

Project Descriptions for January 11, 2023

Board of Trustees Meeting

Lead Service Line Planning Program Commitments

Billerica DW-22-61

Service Line Inventory and Lead Service Line Replacement Plan.

Douglas DW-22-63

This project includes the evaluation and development of a Lead Service Line (LSL) replacement plan for utility and customer side service line materials connected to the Douglas water distribution system in order to meet the 2021 Lead and Copper Rule Revision (LCRR) issued by the EPA. The project is divided into two phases: Phase 1- Initial Water Service Inventory Development and Phase 2- Lead Service Line Replacement Plan. Tasks for Phase I include a review of current water distribution data, field investigations to verify service line materials, and the finalization of an initial inventory. During Phase 2, Engineers will work closely with the Town to produce a LSL replacement plan. The plan will include a procedure for conducting replacements and a funding strategy. To comply with the LCRR requirements, this work must be complete by October 2024.

Hudson DW-22-66

The scope of this project is to facilitate the Town's compliance with two significant requirements of the LCRR through development of a full electronic water service line inventory and development of an LSL Replacement Plan. The goals of this project are to: 1. Develop a complete, electronic database for all water service lines within the Town's service area in accordance with the LCRR's inventory requirements, including in-home inspections of representative premises to verify customer side service line materials, 2. Develop a realistic and suitable lead service line replacement (LSLR) Plan that meets regulatory requirements, including replacement of all LSLs throughout the Town within the State-required 5-year period.

Medway DW-22-64

The Town of Medway's water system serves a population of approximately 9,650 with about 4,100 service connections. EPA's Lead and Copper Rule Revisions, and Massachusetts' implementation of them, will require public water systems to complete a Lead Service Line (LSL) Inventory of both utility-side and customer-side lead service lines, along with an LSL Replacement Plan and updated Sampling Plan due by October 16, 2024. Projects that address lead in drinking water are a high priority for the Town of Medway, for MassDEP, and the EPA. The oldest portions of the Town of Medway water system date to around the early 1900s. While Medway has eliminated public lead services, where known, it is suspected that lead goosenecks are still present in Medway and private side documentation is incomplete. This Planning Project will allow the Town to complete the three required planning compliance items before the October 2024 deadline.

Wayland DW-22-65

The Town of Wayland seeks to improve the Town's LSL inventory, provide customer outreach, and create an LSL Replacement Plan. The oldest portions of the Town of Wayland water system date to around the early 1900s. It is suspected that lead water service lines are still present in Wayland, primarily on the customer side. The Town has documented inventory of Town-owned portion of service lines, and customer-side documentation is partially complete.

Clean Water Commitments**Barnstable CW-22-65**

The Town of Barnstable seeks the construction of a new wastewater pump station at 725 Main Street to replace the existing wastewater pump station at 720 Main Street. This older pump station is in poor condition and has reached the end of its design life. This project is consistent with the long-term rehabilitation plan prepared in 2019 for the Town's 27-existing pump stations.

Billerica CW-22-38

The Town of Billerica's project addresses the Brown Street Force Main that is an 18inch cement lined ductile iron force main originally constructed in 1978. To minimize risk of future failure, this project will include the rehabilitation/replacement of the force main utilizing a combination of open-cut excavation and trenchless technologies. The 15,000 LF existing force main plays a critical role in the Town's sewer conveyance system, conveying approximately 4,000gpm from the Brown Street Pump Station to the Rogers Street Pump Station before reaching the WRRF.

Boston Water & Sewer Commission CW-22-56

The Boston Water and Sewer Commission seeks to reduce CSO discharges in Boston Harbor and its tributaries. The plan involves five sewer separation projects over an area of 403 acres by constructing new storm drains and allowing the existing combined sewers to function as separate sanitary sewers, or by constructing new sanitary sewers and allowing the existing combined sewer to serve as storm drains.

Brockton CW-22-34

The City of Brockton's sewer system rehabilitation project will include up to 20 miles of preparatory cleaning of existing sewer pipe, internal television inspection, cured-in-place (CIP) sewer pipe lining, and rehabilitation of manholes. Sewer reaches and sewer manholes selected for this project have been identified based on the 2017 sewer flow monitoring program and will be prioritized as part of the ongoing SSES Program Phase 2.

