



July 11, 2022

The Honorable Charlottesville City Council
P.O. Box 911
Charlottesville, VA 22902

Re: Quarterly Update – July 2022

Councilors:

This quarterly update is to provide general information on the drinking water supply and treatment, wastewater collection and treatment, and solid waste disposal and recycling programs managed by the Rivanna Authorities for the benefit of the Charlottesville/Albemarle community, as follows:

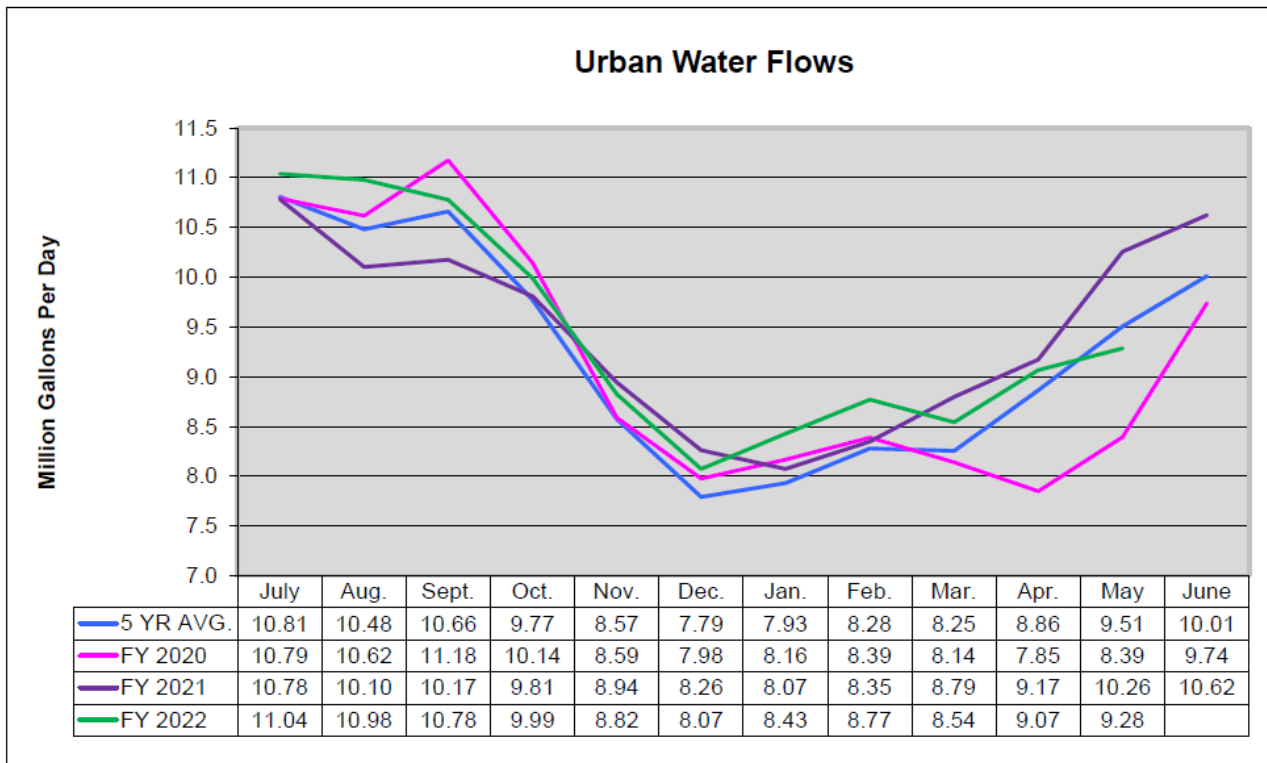
1. Drinking Water Supply and Drought Monitoring, as of July 8, 2022:
 - A. U.S. Drought Monitoring Report:
 - No drought phases have been initiated. Albemarle County is noted to be normal.
 - B. VDEQ Drought Status Report:
 - Our region is at a “Watch” level for groundwater and precipitation.
 - C. Urban Reservoirs Status (Sugar Hollow, South Rivanna, Ragged Mountain):
 - 99 % full.

