



Introduction



MICHAEL ABBOTT, P.E., C.G.



Dear Reader:

The Drinking Water State Revolving Fund (DWSRF) continues to provide essential funding for drinking water infrastructure improvements in Maine. In 2019, the Maine CDC, Drinking Water Program (DWP) dedicated over \$24 million in loans and grants for construction projects at 14 public water systems serving 32 communities in Maine.

Since 1997, the DWSRF has invested more than \$337 million to support the drinking water industry in the continued effort to deliver safe drinking water to people in the State of Maine. These funds have been used to finance:

- Capital Improvement Programs (Infrastructure Projects) for drinking water utilities;
- DWSRF program administration;
- Technical Assistance to small systems throughout the State;
- Source Water Protection activities;
- Technical, Managerial and Financial Capacity Development;
- Emergency Preparedness; and
- Public Outreach and Education.

In 2019, concerns about emerging contaminants such as per- and polyfluoroalkyl substances (PFAS) and other contaminants continued to be in the forefront of nationwide conversations about drinking water. Staying ahead of these water quality challenges through updates to testing, treatment technology, and infrastructure is essential to ensure continued delivery of safe drinking water to the public.

Safe, reliable, and affordable drinking water is fundamental to the wellbeing and economic prosperity of communities across the State. DWSRF financing of construction projects provides significant cost savings to water ratepayers, including residential customers, small and large businesses, manufacturing facilities, and local and State government buildings. These savings allow ratepayers to invest money in other activities, enabling further growth of the economy.

The success of the DWSRF stems from a wide array of individuals and organizations. The funding support provided through Congress and the Maine Legislature make this affordable financing possible. The staff at the DWP and the Maine Municipal Bond Bank (MMBB) work closely with public water systems, consultants, and contractors. Everyone involved contributes to the overall success of the DWSRF Program. We are grateful for the efforts of all who make this work possible!

Yours for safe drinking water,

Michael Abbott, P.E., C.G.
Director, Maine CDC - Drinking Water Program

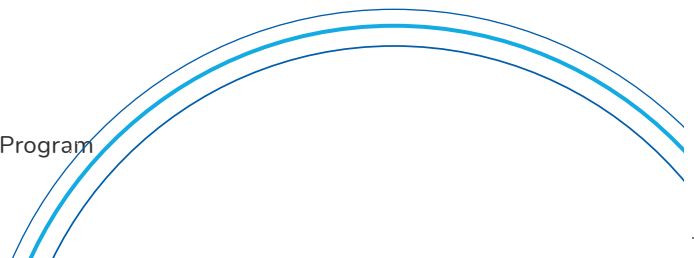


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About the DWSRF

The 1996 Amendments to the Safe Drinking Water Act (SDWA) included allocations for the Drinking Water State Revolving Fund (DWSRF). The DWSRF is a State operated program that provides loans and other financial assistance for drinking water improvement projects. The SDWA requires that states match 20 percent of federal grant dollars to fund the DWSRF. This means that every dollar invested by the State of Maine secures five federal dollars. For 2019, Maine invested \$2,200,800, allowing the State to access \$11,004,000 in federal funding. Combined with funds generated through repayment of prior year DWSRF loans, the Drinking Water Program offered approximately \$24 million in loans for drinking water improvement projects in Maine.

The DWSRF provides funding to public water systems throughout Maine to improve or replace water system pipes, treatment plants, storage tanks, and sources of water to ensure safe drinking water and provide essential public health protection. Funding for drinking water infrastructure improvement projects is available as low interest loans. Disadvantaged Community Water Systems may receive further assistance through principal forgiveness.

A portion of the DWSRF is used to fund non-construction projects that help improve and protect drinking water quality in Maine. These include Wellhead Protection Grants, Source Water Protection Grants, Capacity Development Grants, Very Small System Compliance Loans, System Consolidation Grants, and Land Acquisition Loans. These programs are designed to provide source water protection, technical assistance, system planning assistance, and land acquisition.

The Department of Health and Human Services (DHHS) and the Maine Municipal Bond Bank (MMBB) administer the DWSRF together. The Drinking Water Program is the Lead Administrator and is responsible for project management and technical support, as well as overseeing activities. The MMBB is the Financial Administrator and oversees the loan application process and tracks money to and from the fund.

Since 1997, the Maine DWSRF has provided over \$300 million to public water systems through low interest loans and grants for Capital Improvement Projects to comply with the SDWA.



2019 DWSRF Completed Construction Projects

WATER SYSTEM	TOWNS SERVED	SHORT PROJECT DESCRIPTION	2019 FUNDED AMOUNT
Baileyville Utilities District	Baileyville	Summit Street Water System Improvements & Emergency Pump Repairs	\$1,183,810
Brunswick Topsham Water District	Brunswick, Topsham	Water Treatment Plant Design	\$2,200,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Savage Street and West Street Water Main Replacement	\$850,000
MWC Biddeford-Saco	Biddeford, Saco, Old Orchard, Arundel	Water Treatment Plant Design	\$5,000,000
Newport Water District	Newport	Water System Improvements-Triangle Water Main Replacement	\$406,222
Searsport Water District	Searsport, Prospect	Rt. 1 Main Replacement (Phase 3) / Town Roads	\$1,829,460

