



Rivanna Water & Sewer Authority
Rivanna Solid Waste Authority
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MEMORANDUM

TO: THE HONORABLE ALBEMARLE COUNTY BOARD OF SUPERVISORS

**FROM: BILL MAWYER, EXECUTIVE DIRECTOR
RIVANNA WATER & SEWER AUTHORITY
RIVANNA SOLID WASTE AUTHORITY**

SUBJECT: QUARTERLY UPDATE

DATE: JULY 2018

This quarterly update is to provide information on the challenges encountered during the storm on May 31, 2018, as well as information on our solid waste, drinking water and wastewater and projects currently in the planning, design or construction phases. A general overview of the current and upcoming Capital Improvement Projects follows:

1. Replace the Ivy Transfer Station
Scope: Provide an 11,600-sq. ft. municipal solid waste transfer station, and demolish the existing transfer station.
Construction: September 2017- August 2018
Cost: \$3 million
2. Water Treatment Plant Improvements
Scope: Replace equipment which has reached end-of-service life at the South Rivanna Water Treatment Plant, and increase capacity at the Observatory and Crozet Water Treatment Plants.
Completion: 2017-2022
Cost: \$34 million
3. Crozet Finished Water Pump Station
Scope: Replace existing pump station and increase capacity from 1 to 1.5 MGD.
Completion: May 2017- September 2018
Cost: \$2.6 million
4. Crozet Flow Equalization Tank
Scope: Provide a one million gallon wastewater tank to store peak wet weather flows which infiltrate the sewer system.
Completion: 2019-2020
Cost: \$3.3 million

5. Drinking Water Infrastructure Plan, Crozet Area

Scope: This study is reviewing historical water usage and estimated growth projections to forecast water demands and infrastructure requirements to serve the Crozet area for the next 50 years. An update meeting with the Crozet Community Advisory Committee was held June 20, 2018. Preliminary results of the study indicate the existing water capacity is adequate.

Completion: October 2018

Cost: \$270,000

6. Beaver Creek Dam Modifications

Scope: Provide modifications to the dam to control the flow of water across the spillway during major storm events. Required by new Dam Safety Regulations.

Completion: 2021 – 2023

Cost: \$20 million

7. South Fork Rivanna to Ragged Mountain Reservoir Pipeline Right-of-Way

Scope: Determine alignment and acquire right-of-way permits or easements for a pipeline and pumping station to transfer raw (untreated) water between the South Rivanna Reservoir and the Ragged Mountain Reservoir, as set forth by the Community Water Supply Plan.

Completion: 2017-2021

Cost: \$2.3 million

- Modeling Urban Water System safe yield: based on current operating procedures, preliminary water modeling by our consultant, Hydrologics, indicates:
 - Completing the SRR – RMR water line would increase the safe yield from the urban reservoir system by 3.1 mgd.
 - Raising the RMR water level 12 feet (600 mg) would increase the safe yield from the urban water system by 2.6. mgd (without the water line).
 - Completing the water line and raising the water level would increase the safe yield from the urban water system by 5.0 mgd.
 - We are in the process of finalizing this modeling effort, and will provide additional information at a later date.

8. Rt. 29 Water Pumping Station

Scope: Provide a water pumping station and two ground-level water storage tanks near the future intersection of Meeting Street and Airport Road. These water facilities will enhance our ability to meet growing water demands in the area generally north of Hollymead Town Center.

Completion: 2021 -2022

Cost: \$2.3 million

9. Avon to Pantops Water Main

Scope: Provide drinking water piping to improve pressure in the urban water system including the Avon and Pantops water storage tanks.

Completion: 2020-2022

Cost: \$13 million

Please let me know if you have any questions. I will be glad to provide additional information.

cc: RSWA Board of Directors
RWSA Board of Directors