

2020 Public Water System Award Recipients

for calendar year 2019

rev 2020-12-04

NTNC (25)

Assurance Technology Corporation (Carlisle)
Cape Cod Air Force Station
Chester/Middlefield Elementary School
Clarksburg Elementary School
Deer Island (MWRA)
Drummer Boy Condominiums (Wellfleet)
Foreign Auto Service (Charlton)
Freetown/Lakeville Regional School Dist.
Gabriel Abbott Memorial School (Florida)
Heritage School (Charlton)
Landmark Trust (Carver)
Little Peoples College (Acushnet)
Martha's Vineyard Airport (Tisbury)
MIT Haystack Observatory (Tyngsborough)
Oldcastle Infrastructure (Rehoboth)
Pinecroft School (Rehoboth)
Rowe Elementary School
Semass Resource Recovery Facility (Rochester)
Stow Fire and Community Center
Sysco Boston, LLC (Plympton)
The Home for Little Wanderers (Plymouth)
The New Testament Church (Plymouth)
Twin Oaks Farm Learning Center Inc. (Rehoboth)
V A Boston Healthcare System (Brockton)
Wee Forest Folk (Carlisle)

Small Community (17)

Ayer Road Properties LLC (Harvard)
Beechwood Point Condos (Mashpee)
Bishops Landing Condominiums (Stoughton)
Curtis Hill Condominium (Tyngsborough)
Essex Water Dept.
Gosnold Water Department
Hampden Housing Authority
Horton Estates Condominium Trust, Inc. (Rehoboth)
Mount St Mary's Abbey (Wrentham)
Pine Ridge Condominiums at Sampson's Pond (Carver)

Pinetree Village (Carver)
Pleasant Water (Wellfleet)
Sawyer Hill Ecovillage (Berlin)
Stones Throw Condos (Truro)
Town of Eastham
White Birch Garden Apartments (Hampden)
Woodhaven Elder Housing Committee (Sherborn)

Medium and Large Community (34)

Amesbury DPW Water Division
Aquarion Co, Hingham/Hull/Cohasset
Bourne Water District
Brewster Water Department
Buzzards Bay Water District
Canton Water Department
Cohasset Water Department
Dedham Westwood Water District
Easton Water Division
Edgartown Water Department
Fairhaven Water Department
Halifax Water Department
Hanson Water Department
Harwich Water Department
Inima USA / Aquaria LLC
Lynn Water and Sewer Commission
Mansfield Water Division
Mashpee Water District
Middleborough Water Supply
Massachusetts Water Resource Authority
Needham Water Department
North Attleboro Water Department
North Chelmsford Water District
North Raynham Water District
Norton Water Department
Norwell Water Department
Pinehills Water Company, Inc.
Provincetown Water Department
Salem/Beverly Water Supply Board
Sandwich Water District
Sharon Water Department
Upper Cape Regional Water Cooperative
Walpole Water Department
Wayland Water Department

Consecutive (15)

Acushnet Water Department
Boston Water and Sewer Commission (MWRA)
Brookline Water and Sewer Division
Framingham Water Department (MWRA)
Lexington Water Dept. (MWRA)
Lynnfield Water Dist. (MWRA)
Mattapoisett River Valley Water Department
Meadowbrook Water Trust
Rings Island Water District
Schooner Pass Trustees Condominiums
Swampscott Water Department (MWRA)
Town of Westport
Watertown Water Department (MWRA)
Weston Water Department
Whitman Water System

Regional Recognition (3)

New Bedford Department of Public Infrastructure

New Bedford is a surface water system providing water to New Bedford, Acushnet, a portion of Freetown, and seasonally to Dartmouth. New Bedford makes use of the State Revolving Fund program to assist it to finance projects needed to preserve reliable service to its customers. New Bedford's proactive planning and actions stretches its funds to service its surface water treatment plant, 78-million-gallon finished water reservoir, 287 miles of water main and over 24,000 service accounts. SRF-funded projects underway include: lead service line replacement project, with 1224 lead services replaced from main to meter and a Phase II recently awarded (\$10.2 million); rehabilitation of its Quittacas Surface Water Treatment Plant (\$16 million); rehabilitation of its 78 million gallon High Hill Reservoir roof, including transmission main, valve and structures work (\$13.7 million); and replacing and upgrading large meters and conversion to Advanced Metering Infrastructure (AMI)(\$4.3 million). The City has also been awarded an Asset Management Grant for GIS improvements, and is actively replacing water main throughout the City with other funding sources. New Bedford's knowledgeable operators methodically submit their reports in a well-organized fashion each month. MassDEP's Southeast Regional Office is pleased to award its 2020 Regional Choice Award to the New Bedford Department of Public Infrastructure in recognition of its professionalism and its continuous efforts to maintain a reliable water supply.

Southwick Water Department

This COM PWS maintains its own sources and purchases water from SWSC. It is well staffed, well run, plans for the future and addresses issues as evidenced from MassDEP's most recent sanitary survey. One issue it faced was a planned change in SWSC water quality provided. Southwick has already designed, permitted and installed the necessary pump station/treatment building, well in advance of SWSC changes. MassDEP recently conducted the final inspection virtually and issued its approval.

