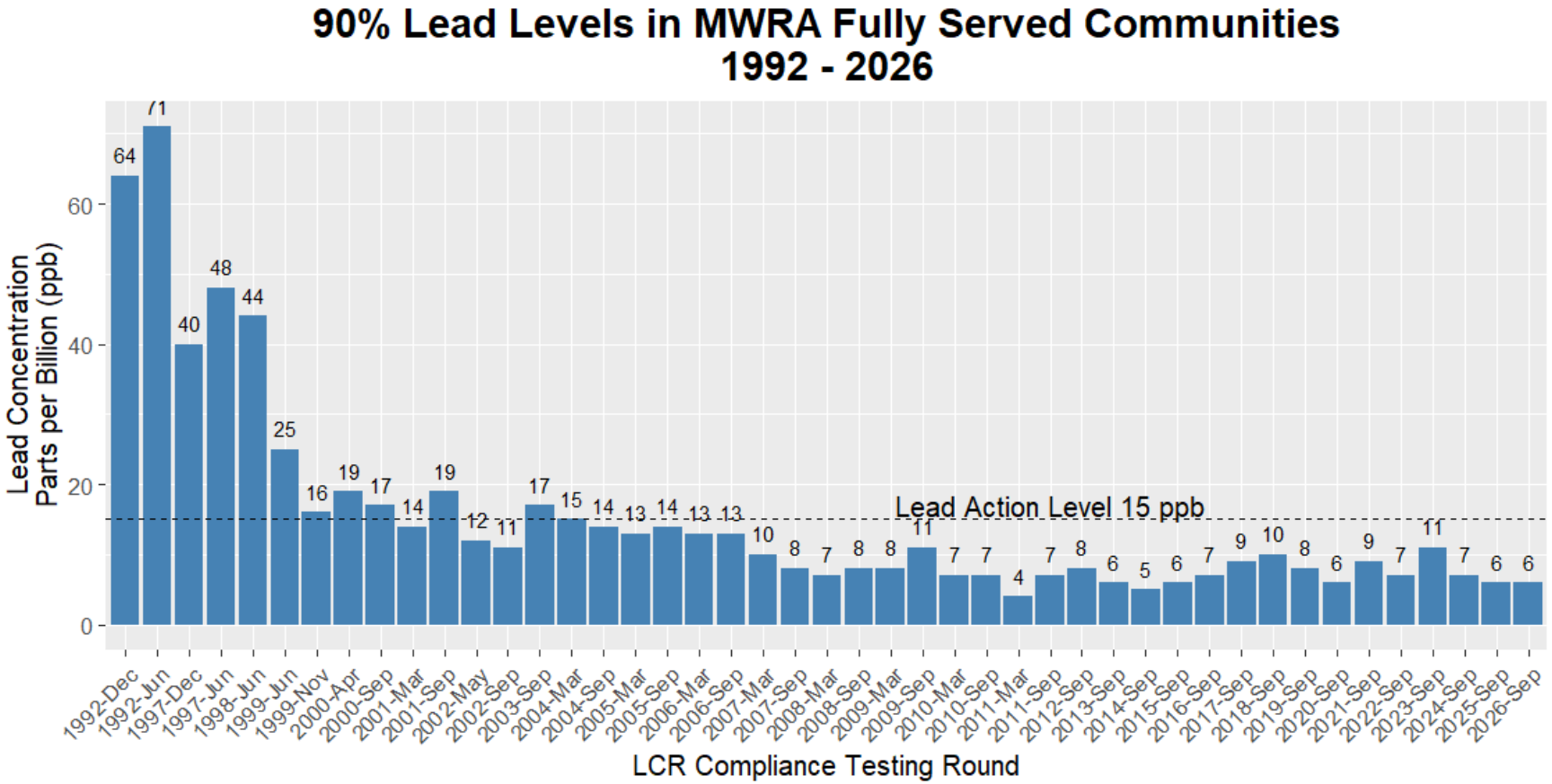
Presentation to

MWRA Board of Directors

Lead and Copper Rule Compliance Update Fall 2026

November 18, 2026

System-Wide Historical Lead Concentrations



Fall 2026 Sampling Results

- Quincy exceeded the 90th % Action Level of 15 ppb; actions included:
  - Tier 1 Public Notice to residents within 24 hours of receiving results
  - Will mail Public Education brochure on how to reduce customers' lead exposure
  - Already replaced Lead Service Line at each home above Lead Action Level
  - Must sample twice in 2027 (March & September)

