

# DWSRF 2017

DRINKING WATER STATE REVOLVING FUND

Working **Together**  
for  
**Safe Drinking Water**



Maine Center for  
Disease Control and Prevention

An Office of the  
Department of Health and Human Services

Paul R. LePage, Governor

Ricker Hamilton, Commissioner

## Introduction



MICHAEL PLAZIAK, C.G.

Dear Reader:

The Drinking Water State Revolving Fund (DWSRF) continues to play an essential role in the ongoing improvements of public water system infrastructure in Maine. In 2017, the DWSRF dedicated over \$21.5 million in loans and grants for construction projects at 22 public water systems serving 47 different communities in Maine. The continued growth of DWSRF funding highlights not only the success of the DWSRF but also the growing demand for affordable financing for public water system improvements.

The DWSRF has invested nearly \$250 million into the drinking water industry in the State of Maine over the past 21 years. The funds have been used to finance: capital improvement programs for drinking water utilities; DWSRF program administration; technical assistance to small systems throughout the State; source water protection activities; capacity development; emergency preparedness; and public outreach and education.

In 2017, concerns about continuing drought conditions and drinking water quality highlight the need for the Safe Drinking Water Act to protect public health. Maine is fortunate to have a relative abundance of clean, fresh water in its lakes, ponds, rivers, and groundwater wells. However, the infrastructure necessary to treat and deliver this water to consumers continues to age and is in vital need of replacement.

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 government entities. 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 of Congress and the Maine Legislature make this affordable financing possible. The staff at the Department of Health and Human Services Maine Center for Disease Control and Prevention, Drinking Water Program (DWP) and the Maine Municipal Bond Bank (MMBB) continue to perform exceptionally in their responsibilities. Public water systems, consultants, and contractors all contribute to the overall success. We are grateful for the efforts of all who make this work possible.

I hope you find this report informative and enjoyable.

Yours for safe drinking water,

A handwritten signature in black ink, appearing to read "Michael Plaziak".

Michael Plaziak, C.G.

Acting Director, Maine CDC Drinking Water Program



# Table of Contents

About the DWSRF <b>3</b>	Construction Projects at a Glance <b>4</b>	DWSRF Public Construction Funding Map <b>5</b>	Non-Construction Projects at a Glance <b>6</b>
DWSRF Public Non-Construction Funding Map <b>7</b>	Future of DWSRF New non-construction DWSRF initiatives for 2018 <b>8</b>	DWSRF Over the Years <b>9</b>	2017 Construction Projects <b>10</b>
Projects from Previous Years <b>16</b>	Drinking Water State Revolving Fund Performance Measures <b>17</b>	DWP Core Messages <b>18</b>	2017 DWSRF Non-Construction Projects <b>20</b>

## 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 2017, Maine invested \$1,648,200, allowing the State to access \$8,241,000 in federal funding. Combined with funds generated through repayment of prior year DWSRF loans, the Drinking Water Program was able to offer approximately \$21.5 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.

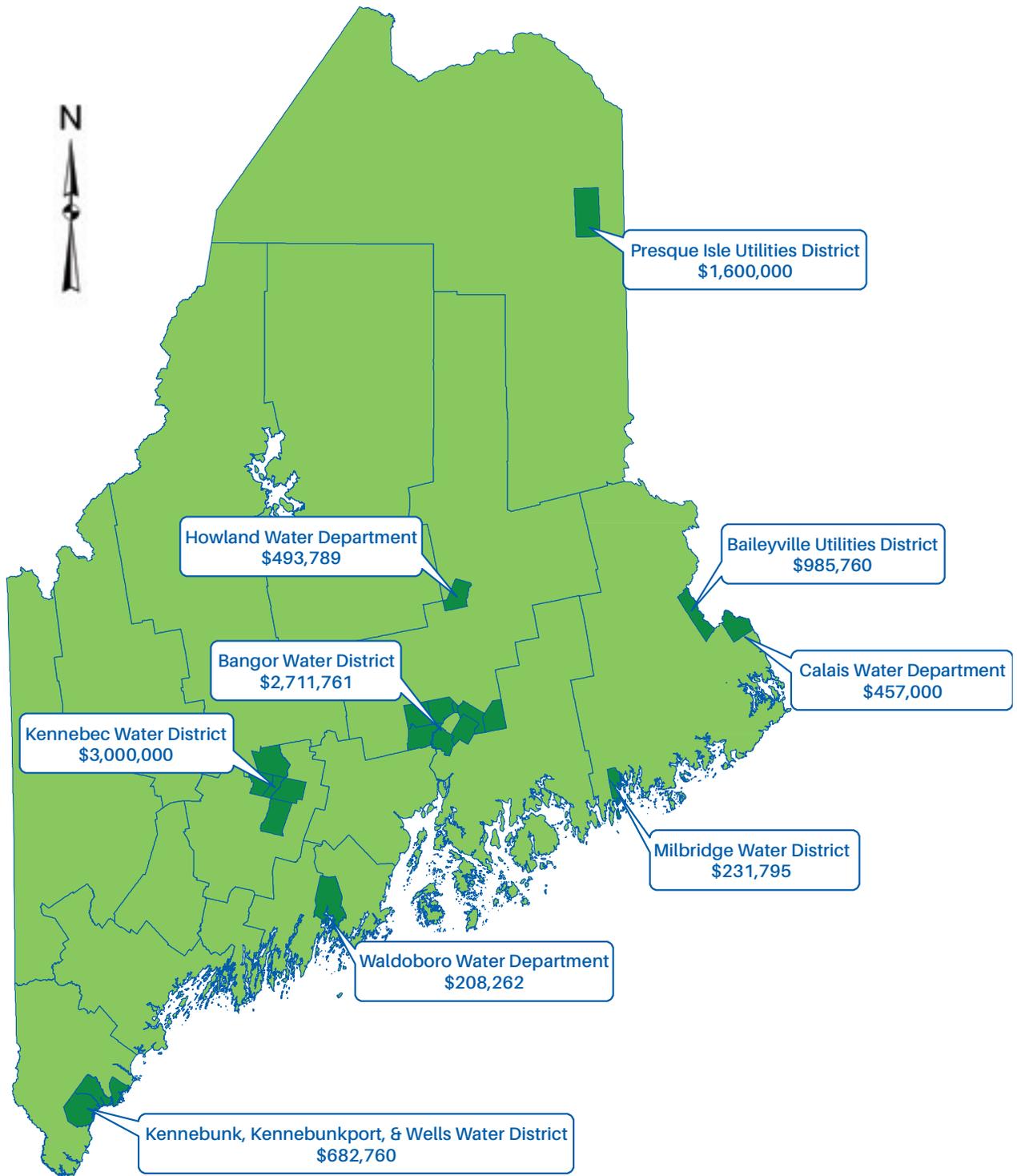
The Department of Health and Human Services (DHHS) and the Maine Municipal Bond Bank (MMBB) administer the DWSRF together. The Drinking Water Program is the Lead Administrator and is responsible for project management and technical support, as well as overseeing activities. The MMBB is the Financial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

