

Project Descriptions for July 10, 2024

Board of Trustees Meeting

Asset Management Planning Commitment and Agreement

Montague CWA-24-07

Wastewater Asset Vulnerability Inventory

The project is to develop a tool to manage wastewater assets and to proactively meet requirements within the draft NPDES permit. This project includes inventorying the Town's CWF and collection system asset information, compiling information into the Town's GIS system, determining if any assets are within the 100-year or 500-year flood plains, defining the criticality of each asset, and identifying the highest priority assets.

Asset Management Planning Agreement

Peabody DWA-23-137

Peabody Water Asset Management

The Project will build out and refine data in the City's water GIS to better represent recent records to locate above ground infrastructure such as hydrants and valves.

Lead Service Line Planning Program Commitments and Agreements

Andover DWL-24-31

Service Line Inventory & Replacement Plan

This project was previously submitted to DEP via email on April 10, 2024. The project is to develop an inventory of the Town's existing water services as preparation for compliance with the Lead and Copper Rule Revisions (LCRR), including and electronic inventory per LCRR & MassDEP templates, performance of inspections to understand services line materials, and development of a Lead Service Line Replacement Plan.

Lawrence DWL-24-30

Service Line Inventory & Replacement Plan

The project is to develop an inventory of the City's existing water services as preparation for compliance with the Lead and Copper Rule Revisions (LCRR), including and electronic inventory per LCRR & MassDEP templates, public education & engagement plan, web-tool, performance of inspections to understand service line materials, and development of a Lead Service Line Replacement Plan.

Mansfield DWL-24-28

Service Line Inventories & LSL Replacement Plans

The project is to develop an electronic inventory of the Town's existing water services as preparation for compliance with the Lead and Copper Rule Revisions (LCRR), including an inventory per LCRR & MassDEP templates, performance of inspections to understand service line materials, and development of a Lead Service Line Replacement Plan.

Marshfield DWL-24-27**Marshfield LSL Inventory & Replacement Planning**

The project will begin with a records screening, including the review of record drawings, GIS data, capital improvement plans, master plans, tie cards, and installation and maintenance/repair records. An Excel spreadsheet and a GIS map of service line materials will be developed incorporating information from the records screening. The GIS map will be formatted for publishing on the Town's website. A technical memorandum will be prepared summarizing the findings from the records screening and mapping. Draft required disclosures will be identified and prepared as well. Management of the DWSRF grant application will continue throughout the span of the project. Finally, project closeout documentation will be prepared and submitted to MassDEP. The Marshfield Water Department's PWS number is 4171000.

Maynard DWL-23-55**Service Line Inventory and LSL Replacement Plan**

This project includes establishing a formal inventory of existing water service lines and materials, including water service record review and database creation, field work to identify service line materials, verification of unknown service line materials, desktop inventory database reconciliation and field verification data population, and LCR inventory memorandum.

North Dighton Fire District DWL-24-33**Service Line Inventory & Replacement Plan**

The project is to develop an inventory of the district's existing water services as preparation for compliance with the Lead and Copper Rule Revisions (LCRR), including an electronic inventory per LCCR & MassDEP templates, performance of inspections to understand service line materials, and development of a Lead Service Line Replacement Plan.

Norwood DWL-22-56**Norwood LSL Planning**

This project includes establishing a formal inventory of existing water service lines and materials, including data review and documentation, field investigation support, and summary memorandum.

Spencer DWL-24-29**Drinking Water Lead Service Line Inv and Rep Plan**

This project will be completed for the Town of Spencer (PWS No. 2280000). The work general consists of the collection of available records, the creation of a service line inventory, the creation of a list of unknown service line materials and a ranking for verification that indicates high, medium, and low probabilities of lead, the creation of a GIS shapefile with the inventory database, creation of a list of service lines categorized as lead, galvanized requiring replacement, or lead status unknown, the development of a plan to address service lines categorized as lead, galvanized, requiring replacement, or lead status unknown, and conduction subsurface investigation to confirm material on the public portion of the water service for up to 10 days.