- MWRA and all other communities met Lead Action Level

- MWRA and communities met the Copper Action Level

Distribution System and Site Assessment

- Only 12 out of 596 samples were over the lead Action Level
  - Communities contacted all 12 homes
  - 11 of 12 had lead service lines (LSLs)
  - 10 of those LSLs were replaced
  - Results & information about lead provided within 3 days of lab results
  - Offer to investigate sources of lead and sample at each home

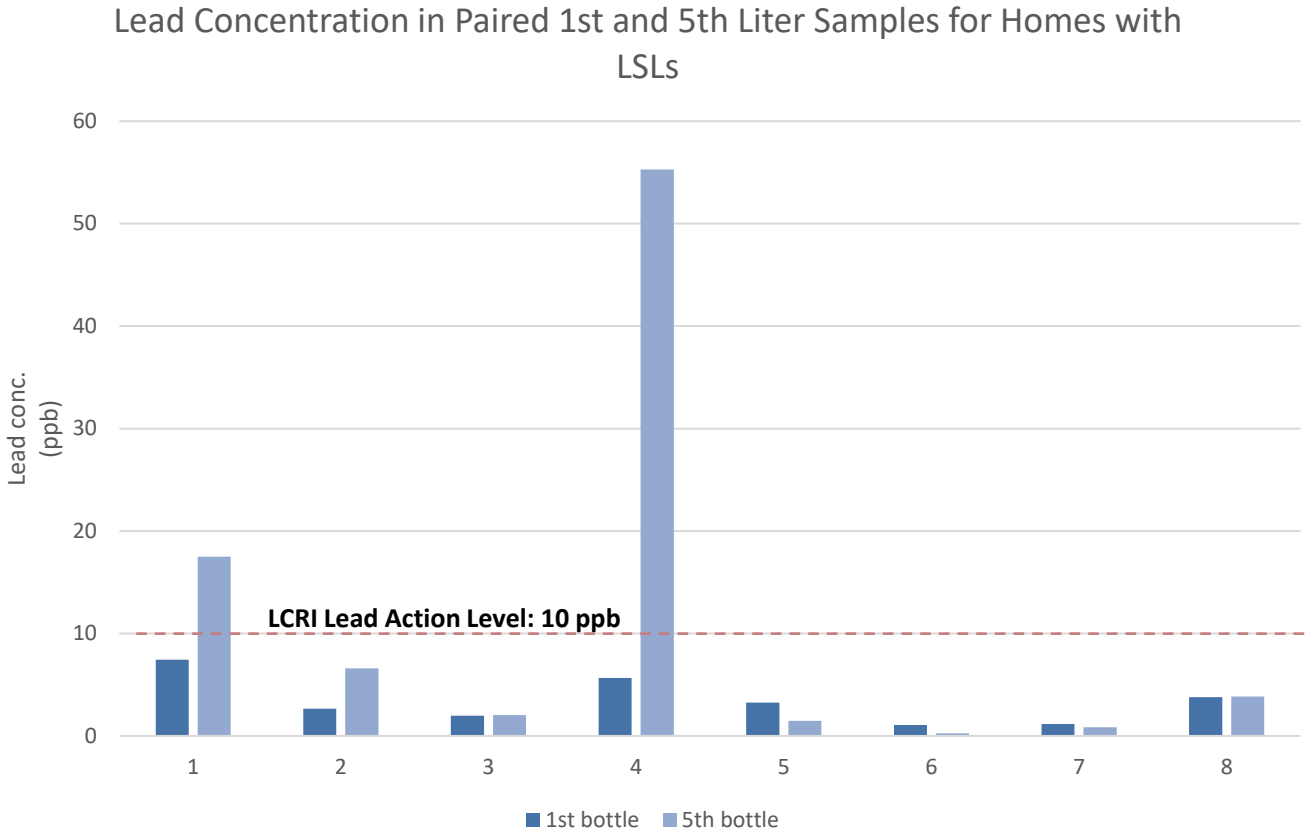
- MWRA evaluated distribution system water quality near all homes with elevated lead results
  - Water quality was typical in all cases and met MWRA Optimal Water Quality Parameter (OWQP) limits