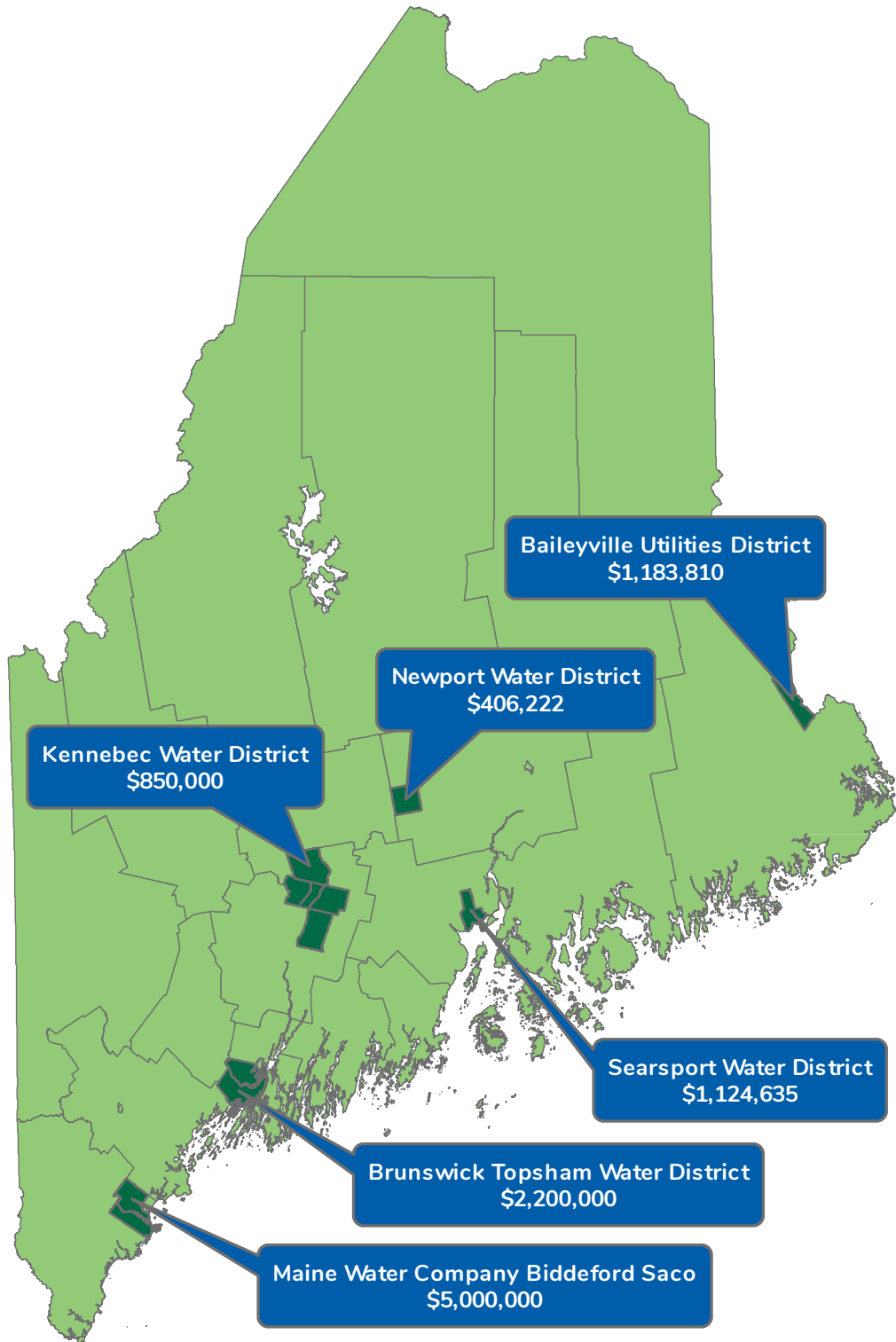


KEEP YOUR DRINKING WATER SAFE

Protect Your Source • Take Your Samples • Maintain Your Treatment • Inspect Your Pipes & Tanks

DWSRF
2019

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2019 DWSRF Non-Construction Projects

WELLHEAD PROTECTION GRANTS

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Sunrise Hill Estates	Berwick	\$6,000
Greater Augusta Utility District	Augusta, Chelsea, Manchester, Vassalboro, Winthrop	\$10,000
Grandeur Mobile Home Estates	Carmel	\$10,000
South Slope Estates Mobile Home Park	Carmel	\$10,000
Kennebunk, Kennebunkport, and Wells Water District	Kennebunk, Kennebunkport, Wells	\$10,000
Orono-Veazie Water District	Orono, Veazie	\$10,000
Hingham Heights	Glenburn	\$10,000
Homestead Estates LLC	Glenburn	\$10,000
Farmington Falls Standard Water District	Chesterville, Farmington, New Sharon	\$800
The Ecology School	Saco	\$10,000
South Berwick Water District	Berwick, South Berwick	\$6,000
Willow Brook Mobile Home Park	Levant	\$10,000

SOURCE WATER PROTECTION GRANTS

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Wilton Water Department	Wilton	\$10,000
Auburn Water District	Auburn	\$10,000
Boothbay Region Water District	Boothbay	\$10,000
Portland Water District	Cumberland, Cape Elizabeth, Falmouth, Gorham, Portland, Raymond, Scarborough, South Portland, Standish, Westbrook, Windham	\$5,000
Jackman Utility District	Jackman	\$10,000
Camp Susan L. Curtis	Stoneham	\$10,000
Bangor Water District	Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazie	\$5,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	\$10,000
Brewer Water Department	Brewer, Clifton, Eddington, Holden, Orrington	\$6,000
York Water District	York	\$10,000

VERY SMALL SYSTEM COMPLIANCE LOANS

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT	GRANT AMOUNT
Canton Point Mobile Home Park	Canton	Inadequate Water Source	\$60,000 in loan funds
Pine Village Mobile Home Park	Presque Isle	Excessive Manganese	\$50,000 in loan funds
Togus Pond Mobile Home Park	Augusta	Radon exceedance	\$50,000 in loan funds