Chatham CW-22-30

The Town of Chatham seeks to extend sewers to serve portions of the Stage Harbor watershed. The sewer extension will allow the Town to continue implementing the approved Comprehensive Wastewater Management Plan (CWMP) and addressing nitrogen loading from septic systems by extending the wastewater collection system to serve properties within the watersheds impacting the Town's coastal estuaries.

Chatham CW-22-33

The Town of Chatham seeks to upgrade the existing Mill Pond wastewater pumping station that is receiving increased wastewater flow from newly constructed sewer extensions and to provide future capacity for new sewer extensions. These sewer extensions, a component of Chatham's Comprehensive Wastewater Management Plan (CWMP), will allow the Town to continue implementing the Town's approved CWMP to achieve nitrogen TMDL compliance in the coastal estuaries including Stage Harbor.

Chicopee CW-22-39

The Town of Chicopee's project includes separation of 15,450 linear feet of combined sewer main in coordination with the City of Chicopee's Long Term CSO Control Plan. The proposed sewer separation will result in a significant reduction of CSO volumes and frequencies by reducing flow to CSO 3 and will also provide needed relief for several sewer back-up conditions in some of the most seriously affected high priority areas.

Fall River CW-22-68

The City of Fall River seeks to evaluate the ability of the facilities to meet water quality standards for chlorine, evaluate impacts to rivers receiving the treated combined sewer overflow (CSO) discharge, determine any modifications to the existing facilities and determine future technology for currently untreated CSOs with the City. The City is under federal court order to control CSOs to the Mount Hope Bay, Taunton River, and Quequechan River. The City has designed and constructed \$180 million in CSO controls-collectively called the Fall River CSO Abatement Program. As a part of the program, the City has constructed and operates two CSO Screening and Disinfection Facilities.

Falmouth CW-22-59

The Town of Falmouth's project will upgrade the Wastewater Treatment Facility (WWTF) to address nitrogen impacts to the Great Pond and Green Pond Watersheds. The current secondary treatment process is undersized to treat the flows and loads of the next phase of wastewater collection system expansions. The facility upgrade has been evaluated to consider future expansion for the continued phasing of the Town's collection system expansion to address the TMDLs of the nitrogen impaired watersheds.

Framingham CW-22-35

The City of Framingham seeks the replacement of the existing Worcester Road Sewer Pump Station. Constructed in 1966, the existing pump station is reaching the end of its useful life. The pump station consists of two electric pumps and one natural gas fired pump that is manually operated when required. Resiliency will be provided in the new pump station by including three electric pumps (two duty and one standby) and a diesel emergency generator that will automatically provide electricity during any power outage.

Franklin CW-22-31

The Town of Franklin seeks to rehabilitate, relocate, and replace the 100-year-old Beaver Street Interceptor. This project includes upsizing 900 LF of sewer, cured-in-place lining 6, 400 LF of sewer, installing 2,500 LF of new gravity sewer, and construction of a new Beaver Street pump station and associated force main. This will increase capacity within the BSI and prevent future sanitary sewer overflows into the Mine Brook.

Haverhill CW-22-44

The Town of Haverhill seeks to construct a final cap over the Northern Mound portion of the Haverhill Landfill and a portion of Lot 26 Ash Area. The cap construction includes stabilization of landfilled areas that are directly adjacent to the Merrimack River and restoration of endangered species habitat. The final cap will virtually eliminate the infiltration of rainwater into the landfilled waste including any remaining hazardous waste in the Northern Mound. Stabilization of the bank will stop the continuing exposure of landfill waste to the River. The completion of the closure is required by the Solid Waste Management Regulations promulgated by MassDEP and EPA Superfund requirements. The closure is subject of an ACO between the City and AINER and the MassDEP.

Littleton CW-22-57

The Town of Littleton Sewer System Expansion project includes several improvements to the Town's wastewater infrastructure. The Project includes expanding the existing collection system to service the Littleton Common Area, upgrading an existing pumping station, installing two new pumping stations, and a new centralized Water Resource Recovery Facility that will treat current and future wastewater flows. The construction of these projects will reduce the number of on-site septic systems, thus reducing nutrient and bacteria levels in the Town's surface and groundwater while supporting the Town's economic development. These projects will address needs identified in the Town's Wastewater Needs Assessment.