Precipitation

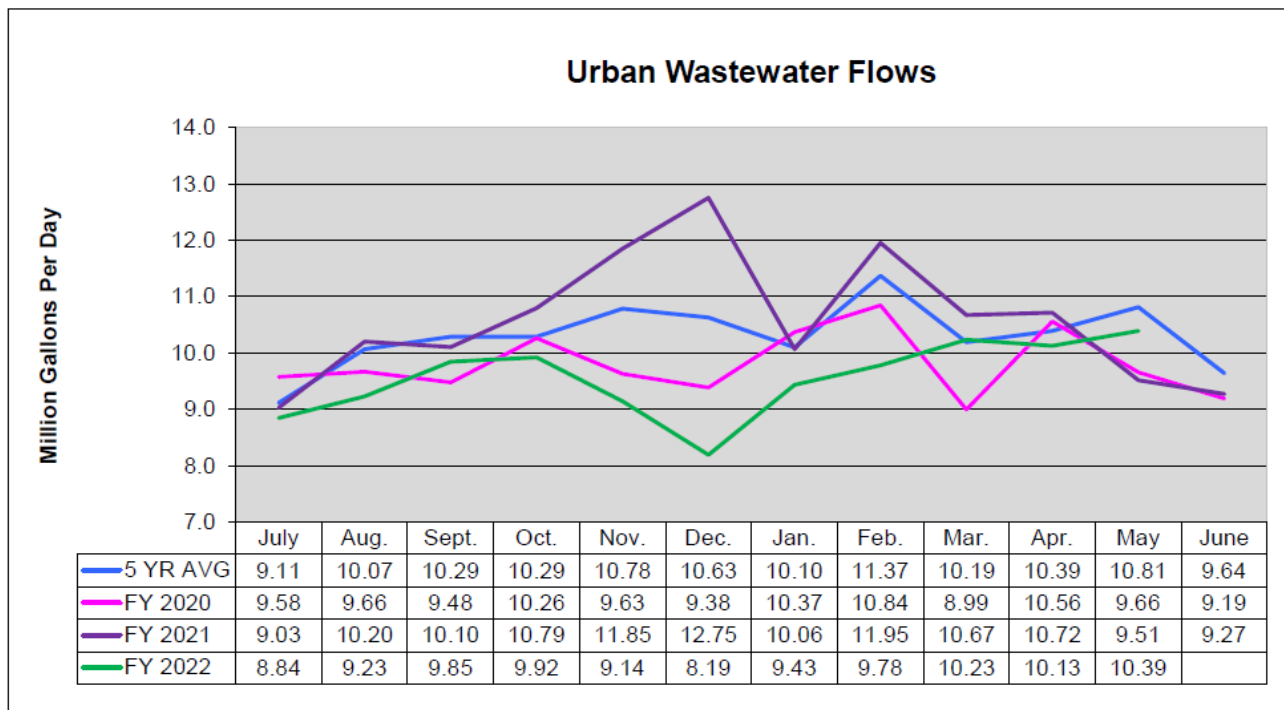
Charlottesville Precipitation				
Year	Month	Observed (in.)	Normal (in.)	Departure (in.)
2021	Total: Jan - Dec	33.82	41.61	-7.79
2022	January	3.79	2.96	0.83
	February	1.48	2.35	-0.87
	March	3.19	3.54	-0.35
	April	3.05	3.17	-0.12
	May	6.17	4.17	2.00
	June	3.66	4.38	-0.72
	Total: Jan - June	21.34	20.57	+0.77

Source: National Weather Service, National Climatic Data Center.