Preparing for LCRI: Lower lead Action Level

Year	Lead Action Level (AL)	Samples Over AL	% Over AL	Communities Over AL
2026	10 ppb	28	4.7%	4
	15 ppb	12	2.0%	1
2023	10 ppb	**66**	11%	8
	15 ppb	35	5.9%	6

Entire MWRA system would exceed lead Action Level

Preparing for LCRI: Comparison of 1st and 5th Liter Sampling



Concentrations of Lead in 1st and 5th One-Liter Samples (ppb)

Home	1st bottle	5th bottle
1	7.44	**17.5**
2	2.65	6.61
3	1.98	2.02
4	5.66	**55.3**
5	3.24	1.47
6	1.06	0.255
7	1.17	0.864
8	3.78	3.85

Non-Lead Service Line Sites Have Less Lead

	90th Percentile Concentration (ppb)								
	2018	**2019**	2020	2021	2022	2023	2024	2025	2026
All Samples	10	8	6	9	7	11	7	6	6
Subset: Lead Service Line Samples Only	12	11	8	13	9	14	8	7	8
Subset: Lead Solder Samples Only	3	3	2	3	2	3	2	2	2

Exceeding the LCRI lead Action Level of 10 ppb

MWRA Lead Loan Program

MWRA's goal is to replace all LSLs by the end of 2032

- Protect public health sooner, avoid changes to corrosion control

MWRA Financial Assistance to Communities

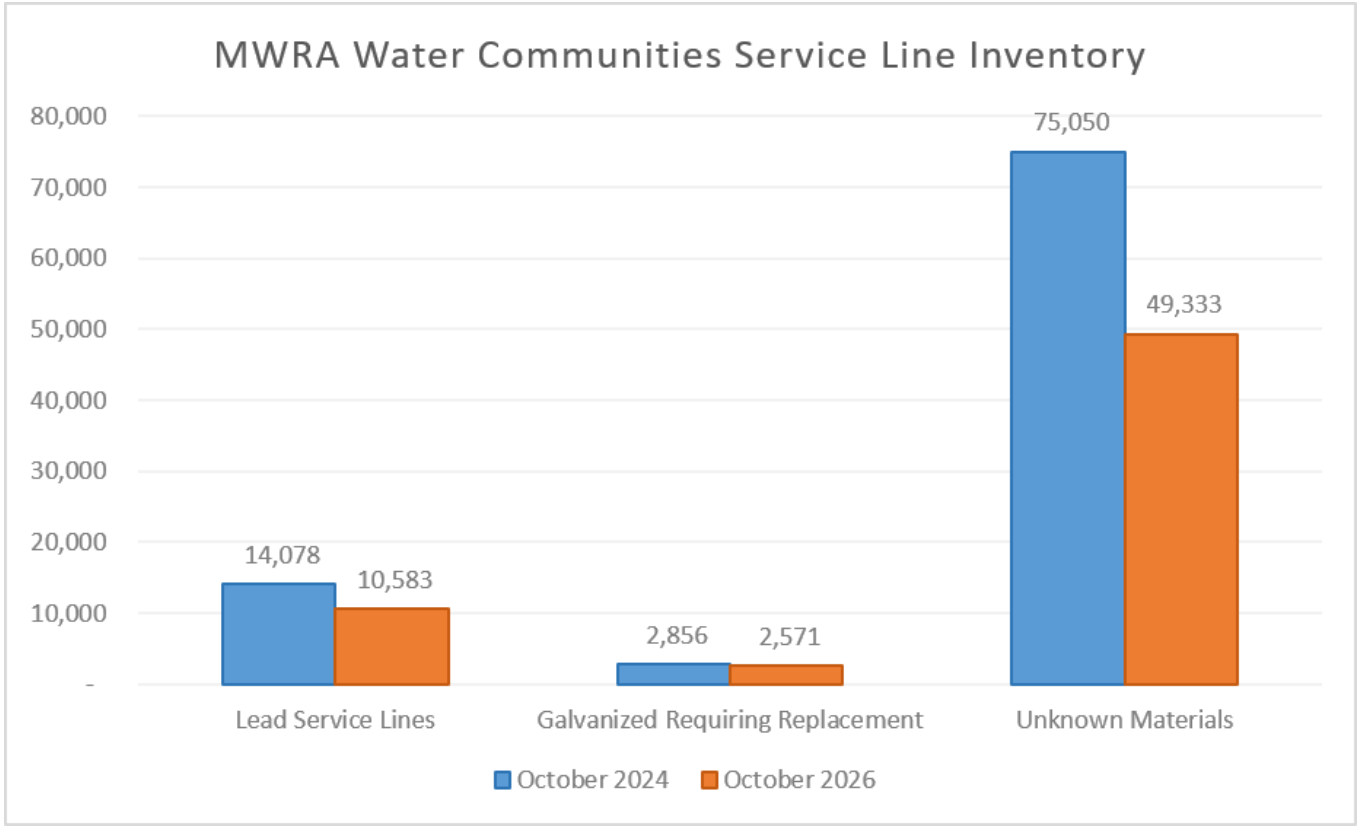
- 2016: $100M available as 10-year interest-free loans
- 2024: $100M additional available with 25% grant (75% loan) if the community funds the private side
- $81M has been distributed to date to 25 communities
- Must replace **ALL** lead pipes in a service line
  - **BOTH** public and private portions

