

Project Descriptions for September 7, 2022

Board of Trustees Meeting

Asset Management Planning Commitments

Agawam CW-22-15

The Town of Agawam seeks to ensure the long-term sustainability of the Town's drinking water distribution, stormwater management, and wastewater collection systems by developing an Asset Management Plan that will assist managers in making decisions on when it is most appropriate to repair, replace, or rehabilitate assets.

North Brookfield CW-22-13

The Town of North Brookfield seeks to update and expand the asset inventory for the vertical system assets associated with the treatment facility and develop a data schema necessary for tracking of Town's wastewater assets, including horizontal infrastructure. For critical assets, estimated useful life and replacement costs based upon available asset information will be assigned. Risk assessment will be updated as needed, based upon asset inventory and condition. Town employees will receive training on the software.

Community Septic Management Program Commitment

Rowley CW-22-14

Community Septic Management Program

Clean Water Commitment

Spencer CW-21-48

The Town of Spencer's project involves essential upgrades to the WWTF to address stringent phosphorus and copper limits, achieve nitrogen removal goals, and replace aging infrastructure. An Administrative Order and the current NPDES permit require compliance with TP and copper limits by 12/31/2024. The project also includes abandoning use of constructed wetlands, and the construction of new septage receiving equipment, upgraded influent screening and odor control systems, improved grit removal, new submersible influent pumps, nitrogen removal, renovations to create lab space, the addition of a secondary clarifier, a new tertiary treatment building for phosphorous removal, UV disinfection, and new sludge thickening equipment.

Lead Service Line Planning Program Commitment

Millis DW-22-14

The Town of Millis seeks to complete the first phase of what may be a multi-phase project to complete an LSL Inventory and Replacement Plan. This project scope will include data screening, inventory development and GIS mapping, lead service line replacement plan development, public outreach planning, and SRF project administration.

Drinking Water Commitments

Brockton DW-22-13

The City of Brockton's North Main Street water transmission main replacement project will target the 18- to 24-inch unlined cast iron pipe from Manners Court (Woodland Avenue WTP) to East Battles Street where the City has experienced historical water main breaks and water quality issues, and extend the North Main Street water transmission main, on North Main Street, Wilder Street and North Montello Street. The new water transmission main will replace existing 6- and 8-inch diameter unlined cast iron water mains installed in the 1890's. In total, it will replace approximately 3, 900 feet of water main and will connect to the existing transmission main in North Montello Street, creating a better hydraulic loop in this part of the water distribution system.

Peabody DW-20-10

This project will include a full rehabilitation of the City's Winona WTP and additional treatment improvements at the Coolidge WTP for lowering the manganese and TTHM levels. The Winona WTP will be fully renovated with dissolved air flotation, backwash holding tanks with recycle and residuals handling improvements. The City will install aeration systems in Winona Pond and Suntaug Lake for the control of manganese in the raw water and will perform improvements to the Cedar Grove Clearwell at the Coolidge WTP including installation of aeration for the purposes of stripping TTHMs from the finished water.

Springfield Water and Sewer Commission DW-21-03

A new 1 million-gallon clearwell and associated backwash pump station will replace old, failing facilities that are needed to maintain reliable operation of the 60 MGD water production. The failing facilities are adversely impacting water quality being produced, contributing to MCL exceedances of haloacetic acids that has resulted in non-compliance with the Stage 2 Disinfection By-Products Rule.

Asset Management Planning Agreements

Agawam CWA-22-15

The Town of Agawam seeks to ensure the long-term sustainability of the Town's drinking water distribution, stormwater management, and wastewater collection systems by developing an Asset Management Plan that will assist managers in making decisions on when it is most appropriate to repair, replace, or rehabilitate assets.

North Brookfield CWA-22-13

The Town of North Brookfield seeks to update and expand the asset inventory for the vertical system assets associated with the treatment facility and develop a data schema necessary for tracking of Town's wastewater assets, including horizontal infrastructure. For critical assets, estimated useful life and replacement costs based upon available asset information will be assigned. Risk assessment will be updated as needed, based upon asset inventory and condition. Town employees will receive training on the software.

Community Septic Management Program Agreement

Rowley CWT-22-14

Community Septic Management Program

Clean Water Agreements

Acton CW-21-41

The Town of Acton's construction project at the Middle Fort Pond Brook Wastewater Treatment Facility (WWTF), includes upgrades and improvements to the existing WWTF and pump stations in the Town's collection system. The WWTF was originally built in the year 2000 and, with no significant upgrades, has reached its 20-year design life in 2020. These improvements include the replacement of aged WWTF system components that are approaching or have exceeded their useful life to ensure continued facility compliance. Additionally, improvements will be made to account for future capacity needs in the Town including the upsizing of equipment and processes at the WWTF.

Spencer CWP-21-48

The Town of Spencer's project involves essential upgrades to the WWTF to address stringent phosphorus and copper limits, achieve nitrogen removal goals, and replace aging infrastructure. An Administrative Order and the current NPDES permit require compliance with TP and copper limits by 12/31/2024. The project also includes abandoning use of constructed wetlands, and the construction of new septage receiving equipment, upgraded influent screening and odor control systems, improved grit removal, new submersible influent pumps, nitrogen removal, renovations to create lab space, the addition of a secondary clarifier, a new tertiary treatment building for phosphorous removal, UV disinfection, and new sludge thickening equipment.

Spencer CWP-21-48-A

The Town of Spencer's project involves essential upgrades to the WWTF to address stringent phosphorus and copper limits, achieve nitrogen removal goals, and replace aging infrastructure. An Administrative Order and the current NPDES permit require compliance with TP and copper limits by 12/31/2024. The project also includes abandoning use of constructed wetlands, and the construction of new septage receiving equipment, upgraded influent screening and odor control systems, improved grit removal, new submersible influent pumps, nitrogen removal, renovations to create lab space, the addition of a secondary clarifier, a new tertiary treatment building for phosphorous removal, UV disinfection, and new sludge thickening equipment.

Lead Service Line Planning Program Agreement

Millis DWL-22-14

The Town of Millis seeks to complete the first phase of what may be a multi-phase project to complete an LSL Inventory and Replacement Plan. This project scope will include data screening, inventory development and GIS mapping, lead service line replacement plan development, public outreach planning, and SRF project administration

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.

Eastham DWP-20-23

The project will construct a municipal water system for Eastham. The Town has relied on individual private 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. This project will construct the remainder of the water system that will serve all of the properties in the Town (6,600 parcels).

Peabody DWP-20-10

This project will include a full rehabilitation of the City's Winona WTP and additional treatment improvements at the Coolidge WTP for lowering the manganese and TTHM levels. The Winona WTP will be fully renovated with dissolved air flotation, backwash holding tanks with recycle and residuals handling improvements. The City will install aeration systems in Winona Pond and Suntaug Lake for the control of manganese in the raw water and will perform improvements to the Cedar Grove Clearwell at the Coolidge WTP including installation of aeration for the purposes of stripping TTHMs from the finished water.

Springfield Water and Sewer Commission DWP-21-03

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