



2022 IUP Loan Forgiveness Project Descriptions

Clean Water Projects

Chatham

Loan Number	Total Loan Forgiveness	Total Loan Amount
CW-22-30	\$3,150,962	\$15,754,810

Chatham Stage Harbor (1C-5/1E-2) Sewer Extension

The Town of Chatham seeks to extend sewers to serve portions of the Stage Harbor watershed. The sewer extension will allow the Town to continue implementing the approved Comprehensive Wastewater Management Plan (CWMP) and addressing nitrogen loading from septic systems by extending the wastewater collection system to serve properties within the watersheds impacting the Town's coastal estuaries.

Chatham

Loan Number	Total Loan Forgiveness	Total Loan Amount
CW-22-33	\$721,134	\$3,605,672

Chatham Mill Pond Pumping Station Upgrade 2022

The Town of Chatham seeks to upgrade the existing Mill Pond wastewater pumping station that is receiving increased wastewater flow from newly constructed sewer extensions and to provide future capacity for new sewer extensions. These sewer extensions, a component of Chatham's Comprehensive Wastewater Management Plan (CWMP), will allow the Town to continue implementing the Town's approved CWMP to achieve nitrogen TMDL compliance in the coastal estuaries including Stage Harbor.

Fairhaven

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-22-67, CWP-22-67-A	\$11,620,000	\$70,000,000

Wastewater Treatment Facility Upgrades Project

The Town of Fairhaven seeks essential upgrades to the WWTF to address stringent total nitrogen permit limits by 10/1/2026 and replace aging/obsolete infrastructure. Meeting the TN limit requires the upgrade of existing secondary treatment systems to a Modified Ludzak-Ettinger (MLE) format and the addition of a new tertiary denitrification filter system. The project includes numerous equipment, mechanical, and electrical upgrades.



Falmouth

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-22-59, CWP-22-59-A	\$7,284,796	\$31,265,218

Falmouth Wastewater Treatment Facility Teaticket Acapesket Sewer Service Area Improvements

The Town of Falmouth's project will upgrade the Wastewater Treatment Facility (WWTF) to address nitrogen impacts to the Great Pond and Green Pond Watersheds. The current secondary treatment process is undersized to treat the flows and loads of the next phase of wastewater collection system expansions. The facility upgrade has been evaluated to consider future expansion for the continued phasing of the Town's collection system expansion to address the TMDLs of the nitrogen impaired watersheds.

Nahant

Loan Number	Total Loan Forgiveness	Total Loan Amount
CW-22-46	\$799,214	\$7,992,142

Sewer Collection System Repair & Replacement 2022

The Town of Nahant seeks to upgrade the wastewater collection system to be more reliable, resilient, energy efficient, and cost-efficient. The sewer system repair and replacement work is required to prevent sanitary sewer overflows, reduce inflow/infiltration to the sewer system, and build a more reliable and resilient wastewater system for the Town. The proposed work includes: Lowlands Pump Station Upgrades, Willow Road Force Main Replacement, Lowlands Pump Station Force Main Causeway Section Replacement, and Gravity Sewer Collection System Repairs.

New Bedford

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-22-63, CWP-22-63-A	\$5,875,636	\$29,525,807

Pumping Station Improvements

The City of New Bedford's pumping station upgrades are for two pumping stations: Shawmut Avenue and Howland Street. These improvements are based on the City's January 2017 Long Term CSO Control and Integrated Capital Improvements Plan.



New Bedford

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-22-71, CWP-22-71-A	\$2,493,659	\$12,530,950

Wastewater Treatment Plant Improvements

The City of New Bedford seeks improvements to the wastewater treatment plant through four contracts: Contract 1 - Alkalinity Addition will provide a magnesium hydroxide storage building and feed system to improve the alkalinity at the City's WWTP. Contract 2 - Instrumentation and Controls will provide upgrades to the current supervisory control and data acquisition (SCADA) at the WWTP to better and more efficiently operate and control the facility. Contract 3 - Roof Repairs will provide replacement of the roof membranes of both the Headworks Building and Primary Air Handling Building. Contract 4 - Building Repairs will include repairs to existing building-related issues throughout the plant, such as patching leaks and upgrading equipment.