Since 1997, the DWSRF has provided nearly \$281 million to public water systems through low interest loans and grants.

## DWSRF Projects

WATER SYSTEM	TOWNS SERVED	SHORT PROJECT DESCRIPTION	2017 FUNDED AMOUNT
Baileyville Utilities District	Baileyville	Water main replacement	\$985,760
Bangor Water District	Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazie	Water main replacement, treatment upgrades	\$2,711,761
Calais Water Department	Calais	Water main replacement	\$457,000
Howland Water Department	Howland	Water main replacement	\$493,789
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Pump station upgrade	\$3,000,000
Kennebunk, Kennebunkport, and Wells Water District	Arundel, Biddeford, Kennebunk, Kennebunkport, Ogunquit, Wells, York	Water main replacement, meter conversion	\$682,760
Milbridge Water District	Milbridge	Pumping/instrumentation	\$231,795
Presque Isle Utilities District	Presque Isle	Water main replacement	\$1,600,000
Waldoboro Water Department	Waldoboro	Water main replacement	\$208,262

# Public Water Systems Receiving 2017 DWSRF Construction Funding



0 10 20 40 60 80 Miles

## Public Water Systems Non-Construction Funding

### Source Water Protection Grants

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Anson and Madison Water District	Anson, Madison	\$10,000
Auburn Water District	Auburn, Lewiston, Poland	\$10,000
Berwick Water Department	Berwick	\$3,000
Boothbay Region Water District	Boothbay, Boothbay Harbor, East Boothbay	\$10,000
Ellsworth Water District	Ellsworth,	\$10,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	\$10,000
Newport Water District	Newport	\$10,000
Wilton Water District	Wilton	\$9,500
York Water District	York	\$10,000

### Capacity Development Grants

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Auburn Water District	Auburn, Lewiston, Poland	\$15,000
Bath Water District	Bath, Brunswick, West Bath, Wiscasset, Woolwich	\$10,000
Gardiner Water District	Gardiner, Randolph, Farmingdale	\$7,500
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	\$15,000
Kennebunk, Kennebunkport, and Wells Water District	Kennebunk, Kennebunkport, Wells	\$10,000
Old Town Water District	Old Town, Milford	\$15,000
Rumford Water District	Rumford	\$8,905
Southwest Harbor Utilities District	Southwest Harbor	\$15,000
Vinalhaven Water District	Vinalhaven	\$15,000
Yarmouth Water District	North Yarmouth, Yarmouth	\$15,000
York Water District	York	\$15,000

### Wellhead Protection Grants

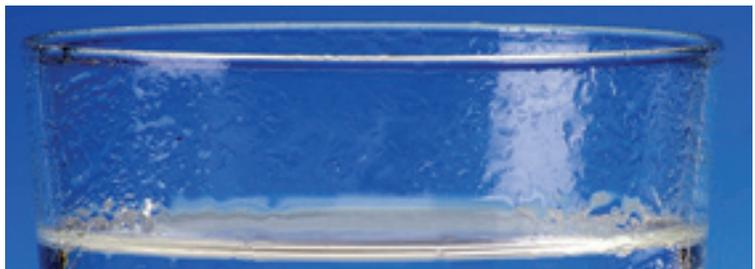
PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
Camp CaPella	Dedham	\$5,000
Cold Spring Water Company	Lamoine	\$10,000
Grandeur Mobile Home Estates	Carmel	\$6,400
Greater Augusta Utility District	Augusta, Chelsea, Manchester, Vassalboro, Winthrop	\$10,000
Hingham Heights Mobile Home Park	Glenburn	\$10,000
Homestead Estates Mobile Home Park	Glenburn	\$10,000
Lake Arrowhead Community	North Waterboro	\$5,000
Old Town Water District	Old Town, Milford	\$9,500
Scroggins Mobile Home Park	Corinth	\$6,200
South Slope Estates	Carmel	\$6,400
Spurwink Schools: Limerick, Casco, Cornville, and Brunswick	Brunswick, Carmel, Casco, Cornville, Limerick	\$600
Spurwink Schools: Chelsea	Chelsea	\$1,650
Willow Brook Mobile Home Park	Levant	\$10,000

