

SUPERINTENDENT'S REPORT FOR 2020

Kittery Water District (KWD) Consumers:

The 2020 construction season was yet another busy one for the KWD construction crew. Despite encountering ledge on all five of our scheduled water main replacement projects, we still managed to replace 2,598 feet of old, undersize pipes. Unfortunately, we experienced an abnormal amount of water main breaks; repairing 9 breaks in 2020, which is about 45% higher than normal.

The following is a list of the improvements that were made to the District's system in 2020:

Improvements / Additions to the Distribution System:

	Asset Value
Keen Avenue, Kittery Point KWD installed 318 feet of 2" DR11 H.D.P.E. pipe (Abandoned 262 feet of 2" iron pipe)	\$ 36,680.00
Sunshine Lane, Kittery Point KWD installed 210 feet of 2" DR11 H.D.P.E. pipe (Abandoned 232 feet of 2" iron pipe)	\$ 31,873.00
Bayview Lane, Kittery KWD installed 515 feet of 4" DR11 H.D.P.E. pipe (Abandoned 600 feet of 2" iron pipe)	\$ 61,553.00
Pinkham Avenue, Kittery KWD installed 371 feet of 8" H.D.P.E. pipe (Abandoned 264 feet of 2" iron pipe)	\$ 44,375.00
Harris Avenue, Kittery KWD installed 300 feet of 8" H.D.P.E. pipe (Abandoned 223 feet of 2" iron pipe)	\$ 65,904.00
Mendum Avenue, Kittery KWD installed 565 feet of 8" H.D.P.E. pipe, 373 feet of 4" H.D.P.E. pipe and replaced 1 fire hydrant (Abandoned 642 feet of 6" C.I. pipe and 370 feet of 4" C.I. pipe)	\$ 119,834.00
Huntington Way, Kittery McKenna Construction and KWD installed 772 feet of 8" DR11 H.D.P.E. pipe, 242 feet of 4" DR11 H.D.P.E. pipe, 1 fire hydrant and 20 services	\$ 54,827.00 *
Harold Dow Highway (Route 236), Eliot Mick Construction installed 1,162 feet of 16" D.I. pipe, 660 feet of 8" D.I. pipe and 1 fire hydrant	\$ 215,000.00 **
Services - 34 new, 36 renewals	\$ 41,331.00
Meters - 43 new	\$ 23,615.00

Miscellaneous Improvements:

Francis L. Hatch Filtration Plant Renovation Project Phase 3 of this project has been completed. Penta Corporation was the General Contractor. Contract is complete.	\$ 342,697.00
Concrete Repairs at the Folly Pond and Bell Marsh Reservoir Spillways Concrete repairs to the spillway and wing walls of both Upper Folly and Bell Marsh Reservoir. Each project is approximately 50% complete. The cold temperatures prevented the completion of these projects.	\$ 24,254.00

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

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Removal of Dried Sludge from the 3 Drying Lagoons at the Filtration Plant Shapleigh and Son Construction was contracted to remove the dry sludge from the drying basins.	\$ 4,500.00
Cleaning / Removal of the Sludge from the Sludge Holding Basin at the Filtration Plant The Ted Berry Company was contracted to remove the sludge from the sludge holding basin transferring the material to the recently cleaned sludge drying basins.	\$ 21,000.00
Replacement of the VFD for Pump #3 at the Boulter Pond Pumping Station Stultz Electric was contracted to install a new VFD for distribution pump #3.	\$ 10,085.00
Master Plan Update Wright-Pierce Engineers was contracted to complete the 10 year update to the District's Master Plan. This project received matching grant funds from the Maine Drinking Water Program.	\$ 15,000.00
Maintenance to the Gravel Roadway to Upper Folly Dam Shapleigh and Son Construction was contracted to apply gravel and grade as much of the roadway to the Upper Folly dam that the budget would allow.	\$ 17,725.00
Fire Hydrant Painting Project Marston Industrial Services was contracted to paint approximately 50% of the District's fire hydrants.	\$ 34,250.00
Replace the Driveway at the Eliot Tank The old deteriorated hot top driveway was removed and a new driveway was installed by Pave-Tek.	\$ 2,640.00
Install a Hot Top Driveway at the Cutts Road Station The gravel driveway was overlaid with hot top by Pave-Tek.	\$ 2,340.00
Refinish Main Office Building Handrails and Sidewalks Marston Industrial Services was contracted to refinish the building handrails, perform concrete repairs to the sidewalk and refinish the concrete walkway.	\$ 10,000.00
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.	<u>\$ 52,206.00</u>
Total	<u><u>\$ 1,231,689.00</u></u>