Lynn Water & Sewer Commission CW-22-69

The Lynn Water and Sewer Commission's project involves sewer separation of approximately 260 acres in an urban setting in the western side of the City. To facilitate discharge of the stormwater, a new 100 MGD pump station and 54" force main, which discharges to Lynn Harbor, will also be installed. The project consists of five (5) phases of construction. Construction of Phases 1 & 2 are underway.

Nahant CW-22-46

The Town of Nahant seeks to upgrade the wastewater collection system to be more reliable, resilient, energy efficient, and cost-efficient. The sewer system repair and replacement work is required to prevent sanitary sewer overflows, reduce inflow/infiltration to the sewer system, and build a more reliable and resilient wastewater system for the Town. The proposed work includes: Lowlands Pump Station Upgrades, Willow Road Force Main Replacement, Lowlands Pump Station Force Main Causeway Section Replacement, and Gravity Sewer Collection System Repairs.

New Bedford CW-22-63

The City of New Bedford's pumping station upgrades are for two pumping stations: Shawmut Avenue and Howland Street. These improvements are based on the City's January 2017 Long Term CSO Control and Integrated Capital Improvements Plan.

New Bedford CW-22-66

The City of New Bedford's project includes wastewater collection system improvements through four contracts. Contract 1 - Phase 1 Interceptor and Collector Sewer Rehabilitation Program, Contract 2 - Coggeshall Street Sewer Separation Phase 3, Contract 3 - Illicit Discharge Removal Program, and Contract 4 - Grape Street Collector.

New Bedford CW-22-71

The City of New Bedford seeks improvements to the wastewater treatment plant through four contracts: Contract 1 - Alkalinity Addition will provide a magnesium hydroxide storage building and feed system to improve the alkalinity at the City's WWTP. Contract 2 - Instrumentation and Controls will provide upgrades to the current supervisory control and data acquisition (SCADA) at the WWTP to better and more efficiently operate and control the facility. Contract 3 - Roof Repairs will provide replacement of the roof membranes of both the Headworks Building and Primary Air Handling Building. Contract 4 - Building Repairs will include repairs to existing building-related issues throughout the plant, such as patching leaks and upgrading equipment.

New Bedford CW-22-73

The City of New Bedford seeks to facilitate progress of the IDDE program, to meet requirements of the 2017 MS4 Permit, and executed AO dated December 16, 2019. As part of this third phase of the IDDE program, the City intends to conduct follow-up investigations in the CSO 003, CSO 026 and CSO 027 areas where past field investigations were inconclusive, as well as any necessary follow-up in the CSO 041, CSO 016, DP 133, DP 122, DP 201, CSO 023, CSO 024, and DP 200 areas. Illicit discharges identified during the upstream investigations will be removed from the drainage system under a follow up project.

Northampton CW-22-43

The City of Northampton's construction project includes multiple upgrades to systems at the end of useful life that are recommended in the City's 2016 CWMP. These improvements will optimize Nitrogen removal in accordance with current and likely future NPDES permit conditions, address facility resiliency, ensure proper function of plant processes, and ensure that plant-wide control, monitoring, and alarming of processes and equipment is sufficient to prevent future malfunctions. The City operates an 8.65-MGD WWTP that discharges to the Connecticut River tributary to Long Island Sound. The plant is within an environmentally sensitive area and in 2018 experienced a failure that caused a wastewater discharge to the Old Mill Riverbed and Connecticut River.

Orleans CW-22-28

The Town of Orleans is replacing 474 septic systems with an extension of the municipal sewer system. This infrastructure includes approximately 15, 750 LF of 8- to 12-inch gravity sewer; 20, 750 LF of low-pressure sewer; 7, 500 LF of 8-inch force main; and 1 submersible pump station. This construction project is critical to meeting TMDL limits for the Town and will benefit the Pleasant Bay System and Town Cove, along with numerous water supply points. It is part of the approved CWMP and a continuation of the sewerage work previously financed through SRF.