### System Consolidation Grants

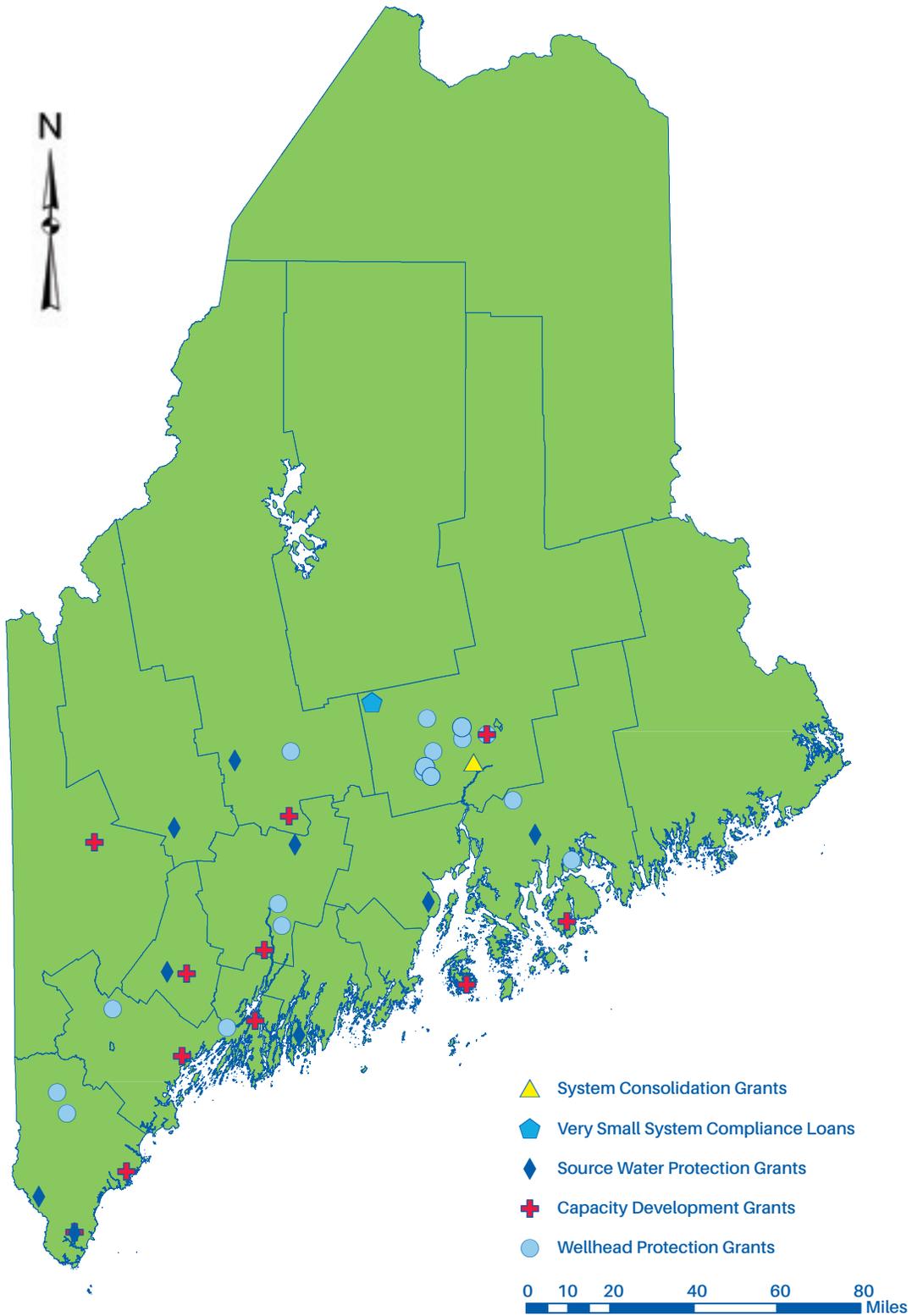
PUBLIC WATER SYSTEM	TOWNS SERVED	PUBLIC WATER SYSTEM CONNECTION TO:	REASON FOR CONSOLIDATION	GRANT AMOUNT
HT Associates - Hardy Orthodontics	Bangor	Bangor Water District	Bacteria	\$11,300

### Very Small System Compliance Loans

PUBLIC WATER SYSTEM	TOWNS SERVED	GRANT AMOUNT
MSAD 59 - Athens Elementary School	Dexter	\$50,000



# Public Water Systems Receiving 2017 DWSRF Non-Construction Funding



## Future of the DWSRF

Through funding assistance, the DWSRF will continue to play a critical role in the future by providing safe drinking water for Maine's citizens. Repayments from past DWSRF loans are currently returning about \$9.2 million per year, going on to provide loans for new projects. With the "revolving" nature of the DWSRF, that amount will continue to grow as the DWSRF loan pool continues to grow. In 2018, new DWSRF federal allocations combined with State match funds and repayment funds will allow \$20.7 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. The maintenance and improvement of Maine's infrastructure is vital to our economy, health, safety, security and to the environment.

Thirty-seven DWSRF applications, representing \$30 million of

drinking water infrastructure improvements, were submitted for the 2018 DWSRF funding cycle. Unfortunately, available DWSRF project funds total approximately \$20.7 million, which will only provide financing assistance for about 40 % of the requests.

This funding gap of almost \$10 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, in an effort to minimize rate increases on customers, are only replacing the most critical needs at this time. 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.

## New Non-Construction DWSRF Initiatives for 2018

In 2018, the Drinking Water Program, in partnership with the Maine Rural Water Association, has added several non-construction initiatives to improve the capacity of public water systems in Maine. These initiatives include the following:

- **Drinking Water System Bench Marking Database:** Development of standardized metrics to assess financial health, operational parameters, and asset information for a benchmarking database. The electronic database would collect and analyze public drinking water financial and operational information from public water systems regulated by the Public Utilities Commission, with the goal of helping water systems and the Drinking Water Program develop, track, and prioritize long term public drinking water infrastructure needs.
- **Cybersecurity Assessment:** Cybersecurity is an emerging threat in the drinking water industry. The rise in internet use, SCADA, remote process, and operational control technology in Maine's public water systems and the corresponding minimal cybersecurity that often accompanies use of these technologies, underscores the need for an assessment of the cybersecurity threat.

