

SUPERINTENDENT'S REPORT FOR 2018

Kittery Water District (KWD) Consumers:

The 2018 construction season was another busy one for the KWD construction crew. Basically, the entire construction season was spent in the town of York replacing water mains, extending a 16" main to eventually connect into the York Water District's piping network and beginning construction on a new pumping station. In 2018, a total of 7,209 feet of water mains were installed of which 4,361 feet were replacement mains and the remainder were main extensions.

The following is a list of the improvements that were made to the District's system in 2018:

Improvements / Additions to the Distribution System:	Asset Value
Heron Point Drive, Kittery Point Severino Trucking, Inc. installed 906 feet of 8" D.I.C.L. pipe, 423 feet of 2" H.D.P.E. pipe, 1 fire hydrant and 6 services	\$ 98,883.00 *
Milliken Drive, Kittery Point Severino Trucking, Inc. installed 180 feet of 8" D.I.C.L. pipe, 123 feet of 2" H.D.P.E. pipe, 1 fire hydrant and 4 services	\$ 21,243.00 **
Beech Ridge Road, York KWD and William Shapleigh and Son Construction installed 2,747 feet of 16" D.I.C.L. pipe, 4 fire hydrants and renewed 31 services (Abandoned 643 feet of 8" D.I.C.L. pipe, 2,253 feet of 6" C.I. pipe and 565 feet of 4" C.I. pipe)	\$ 519,539.00
Old Beech Ridge Road, York KWD and William Shapleigh and Son Construction installed 449 feet of 16" D.I.C.L. pipe	\$ 84,919.00 ***
Route One, York (connecting to Old Beech Ridge Road) ETTI and KWD installed 100 feet of 16" H.D.P.E. pipe	\$ 18,074.00 ****
Beech Ridge Road, York KWD installed 877 feet of 8" D.I.C.L. pipe and renewed 9 services (Abandoned 727 feet of 4" C.I. pipe)	\$ 66,700.00
Beech Ridge Road, York (Barrels Bridge / Dolly Gordon Brook Crossing) Henniker Directional Drilling, LLC installed 288 feet of 16" H.D.P.E. pipe	\$ 212,778.00
Village Drive, Eliot Spinney Construction and Unit Construction installed 1,216 feet of 8" H.D.P.E. pipe, 1 fire hydrant and 12 services	\$ 97,280.00 *****
Maine Turnpike Crossing, York ETTI was unsuccessful in directional drilling beneath the Maine Turnpike due to encountering ledge. A new design and contractor will be selected for a 2019 installation	\$ 88,187.83
Town of York KWD added a new fire hydrant #55-Y on Beech Ridge Road KWD replaced fire hydrants #40-Y and #41-Y during the Beech Ridge Road water main replacement project	
Services - 44 new, 41 renewals	\$ 29,079.65
Meters - 33 new	\$ 20,208.39

* Contribution in aid of construction funds paid by the developer, Green and Green Company, and contributed to KWD

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***** Contribution in aid of construction funds paid by the developer, SPL Development Group, LLC, and contributed to KWD

Miscellaneous Improvements:

Francis L. Hatch Filtration Plant Renovation Project

Phase one of this three phase project has been completed. Filter #2 renovations including a new traveling bridge complete with new backwash and wash water pumps have been completed. New filter sand, new effluent valve and new motorized louvers have been installed. The entire room and filter have been painted as well. The work completed in the sedimentation basin consisted of the replacement of the wood baffle walls and complete replacement of the lighting fixtures, conduits and wiring.

\$ 1,052,981.00

Old Beech Ridge Road, York Pumping Station Construction

The Kittery Water District, York Water District and Kennebunk, Kennebunkport and Wells Water Districts completed the underground piping as well as much of the interior piping. Rusty Wheeler constructed the wooden frame building. This project is 60% complete.

\$ 148,600.00

Ammonium Sulfate Feed System

Triple M Plastics has constructed the build in place bulk chemical storage tank within the chemical feed room. The chemical feed pumps and chemical transfer pumps have been purchased and are awaiting installation.

\$ 33,660.00

Folly Siphon Line Project

KWD and York Water District completed a joint project rehabilitating the former 12" cast iron water main from Chases Pond to Folly Pond. This siphon line will allow KWD to recharge Chases Pond on an as needed basis.

\$ 40,695.00

Folly Pond Access Road Improvement Project

KWD and York Water District completed a joint access road improvement project, which will now allow full vehicle access from the Mountain Road access gate to the dike of Folly Pond and beyond.