Quincy CW-22-49

The City of Quincy seeks to implement the recommendations from the 2020 Sewer System Evaluation Survey (SSES) to remove I/I and rehabilitate approximately 3.25 miles of sewer pipe in the City of Quincy through open cut repairs and cured-in-place pipe (CIPP) lining. This project will reduce infiltration and inflow to the system, supporting the regional I/I reduction program and reducing the risk of sanitary sewer overflows and backups, which create public and environmental health issues.

Revere CW-22-40

The City of Revere's Phase 14 Field Investigations, Illicit Discharge and Eliminations (IDDE), and Illicit Connections and Sump Pump Investigations Programs will include IDDE, CCTV of drains and sewers throughout the City, dye testing, smoke testing, wastewater and stormwater pump station inspections, and inspections of private homes and businesses to identify sources of inflow from sump pumps, roof leaders, roof drains, driveway drains, yard drains, and other sources of inflow. The findings of these investigations will be incorporated in the City's future construction projects to address the detected deficiencies.

Revere CW-22-55

The City of Revere's Phase 13 Construction Project includes the removal of inflow/infiltration (I/I) from the City's sewer system. Construction will include the redirection of public and private inflow sources discovered during Phase 13 Field Investigations in addition to IDDE source removal, and drainage improvements. Illicit connections, including sump pumps, roof leaders, etc. will be removed from the City's sewer system in order to remove inflow and increase wastewater capacity. Construction will also include pump station improvements (both stormwater and wastewater), CIPP lining, sewer spot repairs, replacements, new sewer lines, cleaning, and additional wastewater metering.

Saugus CW-22-50

The Town of Saugus' project includes comprehensive sewer system rehabilitation in Subsystem PS-4. Construction will include the rehabilitation of pipelines, manholes and service laterals necessary to eliminate I/I from the system. Approximately 13, 550 feet of 8-inch and 2, 650 feet of 10-inch pipe have been identified as being in need of CIPP in subsystem PS-4 to eliminate I/I. Also included in this project will be the installation of a lining system to improve the quality of the service to mainline connection. There are approximately 274 of this type of connection in Subsystem PS-4. Approximately 97 manholes have also been identified and are in need of rehabilitation. Each manhole will be lined using the latest standards.

Springfield Water & Sewer Commission CW-22-36

The Springfield Water and Sewer Commission seeks to upgrade the Springfield Regional Wastewater Treatment Facility (SRWTF) to include a dedicated grit removal system. The upgrade will include influent channel modifications and temporary bypass pumping, construction of grit removal system with associated piping and pipe tunnel modifications, installation of slide gates for flow control, flow channel modification, and the replacement and upgrade of the existing grit classifiers and screw conveyors.

Taunton CW-22-53

The City of Taunton's project consists of improvements and repairs to the existing sewer and stormwater systems. This is a continuation of work begun during previous projects and is primarily directed at removing I/I from the system.

Taunton CW-22-54

The City of Taunton's project will upgrade several pump stations in the Taunton collection system. Included will be one full-scale pump station replacement and several generator replacements and instrumentation and control updates.

Drinking Water Commitments**Andover DW-22-28**

This project is the first phase of the Town of Andover's phased approach to provide redundancy and reliability from the Town's water treatment facility and main storage tank to the distribution system in the East High-Pressure Zone. Currently, there are no redundant sources of water distribution throughout the Town. The Phase 1 project will add approximately 8, 400 LF of new main to establish redundancy and reliability in the distribution system.

Barnstable Fire District DW-22-41

The Barnstable Fire District seeks to construct a water filtration plant to address PFAS concentrations in the drinking water. Wells 2 and 5 are located near the Barnstable Airport and the Barnstable Fire Training Academy. Well 2's highest recorded PFAS6 is 16.2 ppt; Well 5's highest recorded PFAS6 is 43.7 ppt. Should Well 2's pump fail, water from Well 5 would not be able to be pumped into the system due to excessive PFAS concentration. Construction of a GAC filtration plant at Wells 2 and 5 will address these concerns. Pretreatment will include Greensand Plus filters.

Blandford DW-22-31

The Town of Blandford seeks to implement process upgrades to the water treatment plant to address a recent Administrative Consent Order and maintain high levels of system reliability, water quality, and improve the filtration of raw and finished water to reduce elevated DBPs.