- **Financial Circuit Rider:** Developing and increasing the financial capacity is critical for many smaller public water systems. This project will develop and deliver a technical assistance program to target financial capacity building for community systems serving a population of fewer than 10,000 people. The Financial Circuit Rider (FCR) will provide technical assistance and training to build financial capacity in community water systems. Areas of work will include, but not be limited to: compliance, governance, accounting, asset management, human resources, grant/loans, operations, and outreach.
- **Sustainability Assessment of Micro Water Systems:** There are approximately 14 micro water systems that were created with assistance and funding from the Maine Drinking Water Program and Maine Department of Environmental Protection. In the past years, there have been increased requests from these systems related to assistance with rates and budgets. Now, there are concerns for the systems' sustainability and solvency. Very little is known about the condition of these micro systems' infrastructure or financial position. This project will conduct research, analyze data, and make recommendations for the long-term sustainability of six micro water systems in the State. The remaining systems will be evaluated in future years.

# DWSRF Over the Years

Since 1997, the DWSRF has provided over \$281 million to public water systems through low interest loans and grants. Loan interest rates have averaged 0.77% and have been combined with a total of over \$57 million in subsidies. Since 1997, Maine has provided \$42.1 million in State match, to

access over \$210 million in federal grants. Many communities have used these funds to address their infrastructure needs. Since the DWSRF began in 1997, the following 15 utilities have utilized approximately half of the available construction funds revitalizing the aging infrastructure in their systems:

**Bangor Water District**

\$19,687,634.22

**Portland Water District**

\$18,026,717.80

**Passamaquoddy Water District**

\$14,913,383.03

**Kennebunk, Kennebunkport,  
and Wells Water District**

\$11,581,879.00

**Auburn Water District**

\$10,778,900.00

**Presque Isle Water District**

\$10,552,065.51

**Bath Water District**

\$9,650,452.00

**Madawaska Water District**

\$7,258,802.49

**Calais Water Department**

\$6,894,881.00

**Brunswick-Topsham  
Water District**

\$6,382,600.00

**Gardiner Water District**

\$6,136,060.00

**Old Town Water District**

\$5,650,792.00

**Lewiston Water Department**

\$5,600,900.00

**Searsport Water District**

\$5,272,042.00

**Caribou Utilities District**

\$4,837,386.50



### BAILEYVILLE UTILITIES DISTRICT

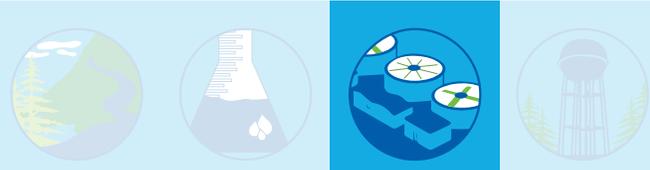
TOWNS SERVED: Baileyville

DWSRF FUNDED AMOUNT: \$985,760

ENGINEER: Olver Associates, Inc.

CONTRACTOR: T. Buck Construction

The Baileyville Utilities District secured 2017 DWSRF funds for water utility improvements. The project included upgrades to the old and problematic cast iron water lines, proper abandonment of unused water lines, relocation of water lines around sewer manholes, and improvements to the Town's waste water treatment plant service line. Project work encompassed sections of Hillside Street, Second Avenue, First Avenue, Spruce Street, Pine Street, Elm Street, Mill Street and Main Street in Baileyville.



# BANGOR WATER DISTRICT

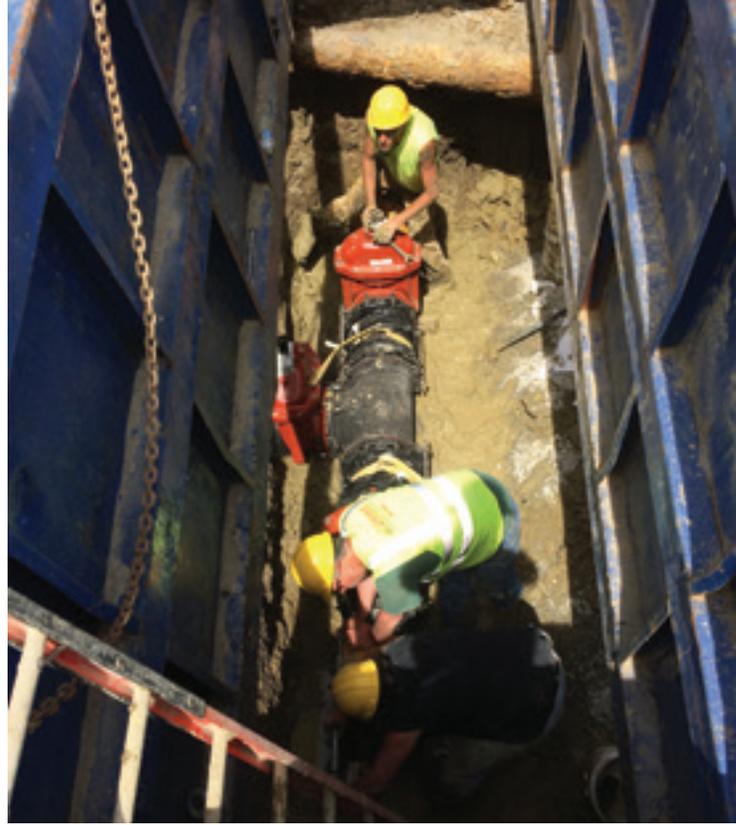
**TOWNS SERVED:** Bangor, Clifton, Eddington, Hampden, Hermon, Orrington, Veazie