\$ 2,452.47

Meter Replacement and Meter Reading Technology Upgrade

Due to the age of our water meters, we have initiated a meter replacement program striving to replace 500 meters per year. In addition, the new meters are being installed with a radio receiver and transmitter that allows the meters to be read by a radio signal directly from the meter reading vehicle

\$ 79,684.00

Total

\$ 2,614,964.34

KWD (Kittery Water District)

H.D.P.E. (high density polyethylene)

C.I. (cast iron)

D.I.C.L. (ductile iron cement lined)

Cost of electricity to pump 1,063,369,000 gallons of water

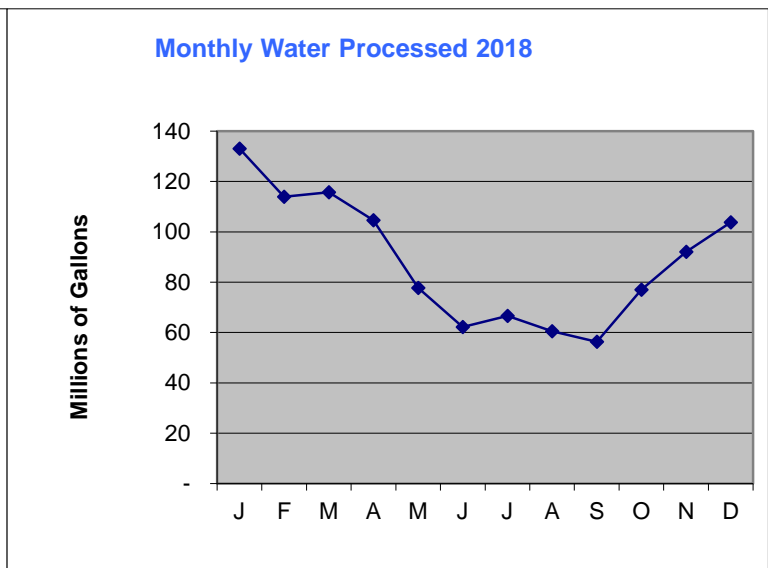
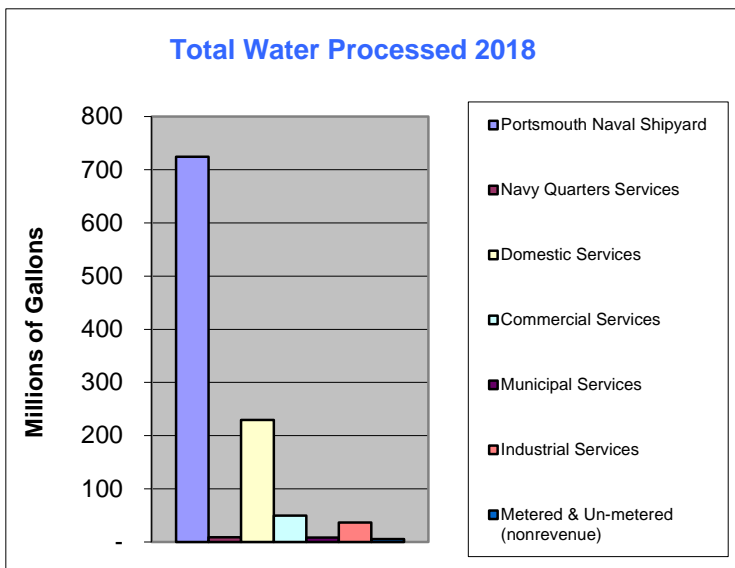
\$101,756.04

Water Processed in Gallons for the Year 2018

Navy Base	724,512,800
Navy Quarters-metered services	9,154,847
Metered domestic services	229,577,289
Metered commercial services	49,716,882
Metered municipal services	8,189,747
Metered industrial services	36,569,720
Metered & Un-metered (nonrevenue)	<u>5,647,714</u>
Total Water Processed	<u>1,063,368,999</u>
Average Daily Water Processed	2,913,340

Monthly Water Processed (gallons)

Jan	133,097,000
Feb	113,904,000
Mar	115,749,000
Apr	104,593,000
May	77,683,000
Jun	62,150,000
Jul	66,603,000
Aug	60,507,000
Sep	56,307,000
Oct	77,012,000
Nov	92,023,000
Dec	<u>103,741,000</u>
Total Water Processed	1,063,369,000



Respectfully submitted,

Michael S. Rogers

Michael S. Rogers
 Superintendent
 Kittery Water District