Project Descriptions for April 29, 2020

Board of Trustees Meeting

Community Septic Management Program Commitments

Plymouth CW-20-02
Community Septic Management Program

Stoughton CW-20-01
Community Septic Management Program

Drinking Water Commitment

MWRA DW-20-02
The Weston Aqueduct Supply Main 3 (WASM 3) is an existing 10-mile, 56-inch to 60-inch diameter, steel water main that supplies the communities of Waltham, Watertown, Belmont, Arlington, Lexington, Bedford and Winchester. In addition, the pipe conveys flow to the MWRA's Intermediate High, Northern High and Northern Extra High pressure systems. The pipe was built in the 1920's and is in need of repair due to frequent leaks and aging valves and appurtenances. It serves as a primary means of backup supply within the MWRA's distribution system in the event of a failure along the City Tunnel and City Tunnel Extension.

Clean Water Agreements

Fall River CWP-19-23
The purpose of this project is to replace the South End sewer pump station. The pump station was constructed in the 1960's and has exceeded its useful life. In addition. The pump station struggles to keep up with wet weather flows due to high inflow and infiltration (I/I) within the sewershed. A new submersible pump station will be constructed to replace the outdated pumps, piping, and equipment. The pump station will be constructed with additional capacity (in order to handle wet weather flows), a standby power generator, motor controls, and a SCADA system.

Fall River CWP-19-23-A
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Gloucester CWP-19-44
The project includes work at five wastewater pump stations. The Beacon Marine and Parker Street stations will undergo required architectural and structural rehabilitation to the roof, façade, doors and concrete wet wells (H2S corrosion). Rehabilitation of these facilities is essential to maintaining a high level of service and reliability in the wastewater collection system. The City of Gloucester has an aggressive Fats, Oils and Grease (FOG) program for industrial and commercial users, as well as, a comprehensive education program for residential users. Despite these efforts, FOG mitigation systems must be installed at the Corliss Ave, Finch Lane and Thurston Point stations, all of which service residential neighborhoods.

Holyoke CWP-19-04
The project consists of the separation of combined sewers in the Jackson St. area to eliminate 23 million gallons of combined flow that currently discharges to the Connecticut River annually from the Jackson St. area outfall. The work includes the construction of 14,400 ft. of new sewers and drains, and 3,200 ft. of sewer lining. Elimination of the Jackson St. combined sewer outfall will result in a significant improvement in water quality within the Connecticut River in this area of the City. The project is consistent with the City's CSO Long-Term Control Plan and is being required by an Administrative Order issued by the U.S. EPA and a draft Consent Decree issued by the U.S. Department of Justice.

Holyoke CWP-19-04-A
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Hull CWP-18-29
Hull is completing a CMOM, under AOC (Docket CWA-01-AO-16-09), which identified a number of upgrades that are in order. In addition, the Town completed a Fiscal Sustainability Plan (FSP) in June 2017, which prioritized facility/wastewater system upgrades. This project addresses the Year One Upgrades that includes three construction contracts. These Year One contracts were deemed an extreme risk to the system and a priority for immediate attention due to age, historic failure histories, impacts to the wastewater operations and cost benefit analyses of repair/replacement. The construction project includes Contract No. 1 Sewer Interceptor Pipeline Renewal, Contract No. 2 Atlantic Avenue/Gunrock Area Sewer Infrastructure Renewal, and Contract No. 3 Critical Replacements at POTW contracts.

West Springfield CWP-19-41
The proposed project involves the installation of approximately 17,000 linear feet (LF) of gravity sewer line, 1,100 LF of forcemain and three (3) lift stations. Each lift station will be designed to include energy efficient measures such as premium efficiency motors for the lift pumps. The Town is working to protect and enhance the quality of its water resources, improve wastewater service and eliminate potential environmental health problems. The goal of the project is to assist nearly 170 homeowners in the ability to decommission their septic systems, especially the 26 systems that have previously failed and others that are aging, by providing a means to which they can dispose of their sewage via the proposed sanitary sewer pipeline.

West Springfield CWP-19-41-A
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Plymouth CWT-20-02
Community Septic Management Program

Stoughton CWT-20-01
Community Septic Management Program

Drinking Water Agreements

Eastham DWP-19-06
The subject of this PEF is construction of a municipal water system for Eastham, which until this time has relied on private wells or community wells for water supply and onsite systems for wastewater disposal. Long-term monitoring of private wells has confirmed that the water quality of these wells is deteriorating. In May 2014 the Town authorized $45.8 Million for the first phase of this water system, and at their May 2015 Annual Town Meeting the Town authorized an additional $85 Million to construct the remainder of the system such that it will serve all of the properties in the Town (6,660 parcels). This 2019 PEF requests funding support for Phase 2B of the water system program.

Scituate DW-19-18
The goal of the project is to treat raw water from Well 17A for elevated iron and manganese. Treating the Well 17A raw water on site will allow for the Well to pump directly to the distribution system instead of being diverted into a nearby reservoir and treated at the Old Oaken Bucket Pond WTF.

Well 17A will be conveyed to the treatment plant via an existing 10-inch diameter transmission water main and transition to a 6-inch water main before entering the WTP. Raw water will be treated with chemical addition, filtered, and conveyed to a filtered water storage tank, where it will be metered and receive additional chemical treatment before entering the distribution system.

West Boylston Water District DWP-19-27
This project involves replacement of aging infrastructure to protect public health. The water main on North Main St, Laurel St, Waushacum St and Reed St is deteriorating AC main, that has reached the end of its useful life and suffering from repeat breaks, most recently on 8/18/18. During the repair it was noted that the water main had lost thickness in the area of the break. The concern is that more of the main is also deteriorating and will continue to suffer from breaks until it is replaced with new ductile iron main. Additionally, this area of the District's water distribution system has numerous lead goosenecks on customer service lines. These lead goosenecks will be completely eliminated through this water main replacement project.