**DWSRF FUNDED AMOUNT:** \$2,711,761

**ENGINEER:** Bangor Water District

**CONTRACTOR:** Gaidner Construction Enterprises, Inc. (Hammond Street and Maine Avenue), Eastwood Contractors Inc. (Broadway; French, State, and Exchange Streets; Butler Ozone Plant)

The Bangor Water District was the recipient of 2017 DWSRF funds for four projects. The first, a water main replacement on Broadway, was necessary to maintain chlorine residuals and control lead solubility. The Broadway replacement also addressed part of a long-range resiliency plan to provide water to Bangor through Brewer in an emergency. Additionally, aging water main was replaced on French, State, Exchange, and Hammond Streets and Maine Avenue as part of a street reconstruction project. Lastly, the District completed upgrades to the Butler Ozone Plant, including new side stream injection system, liquid oxygen storage tank, and ozone generators.



# CALAIS WATER DEPARTMENT

TOWNS SERVED: Calais

DWSRF FUNDED AMOUNT: \$457,000

ENGINEER: Olver Associates, Inc.

CONTRACTOR: Donovan Construction

The Calais Water Department was awarded 2017 DWSRF funds to replace 926 feet of circa 1886 water main on Manning Street. The Manning Street upgrade was considered a high priority project by the City in its Comprehensive Plan. This improvement will increase the reliability of service and water quality, as well as provide a backup line for the hospital.



# HOWLAND WATER DEPARTMENT

TOWNS SERVED: Howland

DWSRF FUNDED AMOUNT: \$493,789

ENGINEER: A.E. Hodsdon Engineers

CONTRACTOR: Maine Earth

The Howland Water Department utilized 2017 DWSRF funds to replace old, undersized water main on LaGrange Road and close a loop to provide redundancy for Terrio Street and Edinburg Road. The old water main was over 100 years old and subject to tuberculation which made it difficult to properly flush the mains. The Department also worked on improving shallow service lines that were subject to winter freezing. The project was completed in conjunction with a Maine Department of Transportation project to rebuild LaGrange Road. The project aims to improve water quality and enhance service reliability.



# KENNEBEC WATER DISTRICT

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

**DWSRF FUNDED AMOUNT:** \$3,000,000

**ENGINEER:** Wright-Pierce

**CONTRACTOR:** T. Buck Construction, Inc.

The Kennebec Water District received 2017 DWSRF funds to complete a pump station upgrade. The facility pumps nearly all treated water from the water treatment facility into the District's distribution system and is a critical component of the water supply system. Upgrades were needed as many of the previous parts were outdated and only two of the three pumps were operational. The project aimed to improve reliability, increase efficiency, and decrease operating costs.



"The project has progressed very well from the start. The major players we had to interact with along the way all provided excellent service, response, and product. Our customers are receiving a much more reliable facility that is expected to cost significantly less to operate than the previous pump system. This project has upgraded one of our most critical facilities, the primary pump station which acts as the distribution point to our customers. The project was essential."

**JEFF LACASSE, GENERAL MANAGER  
KENNEBEC WATER DISTRICT**



# PRESQUE ISLE UTILITIES DISTRICT

TOWNS SERVED: Presque Isle

DWSRF FUNDED AMOUNT: \$1,600,000

ENGINEER: Woodard and Curran

CONTRACTOR: Ed Pelletier and Sons Company

The Presque Isle Utilities District received 2017 DWSRF funds for their project to replace 3,300 feet of aging water main. The project aims to address hydraulic limitations and water quality issues. It will allow the District to more closely monitor the Skyway water storage tank. The Skyway tank has been a contributing source of water quality issues and monitoring will allow the District to evaluate whether to remove the tank from the distribution system. Overall, the project aims to advance system reliability, increase cost effective operations, and improve water quality.



"The SRF program supplies a simple, affordable source of funding for our ongoing pipe replacement projects. Presque Isle now has 17 active loans involving water infrastructure replacement. All but three loans were derived from the Drinking Water State Revolving Loan Fund. I can safely say that without this very affordable funding source, our current rates could be 30 percent higher just to pay interest costs. Congrats for another successful year for the DWSRF program."

**FRANK S. KEARNEY, SR. SUPERINTENDENT,  
PRESQUE ISLE UTILITIES DISTRICT**



# MILBRIDGE WATER DISTRICT

TOWNS SERVED: Milbridge

DWSRF FUNDED AMOUNT: \$231,795

ENGINEER: A.E. Hodson Engineers

CONTRACTOR: Border Electric, Inc.

The Milbridge Water District was awarded 2017 DWSRF funds for their project to design, construct, and install a SCADA system. The new system will allow the District to monitor standpipe levels, control pump houses, and monitor flows and chlorine levels. Tank mixers and powerline extension to the mixer and tank telemetry were also installed. The project aimed to improve system resiliency as well as save power cost, time, and water consumption. Additional benefits include improved water quality due to consistent chlorine levels from a chlorine analyzer and controlled injection.



# KENNEBUNK, KENNEBUNKPORT, AND WELLS WATER DISTRICT

**TOWNS SERVED:** Kennebunk, Kennebunkport, Wells, Ogunquit, Arundel, Biddeford, York

**DWSRF FUNDED AMOUNT:** \$682,760

**ENGINEER:** Kennebunk, Kennebunkport, and Wells Water District

**CONTRACTOR:** Kennebunk, Kennebunkport, and Wells Water District

DWSRF funds were awarded to the Kennebunk, Kennebunkport, and Wells Water District for two projects. The first project involved replacing 660 feet of water main on Green Street in Kennebunkport. In addition to replacing the 100+ year old main, the project involved renewing services and hydrants within the public right of way and was conducted in conjunction with a public sewer system upgrade. The second project converted obsolete meters, including lead meters, to the Mueller Automated Metering Infrastructure radio read technology platform. Improvements with the new meters include leak detection, theft of service, and on-demand reads.