CAPACITY DEVELOPMENT GRANTS

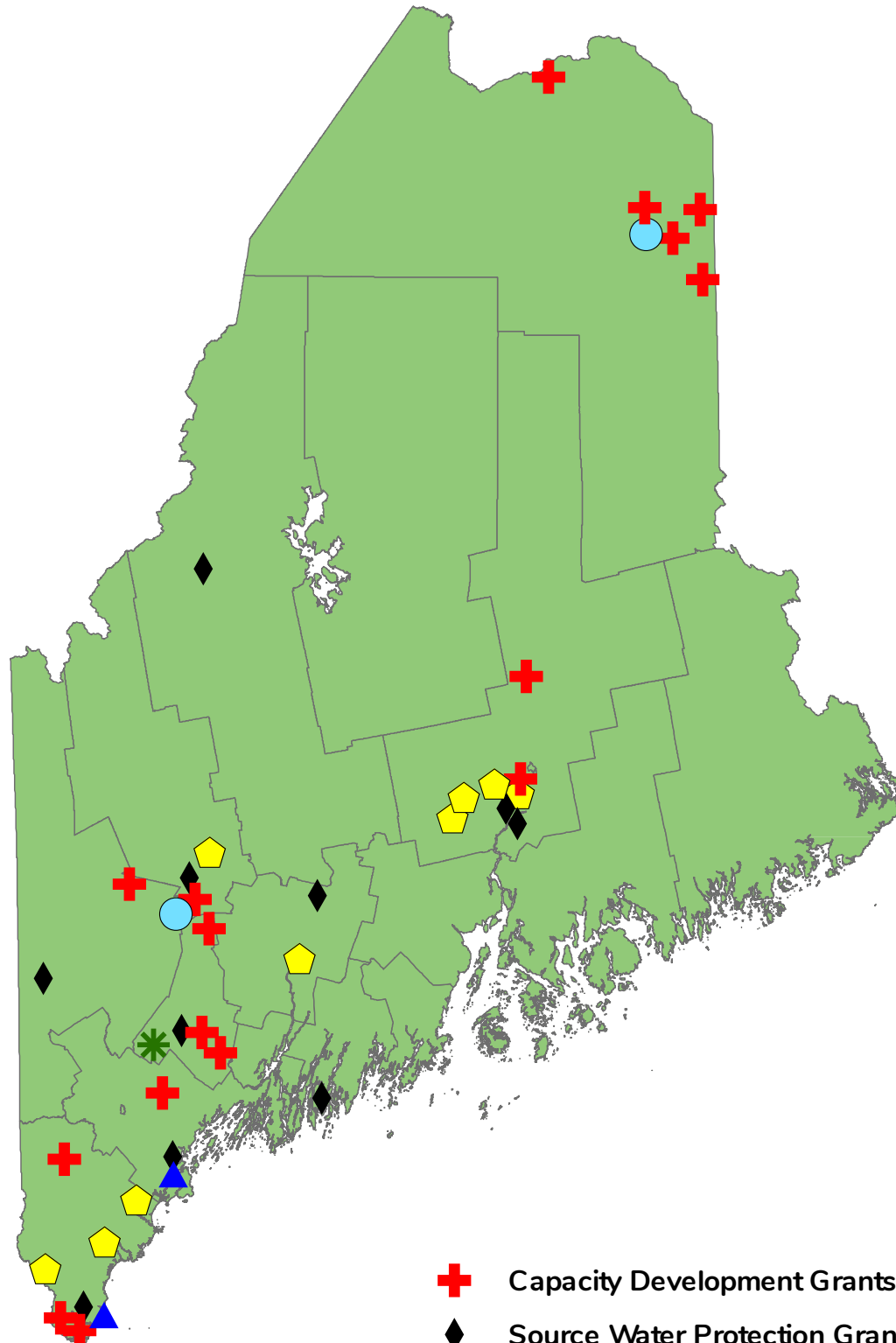
PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Auburn Water District	Auburn	\$15,000
Fort Fairfield Utilities District	Fort Fairfield	\$15,000
Fort Kent Water and Wastewater Department	Fort Kent	\$15,000
Gray Water District	Gray	\$5,000
Howland Water Department	Howland	\$7,500
Jay Village Water District	Jay	\$7,500
Kittery Water District	Kittery, Eliot, York	\$15,000
Limerick Water District	Limerick	\$10,000
Lisbon Water Department	Lisbon	\$15,000
Livermore Falls Water District	Livermore Falls	\$5,000
Mars Hill and Blaine Water Company	Mars Hill	\$15,000
Mexico Water District	Mexico	\$7,500
North Jay Water District	Jay	\$7,500
Old Town Water District	Old Town, Orono	\$15,000
Presque Isle Utilities District	Presque Isle	\$15,000
Washburn Water & Sewer District	Washburn	\$5,000
York Water District	York	\$8,500







LAND ACQUISITION LOANS

PUBLIC WATER SYSTEM	TOWNS SERVED	ACRES PURCHASED & PROTECTED	GRANT AMOUNT
Portland Water District	Cumberland, Cape Elizabeth, Falmouth, Gorham, Portland, Raymond, Scarborough, South Portland, Standish, Westbrook, Windham	1,417	\$345,000
York Water District	York	29.18	\$125,261

WATER SYSTEM CONSOLIDATION GRANTS

PUBLIC WATER SYSTEM	TOWNS SERVED	PUBLIC WATER SYSTEM CONNECTION	COMPLIANCE ISSUE	GRANT AMOUNT
Northern Spring Mobile Home Park	Poland	Mechanic Falls Water District	Uranium Exceedance	\$100,000



-  Capacity Development Grants
-  Source Water Protection Grants
-  Very Small System Compliance Loans
-  Wellhead Protection Grants
-  Water System Consolidation Grants
-  Land Acquisition Loans



FY 2021 DWSRF Funding Gap

DWSRF Over the Years

The DWSRF will continue to play a critical role in Maine's future by supporting the provision of safe drinking water for Maine consumers. Repayments from past DWSRF loans are currently returning over \$10.6 million per year, going on to provide loans for new projects. With the "revolving" nature of the DWSRF, that amount will continue to increase as the DWSRF loan pool continues to grow.

In 2020, new DWSRF federal allocations combined with State match funds and repayment funds will allow \$22 million for new drinking water infrastructure projects. Although this is an impressive sum, it does not address increasing funding needs to update and replace aging drinking water infrastructure in the State of Maine.

Twenty-eight (28) DWSRF applications, representing \$45.65 million in drinking water infrastructure improvements, were submitted for the 2020 DWSRF funding cycle. Unfortunately, available DWSRF project funds total approximately \$22 million, which will only provide financing assistance for about 48% of the requests.

This funding gap of \$23.6 million is only a part of the challenge for properly maintaining public water system infrastructure. The current aging infrastructure replacement rate is inadequate. Funding levels below demand levels is only one factor in the inadequate infrastructure replacement rate. Many water systems, to minimize rate increases on customers, are only replacing the most critical needs. Consequently, the true funding gap is much larger than is currently suggested by project requests. Local leaders will increasingly need to make difficult choices to ensure water systems remain viable into the future.

The maintenance and improvement of Maine's infrastructure is vital to our economy, health, safety, security and to the environment.



**\$23.6 MILLION
FUNDING GAP FOR
SAFE DRINKING WATER**

Since 1997, the DWSRF has provided over \$300 million to public water systems through low interest loans and grants. Loan interest rates have averaged 0.79% and have been combined with a total of approximately \$63 million in subsidies. Maine has contributed approximately \$45 million in state match, to access over \$224 million in federal grants. Many communities have used these funds to address their infrastructure needs. In the 21 years since the DWSRF Program began, the following 15 utilities have utilized over half of the available construction funds revitalizing the aging infrastructure in their systems:

SINCE 1997, THE DWSRF HAS PROVIDED OVER \$300 MILLION TO PUBLIC WATER SYSTEMS THROUGH LOW INTEREST LOANS AND GRANTS.

