



MEMORANDUM

TO: THE HONORABLE CHARLOTTESVILLE CITY COUNCIL

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

SUBJECT: QUARTERLY UPDATE

DATE: OCTOBER 2021

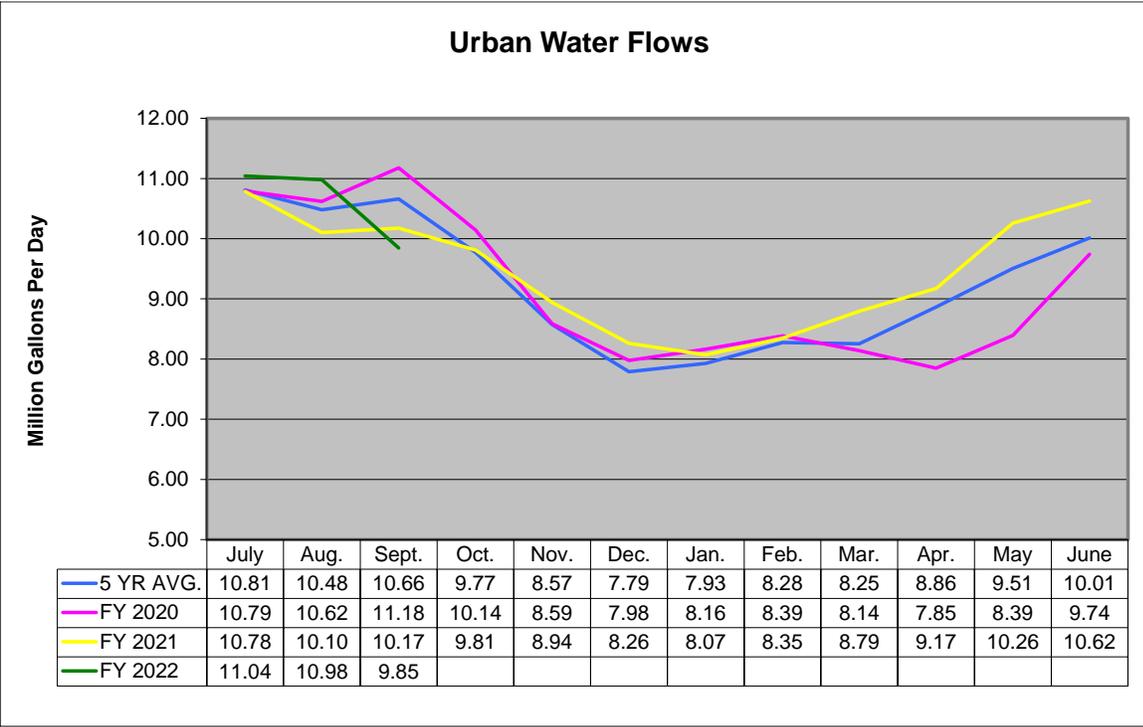
This quarterly update is to provide general information on the drinking water supply and treatment, wastewater collection and treatment, and solid waste programs managed by the Rivanna Authorities, as follows:

1. Drinking Water Supply as of October 4, 2021:
Urban reservoirs (Sugar Hollow, South Rivanna, Ragged Mountain) are in good condition and collectively are 92% full, as we move into our typical fall and winter rainy season. Our most essential urban reservoir, South Rivanna, is 100% full and overflowing.
2. VDEQ Drought Monitoring Report as of September 30, 2021:
Conditions are normal in central Virginia.