Turners Falls Fire District DWL-23-45**Lead Service Line Inventory**

The work of this project generally consists of collecting available records of service lines, creation of a database of available information collected per service, creation of a list of unknown service line materials and ranking for verification that indicates high, medium, and low probability of lead, creation of a list of services categorized as lead, galvanized requiring replacement, or lead status unknown, and the preparation of a plan to aid the water department with confirming service line material for services with unknown materials.

Walpole DWL-24-32**DW LSL Inventory and Replacement Plan**

The project consists of data collection and development of a lead service line inventory. This information will be used to prepare a removal prioritization list and a lead service removal action plan.

Wilkinsonville Water District DWL-24-26**Drinking Water Lead Service Line Replacement Plan**

This project will be completed for the Wilkinsonville Water District (PWS 2290014). the work generally consists of collection of available records, the creation of a service line inventory, the creation of a list of unknown service line materials and a ranking for verification that indicates high, medium, and low probabilities of lead, the creation of a GIS shapefile with the inventory database, creation of a list of service lines categorized as lead, galvanized requiring replacement, or lead status unknown, the development of a plan to address, service lines categorized as lead, galvanized requiring replacement, or lead status unknown, and conduction home inspections at up to 100 properties to confirm or verify material.

Cybersecurity Improvement Grant Commitments and Agreements**Amherst DWC-24-15**

Cybersecurity Improvement Grant Program

Athol DWC-24-14

Cybersecurity Improvement Grant Program

Attleboro DWC-24-8

Cybersecurity Improvement Grant Program

Ayer DWC-24-2

Cybersecurity Improvement Grant Program

Centerville-Osterville-Marstons Mills Fire District DWC-24-3

Cybersecurity Improvement Grant Program

Framingham DWC-24-9

Cybersecurity Improvement Grant Program

Housatonic Water Works DWC-24-5

Cybersecurity Improvement Grant Program

Littleton DWC-24-11

Cybersecurity Improvement Grant Program

Lunenburg Water District DWC-24-13

Cybersecurity Improvement Grant Program

Merrimac DWC-24-1

Cybersecurity Improvement Grant Program

Middleborough DWC-24-4

Cybersecurity Improvement Grant Program

Palmer Water and Fire District DWC-24-15

Cybersecurity Improvement Grant Program

Rowley DWC-24-16

Cybersecurity Improvement Grant Program

Salem and Beverly Water Supply Board DWC-24-12

Cybersecurity Improvement Grant Program

Southampton DWC-24-7

Cybersecurity Improvement Grant Program

Southbridge DWC-24-10

Cybersecurity Improvement Grant Program

Southwick DWC-24-6

Cybersecurity Improvement Grant Program

Clean Water Commitments

Barnstable CW-23-54

2023 Wastewater Pump Station Improvements

The Project will upgrade the Town of Barnstable's existing Old Colony, Bay Shore Road, Ocean Street, and Gosnold Street wastewater pumping stations to improve reliability, energy efficiency and resiliency.

Haverhill CW-23-14**Pump Station Upgrades**

The Project will implement recommendations of the City's 2016 Wastewater Pumping Station Evaluation and Capital Improvement Plan. The project will replace deficient and aging infrastructure to reduce the risk of failure and potential sewer overflows.

Lynn Water & Sewer Commission CW-21-22**WWTF Initial Capital Improvements**

The Lynn Water and Sewer Commission's project includes modifications and additions to the existing WWTF and collection system pump stations. These improvements are necessary to remain in compliance with effluent requirements, as well as improve and/or repair aging systems and infrastructure at the 40-year-old WWTF and collection system pumping stations. This project will help to maintain the WWTF functionality through the next 20-year operations contract. The project includes upgrades to the Liquids and Solids Handling Processes, improvements to the Site and Building System and improvements to the Collection System Pumping Stations.

Pittsfield CW-24-08**Pittsfield SSES Phase 2**

The City of Pittsfield was awarded a CWSRF planning stage loan in 2022 for the infiltration and Inflow Study and Sanitary Sewer Evaluation Survey Project (CWSRF #7171). The I/I SSES project is currently ongoing and includes a new city-wide I/I study with follow-on Phase 1 sanitary sewer evaluation survey (SSES) investigations. The I/I SSES project aims to assess the condition of the Pittsfield sanitary sewer collection system and provide recommendations for an I/I control plan and rehabilitation capital plan to cost-effectively reduce clean water from entering the wastewater system. This new project includes the second phase of SSES investigation which is subsequent to the first phase of SSES investigations. The Phase 2 SSES investigations will examine priority infiltration subareas and will include CCTV pipe inspections. The goal of this project is to evaluate and recommend repairs for removal of identified sources of infiltration within Pittsfield's collection system.