BANGOR WATER DISTRICT \$24,880,104	MADAWASKA WATER DISTRICT \$7,258,802
PORTLAND WATER DISTRICT \$19,802,818	SEARSPORT WATER DISTRICT \$7,101,502
PASSAMOQUODDY WATER DISTRICT \$14,890,145	CALAIS WATER DEPARTMENT \$6,803,564
BATH WATER DISTRICT \$13,251,102	GARDINER WATER DISTRICT \$6,136,060
KENNEBUNK, KENNEBUNKPORT, AND WELLS WATER DISTRICT \$11,799,540	BIDDEFORD SACO DIVISION - MAINE WATER COMPANY 5,898,670
AUBURN WATER DISTRICT \$10,778,900	BREWER WATER DEPARTMENT \$5,874,140
PRESQUE ISLE UTILITIES DISTRICT \$10,480,914	OLD TOWN WATER DISTRICT \$5,491,317
BRUNSWICK TOPSHAM WATER DISTRICT \$8,582,600	

The DWP's DWSRF Project Engineers

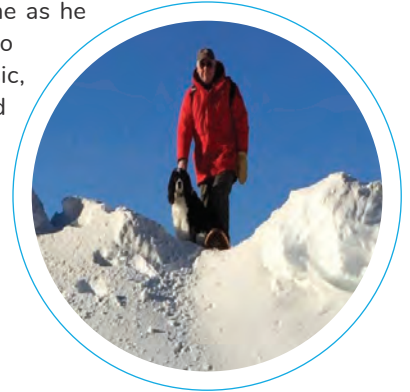


McKenzie Parker, P.E.

Originally from Augusta, McKenzie attended the University of Maine in Orono where she graduated with a bachelor's degree in Mechanical Engineering in 2011. After interning at the USGS Water Science Center, McKenzie accepted a position with the Drinking Water Program in 2012 as a community field inspector for Southern Maine. Since then, she has obtained her Professional Engineer license and been reassigned to the DWP's engineering group, where her primary duties include reviewing water system change applications and serving as a project manager for DWSRF projects in the southern half of the state. "My favorite part about working at the DWP is that I am consistently exposed to a wide variety of projects. I could be working on a river crossing on Monday, a million-gallon standpipe on Tuesday, and a water softener for a mom-and-pop restaurant the day after that. It's exciting to have had a hand in so many different projects that all share the same important goal: providing safe, reliable drinking water to the people of Maine." McKenzie currently lives in Westbrook with her husband, Chris, and their adored labradoodle, Calvin. In her free time, she enjoys traveling, crafting, and exploring the mountains and coasts of her beautiful home state.

Larry Girvan, P.E.

Larry grew up in a large family on a small farm in rural New Brunswick, Canada and emigrated to the United States in 1986. Larry has worked in the construction and engineering industry since 1977. Over the years he has served as a surveyor crew chief, a construction superintendent, an owner's construction inspector, a right-of-way agent, a plant engineer for a utility company, and a partner in an engineering firm. In 2000, he joined the Drinking Water Program as an engineer. Larry holds an engineering degree from the University of Maine, Orono and is a Maine licensed professional engineer. When he is not working, Larry enjoys spending as much time as he can with family. He also likes to cook, play music, travel, golf, and spend time at his cabin in Canada. Larry currently resides in the County with his wife, Andrea and their dog, Cassie.



THE DRINKING WATER PROGRAM'S DWSRF PROJECT ENGINEERS WORK TO ENSURE THAT MAINE'S PUBLIC WATER SYSTEMS GET THE HELP THEY NEED ON THEIR CONSTRUCTION PROJECTS – FROM START TO FINISH.





Construction Projects

KENNEBEC WATER DISTRICT

TOWNS SERVED: Fairfield, Oakland, Vassalboro, Waterville, Winslow

DWSRF FUNDED AMOUNT: \$850,000

ENGINEER: Kennebec Water District Staff Engineers

CONTRACTOR: Nitram Excavation & General Cont., Inc

This project consisted of replacing approximately 3,200-feet of water main and appurtenances in Savage Street and West Street located in Fairfield.

ROGER CROUSE, P.E.
General Manager
Kennebec Water
District

"This project replaced a 12-inch 1905 water main that is a critical leg in our distribution system. The 1905 water main has had numerous significant breaks which have disrupted

water service, washed away sections of the road and damaged private property. Replacing this water main will reduce costs and protect public health and safety. Because of the 25 percent principal forgiveness and the one percent interest loan, Kennebec Water District ratepayers saved over \$250,000 using the DWSRF. This significant savings enables Kennebec Water District to keep rates reasonable while continuing to replace aging infrastructure. The staff at the Maine CDC Drinking Water Program were a great resource on this project. The knowledgeable and supportive staff helped to us navigate the complexities of the federal funding which made the overall project more successful."



NEWPORT WATER DISTRICT

TOWNS SERVED: Newport

DWSRF FUNDED AMOUNT: \$406,222

ENGINEER: Dirigo Engineering

CONTRACTOR: Clarks Construction

This project replaced approximately 1,100 feet of antiquated, undersized, and poorly configured water mains along Route 2 at the triangle. Upgraded piping will fix operational challenges as well as speed up response to breaks and leaks. The project connected all services properly, added hydrants, and upgraded piping through a primary supply area, reducing crossings of major roadways in the area.



JAMES LORD, P.E.
Dirigo Engineering

Without the Drinking Water State Revolving Loan Fund, the Newport Water District would not have been able to complete the Triangle Water Main Project. This was an important project that helped the District eliminate old piping and an old abandoned pump vault. In addition, they were able to install new properly sized pipe, in a location that best supports the area and protects operators during maintenance. They were able to greatly improve the valve configuration in the area and greatly improve operational control. This is a heavy traffic area and this area has experienced significant growth over the last two decades. The DWSRF programs allows for this responsible approach to system operations, maintenance, and upgrading.





MAINE WATER COMPANY BIDDEFORD SACO DIVISION

TOWNS SERVED: Biddeford, Saco, Old Orchard, Arundel

DWSRF FUNDED AMOUNT: \$5,000,000

ENGINEER: Hazen & Sawyer

This project consisted of funding the design work for a new raw water intake and pump station on the Saco River and a 34,100-square-foot water treatment facility capable of treating 12-million gallons of water per day by means of conventional filtration. Additional work includes installation of a 2,400-foot 36-inch transmission main, site work and access drives, waste wash water storage tanks, and residual drying beds.