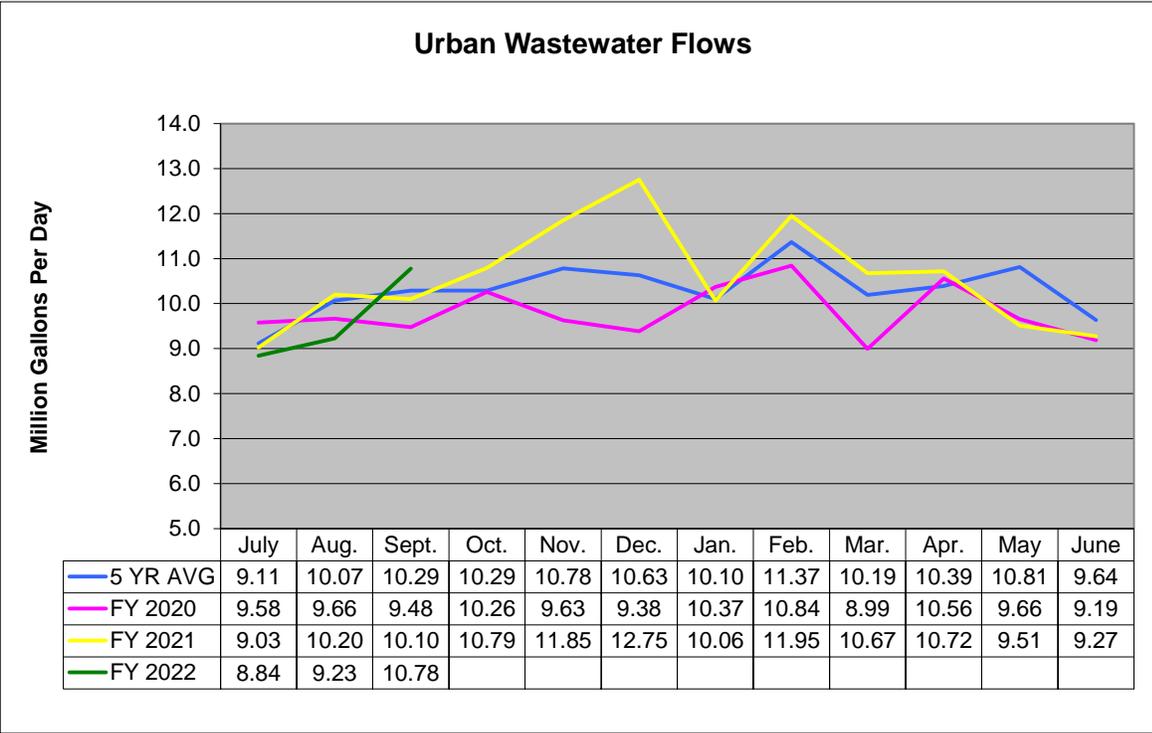
Charlottesville Precipitation (in.)	
September	2.59
September normal	4.09
Year-to-date	28.49
Normal for Year-to-date	31.90
Departure from normal	-3.41

National Weather Service, National Climatic Data Center (NCDC). Daily Climatological Report for Charlottesville, VA, September 30, 2021

3. The production of drinking water for the Urban area (Charlottesville and adjacent developed areas of Albemarle) averaged 9.85 million gallons per day (mgd) in September 2021 (FY 2022), which was below the five-year average for September (10.66 mgd), as shown by the following graph:



4. Urban wastewater flow for September 2021 (10.78 mgd), including flows from Crozet, was slightly above the five-year average for September (10.29 mgd), as shown by the following graph:



5. A general overview of significant current and future water and wastewater Capital Improvement Projects is provided below. Costs for these projects are typically shared between the City Utilities Department (48%) and the Albemarle County Service Authority (52%).

A. Water Treatment Plant Renovations

Scope: Replace equipment which has reached end-of-service life at the South Rivanna and Observatory Water Treatment Plants. Increase water treatment capacity from 7.7 to 10 million gallons per day at the Observatory Water Treatment Plant.

Completion: 2020 - 2023

Cost: \$43 million

B. Exterior Lighting Replacement, Moores Creek Wastewater Treatment Facility

Scope: Replace exterior lighting fixtures and poles on the 80-acre facility to improve safety and compliance with Albemarle County lighting requirements.

Completion: April 2021 – February 2022

Cost: \$0.6 million

C. Electrical System Replacement, Moores Creek Wastewater Treatment Facility

Scope: Replace major electrical cabling, transformers and motor control centers installed around 1980 which have reached the end of their service lives.

Completion: March 2022 – June 2024

Cost: \$5 million

D. Water Pipe and Pump Stations Replacement, Ragged Mountain Reservoir to Observatory Water Treatment Plant

Scope: Replace untreated water pipes and two water pump stations which have reached the end of their service lives or will require significant upgrades to adequately support the increased treatment capacity of the upgraded Observatory Water Treatment Plant.