Drinking Water Commitments**Aquarion Water Company of Massachusetts, Inc. DW-23-134****Oak Pond Well GAC Treatment Facility**

The Project will construct an approximately 1,125 square foot building and install two 12-foot diameter Granular Activated Carbon filter vessels, with a treatment design capacity of 530 gallons per minute. The new treatment facility will include the installation of a backwash waste holding tank and force main to connect to the existing sanitary sewer, and chemical feed systems for disinfection and corrosion control.

Aquarion Water Company of Massachusetts, Inc. DW-23-144

The Project includes the construction of a new water treatment plant to address elevated source water manganese levels at the North Main Street wellfield in Oxford. This project is part of a Corrective Action Plan signed by Aquarion Water Company and MassDEP to strengthen the drinking water system treatment practices in Oxford.

Fall River DW-22-11**Wilson Road Booster Pumping Station**

The City of Fall River seeks financial assistance to construct a new booster pumping station at the Wilson Road Pump Station site to serve the high service zone and industrial park elevated tank and increase resiliency in the City's water system. The booster station will provide a redundant source of supply to the high service zone to ensure adequate operating pressures are maintained in the distribution system at all times. This work is part of the contract bid that includes the Wilson Road Sewer Pump Station funded through CWSRF 6762.

Hopedale DW-23-117**Greene Street WTP PFAS Treatment**

The Project consists of adding PFAS treatment to the WTP that includes construction of two 10-foot diameter pressure vessels containing granular activated carbon (GAC), an additional 8-foot diameter greensand filter, and a sodium thiosulfate system for dechlorination. A new truck pad will be constructed as well for simpler chemical delivery.

Sudbury Water District DW-23-138**East Street WTP PFAS Treatment**

The Project includes construction of a permanent treatment facility consisting of two 10-foot diameter Granular Activated Carbon pressure vessels and four 6-foot diameter ion exchange resin vessels. The vessels will be housed in a building adjacent to the East Street WTP.

West Bridgewater DW-23-124**West Bridgewater Long Term PFAS Compliance**

The Project consists of the construction of a PFAS treatment modification to the Manley Street Water Treatment Facility to comply with the PFAS6 MCL.

Clean Water Agreements**Barnstable CWP-21-49-B****Route 28 East Sewer Expansion Project**

The Town of Barnstable's project includes construction of approximately 11,000 linear feet of gravity sewer and a new pump station. Once operational, the new infrastructure will handle approximately 1.5 million gallons per day (MGD) of average daily flow. This project is the critical element toward building an extensive wastewater collection system that will eventually serve more than 7,000 properties during the town's thirty-year phased Comprehensive Wastewater Management Plan.

Barnstable CWP-23-54**2023 Wastewater Pump Station Improvements**

The Project will upgrade the Town of Barnstable's existing Old Colony, Bay Shore Road, Ocean Street, and Gosnold Street wastewater pumping stations to improve reliability, energy efficiency and resiliency.

Brockton CWP-23-30**Sewer System Rehabilitation Phase 3**

The Project includes up to 10 miles of preparatory cleaning of existing sewer pipe, internal television inspection, cured-in-place (CIP) sewer pipe lining, and rehabilitation of manholes. The work also includes all restoration, bypass pumping, and miscellaneous work and cleanup. Sewer reaches and sewer manholes selected for this project have been identified based on the 2017 sewer flow monitoring program and will be prioritized based on the City's on-going sewer infiltration investigations.

Fall River CWP-21-50**Wilson Road Sewer Pump Station Replacement**

The City of Fall River's project includes full replacement with a submersible pump station, a building to house the generator, electrical equipment and controls, a new 12" force main and lining of 1,500 LF of poorly performing vitrified clay sewer. The project will include an essential water booster pump station on the same parcel, presented in DWSRF PEF 6763. Constructed in 1970 to serve the Fall River Industrial Park and the northeast section of Fall River, the Wilson Road Sewer Pump Station is at the end of its service life, and it has insufficient capacity to handle existing wet weather flows and projected future flows from expansion planned in the Industrial Park.

