Project Descriptions for December 4, 2024

Board of Trustees Meeting

Asset Management Planning Commitments and Agreements

Belmont DWA-24-44
Asset Management Planning
The project includes an update to the Town's asset inventory to reflect recent upgrades to the system and complete connectivity. In addition, a computer-based model will be generated and used to perform a condition assessment by examining current levels of service and informing a criticality/risk analysis by examining likelihood and consequence of failure. This will generate a list of priority assets, and an Asset Management Plan will be drafted outlining recommended water system improvements.

Bondsville Fire and Water District DWA-24-38
Bondsville Asset Management
The Bondsville Fire & Water District will create Asset Inventory databases for horizontal and vertical assets that will be used to develop preventative maintenance schedules and identify assets in need of replacement.

Danvers CWA-24-38
Danvers Stormwater Asset Management Project
The project will develop an Asset Management Plan (AMP) that would help the Town understand the condition and vulnerabilities of the drainage system and would assist the Town in establishing a proactive stormwater system maintenance, repair, and replacement program and help with budgeting needs. The AMP will expand existing stormwater asset inventory and condition data, identify critical assets within the system, update attribute GIS data, determine an appropriate level of service, move to a more proactive O&M program, perform funding analysis, and assist with ongoing MS4 permit requirements.

Freetown DWA-24-71
Water System Infrastructure Mapping
The project will field locate and assess the Town's water system assets (gate valves and hydrants) and establish connectivity in GIS. The Town will integrate this inventory into and develop an asset management platform for work order management. The Town also plans to integrate water system records into its asset management platform.

Hingham DWA-24-74
Water System Infrastructure Mapping
The WRWS project is to locate gate valves and hydrants using a GPS device and integrate these assets into a GIS environment. In addition, the WRWS is to integrate the water system asset inventory into the Asset Management Platform on PeopleGIS to allow the WRWS to manage assets through its robust work order system.

Medfield CWA-24-70
Medfield Sewer Collection AMP
The project is to complete an AMP for the Town's sewer collection system that will help understand the condition of the system and potential investment needed in the short, and midterm to minimize infiltration and inflow (I/I). The Town of Medfield's wastewater collection system was primarily installed in the 1970s and consists of 62 miles of sewer main network. The collection system is experiencing groundwater infiltration and rainfall induced infiltration because of structural defects within the sewer pipes and manholes. The Town has invested in a recent Sewer System Evaluation Survey (SSES) to aid in identifying the sewer subareas contributing to the infiltration.

Orleans DWA-24-66
Orleans Asset Management Plan Updates
The project is to update and implement the existing Asset Management Plan to improve upon and consolidate inventory and mapping of the Town's water system. The project will develop a comprehensive inventory and condition assessment of all the systems' horizontal assets, which will aid the Town in coordinating efforts to maintain and rehabilitate critical infrastructure in a timely and cost-effective way, thereby reducing risk of system failure and ensuring continued, high-quality service to customers in a growing community.

Somerset DWA-24-87
Somerset WTP Asset Management Plan
The project is to conduct a thorough evaluation of the Town's water treatment plant and create an Asset Management Plan (AMP). Objectives: Perform a detailed conditional assessment of the WTP. Document and evaluate equipment, systems, and structures for recommended maintenance or replacement. Define and assess likelihood and consequence of failure of critical assets by development of a risk-based Asset Management (AM) Program. Develop a life cycle cost and integrated capital improvement plan defining annual, 5, and 10-year capital improvements to be made to the WTP. Prepare an Asset Management and Implementation Plan Report.

Southbridge CWA-24-66
Stormwater Asset Management Project
They will develop a risk-based AMP to guide decision making and help prioritize asset rehabilitation, replacement, and maintenance activities to meet level of service goals, including resilience. It will also refine the existing asset inventory, including current conditions and enhance in-house data collection. It will identify and prioritize critical assets within the stormwater system, including the consequence of failure of such assets.

Lead Service Line Planning Program Commitments and Agreements

Boston Water and Sewer Commission DWL-23-73
Lead Service Line Inventory Investigations
The Commission is undertaking the inventory of thousands of private and public water services which the current records indicate as unknown, other or lead. The Commission is documenting the services by various methods including, internal scratch tests, vacuum excavation and potentially with a new device developed by Electroscan. There are 2,561 water services on the public side and 4,366 water services on the private side that require investigation.