Webster Water Department

After years of continued water quality complaints from elevated levels of iron and manganese in the water, the Town of Webster proceeded with the piloting (2016), design (2017) and construction (2018-2019) of a new 2.75 MGD Water treatment plant (WTP) with greensand filtration media to treat the water. A partial activation approval for the new plant was approved by MassDEP on November 22, 2019. The WTP went online in December 2019 treating water from only rehabilitated Well 01G while new well pumps and level transducers were installed in Wells 04G-08G. Once Wells 04G-08G could be pumped to the new WTP, MassDEP approved a final activation of the 2.75 MGD Memorial Beach WTP with all wells online on January 31, 2020. Water in Town has improved, and complaints have been reduced.

Energy Conservation (4)

Bernardston Fire and Water District

The District installed a 150 kilowatt (kW), ground-mounted solar photovoltaic system at the Pratt Field Wellhead Area and installed a soft start and variable speed drive to the Sugar House pumping station. As a result, the District has achieved 'Net-Zero' energy status by reducing electric demand and generating over 200,000 kilowatt-hours of electricity per year to power the water pumps and associated equipment to serve the water needs of the community.

Lynnfield Water District

The District replaced their oversized motors and pumps on #1 & #2 and installed a variable speed drive to optimize their pumping system. Additionally, the heating system at the booster station was upgraded with a more-efficient natural gas fired boiler. In total, the District will save over \$7,300 and 38,470 kWh / year.

Middleborough Water Supply

The Town installed a 9.75 kilowatt (kW), ground-mounted, dual-access tracker, solar photovoltaic system to the new Water Treatment Plant. This innovative project will provide over 14,558 kWh of clean renewable generation per year by effectively tracking and maximizing the sun's power.

Worcester's Robert L. Moylan Jr. Water Treatment Facility

The City of Worcester received a Massachusetts \$200,000 Gap II energy state grant for replacement of their existing 20-year old ozone generation system with a new Liquid Oxygen System. This \$4.9 million upgrade to the plant produces higher ozone concentrations and optimizes water treatment, while using less electricity.

Water Conservation (1)

2208000 Norfolk Water Division

From 2007 to 2011, the Norfolk Department of Public Works (Norfolk) struggled with high unaccounted for water peaking at 52% in 2008. Since that time Norfolk has made tremendous strides in finding and fixing leaks and promoting water conservation resulting in a 3-year average UAW of 11% for 2016 through 2018. Norfolk monitors water usage daily through a Critical Usage Display on its KP systems dashboard. This allows Norfolk to identify anomalies in real time for each customer. On many occasions, Norfolk has been able to identify and respond to events such as: running toilets, water leaks, and broken meters that a customer might not have been aware of. This quick response time helps to reduce unexpected consumption and promotes conservation of their water resources.

In 2019 Norfolk performed an analysis of its water rates and billing plan and because of that analysis, changed the bi-annual billing to quarterly, allowing customers to track water consumption more closely than with bi-annual billing. The water bills provide current water usage in gallons and compare it to the previous billing period and to the same period of the previous year. Norfolk also plans to move metered data to a web-based platform which will allow customers real-time monitoring of their water usage. Another goal of Norfolk's water conservation program is to review customer water usage in the June to August high use period in order to classify each customer into a tier. Each customer will receive a letter based on their tier. The objective is to identify and educate high water users on the mandatory outdoor water use restrictions and if needed, monitor those users at a closer level in order to assess penalties for not complying with the mandatory restrictions.

Norfolk mails water conservation brochures to customers outlining voluntary actions to reduce indoor and outdoor water usage and provides conservation tips on their web site. Norfolk DPW participates in the town community day where they provide education to customers on the meter reading system and hand out conservation rulers and dye tablets for leak detection.

Distinguished Operator (1)

Shawn Meunier D2-24405, T2-1934

Primary operator for Devens, a community PWS of 6,500 and certified operator for number of small systems. Devens has proactively been addressing PFAS contamination at its three sources for the past

couple of years. With emergency treatment installed and pilot testing new technologies, Sean has been very responsive and conscientious in his duties, working around the clock (even before COVID) to provide exemplary assistance to the water system, its customers, and MassDEP regulators.

STARL

Systems Taking Action to Reduce Lead (STARL)

Lynn Water and Sewer Commission has been working in collaboration with the **Lynn Public Schools**.

This award is given to systems who take action to reduce lead in school drinking water and do so with extremely encouraging results. The Award is given to the PWS and the school district.

The system created a binder for each school to use for reference information when receiving questions, etc. including LCCA Compliance information. They have given MASSPIRG requested information for a feature in early 2020. All school principals and the PWS meet to help educate the administrators with refresher courses and updates are also given.

The plan is to shift into a triannual sampling, doing 1/3 of schools in 2021, 1/3 in 2022, and 1/3 in 2023 and continuing that procedure while also including a baseline sampling event for the town library. While sampling the schools they are continuously inventorying fixtures to catch any non-consumption fixtures that may have been missed previously, noting any other anomalies, etc.