# WALDOBORO WATER DISTRICT

**TOWNS SERVED:** Waldoboro

**DWSRF FUNDED AMOUNT:** \$208,262

**ENGINEER:** Maine Water Company

**CONTRACTOR:** Crooker Construction

The Waldoboro Water Department utilized 2017 DWSRF funds to replace a total of 2,060 feet of water main on Pine Street in conjunction with Waldoboro Public Works projects. The project aims to decrease water loss, improve system sustainability, and increase water quality.



## Projects from Previous Years Completed in 2017

### BELFAST WATER DISTRICT

**TOWNS SERVED:** Belfast, Northport, Searsport

**DWSRF FUNDED AMOUNT:** \$184,324

**ENGINEER:** Dirigo Engineering

**CONTRACTOR:** Ranger Construction, Inc.

The Belfast Water District utilized DWSRF funds to update a water main crossing on Goose River with a goal of increasing system resiliency. The Goose River crossing was considered the most vulnerable portion of the transmission line because of its shallow depth and easily damaged asbestos cement. The new river crossing is constructed of 16' HDPE water main and is approximately 300 feet long.



"We have always found working with the DWSRF Program to be a good experience. We could not have funded this project on our own, and I'm certain that private banking would have cost our customers more. Belfast Water has done many projects in the last 30 years using SRF funding because we have always found it to be the best option."

**KEITH POOLER, SUPERINTENDENT,  
BELFAST WATER DISTRICT**



# DWSRF Performance Measures

## Percentage of Project Applications Funded

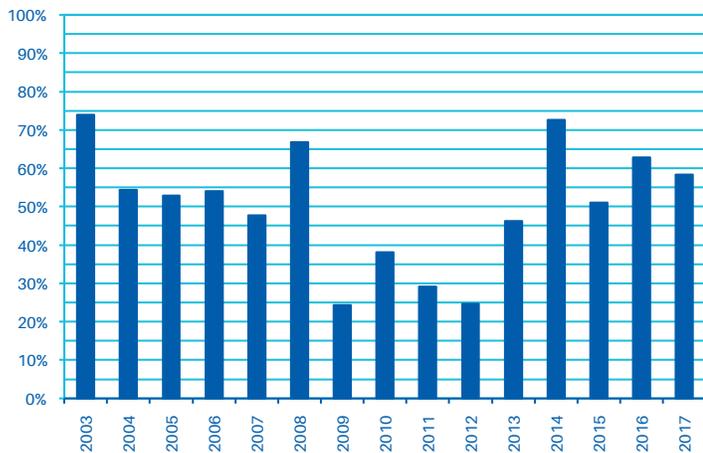


FIGURE 1.

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

## DWSRF Loan Forgiveness

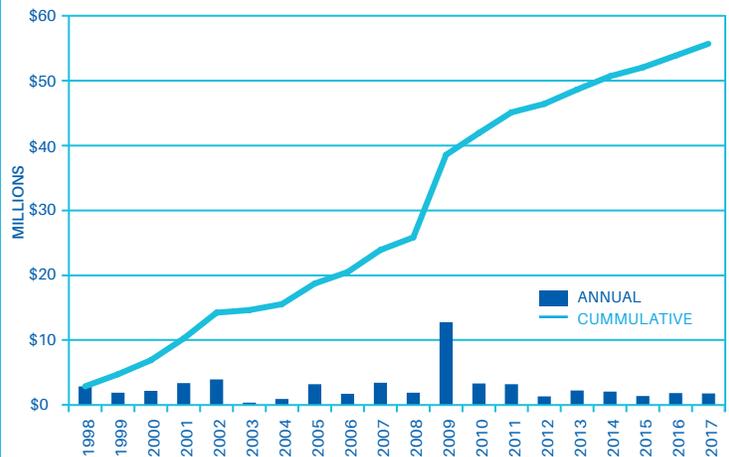


FIGURE 2.

Economically disadvantaged water systems may have a portion of the loan principal forgiven if a water system's existing rates exceed their "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 project receive at least 30% "principal forgiveness."

## DWSRF Loan Commitments

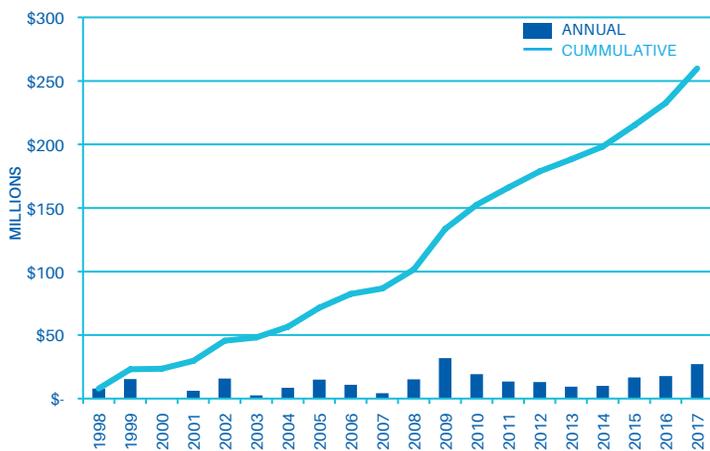


FIGURE 3.

Since 1997, the DWSRF has provided more than \$250 million in funding to over 370 infrastructure improvement projects at Maine's public water systems.