2. The production of drinking water for the Urban area (Charlottesville and adjacent developed areas of Albemarle, not including Crozet) averaged 9.28 million gallons per day (MGD) in May 2022 (FY 2022), which was below the five-year average for May (9.51 MGD), as shown by the following graph:



3. Urban wastewater flow for May 2022 (10.39 MGD), including flows from Crozet, was below the five-year average for May (10.81 MGD), as shown by the following graph:



4. A general overview of significant current and future drinking water, wastewater and solid waste Capital Improvement Projects is provided below. Costs for the water and wastewater projects are typically shared between the Charlottesville Department of Utilities (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: May 2020 - May 2023

Cost: \$43 million

B. Airport Road Water Pumping Station and Piping

Scope: Provide a drinking water pumping station and piping to improve reliability in the northern area of the Urban Water System.

Completion: January 2022 – December 2023

Cost: \$10 million: 100% ACSA

C. Electrical System Replacement, Moores Creek Wastewater Treatment Facility

Scope: Replace major electrical cabling and equipment installed around 1980 which have reached the end of their service lives.

Completion: May 2022 – June 2024

Cost: \$5 million

D. Southern Area Convenience Center

Construction is underway for a recycling and bagged residential refuse collection center to be constructed in the Esmont area of southern Albemarle County.

Completion: July - December 2022

Cost: \$1.6 million: 100% Albemarle County

E. Scottsville WTP Lagoon Liners Replacement

Scope: Replace two plastic lagoon liners which store filter backwash water.

Completion: May 2022 – November 2022

Cost: \$350,000: *ARPA funds from Albemarle County

F. Red Hill Water Treatment Plant Upgrades

Scope: Expand the building to provide additional treatment and laboratory spaces.

Completion: February – December 2023

Cost: \$400,000: *ARPA funds from Albemarle County

G. South Rivanna River Crossing

Scope: Install a second treated water pipe (24”) under the river using trenchless technology to provide a redundant water supply to serve the northern area of the Urban Water System.

Completion: January 2023 – April 2024

Cost: \$6 million

H. Beaver Creek Dam Spillway, Pump Station and Piping Modifications

Scope: Provide modifications to the dam to control the flow of water across the spillway during major storm events, as required by Virginia Dam Safety Regulations. Replace the existing pumping station and piping which convey untreated water to the Crozet Water

Treatment Plant. Construction of a temporary road to maintain traffic on Browns Gap Turnpike during construction of the spillway is included in the project.

Completion: 2024 – 2026

Cost: \$31 million: 100% ACSA
Federal funding (65%) will be requested

I. Urban Area “Central Water Line”

Scope: Piping improvements to more efficiently convey drinking water and generally strengthen the Urban Area Drinking Water System for the benefit of the City and the County. This five-mile-long piping project will extend from the Stadium Road area to the Long Street / E. High Street bridge and generally follow a route which includes: Stadium Road, Piedmont Avenue, Price Avenue, Lewis Street, Jefferson Park Avenue, Cleveland Avenue, Cherry Avenue, Elliott Avenue, 6th Street SE, Avon Street, 10th Street NE, E. Jefferson Street, 11th Street NE, E. High Street, and a connection near Roosevelt Brown Boulevard.

Completion: 2024 - 2028

Cost: \$41 M

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

Scope: Replace water pipes and two pump stations which convey untreated water and 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: 2025 - 2028

