



Kent County Water Authority

February 14, 2020

Mrs. Luly Massaro  
Commission Clerk  
Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, Rhode Island 02888

Re: Capital Improvement Program

Dear Mrs. Massaro:

In accordance with Kent County Water Authority rate order Docket #4611, we are required to file a Capital Improvement Report semi-annually. The attached reports on Capital Improvements are through December 31, 2019.

Also, in accordance with the report and order, are five copies to be provided as a filing to the Commission. A separate copy will be mailed to Ms. Christy Hetherington, Assistant Attorney General on this matter.

If you have any questions or members of your staff would like further information, please feel free to call at any time.

Very truly yours,  
Kent County Water Authority

A handwritten signature in blue ink, appearing to read "David L. Simmons", is written over the typed name and title.

David L. Simmons, P.E.  
Executive Director/Chief Engineer

cc: Board Members  
Christy Hetherington

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West Warwick, RI 02893-0192  
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[www.kentcountywater.org](http://www.kentcountywater.org)

**KENT COUNTY WATER AUTHORITY**  
**Report of Progress of CIP Projects**  
**As of December 31, 2019**

<u>Description</u>	<u>Estimated</u>	<u>Expended</u>	<u>Estimated Funds to Complete</u>
Design North/South High Service Connector	\$9,716,586	\$2,003,943	\$7,712,643
New Office Facility	\$78,943	\$44,423	\$34,520
<b>TOTAL</b>	<b>\$9,795,528</b>	<b>\$2,048,365</b>	<b>\$7,747,163</b>

## **CIP Report**

This report will contain information on the approved programs under the current bond issue remaining. Kent County Water Authority received new CIP funding available through the most recent rate case, Docket #4611, as cash based pay as you go.

### **North/South High Service Connection:**

This project is connecting the north high service gradient with the south high service gradient to provide essential resiliency in the system and enhance water quality. Construction bid opening occurred on 2/18/2019. D'Ambra Construction was awarded the bid for the amount of \$9,153,473.60. Commencement of construction for the North/South interconnection began in Mid-April between the high service gradients using accumulated capital generated under our Capital Improvement Program. This project is currently ahead of schedule, fully funded, and slated to be completed in late 2020 except for final paving in 2021. This much needed project will allow for storage tank redundancy and provides enhanced access to the northern reaches of the system from our treatment facilities in the south.

### **New Office and Maintenance Facility Study**

The Authority currently operates out of its office and maintenance facilities located at 1072 Main Street, West Warwick, Rhode Island. These facilities were originally built at the turn of the century with modifications and new garages in the 1970's. Several additional renovations have been accomplished to support increased operations, and accommodate capital equipment acquisitions, spare parts warehousing and workforce needs. These existing facilities have no usable area for additional expansion and the Authority believes they can no longer support the Authority's daily operations. In 1999 a new office and maintenance facility study was conducted. This document is outdated, and a current study was necessary to support and supplement future Capital Plan implementation and potential future Commission rate filing. The Authority requested proposals from qualified professional Architects and Engineers to conduct the facilities analysis and evaluation study. A professional architectural/engineering firm was publicly engaged and will be providing the KCWA Board with a detailed cost benefit report, contain a detailed cost benefit report, including spatial analysis, LEED renewable energy, summary report of each location and preliminary cost estimate for each option, design & construction as necessary to relocate the Authority's offices.

### **East Greenwich /Warwick Well Treatment Facility Design**

The second project is the design and cost estimate for the construction of a new treatment plant at the existing East Greenwich/Warwick Well site. The East Greenwich/Warwick Well has a full production yield capability of approximately 2000 gallons per minute. The East Greenwich/Warwick Well is located at 5870 Post Road, in the general vicinity of the intersection of Post Road and Franklin Street, along the East Greenwich and Warwick city line within the Hunt River Aquifer. The existing facilities consist of one submersible pump well, emergency power, SCADA control and monitoring disinfection and pH adjustment.

The design will include an addition to the updated well facilities constructed in 2018 under the KCWA Infrastructure Replacement initiative. The Authority requested proposals from qualified Professional Engineering firms to conduct an inspection, evaluation and review of the newly constructed well facilities and prepare final design and contract documents for construction of a new three million gallon per day water treatment facilities at the existing site under its Capital Improvement initiatives. The treatment facilities shall remove iron and manganese and include disinfection, pH adjustment, aeration radon removal and source water compliance with current and proposed Safe Drinking Water Act and Department of Health regulations. The design will also be reviewing Per-and-polyfluoroalkyl substances which is an emerging unregulated contaminant of concern. Per-and-polyfluoroalkyl substances (PFAS) are a group of unregulated compounds that have been found in drinking water to varying degrees in Rhode Island. PFAS can be found in Class B firefighting foam and everyday consumer products that are non-stick, stain-resistant, or waterproof. RIDOH recently partnered with RI DEM and Brown University on a PFAS sampling study of water systems that are potentially vulnerable to PFAS contamination. There are current legislative initiatives to set maximum contaminant levels and health advisories prior to them being adopted and incorporated into the SDWA by the EPA. KCWA wanted to be prepared to handle this contaminant if it is found in our source water at levels above safe and/or regulated levels by RIDOH or EPA.