Completion: 2023 - 2027

Cost: \$25 million

E. Urban Area “Central” Water Pipe

Scope: Water piping improvements to increase capacity and maintain pressure in the Urban drinking water system. This five-mile long piping project will extend from the Stadium Road area to the Long / High Street bridge.

Completion: 2023 - 2027

Cost: \$25 M

F. Upper Schenks Branch Wastewater Piping Replacement, Phase II

Scope: Replace sewer piping installed in the mid 1950’s in conjunction with the City’s sewer upgrade program to increase system capacity. The new piping will be located along McIntire Road between the McIntire Recycling Center and Preston Avenue.

Completion: TBD

Cost: \$5 million: 100% City

G. South Rivanna to Ragged Mountain Reservoir Pipe

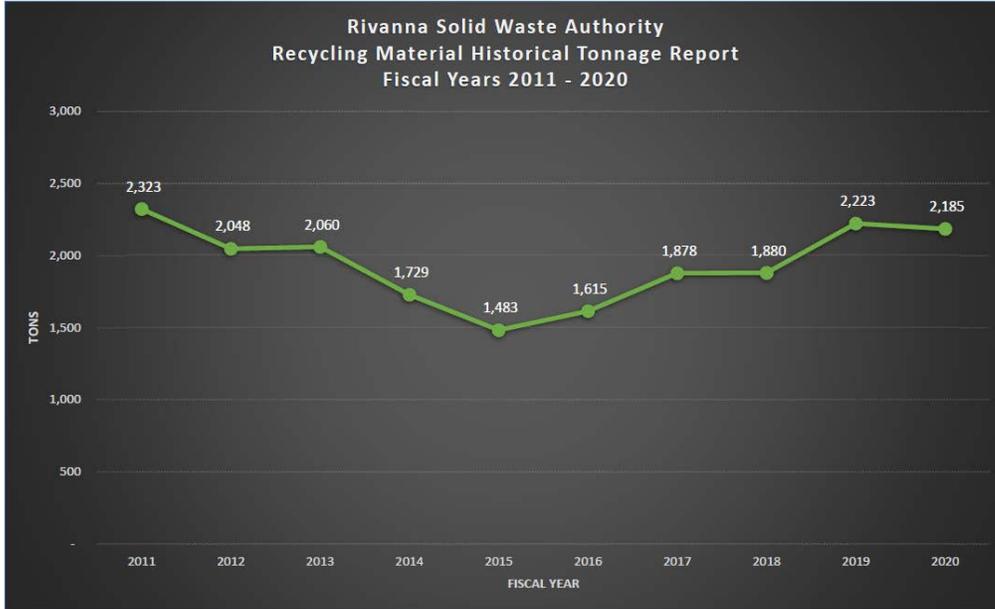
Scope: Acquire easements and construct a pipe to transfer untreated water between the South Rivanna and Ragged Mountain reservoirs, as required by the Community Water Supply plan completed in 2012. A short section will be constructed from Birdwood to Old Garth Road in 2022 – 2023.

Completion: 2027 - 2033

Cost: \$80 million: 80% ACSA / 20% City

6. The recycling program at the McIntire Recycling Center and the Paper Sort processing facility continues to be a very popular service for our community. Tonnage from mixed paper, cardboard

(including pizza boxes), glass, plastics, metals, compostable food waste and cooking oil continues to increase, as shown below:



- By increasing the number of days/week the Transfer Station is open, and by lowering the disposal fee from \$66/ton to \$52/ton, average refuse volume at the Ivy Transfer Station has increased from 105.68 tons per day in September 2019 to 174.03 tons per day in September 2021, as shown below:



8. Keene Convenience Center

Design is underway for a recycling and bagged residential refuse collection center to be constructed in southern Albemarle County.

Completion: January - August 2022

Cost: \$1.1 million: 100% Albemarle County

Please let me know if you have any questions.

cc: RSWA Board of Directors
RWSA Board of Directors