Since 2016, MWRA's Water Programs have funded:

- 10,302 LSL replacements
- 1,715 lead gooseneck replacements
- 12,017 investigations of unknown service lines



MWRA System Service Line Inventory



Presentation to

MWRA Board of Directors

Dam Safety Compliance & Consulting Services Contract W345, Amendment 2

November 18, 2026

Contract W345 Scope of Work

Completed Work

- Biennial regulatory safety inspections of all MWRA's dams
- Design of a maintenance plan for the complex internal drainage system at Quabbin Reservoir's Goodnough Dike and for Sudbury Reservoir Dam's relief wells
- Existing instrumentation (piezometer) evaluation
- Geotechnical assessment of a seepage location at Sudbury Dam
- Design and installation of piezometers for Norumbega Reservoir and Schencks Pond Dams - Construction Contract W361
- Design and redevelopment of relief wells at Goodnough Dike and Sudbury Dam - Construction Contract W362

Remaining Work

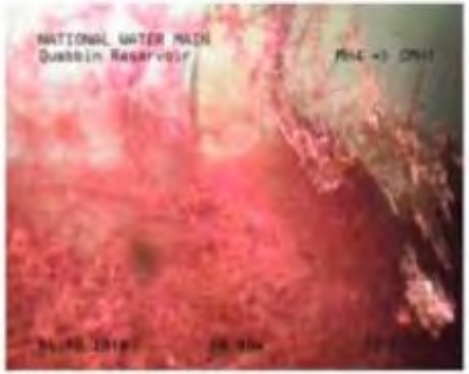
- Engineering services during construction for construction Contracts W361 and W362

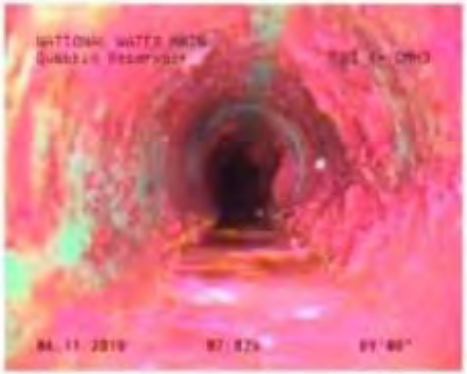
Contract W361 Construction Photos





Sudbury Dam (above) and Goodnough Dike (below)





Goodnough Dike Internal Drainage inspection findings





Norumbega and Schencks instrumentation Installation

Proposed Contract 6832 Amendment 2

Amendment 2 – extend contract by 12 months to complete engineering services during construction

Item Description	Amount ($)	Time
Original Contract	$191,404	36 Months
*Amendment 1	$0	12 Months
Amendment 2	**$0**	**12 Months**
Adjusted Contract	$191,404	60 Months

*Approved under delegated authority