Burlington DW-22-03

The Town of Burlington seeks to construct a new system at the Mill Pond Treatment Plant to remove or mitigate existing P-FAS concentrations within the Town of Burlington's water supply system.

Boston Water and Sewer Commission DW-22-50

The Boston Water and Sewer Commission seeks to eliminate lead water services in both the public way and private property. The Commission has an ongoing lead water service replacement program which was initiated in response to the exceedance of the lead action level in 2020.

East Brookfield DW-22-49

The Town of East Brookfield proposes a Tier IV project involving a water storage tank replacement and AC pipe replacement. The existing tank is the sole water storage component and should be replaced to address significant deficiencies. AC pipe should also be replaced to prevent pipe failures from increased pressures from new water tank.

Eastham DW-22-21

The Town of Eastham seeks to continue its implementation of a new, Town-wide municipal water system to provide a clean and reliable source of drinking water for its residents as well as fire protection. As part of the water system construction proposed for Phase 2E, an additional 51, 000 feet of water main (9.7 miles) distribution system piping is to be installed and a second water storage tank (750, 000 gallons) is to be constructed at District H. Phase 2E completes the entire water system project.

Essex DW-22-32

The Town of Essex will address the Water Treatment Plant's outdated/failing equipment. This includes replacing parts of the flocculation and settling tanks system, replacing finished water pumps, and updating the sludge pump to a duplex system. The chemical addition systems will be updated to modern design standards. Specific chemical bulk tank storage and transmission lines will be replaced. The facility will be upgraded with modern control systems and instruments and with new operational/safety items. Water Treatment Plant had a catastrophic event in June of 2021 when a plastic chain on one of the two settling basins broke.

Leicester Water Supply District DW-22-38

The Town of Leicester seeks to construct an interconnection between the Leicester Water Supply District and Worcester water systems including a metered pump station and about 2 miles of water main in accordance with an Administrative Consent Order. Without the interconnection, water treatment improvements are required to continue using the District's supplies located in Paxton, to meet water quality standards and regulations and protect public health. The size and scope of the treatment improvements required to continue using these supplies makes the purchase of water from Worcester a viable alternative to maintain the fiscal sustainability of the District and protect public health.

Massachusetts Water Resources Authority DW-22-37

The Massachusetts Water Resources Authority seeks to rehabilitate three water mains designated as Sections 23, 24 and 47 under contract 6392. The water mains serve the communities of Boston and Watertown. Section 23 and section 24 are 124-year-old cast iron pipes, Section 47 is a 103-year-old cast iron main. The goal of this project is to improve the condition, hydraulic capacity and reliability of the existing water mains, avoid potential service disruption as a result of breaks and leaks, and improve hydraulic and operating deficiencies in the distribution system.

New Bedford DW-22-44

The City of New Bedford's Highway Bridge Crossing Replacement Project will remedy system deficiencies and prevent serious threats to New Bedford's water system. This project includes replacing four watermains that cross under three separate bridges that cross two major highways – Interstate 195 and Route 140. Three of the four watermains are currently shut down due to leaks. The project will replace the watermains and pipe supports/hangers. This project is of utmost importance to the City to maintain safe and reliable delivery of water to its customers and protect public health.

New Bedford DW-22-47

The City of New Bedford seeks to implement Phase II of its Lead Service Line Replacement Program, an aggressive, multi-year program to replace all remaining Lead Service Lines (LSLs) in the City. This phase of the program will replace about 1,000 to 1,500 LSLs in a two-year period throughout the City's water distribution system. The City is committed to protecting public health and continuing to provide safe drinking water to all its customers, and as such, this aggressive Lead Service Line Replacement Program demonstrates that commitment to maintain continued compliance with the Lead and Copper Rule.

New Bedford DW-22-48

The City of New Bedford seeks to conduct a lime to caustic evaluation, including a review of the existing lime storage, make up and feed systems, and operating history at the WTP. Water quality modeling (and any needed bench testing as appropriate) will be used to confirm that there should be no significant impact on the theoretical lead solubility of the finish water attributed to the conversion from lime to caustic. These results will also be used to estimate caustic requirements for PH and alkalinity adjustment, alone and in combination with the existing soda ash.