PHIL BILODEAU, P.E., ENV SP

Project Manager

Saco River

Treatment Facility

“This facility has served customers well for more than 135 years and, remarkably, continues to produce water that meets... federal and state

standards. A significant water treatment facility upgrade is long overdue, and necessary to ensure continued safe and reliable water service to customers. The new Saco River Water Treatment Facility (SRWTF) replaces the existing water treatment facility on South Street in Biddeford. The new facility is sized with the same maximum day capacity of the existing facility at 12 MGD but is designed to current standards that provide important redundancies, process control automation, structural integrity and health and safety features that will ensure the reliability of the facility. Most importantly, the facility is located out of the floodplain of the Saco River to protect against flood risk both now and in future years in the face of climate change. With a design cost approaching \$5.2 million the ME Drinking Water SRF will serve the dual goals of minimizing rate shock to customers and providing the Company a reasonable means of recovering its investment.”

BAILEYVILLE UTILITIES DISTRICT

TOWNS SERVED: Baileyville

DWSRF FUNDED AMOUNT: \$1,183,810

ENGINEER: Oliver Associated Inc.

CONTRACTOR: T. Buck

The Baileyville Utilities District secured 2019 DWSRF funding for emergency pump repairs to Water Pump House No.1 and to enter phase three of a three-year plan to upgrade the water system. This project upgraded problematic, undersized old cast iron waterlines which was completed in conjunction with the Town’s sewer project on Summit Street. This project included relocating waterlines around sewer manholes and abandoning old cross-country transmission piping from old standpipe to ensure water lines cannot be shut off.



SEARSPORT WATER DISTRICT

TOWNS SERVED: Searsport, Prospect
DWSRF FUNDED AMOUNT: \$1,829,460
ENGINEER: A.E. Hodsdon Consulting Engineers
CONTRACTOR: Ranger Contracting /
Lou Silver Construction Co.

The project consisted of replacing 4,100-feet of 100+ year old water main with 12-inch cement lined ductile iron main on Route 1 from Savage Rd. to Prospect St. and from Navy St. to Station Ave and replacing 3,300-feet of asbestos cement water main with new 8-inch cement lined on Knox Brothers Avenue, Church Street, Mosman Street, and Howard Street, all within Searsport.



MAINE WATER COMPANY SKOWHEGAN DIVISION

TOWNS SERVED: Skowhegan
DWSRF FUNDED AMOUNT: \$1,686,700
ENGINEER: Wright-Pierce
CONTRACTOR: Nitram Excavation & General Cont., Inc.
/DN Tanks

The Maine Water Company Skowhegan Division finished their 2018 DWSRF project to install 3,200 feet of 12-inch DI water main to connect the existing distribution system on Route 201 to the new tank site on Dave View Drive. The project also consisted of the construction of a 1.08 M-Gal pre-stressed concrete storage tank.





Projects From Prior Years Completed in 2019

MADAWASKA WATER DISTRICT

TOWNS SERVED: Madawaska

DWSRF FUNDED AMOUNT: \$1,511,162

ENGINEER: Woodard & Curran

CONTRACTOR: MCGILLAN INC.

Beginning in 2017, this project replaced approximately 4,600 feet of 50 to 80-year-old water mains prone to higher than average break rates and containing lead joints. This project upgraded the mains with modern materials that are more resistant to breakage and do not pose any health hazards to the community.

SOUTHWEST HARBOR WATER DISTRICT

TOWNS SERVED: Southwest Harbor

DWSRF FUNDED AMOUNT: \$549,659

ENGINEER: Tata & Howard

CONTRACTOR: APEX

This project upgraded the existing intake pump station, Long Pond Pump Station. The upgrade included installation of new raw, water pumps, piping, VFDs and rehabilitation of the pump station structure, while utilizing existing CMU walls and foundations.



DON CHASSE
Superintendent

“The Madawaska Water District through its partnership with the Drinking Water Program and utilizing DWSRF funds for this project was able to replace old water main lines as well as service lines on streets that the Town of Madawaska was replacing old sewer lines. By combining the sewer and water projects together the District has saved many thousands of dollars compared to doing this on our own. Without DWSRF funding the District would not have been in a position to do what was done.”

MILO WATER DISTRICT

TOWNS SERVED: Milo

DWSRF FUNDED AMOUNT: \$932,281

ENGINEER: Dirigo Engineering

CONTRACTOR: Barney Silver

In 2018, the Milo Water District was granted funding to install a new river crossing and water mains in the vicinity of the crossing to abandon three dilapidated crossings. The existing crossing at Main Street has been in service for over 100 years.



ALFRED WATER DISTRICT

TOWNS SERVED: Alfred

DWSRF FUNDED AMOUNT: \$852,000

ENGINEER: Dirigo Engineering

CONTRACTOR: Foglio, Inc.

The Alfred Water District finished an important water main project utilizing the DWSRF. The District replaced approximately 4,800 combined feet of undersized and rusted water mains on Kennebunk Road, School Street, and Mouse Lane in Alfred. These replacements will improve water quality and flow for customers.



DWSRF
2019

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KITTERY WATER DISTRICT

TOWNS SERVED: Kittery

DWSRF FUNDED AMOUNT: \$2,644,000

ENGINEER: Wright-Pierce

CONTRACTOR: Penta Corporation

The Kittery Water District completed a DWSRF-funded project of extensive upgrades at the Boulter Pond Treatment Plant. Upgrades included the replacement of two automatic traveling bridge continuous backwash systems, porous plate underdrain system, sand filter media, flocculation equipment components, and upgrades to the lime feed system.



MIKE ROGERS
Superintendent
Kittery Water District

“Our customers benefited from this product by the District being able to make upgrades to our Water Filtration Plant without raising the rates.

The low interest rate helped out very much in addition to the forgiveness money! This project has increased our water quality within the Filtration Plant with state-of-the-art and reliable equipment. Reliable equipment reduces our down time and decreases our maintenance expenses.”

DWSRF
2019

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SOUTH BERWICK WATER DISTRICT

TOWNS SERVED: South Berwick

DWSRF FUNDED AMOUNT: \$152,308

ENGINEER: N.M. Curtis Earthworks

CONTRACTOR: Civil Consultants

The South Berwick Water District successfully completed its 2018 DWSRF project to replace approximately 840 feet of 6-inch asbestos cement water main with 8-inch cement lined ductile iron water main on Pleasant Street in South Berwick.