Harwich CWP-23-19**Harwich Phase 3 Sewer Extension**

The Harwich 2023 Phase 3 Sewer Project will allow the town to continue implementing their approved Comprehensive Wastewater Management Plan (CWMP). This project will continue the sewer implementation called for in the CWMP to address nitrogen loading from septic systems by implementing a wastewater collection system to serve watersheds that impact coastal estuaries. This project will address a portion of the Pleasant Bay Watershed including Muddy Creek Upper and Lower, Round Cove, and Pleasant Bay.

Harwich CWP-23-19-A**Harwich Phase 3 Sewer Extension**

The Harwich 2023 Phase 3 Sewer Project will allow the town to continue implementing their approved Comprehensive Wastewater Management Plan (CWMP). This project will continue the sewer implementation called for in the CWMP to address nitrogen loading from septic systems by implementing a wastewater collection system to serve watersheds that impact coastal estuaries. This project will address a portion of the Pleasant Bay Watershed including Muddy Creek Upper and Lower, Round Cove, and Pleasant Bay.

Haverhill CWP-23-14

Pump Station Upgrades

The Project will implement recommendations of the City's 2016 Wastewater Pumping Station Evaluation and Capital Improvement Plan. The project will replace deficient and aging infrastructure to reduce the risk of failure and potential sewer overflows.

Lynn Water & Sewer Commission CWP-21-22

WWTF Initial Capital Improvements

The Lynn Water and Sewer Commission's project includes modifications and additions to the existing WWTF and collection system pump stations. These improvements are necessary to remain in compliance with effluent requirements, as well as improve and/or repair aging systems and infrastructure at the 40-year-old WWTF and collection system pumping stations. This project will help to maintain the WWTF functionality through the next 20-year operations contract. The project includes upgrades to the Liquids and Solids Handling Processes, improvements to the Site and Building System and improvements to the Collection System Pumping Stations.

Marshfield CW-23-18

Plymouth Ave Pump Station Upgrades

The Project includes a full rehabilitation of the Plymouth Ave Pump Station, force main, wet well, HVAC system, electrical system, and roof system. Many of the components are beyond their intended useful life and are in need of immediate replacement in order to maintain reliable sewer service in the area. The upgrades include concrete repair work in the wet well, replacement of the existing 50 HP dry pit pumps, piping and valves, replacement of the undersized generator, replacement of the outdated HVAC and electrical systems and replacement of the existing asphalt roofing system.

Pittsfield CW-24-08

Pittsfield SSES Phase 2

The City of Pittsfield was awarded a CWSRF planning stage loan in 2022 for the infiltration and Inflow Study and Sanitary Sewer Evaluation Survey Project (CWSRF #7171). The I/I SSES project is currently ongoing and includes a new city-wide I/I study with follow-on Phase 1 sanitary sewer evaluation survey (SSES) investigations. The I/I SSES project aims to assess the condition of the Pittsfield sanitary sewer collection system and provide recommendations for an I/I control plan and rehabilitation capital plan to cost-effectively reduce clean water from entering the wastewater system. This new project includes the second phase of SSES investigation which is after the first phase of SSES investigations. The Phase 2 SSES investigations will examine priority infiltration subareas and will include CCTV pipe inspections. The goal of this project is to evaluate and recommend repairs for removal of identified sources of infiltration within Pittsfield's collection system.

Upper Blackstone Clean Water CWP-23-21

Standby Power for Resiliency

The Project includes the construction of new facilities to provide standby power for the entire WWTF, including new standby generators and related elements such as switchgear and electrical conduit, as well as additional renewable energy sources to provide resiliency, currently being evaluated for inclusion.

Drinking Water Agreements

Fall River DWP-22-11

Wilson Road Booster Pumping Station

The City of Fall River seeks financial assistance to construct a new booster pumping station at the Wilson Road Pump Station site to serve the high service zone and industrial park elevated tank and increase resiliency in the City's water system. The booster station will provide a redundant source of supply to the high service zone to ensure adequate operating pressures are maintained in the distribution system at all times. This work is part of the contract bid that includes the Wilson Road Sewer Pump Station funded through CWSRF 6762.