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.

Marion DWL-23-17
LSL Inventory & Replacement Project
The work of this project generally consists of preparing a comprehensive Lead Service Line Inventory and database for both the public and private portions of water service lines that will be made publicly available. The database will be built using available digital and paper records, MassGIS database, assessor's database, and based on information included in the EPA's Service Line Inventory Guidance. A list of unknown service lists will be created with associated high, medium, and low probability of lead rankings. Schedule and conduct up to 150 home inspections focusing on locations determined to have a high probability of lead.

North Adams DWL-23-101
Lead Service Line Inventory and Replacement Plan
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 North Adams water distribution system 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 city to produce an LSL replacement plan. The plan will include a procedure for conducting replacements and a funding strategy.

North Chelmsford Water District DWL-23-145
Service Line Inventory and Replacement Plan
This work will include investigation of unknown service lines utilizing a combination of machine learning technology and service line inspections, development of Lead Service Line (LSL) inventory tool to publicly display mapping of the district's existing inventory, provide updates to the Client's existing water system geographic information systems (GIS) and assistance with submitting the MassDEP service live inventory template and replacement plan development.

Community Septic Management Program Commitment

Avon CW-24-63
Septic Management Program
Repairing, replacing and/or upgrading failed septic systems.

Clean Water Commitments

Massachusetts Water Resources Authority CW-24-68
DITP Clarifier #2
The Massachusetts Water Resources Authority's project is needed to correct deficiencies noted during the first Primary & Secondary Clarifier project. Project will include the replacement of systems such as: influent gates that are not providing adequate isolation: effluent launders and aeration systems that are in need of repair/replacement; and, concrete corrosion in primary clarifiers above the water line that require repair and coating to prevent future corrosion. The sludge removal system in primary tanks and aeration/recirculation systems in secondary tanks need to be rehabilitated as well. The Authority will not be able to meet its discharge permit without this upgrade.

Wareham CW-24-23
WPCF Improvements - Phase 2
The Project consists of upgrades to the Wareham WPCF to continue to treat existing and future flows that are anticipated as a result of growth within the community and for nutrient management. Upgrading these processes is critical to the continued functioning of the facility and will allow for further expansion of the collection system and potentially bringing many failing septic systems into the centralized wastewater treatment system.

Yarmouth CW-24-67
Phase I - WRRF and Collection System
The Project implements Phase 1 of Yarmouth's CWMP that includes: construction of Water Resource Recovery Facility, construction of effluent recharge site and collection system with sewering (approximately 78,000 lin ft) and pumping stations along Rte. 28, from the Barnstable town line to the Bass River, along with sewering on South Shore Drive. The construction of the new WRRF and collection system in Phase 1 will begin to reduce nitrogen loading in the nitrogen-sensitive Bass River, Parkers River, and Lewis Bay watersheds. These watersheds require a large reduction in nitrogen based on the MEP reports and TMDLs. Phase 1 will also help protect municipal drinking water wells from contamination by reducing on-site septic systems.

Drinking Water Commitments

Braintree DW-24-75
Tri-Town Regional Water Treatment Plant
The proposed Tri-Town Regional Water Treatment Plant (TTRWTP) project would create a regional facility to replace the existing Braintree WTP and Randolph/Holbrook WTP. The new regional facility would eliminate redundancies of having two individual plants and their associated capital and operation and maintenance costs. The new Tri-Town WTP will help protect public health by reducing bacteria, carcinogenic compounds, and disinfectant byproducts present in the current systems. The water treatment process would be as follows:

- Polymer and PACL addition for coagulation of raw water
- Dissolved air floatation (DAF) for removal of larger, coagulated solids
- Granular activated carbon (GAC) filtration for removal of per- and polyfluoroalkyl substances
(PFAS) and smaller, finer solids
- Chlorine addition for disinfection and pH adjustment for corrosion control

The new TTRWTP will incorporate improved treatment technology to provide high quality finished water and to maintain distribution system residuals. The regional facility, with a design capacity of 12.5 MGD, would meet all current and anticipated drinking water standards, and would also improve the aesthetic quality of drinking water for Braintree, Randolph, and Holbrook.