## DWSRF Loan Repayments

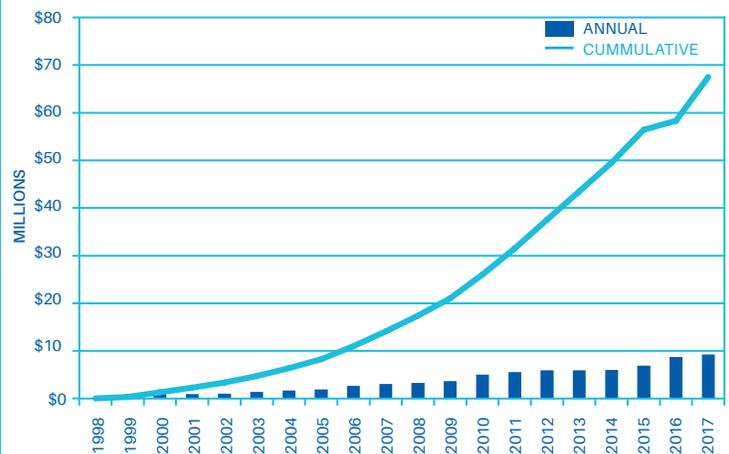


FIGURE 4.

The DWSRF annual repayment stream is currently about \$9.2 million per year and will continue to increase each year.

# FROM SOURCE TO TAP THE DWSRF HELPS WATER SYSTEMS DELIVER SAFE WATER

## PROTECT YOUR SOURCE

Arguably, the most important part of any public water system is its drinking water source. A high quality, well-protected source can provide cost-effective and safe drinking water. The DWSRF provides funding not only for the construction and development of new and backup drinking water sources but also for the protection and purchase of land integral to keeping drinking water sources safe from contamination. In 2017, the DWSRF provided funding for 25 projects related to source water protection through the DWP's Wellhead Protection and Source Water Protection Grants. The DWSRF funded Land Acquisition Loans allows public water systems to take out low-interest loans for the purchase of land essential to source protection. This has enabled public water systems to protect nearly 4,343 acres of drinking water source protection areas since 1997.



## 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, contaminants can enter the drinking water through the pipes or result in an inability to maintain the pressure needed 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.

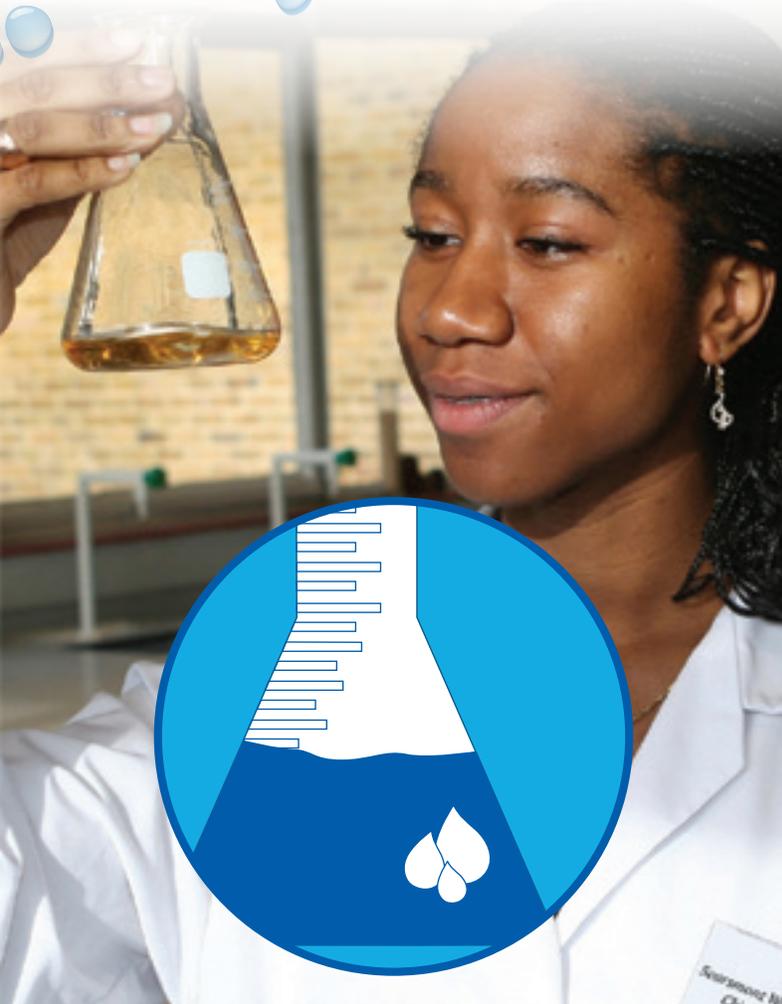


## CORE MESSAGE

The Drinking Water Program's core message revolves around the notion that water systems should always work to identify, reduce, and eliminate vulnerabilities and risks to their water systems to ensure that their customers are always receiving safe 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.

## 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.



## 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 system.



### SOURCE WATER PROTECTION GRANTS

Source Water Protection Grants awards grant funding 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.

From 2011 - 2016, the Drinking Water Program has funded 36 projects at 25 systems representing \$182,944 in grants for surface water source protection. This year, nine systems were awarded a source water protection grant.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Anson and Madison Water District	Anson, Madison	Develop capacity to provide source water protection resources and training for local schools	\$10,000
Auburn Water District	Auburn, Lewiston, Poland	Field inspection of Townsend Brook watershed to identify possible sources of contamination	\$10,000
Berwick Water Department	Berwick	Install a surveillance camera system around intake	\$3,000
Boothbay Region Water District	Boothbay, Boothbay Harbor, East Boothbay	Lake and watershed modeling to support watershed zoning ordinance revision; Lake Friendly grant program	\$10,000
Ellsworth Water District	Ellsworth,	Reduce erosion to Branch Lake by improving road perpendicular to lake	\$10,000
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Support the LakeSmart program	\$10,000
Newport Water District	Newport	Replace old culvert with box culvert	\$10,000
Wilton Water District	Wilton	Develop a watershed source protection plan for Varnum Pond	\$9,500
York Water District	York	Trail management and improvement to reduce erosion	\$10,000



## CAPACITY DEVELOPMENT GRANTS

Capacity Development Grants provide assistance to public water systems for the preparation of documents that will assist 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.