MECHANIC FALLS WATER DEPARTMENT

TOWNS SERVED: Mechanic Falls

DWSRF FUNDED AMOUNT: \$100,000

ENGINEER: Pine Tree Engineering

CONTRACTOR: Cross Excavation

2018 DWSRF funding assisted Mechanic Falls Water Department with the installation of 2,300 feet of water main and a 30,800-gallon storage tank which resolved a uranium exceedance at a nearby Mobile Home Community. The water main connected town water from the Poland Corner Road to Northern Springs Park.



STEVE FRENCH
Superintendent
Mechanic
Falls Water
Department

“Without the DWSRF funding, the project was cost prohibitive to do with our own funds. This project got our pipe across a stream ... providing them (Northern Spring Park) with domestic water.”



WINTERPORT WATER AND SEWER DISTRICT

TOWNS SERVED: Winterport

DWSRF FUNDED AMOUNT: \$1,350,000

ENGINEER: Olver Associates Inc.

CONTRACTOR: SE MacMillian Company / DN Tanks

DWSRF funding supported the Winterport Water and Sewer District's project to construct a new potable concrete storage tank which was finally completed in 2019. Along with construction of the new 714,000-gallon water tank, the old existing water tank was demolished and the District was able to make major upgrades to their existing SCADA system.



BRUNSWICK-TOPSHAM WATER DISTRICT

TOWNS SERVED: Brunswick, Topsham

DWSRF FUNDED AMOUNT: \$2,200,000

ENGINEER: CDM Smith

This project consisted of funding the design work for a new water treatment facility to replace the existing facility, Jackson Station, located in Topsham. The major treatment processes for the new facility will include greensand filtration with potassium permanganate regeneration for iron and manganese removal, ion exchange for TOC/DBP removal, and manganese contactors for additional low-level manganese removal.



HALLOWELL WATER DISTRICT

TOWNS SERVED: Hallowell

DWSRF FUNDED AMOUNT: \$833,250

ENGINEER: A.E. Hodsdon Consulting Engineers

CONTRACTOR: Ranger Contracting/Marcel A. Payeur Inc.

In 2019, the Hallowell Water District completed its project to improve the capacity and reliability of the Hallowell and Gardiner high service area. The project consisted of rehabilitating the existing water storage tank. Water tank repairs comprised of pit welding and fielding, painting of the tank exterior, replacing the tank vent, rescreening and reorienting the overflow to open downwards, replacing the second manway, and bringing the roof ladder up to meet OSHA standards.





DWSRF Performance Measures

Percentage of Project Applications Funded

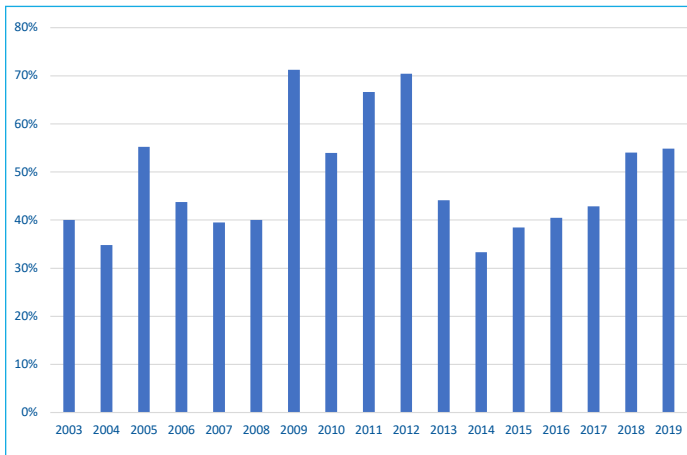


Figure 1

Public water system request to fund projects continue to exceed available money through the DWSRF, highlighting the ongoing and continued need for water systems to make improvements to their infrastructure.

DWSRF Loan Forgiveness

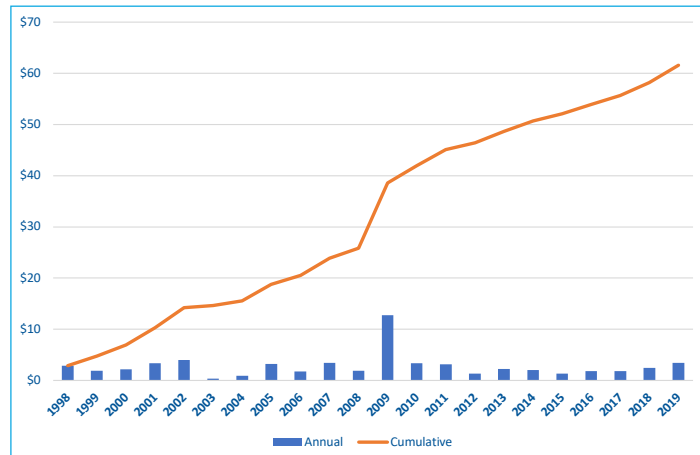


Figure 2

Economically disadvantaged water systems may have a portion of the loan principal forgiven if a water system's existing rates exceed a "water rate goal" based on the Median Household Income of the community. The year 2009 is an outlier because of the requirement of the American Recovery and Reinvestment Act that each protect receive at least 30% "principal forgiveness".

DWSRF Loan Commitments

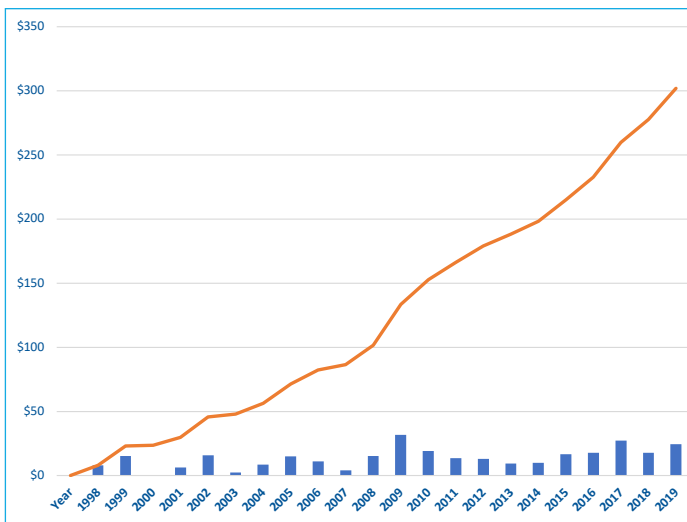


Figure 3

Since 1997, the DWSRF has provided more than \$300 million in funding to over 380 infrastructure improvement projects at Maine's public water systems.