Chatham DW-24-23
Training Field Road PFAS Water Treatment Plant
This Project involves the construction of a new water treatment facility to treat the PFAS contamination found in two of the Town's wells. The new water facility will include chemical treatment as well as greensand and PFAS filtration systems. Modifications and upgrades to the well buildings will be necessary to support the WTP. The goal of the Project is to remove PFAS, iron, and manganese from the water, providing the Town with safe drinking water.

Eastham DW-24-85
Eastham Water System - Phase 2E
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.

Easton DW-24-47
Red Mill Road WTP PFAS Upgrade
The project involves adding treatment to The Red Mill Road Water Treatment Plant (WTP) that combines raw water from Wells 3, 5, and 7 for iron and manganese treatment at the new WTP. Source water quality at Wells 3, 5, and 7 currently meet the MassDEP Maximum Contaminant Limit (MCL) for per- and polyfluoroalkyl substances (PFAS).

Holbrook DW-24-77
Tri-Town Regional Water Treatment Plant
The proposed Tri-Town Regional Water Treatment Plant (TTRWTP) project would create a regional facility to replace the existing Braintree WTP and Randolph/Holbrook WTP. The new regional facility would eliminate redundancies of having two individual plants and their associated capital and operation and maintenance costs. The new Tri-Town WTP will help protect public health by reducing bacteria, carcinogenic compounds, and disinfectant byproducts present in the current systems. The water treatment process would be as follows:

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- Chlorine addition for disinfection and pH adjustment for corrosion control

The new TTRWTP will incorporate improved treatment technology in order to provide high quality finished water and to maintain distribution system residuals. The regional facility, with a design capacity of 12.5 MGD, would meet all current and anticipated drinking water standards, and would also improve the aesthetic quality of drinking water for Braintree, Randolph, and Holbrook.

Littleton DW-24-84
Water Supply Main Extension Littleton/Boxborough
The Project will develop a new water supply well at 153 Taylor St. The new well should supply ~0.5MGD. The new well will pump to the new LELWD WTP & provide additional water to the existing customers of Littleton and proposed 18 PWSs in Boxborough that are impacted by PFAS, sodium, chloride, & perchlorate. The work includes drilling & construction of the new groundwater well & associated pump station, a new raw water main to convey water from the new well to the new WTP, and a new finished water main extending from the existing Littleton main in Whitcomb Ave and continuing south ~4.5 miles to the Codman Hill Condominiums PWS#2037001 in Boxborough.

Lynnfield Center Water District DW-24-82
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.

Massachusetts Water Resources Authority DW-24-69
Northern Intermediate High Section 89 Replacement
This construction project will replace approximately 10,500 feet of 48-inch PCCP water main, Section 89, in Stoneham, Winchester, and Woburn, the abandonment of Section 29 in Stoneham, and the replacement of valves and appurtenances for approximately 9000 feet of 36-inch Ductile Iron water main in Woburn. Replacement of the older PCCP pipeline in Section 89 (identified as having a significant risk of catastrophic failure) will ensure that this service area has a redundant means of water supply.

Massachusetts Water Resources Authority DW-24-83
Section 23, 24, 47 Water Mains Rehab
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 because of breaks and leaks, and improve hydraulic and operating deficiencies in the distribution system.

New Bedford DW-24-78
Quittacas Water Treatment Plant Upgrades
The City of New Bedford's Quittacas Water Treatment Plant (QWTP) Upgrades project is the second phase of the QWTP upgrades. The QWTP was constructed in the 1970's and no major upgrade has been completed since. Phase 1 was just completed and included upgrades to the electrical distribution system. This phase includes upgrades to the remaining major equipment such as the HVAC system, SCADA, and process areas to ensure the plant continues to function safely and properly.

Randolph DW-24-76
Tri-Town Regional Water Treatment Plant
The proposed Tri-Town Regional Water Treatment Plant (TTRWTP) project would create a regional facility to replace the existing Braintree WTP and Randolph/Holbrook WTP. The new regional facility would eliminate redundancies of having two individual plants and their associated capital and operation and maintenance costs. The new Tri-Town WTP will help protect public health by reducing bacteria, carcinogenic compounds, and disinfectant byproducts present in the current systems. The water treatment process would be as follows:

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- Granular activated carbon (GAC) filtration for removal of per- and polyfluoroalkyl substances (PFAS) and smaller, finer solids
- Chlorine addition for disinfection and pH adjustment for corrosion control

The new TTRWTP will incorporate improved treatment technology to provide high quality finished water and to maintain distribution system residuals. The regional facility, with a design capacity of 12.5 MGD, would meet all current and anticipated drinking water standards, and would also improve the aesthetic quality of drinking water for Braintree, Randolph, and Holbrook.

