

Project Descriptions for April 4, 2018

Board of Trustees Meeting

Clean Water Commitments

Fall River CW-18-03

The City of Fall River is under federal court order (FCO) to control combined sewer overflows (CSOs) to area receiving waters. The terms of the FCO require the City's CSOs achieve a 3-month level of control by the end of 2025. While the CSOs to Mount Hope Bay outfalls have been mitigated by the CSO tunnel, additional CSO control is required to meet the FCO requirements. The FCO requires sewer separation with green infrastructure as the method of CSO control.

SSOs and street flooding will also be addressed, especially in the vicinity of St. Anne's Hospital. 2012 storms resulted in flooding/closure of the St. Anne's Hospital emergency room.

Tyngsborough CW-15-10

The Town of Tyngsborough is experiencing water quality problems associated with failing private on-site wastewater disposal systems. The Phase I Sewer Extension project is located in the Flint Pond Watershed Basin, which is well documented as an impaired basin. All proposed sewerage is within the current wastewater discharge permit limits for flow rate. Removing failing and/or improperly operating septic systems will serve to protect and enhance the Merrimack Watershed and preserve its designated uses.

Tyngsborough CW-18-04

The Tyngsborough sewer system is comprised of approximately 116,000 lf of 8" to 24" separate sanitary sewers and 12 pump stations located in two major areas, one on either side of the Merrimack River. The project will consist of developing a 2018 I/I Analysis Program to comply with Massachusetts DEP regulations. In order to comply with the regulations, the Commission needs to perform a metering program and prepare an I/I Analysis Report. This project will review an existing Infiltration/Inflow Study completed in 2009 by Stantec and identify potential sewer system rehabilitation work.

Drinking Water Commitments

Fall River DW-15-11

This project will involve two contracts. The 'Phase 15 Water System Improvements' contract will involve changing the disinfection process at the Fall River Water Treatment Plant (WTP) from gaseous chlorine to a sodium hypochlorite feed system. The 'Water Treatment Improvements' contract will involve installing post-disinfection aeration. The work is intended to increase safety for the WTP employees, to minimize the risk of a plant shut down due to a chlorine gas release, and to reduce the formation of disinfection byproducts in the water supply.

Clean Water Agreements

Fall River CWP-18-03

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SSOs and street flooding will also be addressed, especially in the vicinity of St. Anne's Hospital. 2012 storms resulted in flooding/closure of the St. Anne's Hospital emergency room.

Lowell CWP-16-13

This project is for flood protection upgrades at the West Street Pump Station, in-line storage of wet weather flows in the Read Street interceptor and remote station (Combined Sewer Overflow (CSO) diversion stations and pump stations) improvements. The West Street flood pump station improvements will address the potential for neighborhood flooding upstream of the station, while the in-line storage and remote station upgrades will address CSO mitigation in the overall system as identified in the CSO Long-Term Control Plan.

Nantucket CW-17-20

Several Inflow and Infiltration (I/I) projects that were part of the '04 Capital Improvement Plans (CIP) recommended in a 2003 I/I study have been completed. In that study, review of '03 CCTV records identified areas for repair, and inflow data was used to pinpoint sources of I/I. The current Sewer System I/I and Metering Program is warranted to update 2003 data to properly identify future work, and project accurate costs to enable planning.

New Bedford CW-17-09

The purpose of this project is to provide the groundwork for meeting the requirements of the upcoming 2017 Massachusetts MS4 Permit. An initial planning stage will identify gaps in existing information and lay out a feasible schedule and budget for meeting permit milestones. The majority of planning documents required by the permit, including but not limited to, Illicit Discharge Detection and Elimination (IDDE) procedures, educational materials, SOPs, ordinances, research documents, O&M procedures, will be developed and used to implement permit objectives. Field mapping of the stormwater system using GPS units will be performed and used as the basis for preparation of the planning documents

New Bedford CW-17-10

The City of New Bedford's collection system is over 100 years old. Many of its critical components are showing signs of their age. This project will develop the required planning documents and complete field investigations necessary to begin implementing future system rehabilitation efforts, address regulatory requirement needs, eliminate illicit connection, and reduce CSOs

Tyngsborough CW-15-10

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Tyngsborough CW-18-04

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Drinking Water Agreements

Fall River DWP-14-08-A

The project includes the replacement of up to approximately 19,000 linear feet of cast iron water mains and 19 lead services. The project also includes installation of a new sanitary grinder pump station for discharge of domestic sewage from the City's Water Treatment Plant (WTP), and the replacement of the residuals pump station and associated electrical and control systems.

Fall River DWP-15-11-A

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