Over the past 10 years, the Drinking Water Program has funded 93 projects at 74 systems representing \$744,356 in capacity development grant support. This year, the Capacity Development Grant awarded \$141,405 to 11 water systems across the State.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Auburn Water District	Auburn, Lewiston, Poland	Hydraulic model	\$15,000
Bath Water District	Bath, Brunswick, West Bath, Wiscasset, Woolwich	Master plan update	\$10,000
Gardiner Water District	Gardiner, Randolph, Farmingdale	Infrastructure funding options analysis	\$7,500
Kennebec Water District	Fairfield, Oakland, Vassalboro, Waterville, Winslow	Comprehensive water system facilities plan (Master Plan)	\$15,000
Kennebunk, Kennebunkport, and Wells Water District	Kennebunk, Kennebunkport, Wells	Pilot study for removing per- and polyfluoroalkyl substances (PFAS)	\$10,000
Old Town Water District	Old Town, Milford	Corrosion control and trihalomethanes study and hydraulic model review	\$15,000
Rumford Water District	Rumford	Comprehensive study and capital improvement plan	\$8,905
Southwest Harbor Utilities District	Southwest Harbor	Water system study with hydraulic model	\$15,000
Vinalhaven Water District	Vinalhaven	Master plan update and system model	\$15,000
Yarmouth Water District	North Yarmouth, Yarmouth	Master plan update, groundwater model, and hydraulic model	\$15,000
York Water District	York	Master plan update and hydraulic model	\$15,000

## WATER SYSTEM CONSOLIDATION GRANTS

Water System Consolidation Grants provide partial funding to water systems for the purpose of joining to another water system. 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 must not have 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	PUBLIC WATER SYSTEM CONNECTION TO:	REASON FOR CONSOLIDATION	GRANT AMOUNT
HT Associates - Hardy Orthodontics	Bangor	Bangor Water District	Bacteria	\$11,300

## WELLHEAD PROTECTION GRANTS

Wellhead Protection Grants provide funding 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.

Over the past 10 years, the Drinking Water Program has funded 184 projects at 105 systems, representing \$522,418 in grants for groundwater source protection. This year, 16 systems were awarded a wellhead protection grant.

PUBLIC WATER SYSTEM	TOWNS SERVED	PROJECT DESCRIPTION	GRANT AMOUNT
Camp CaPella	Dedham	Installation of pitless adapter and improved security for well casing	\$5,000
Cold Spring Water Company	Lamoine	Hydrogeologic study to more accurately define wellhead protection area and determine estimated 200-day and 2,500-day travel time zones	\$10,000
Grandeur Mobile Home Estates	Carmel	Replace oil fired furnaces with propane heating systems	\$6,400
Greater Augusta Utility District	Augusta, Chelsea, Manchester, Vassalboro, Winthrop	Install perimeter fencing, access grate, and preparation for re-vegetation	\$10,000
Hingham Heights Mobile Home Park	Glenburn	Remove single walled oil tanks and convert oil fired furnaces to propane	\$10,000
Homestead Estates Mobile Home Park	Glenburn	Remove single walled oil tanks and convert oil fired furnaces to propane	\$10,000
Lake Arrowhead Community	North Waterboro	Increase wellhead protection awareness through outreach and education and wellhead protection signs	\$5,000
Old Town Water District	Old Town, Milford	Install remote wellhead surveillance	\$9,500
Scroggins Mobile Home Park	Corinth	Remove single walled oil tanks and convert oil fired furnaces to propane	\$6,200
South Slope Estates	Carmel	Replace four oil furnaces with propane	\$6,400
Spurwink Schools: Limerick, Casco, Cornville, and Brunswick	Brunswick, Carmel, Casco, Cornville, Limerick	Install wellhead protection signs	\$600
Spurwink Schools: Chelsea	Chelsea	Install bollards around wellhead and install wellhead protection signs	\$1,650
Willow Brook Mobile Home Park	Levant	Replace kerosene burning furnaces with propane	\$10,000

## VERY SMALL SYSTEM COMPLIANCE LOAN

Very Small System Compliance Loans were established in 2010. 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.

The loan provides 100% principal forgiveness (up to \$50,000) for water treatment improvements required to achieve compliance with a current or 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, uranium, or antimony levels.

To date, 30 public water systems have received funding and resolved compliance issues. Total project expense of \$546,130 have improved water quality for 5,584 users, with an average cost of \$98 per user. Eight water treatment systems were installed for removal of arsenic, 14 for radon/uranium removal, eight for corrosion control to address lead and copper compliance.

PUBLIC WATER SYSTEM	TOWN SERVED	COMPLIANCE ISSUE	GRANT AMOUNT
Athens Elementary School	Dexter	Source	\$50,000

## LAND ACQUISITION LOANS

Land Acquisition Loans provide 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 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 oversight 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.”

Since 1997, the DWSRF has provided \$5.7 million in loans to protect 4343 acres drinking water source protection lands across the State.

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 its drinking water source. Land acquisition loans have ranged from a purchase of 2.3 acres all the way up to nearly 1,200 acres.

PUBLIC WATER SYSTEM	TOWN SERVED	ACRES CONSERVED	GRANT AMOUNT
Lake Arrowhead Community, Inc.	North Waterboro	26	\$65,000





Paul R. LePage, Governor

Ricker Hamilton, Commissioner

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#### MAINE CDC DRINKING WATER PROGRAM

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