Raynham Center Water District DW-24-73
PFAS Water Treatment Plants
The Project includes the construction of two PFAS water treatment plants, one at the Lake Nip site and one at the Gushee Pond site.

Scituate DW-24-86
Surface Water Treatment Plant
The Project includes the construction of a new water treatment facility in accordance with the Administrative Consent Order (ACO) received in August 2020. The new water treatment facility will include plate settler clarification, 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.

Sharon DW-24-79
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.

Somerville DW-23-42
Somerville LSL Replacement Program
Drawing from the recently completed service line inventory, the lead service line (LSL) replacement program was developed to achieve the City's goal to eliminate lead materials from the drinking water distribution system. This Project consists of multiple phases, each of which targets approximately 100 properties each year, for replacement of service lines known to contain lead. Ongoing Work includes updates to the system inventory and support for future phases until the goal is achieved.

Webster DW-24-81
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).

Community Septic Management Agreement

Avon CWT-24-63
Septic Management Program
Repairing, replacing and/or upgrading failed septic systems.

Clean Water Agreements

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New Bedford CWP-23-26

Sassaquin Pond Water Quality Improvements

The Project consists of water quality improvements within the area tributary to Sassaquin Pond, located at the north end of the City of New Bedford. The pond has historically poor water quality and is subject to algal blooms. This project will directly abate the issues addressed in an existing court order and improve water quality in the pond.

New Bedford CWP-23-26-A

Sassaquin Pond Water Quality Improvements

The Project consists of water quality improvements within the area tributary to Sassaquin Pond, located at the north end of the City of New Bedford. The pond has historically poor water quality and is subject to algal blooms. This project will directly abate the issues addressed in an existing court order and improve water quality in the pond.

Wareham CWP-24-23

WPCF Improvements - Phase 2

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Yarmouth CWP-23-03

Phase I - WRRF and Collection System

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Yarmouth CWP-24-67

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Yarmouth CWP-24-67-A

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Drinking Water Agreements

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Eastham DWP-24-85
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Littleton DWEC-23-136
Water Supply Main Extension Littleton/Boxborough
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Lynnfield Center Water District DWEC-24-82
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Massachusetts Water Resources Authority DW-24-69
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Mattapoisett River Valley Water District DWP-24-43
MRVWD Water Treatment Plant Upgrades
The project includes replacement of the existing TARGA® II ultrafiltration system at the Mattapoisett River Valley Water District's Water Treatment Plant with a new PURON® MP 64 ultrafiltration system, furnishing and installing a 4-log virus removal UV disinfection system, and SCADA system upgrades. The UV disinfection system will provide continuous disinfection of water serving the district communities.

New Bedford DWP-24-78
Quittacas Water Treatment Plant Upgrades
The City of New Bedford’s Quittacas Water Treatment Plant (QWTP) Upgrades project is the second phase of the QWTP upgrades. The QWTP was constructed in the 1970's and no major upgrade has been completed since. Phase 1 was just completed and included upgrades to the electrical distribution system. This phase includes upgrades to the remaining major equipment such as the HVAC system, SCADA, and process areas to ensure the plant continues to function safely and properly.

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PFAS Water Treatment Plants
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Surface Water Treatment Plant
The Project includes the construction of a new water treatment facility in accordance with the Administrative Consent Order (ACO) received in August 2020. The new water treatment facility will include plate settler clarification, 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.

Sharon DWEC-24-79
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.

Somerville DWPLC-23-42

Somerville LSL Replacement Program

Drawing from the recently completed service line inventory, the lead service line (LSL) replacement program was developed to achieve the City's goal to eliminate lead materials from the drinking water distribution system. This Project consists of multiple phases, each of which targets approximately 100 properties each year, for replacement of service lines known to contain lead. Ongoing Work includes updates to the system inventory and support for future phases until the goal is achieved.

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