Oak Bluffs

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-22-32	\$4,316,000	\$26,000,000

Oak Bluffs Wastewater Treatment Facility Enhanced Nutrient Removal Upgrade Project

The Town of Oak Bluffs seeks Advanced Wastewater Treatment to upgrade the existing Oak Bluffs Wastewater Treatment Facility's biological nitrogen removal (BNR) treatment process to an enhanced nitrogen removal (ENR) process for the purpose of reducing the net effluent nitrogen discharged to the Lagoon Pond watershed (which has been issued a TMDL to total nitrogen). The upgrade is designed for an average flow of 0.25 MGD and a maximum month flow of 0.62 mgd.



Drinking Water Projects

Abington

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-22-23	\$2,787,716	\$7,297,686

Hannigan and Myers Avenue Water Treatment Plant PFAS Treatment

The Abington-Rockland Joint Water Works' project includes the construction of permanent PFAS treatment solutions at the Hannigan and Myers Avenue WTPs. Currently the ARJWW is depending on temporary PFAS treatment at both plants in the form of a retrofitted GAC pressure filter at Myers Avenue and injected PAC slurry in the raw water at Hannigan. Permanent solutions are needed by the Joint Water Works and required by the state. In addition to PFAS treatment, much needed plant upgrades are required which include a new filter building with redundancy to replace the single ABW filter at Hannigan WTP and capacity improvements at Myers Avenue including installation of a new clearwell, filter backwash pumps, finished water pumps and reactivation of Well No. 4 at Myers Avenue WTP.

Andover

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWLC-23-105	\$720,000	\$1,800,000

Lead Water Service Line Replacement

The Project will replace approximately 300 Lead Service Lines within the water distribution system. In April 2022 MassDEP issued ACO 00012844 which requires the Town investigate a minimum of 400 water service lines of unknown material per year and replace a minimum of 25 LSLs per year. Based on extrapolation of early data from the inspection program, an additional 156 service lines are expected to be found to be lead service line containing material. Between 154 existing LSLs in the Town's inventory and expected future LSLs of 156, 300 LSLs are estimated to be replaced.

Barnstable Fire District

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-22-41	\$2,206,756	\$6,983,405

Water Filtration Plant Construction – Wells 2 & 5

The Barnstable Fire District seeks to construct a water filtration plant to address PFAS concentrations in the drinking water. Wells 2 and 5 are located near the Barnstable Airport and the Barnstable Fire Training Academy. Well 2's highest recorded PFAS6 is 16.2 ppt; Well 5's highest recorded PFAS6 is 43.7 ppt. Should Well 2's pump fail, water from Well 5 would not be able to be pumped into the system due to excessive PFAS concentration. Construction of a GAC filtration plant at Wells 2 and 5 will address these concerns. Pretreatment will include Greensand Plus filters.



Boston Water & Sewer Commission

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWLC-22-50	\$1,879,555	\$4,698,888

Elimination of Lead Water Service Lines in Boston

The Boston Water and Sewer Commission seeks to eliminate lead water services in both the public way and private property. The Commission has an ongoing lead water service replacement program which was initiated in response to the exceedance of the lead action level in 2020.

New Bedford

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-22-46	\$3,980,000	\$10,000,000

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.

Rockland

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-22-67	\$2,787,716	\$7,297,686

Hannigan and Myers Avenue Water Treatment Plant PFAS Treatment

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Somerset

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-22-43-A	\$868,832	\$2,616,965

Booster Pump Station & High Service Area Rehabilitation

The Town of Somerset seeks the replacement of a booster pump station to re-establish the high service area in the Town's distribution system. The current booster pump station is no longer operable, requiring the distribution system to operate at one pressure zone. Replacement of the booster pump station will allow re-establishment of the high service zone, which will reduce the total dead water storage within the distribution system and lower water age. A TTHM removal system will also be added to the tanks within the low service area to address disinfection by-products exceedances.