Hopedale DWPEC-23-117

Greene Street WTP PFAS Treatment

The Project consists of adding PFAS treatment to the WTP that includes construction of two 10-foot diameter pressure vessels containing granular activated carbon (GAC), an additional 8-foot diameter greensand filter, and a sodium thiosulfate system for dechlorination. A new truck pad will be constructed as well for simpler chemical delivery.

Lynnfield Center Water District DWEC-23-131

Glen Drive WTP & Station 2 Pipeline

The Project includes the construction of a new 0.8 MGD water treatment plant (WTP) for existing water sources and 4,000 LF of transmission main. The WTP will include radon removal, new high lift pumps, greensand pressure vessels, GAC pressure vessels, chemical feed systems, backup generator and associated building mechanical. The Station 2 pipeline project includes 4,000 linear feet of 6" ductile iron transmission main to connect the Station 2 water source to the Glen Drive WTP. The completed project is needed for long-term PFAS compliance, and will mitigate PFAS with the required iron, manganese and radon removal prior to the GAC.

Sharon DWEC-23-123

Wells 2 & 4 Water Treatment Plant

The Project consists of the construction of a permanent treatment facility to reduce PFAS6 and manganese levels in the finished water from Wells 2 & 4.

Stoughton DWPEC-23-122

Muddy Pond Pump Station PFAS Treatment

The Project includes the installation of a new PFAS treatment facility with 2 Granular Activated Carbon pressure vessels to remove PFAS and comply with drinking water regulations.

Sudbury Water District DWEC-23-138**East Street WTP PFAS Treatment**

The Project includes construction of a permanent treatment facility consisting of two 10-foot diameter Granular Activated Carbon pressure vessels and four 6-foot diameter ion exchange resin vessels. The vessels will be housed in a building adjacent to the East Street WTP.

Water Supply District of Acton DWEC-23-126**PFAS Treatment at South Acton WTP**

The Project includes the construction of a building addition at the existing South Acton WTP site to house the equipment needed for PFAS removal. Treatment will include Granular Activated Carbon and/or Ion Exchange. The completed project will improve drinking water quality by reducing high PFAS concentrations.

Webster DWPEC-23-119**PFAS Water Treatment Plants**

The Project consists of the construction of two new PFAS water treatment plants and a meter system upgrade project. The WTPs will remove PFAS to below regulatory limits from both the Memorial Beach and Bigelow Well Sites. The proposed new WTP at the Bigelow site will also remove manganese to below regulatory limits. Two replacement wells will also be installed to improve system redundancy. The water meter upgrade project will significantly reduce the Town's unaccounted for water (UAW).

West Bridgewater DWPEC-23-124**West Bridgewater Long Term PFAS Compliance**

The Project consists of the construction of a PFAS treatment modification to the Manley Street Water Treatment Facility to comply with the PFAS6 MCL.

Winchendon DWP-23-110**Water Transmission Main Replacement**

The Project includes the construction of approximately 21,000 linear feet of new 12" ductile iron water transmission main in Winchendon and Ashburnham. The Project also includes installation of 2 water meter vaults, 2 bridge crossings, and 1 culvert crossing. The Project will replace the existing water main that was installed in the early 1950's and has a history of excessive breaks. The existing water main is the sole transmission water main providing water to the Town of Winchendon and many residents within the Town of Ashburnham.

Loans to Aquarion Water Company of Massachusetts, Inc.

Aquarion Water Company of Massachusetts, Inc. DWEC-23-134

Oak Pond Well GAC Treatment Facility

The Project will construct an approximately 1,125 square foot building and install two 12-foot diameter Granular Activated Carbon filter vessels, with a treatment design capacity of 530 gallons per minute. The new treatment facility will include the installation of a backwash waste holding tank and force main to connect to the existing sanitary sewer, and chemical feed systems for disinfection and corrosion control.

Aquarion Water Company of Massachusetts, Inc. DWEC-23-144

North Main Street Water Treatment Plant

The Project includes the construction of a new water treatment plant to address elevated source water manganese levels at the North Main Street wellfield in Oxford. This project is part of a Corrective Action Plan signed by Aquarion Water Company and MassDEP to strengthen the drinking water system treatment practices in Oxford.