DWSRF Loan Repayments

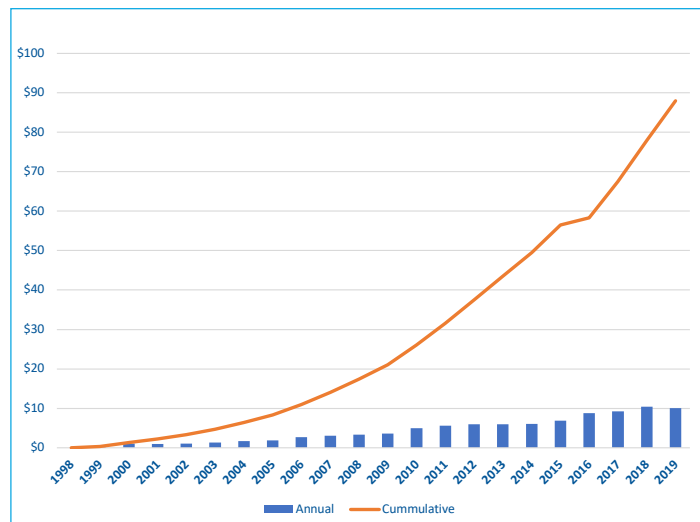


Figure 4

The DWSRF annual repayment stream is currently about \$10.6 million per year and will continue to increase each year.

From source to tap the DWSRF helps water systems deliver safe water

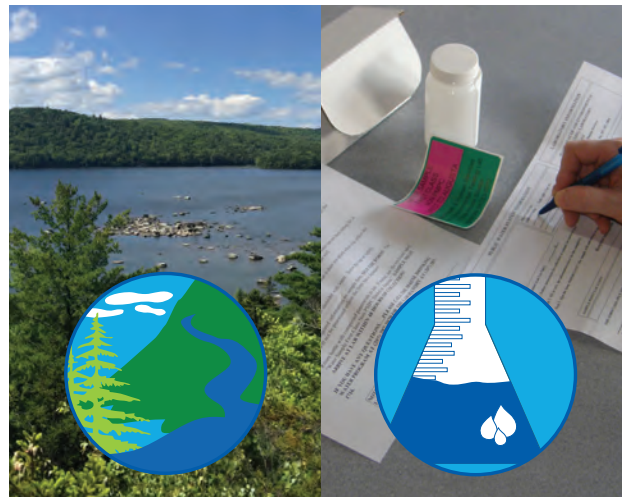


Core Message

The Drinking Water Program’s core message revolves around the belief that water systems should continually work to identify, reduce, and eliminate risks and vulnerabilities to ensure the provision of safe drinking water. The DWSRF plays an integral role in carrying out the DWP’s core message, as it enables public water systems to make improvements to their system in each of these fundamental areas. As a result, investments made by public water systems through the DWSRF support their continued ability to provide safe drinking water.

Protect Your Source

The most important part of any public water system is their drinking water source. A high quality, well-protected source can provide cost-effective and safe drinking water. The DWSRF provides funding, both for the construction and development of new and backup drinking water sources and for source protection projects, including purchasing land integral for drinking water protection.



Take Your Samples

Not only is drinking water sampling a requirement of all public water systems, it also provides the assurance that water is safe to drink. The DWSRF provides funding for water system grants, technical assistance providers, and operator training to assist water systems in developing and implementing plans for sample collection, data management, and reporting.

Inspect Your Pipes and Tanks

Storage tanks and a network of piping (also known as a distribution system) are an important part of a public water system’s ability to provide safe, clean water to consumers. If not regularly inspected and properly maintained, pipes and tanks can introduce contaminants or result in pressure too low to deliver water to each tap. The number of funding requests to the DWSRF for storage tank and water main rehabilitation or replacement projects is growing. This trend is expected to continue, as public water systems continue efforts with maintaining aging water storage infrastructure.



Maintain Your Treatment

Treatment systems are an important part of delivering safe drinking water for many public water systems throughout the State. The DWSRF enables public water systems, large and small, to invest in the proper treatment to remove, reduce, or inactivate contaminants from their drinking water systems.



Source Water Protection Grants

The Source Water Protection Grant Program awards grants to community and non-profit, non-community public water systems for projects that will help to protect their surface water source from contamination. Specifically, grants are awarded for projects

that demonstrate a commitment to the ongoing protection of a drinking water source. Grants are awarded up to \$5,000 per project. A few grants of \$10,000 may be available depending on the scope of the project.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Wilton Water Department	Wilton	Implementation of source water protection activities	\$10,000
Auburn Water District	Auburn	Install a flowmeter and conduct drone flyover	\$10,000
Boothbay Region Water District	Boothbay	Remediate nonpoint source pollution, gather information on non-point source pollution, raise community awareness of watershed issues, and improve local zoning ordinances	\$10,000
Portland Water District	Cumberland, Cape Elizabeth, Falmouth, Gorham, Portland, Raymond, Scarborough, South Portland, Standish, Westbrook, Windham	Stabilize erosion prone areas	\$5,000
Jackman Utility District	Jackman	Relocate boat launch	\$10,000
Camp Susan L. Curtis	Stoneham	Reduce erosion to the lake and develop a Watershed Protection Plan	\$10,000
Bangor Water District	Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazie	Install security cameras around source	\$5,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Repair roads in watershed to decrease erosion	\$10,000
Brewer Water Department	Brewer, Clifton, Eddington, Holden, Orrington	Install security cameras at treatment plant and pump station	\$6,000
York Water District	York	Trail upgrades to decrease erosion in the watershed	\$10,000

Finished projects of the Auburn Water District (left), Kennebec Water District (center), and York Water District (right). Each public water system utilized \$10,000 source water protection grant funds in order to complete their projects in 2019.