North Attleborough DW-22-20

The Town of North Attleborough's proposed project involves constructing a PFAS removal treatment system including granular activated carbon adsorption installed in pressure vessels at the McKeon WTF site. The proposed system includes pressure vessels, media, and appurtenant piping and valves. The treatment process will include piping modifications, construction of a new pre-engineered building with associated electrical, lighting, and HVAC systems. Instrumentation and control systems upgrades will be included to fully integrate the new system into the existing treatment process, currently a greensand media iron and manganese removal system and chemical addition. Concurrently, a sodium fluoride chemical feed system will be added/coordinated with the PFAS treatment system.

Scituate DW-22-36

The Town of Scituate seeks the construction of a new water treatment facility in accordance with the forthcoming Administrative Consent Order (ACO). The new water treatment facility will include Dissolved Air Filtration, dual media filter treatment, new emergency back-up power, intake piping, interconnection piping, and appurtenances. The completed project will improve drinking water quality by reducing high manganese and iron concentrations and eliminate microbiological contaminations and discoloration.

Three Rivers Fire District DW-22-27

The Town of Palmer proposes full restoration of two 750, 000-gallon above ground water storage tanks, including but not limited to: an assessment of tanks and foundations by structural engineer; a full strip of the interior and exterior topcoat and undercoat, including environmental and worker protection measures due to the lead levels present; coatings currently in moderate, fair, or poor condition, as determined in a recent Condition Assessment Report; application of epoxy coat, to AWWA D102 NSF-61 standards; removal of outdated systems; installation of active mixing system; installation of safety and access features to OSHA standards; grout and welding repairs; replacement of corroded parts; and updated coverings and screens of all potential access areas.

Townsend DW-22-26

The Town of Townsend seeks the construction of a new Water Treatment Plant and raw water transmission main to treat PFAS-contaminated water.

Winthrop DW-22-34

The Town of Winthrop's Revere Street PRV Station Improvements project will upgrade the Town's main water supply connection to the MWRA system. On December 3rd, 2020, the Town experienced a failure in one of the pressure reducing valves. Due to the condition of the existing valves at the station, the redundant valves also experienced a failure. The Town lost system pressure and fire protection for approximately 1 hour until it's emergency connection with the MWRA system at Deer Island was able to be opened. This project will replace all piping and valves in the PRV station, upgrade the outdated instrumentation and controls at the station, and make improvements to flood proof the station.

Winthrop DW-22-35

The Town of Winthrop seeks to replace approximately 3, 500 linear feet of 8-inch through 12-inch unlined and tuberculated cast iron water mains and the rehabilitation of approximately 4, 500 linear feet of 10-inch and 12-inch unlined, tuberculated cast iron water mains. The project will restore capacity to existing mains, improve isolation control in mains that help feed the distribution system from its primary connection to the MWRA system, improve water quality by eliminating unnecessary water mains, and replace water mains with a break history. In addition, the project is expected to replace up to 10 suspected lead services from the system.

Lead Service Line Planning Program Agreements**Billerica DWL-22-61**

Service Line Inventory and Lead Service Line Replacement Plan.

Douglas DWL-22-63

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Medway DWL-22-64

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Clean Water Agreements**Mashpee CWP-21-16**

The Town of Mashpee proposes the construction of the new Phase 1 Mashpee Water Resource Recovery Facility (WRRF) and collection system to address nitrogen impacts to the Mashpee River watershed. The facility will provide advanced wastewater treatment including nitrogen removal through a membrane bioreactor process. The Phase 1 WRRF is designed for an average flow of 0.12 mgd and maximum month flow of 0.31mgd. The facility has been designed to be expanded through future phases of the Town's multi-phase Recommended Plan in order to meet the TMDLs for the Town's two nitrogen impaired watersheds.

Mashpee CWP-21-16-A

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Drinking Water Agreement**Somerset DWP-22-43**

The Town of Somerset seeks the replacement of a booster pump station to re-establish the high service area in the Town's distribution system. The current booster pump station is no longer operable requiring the distribution system to operate at one pressure zone. Replacement of the booster pump station will allow re-establishment of the high service zone, which will reduce the total dead water storage within the distribution system and lower water age. A TTHM removal system will also be added to the tanks within the low service area to address disinfection byproducts exceedances.