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 944,126,000 gallons of water

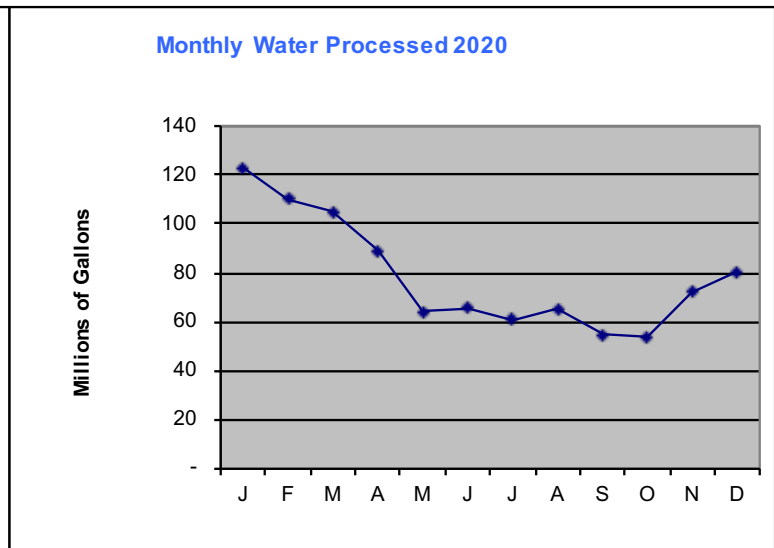
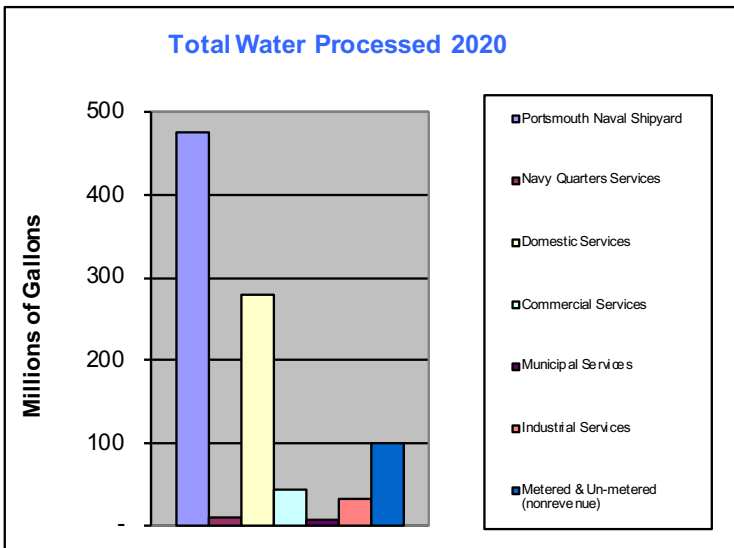
\$71,944.20

Water Processed in Gallons for the Year 2020

Navy Base	475,653,200
Navy Quarters-metered services	8,870,652
Metered domestic services	277,794,312
Metered commercial services	44,111,190
Metered municipal services	7,274,988
Metered industrial services	31,715,200
Metered & Un-metered (nonrevenue)	<u>98,706,458</u>
Total Water Processed	<u>944,126,000</u>
Average Daily Water Processed	2,586,647

Monthly Water Processed (gallons)

Jan	123,029,000
Feb	110,105,000
Mar	104,834,000
Apr	89,008,000
May	64,218,000
Jun	65,798,000
Jul	60,701,000
Aug	65,187,000
Sep	54,512,000
Oct	53,923,000
Nov	72,286,000
Dec	<u>80,525,000</u>
Total Water Processed	944,126,000



Respectfully submitted,

Michael S. Rogers

Michael S. Rogers
 Superintendent
 Kittery Water District