Cost: \$30 million

K. 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

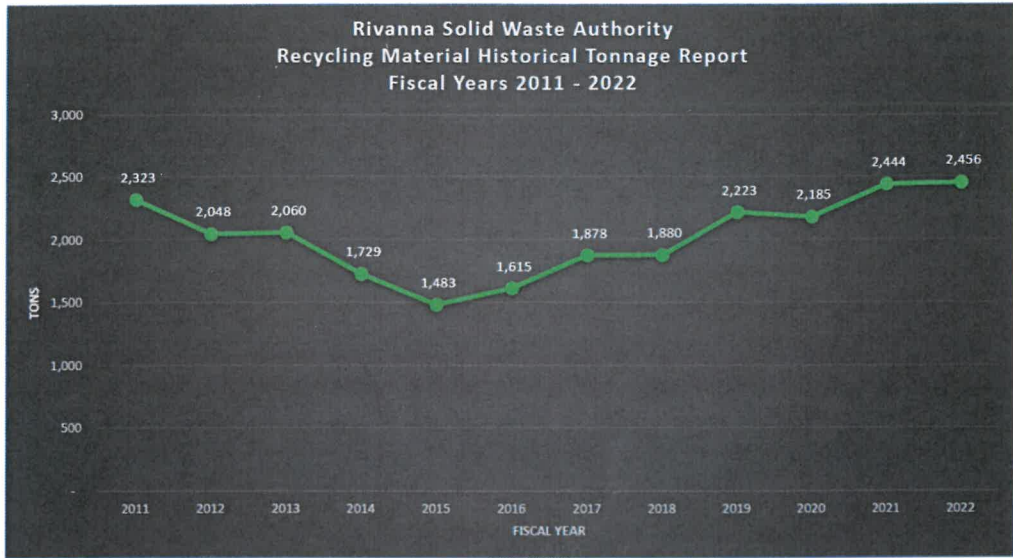
L. South Rivanna Reservoir to Ragged Mountain Reservoir Pipe

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.

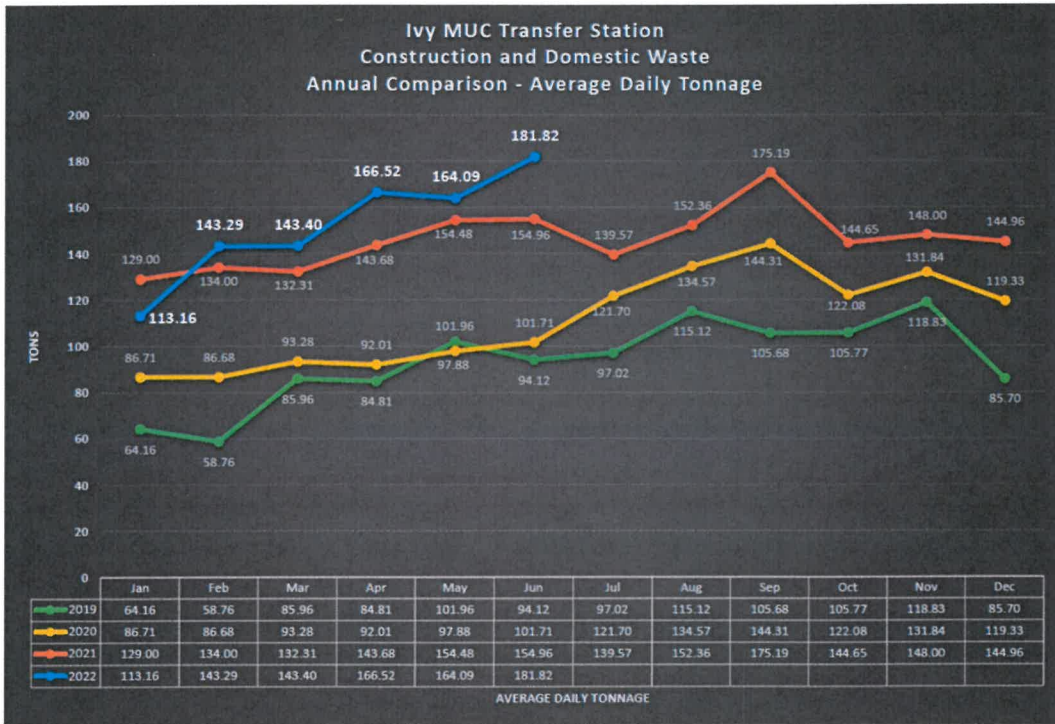
Completion: 2027 - 2033

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

5. The recycling program at the McIntire Recycling Center and the Paper Sort baling 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:



6. 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 daily refuse volume at the Ivy Transfer Station has increased from 94.12 tons per day in June 2019 to 181.82 tons per day in June 2022, as shown below:



Please let me know if you have any questions.

Sincerely,

William I. Mawyer, Jr., P.E.
Executive Director

cc: RSWA Board of Directors
RSWA Board of Directors