Wellhead Protection Grants



The Wellhead Protection Grant Program awards grants to community and non-profit, non-community public water systems for projects that will help to protect their groundwater source from contamination. Specifically, grants are awarded for projects

that demonstrate a commitment to the ongoing protection of a drinking water source. Grants are awarded up to \$5,000 per project. A few grants of \$10,000 may be available depending on the scope of the project.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Sunrise Hill Estates	Berwick	Convert oil heating system to propane	\$6,000.00
Greater Augusta Utility District	Augusta, Chelsea, Manchester, Vassalboro, Winthrop	Install access gate and perimeter fencing, reclamation efforts and tree plantings	\$10,000.00
Grandeur Mobile Home Estates	Carmel	Convert oil heating system to propane	\$10,000.00
South Slope Estates Mobile Home Park	Carmel	Convert oil heating system to propane	\$10,000.00
Willow Brook Mobile Home Park	Levant	Convert kerosene heating system to propane	\$10,000.00
Kennebunk, Kennebunkport, and Wells Water District	Kennebunk, Kennebunkport, Wells	Convert oil heating system to propane	\$10,000.00
Orono-Veazie Water District	Orono, Veazie	Install a camera-based surveillance system at the wellfield	\$10,000.00
Hingham Heights	Glenburn	Convert oil heating system to propane	\$10,000.00
Homestead Estates LLC	Glenburn	Convert oil heating system to propane	\$10,000.00
Farmington Falls Standard Water District	Chesterville, Farmington, New Sharon	Install jersey barriers to protect wells	\$800.00
The Ecology School	Saco	Create Wellhead Protection Plan, develop and implement drinking water education program, identify and remove potential sources of contamination from the source protection area	\$10,000.00
South Berwick Water District	Berwick, South Berwick	Install fencing and gate well sites	\$6,000.00

Water System Consolidation Grants

Water System Consolidation Grants provide partial funding to join two water systems. The public water system applying for consolidation must have a technical, managerial, or financial capacity issue that will be addressed by the consolidation with the more viable public water system. The more viable, receiving public water system but not show technical, managerial, or

financial capacity issues. Finally, the consolidation cannot result in system capacity issues. The Consolidation Grant funds up to 50 percent of the cost of the water system consolidation for for-profit facilities and up to 75 percent of the cost of a water system consolidation for not-for-profit facilities, up to a maximum of a \$100,000 reimbursement.

PUBLIC WATER SYSTEM	TOWNS SERVED	PWS CONNECTION	COMPLIANCE ISSUE	GRANT AMOUNT
Northern Spring Mobile Home Park	Poland	Mechanic Falls Water District	Uranium Exceedance	\$100,000



Capacity Development Grants

Capacity Development Grants aid public water systems for the preparation of documents that will assist them in the maintenance or enhancement of water quality, by identifying possible improvements in systems' technical, financial, and managerial

operations (capacity development). Water systems can receive grants for 50% of the document cost, up to a maximum grant amount of \$15,000.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Auburn Water District	Auburn	Contingency Plan for alum treatment	\$15,000
Fort Fairfield Utilities District	Fort Fairfield	Hydrogeological investigation for 2 new groundwater wells	\$15,000
Fort Kent Water and Wastewater Department	Fort Kent	Water System Assessment and Capital Improvement Plan	\$15,000
Gray Water District	Gray	Monitoring well for salt contamination	\$5,000
Howland Water Department	Howland	Comprehensive System Facilities Plan update	\$7,500
Jay Village Water District	Jay	Comprehensive System Facilities Plan	\$7,500
Kittery Water District	Kittery, Eliot, York	Master Plan update	\$15,000
Limerick Water District	Limerick	Comprehensive System Facilities Plan	\$10,000
Lisbon Water Department	Lisbon	Comprehensive System Facilities Plan	\$15,000
Livermore Falls Water District	Livermore Falls	Standard Operating Procedures	\$5,000
Mars Hill and Blaine Water Company	Mars Hill	Hydrogeological investigation for new well	\$15,000
Mexico Water District	Mexico	Comprehensive System Facilities Plan	\$7,500
North Jay Water District	Jay	Comprehensive System Facilities Plan	\$7,500
Old Town Water District	Old Town, Orono	Operations and maintenance manual for filtration plant and wellfields	\$15,000
Presque Isle Utilities District	Presque Isle	Hydrogeological investigation for new well	\$15,000
Washburn Water & Sewer District	Washburn	Water model	\$5,000
York Water District	York	Emergency Response Plan update	\$8,500

Very Small System Compliance Loan



The Very Small System Compliance Loan Program was established in 2010 for very small systems. Eligible systems include all community systems not regulated by the Public Utilities Commission with a population of 100 or less and all not-for-profit, non-transient, non-community water systems. Examples include mobile home parks, apartment buildings, nursing homes, and schools.

This loan program provides 100% principal forgiveness (up to \$50,000) for water treatment improvements required to achieve compliance with a current of future Safe Drinking Water Act

requirement, excluding the Revised Total Coliform Rule. Examples of eligible projects include but are not limited to: treatment systems to resolve compliance issues with lead, copper, radon, arsenic, or antimony levels.

To date, 35 public water systems have received funding and resolved compliance issues. Total project expense of \$531, 651 have improved water quality for 4,026 users, with an average cost of \$132 per user. Nine water treatment systems were installed for removal of arsenic, 16 for radon/uranium removal, eight for corrosion control to address lead and copper compliance.

PUBLIC WATER SYSTEM	TOWNS SERVED	COMPLIANCE ISSUE	GRANT AMOUNT
Canton Point Mobile Home Park	Canton	Inadequate Water Source	\$60,000
Pine Village Mobile Home Park	Presque Isle	Excessive Manganese	\$50,000

Land Acquisition Loans

The Land Acquisition Loan program provides low interest loans to community and non-profit non-community public water systems for the purchase or legal control of land in drinking water source protection areas. Land acquisition is a key component of safe and secure drinking water and the protection of public health. Shoreline and direct watershed land use and development have a major impact on the quality of water available to a water system and control of those land uses is an extremely cost-effective way of managing future water treatment cost.

The 1996 Amendments to the federal Safe Drinking Water Act stress the importance of preventing drinking water contamination through source water protection and water system management. In Source Water Protection: Best Management Practices and Other Measures for Protecting Drinking Water Supplies, the EPA

notes that “the best way to control activities within sensitive areas is to purchase land and/or development rights to that land.”

Land Acquisition Loans continue to be made available to any water system that is presented with the opportunity to purchase land integral to the protection of their drinking water system. Land acquisition loans have ranged from a purchase of 2.3 acres all the way up to nearly 1,200 acres.

In 2019, the Drinking Water Program updated the Land Acquisition Loan Program. To further encourage systems to invest in protecting their source of drinking water, low-interest loans under the LAL will now be eligible for 50% principal forgiveness up to \$50,000 for the purchase of land and/or conservation easement in a drinking water source protection area.

PUBLIC WATER SYSTEM	TOWNS SERVED	ACRES PURCHASED & PROTECTED	LOAN AMOUNT
Portland Water District	Cumberland, Cape Elizabeth, Falmouth, Gorham, Portland, Raymond, Scarborough, South Portland, Standish, Westbrook, Windham	1,417	\$345,000
York Water District	York	29.18	\$125,261



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KEEP YOUR DRINKING WATER SAFE

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