



April 1, 2025

The Honorable Albemarle County Board of Supervisors
401 McIntire Road
Charlottesville, VA 22902

Re: Quarterly Update – April

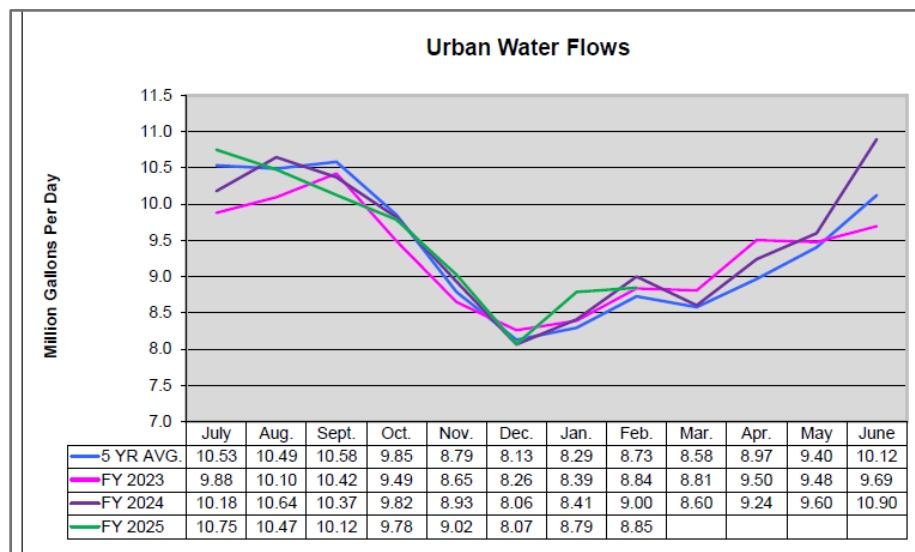
Supervisors:

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

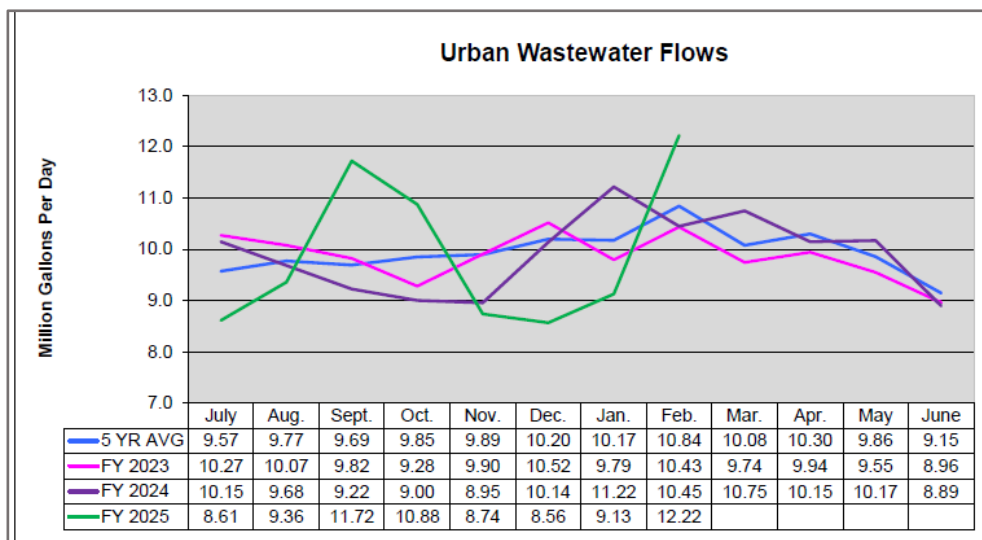
1. Drinking Water Supply:

- Our Urban reservoirs (Sugar Hollow, South Rivanna, Ragged Mountain) are 95% full. The water level in Sugar Hollow Reservoir was lowered five feet to support work being completed on the pneumatic piping which pressurizes the inflatable rubber bladder that sits on top of the concrete dam. The inflatable bladder controls the level of the upper five feet of water in the reservoir. When the work on the piping has been completed, the normal reservoir water level will be restored.
- Beaver Creek Reservoir (Crozet) is 100% full with about 500 million gallons of water available for use. Water demand in the Crozet area averaged 0.55 million gallons per day in February.
- Totier Creek Reservoir (Scottsville) is 100% full with about 155 million gallons of water available for use. Water demand in the Scottsville area averaged 42,000 gallons per day in February.

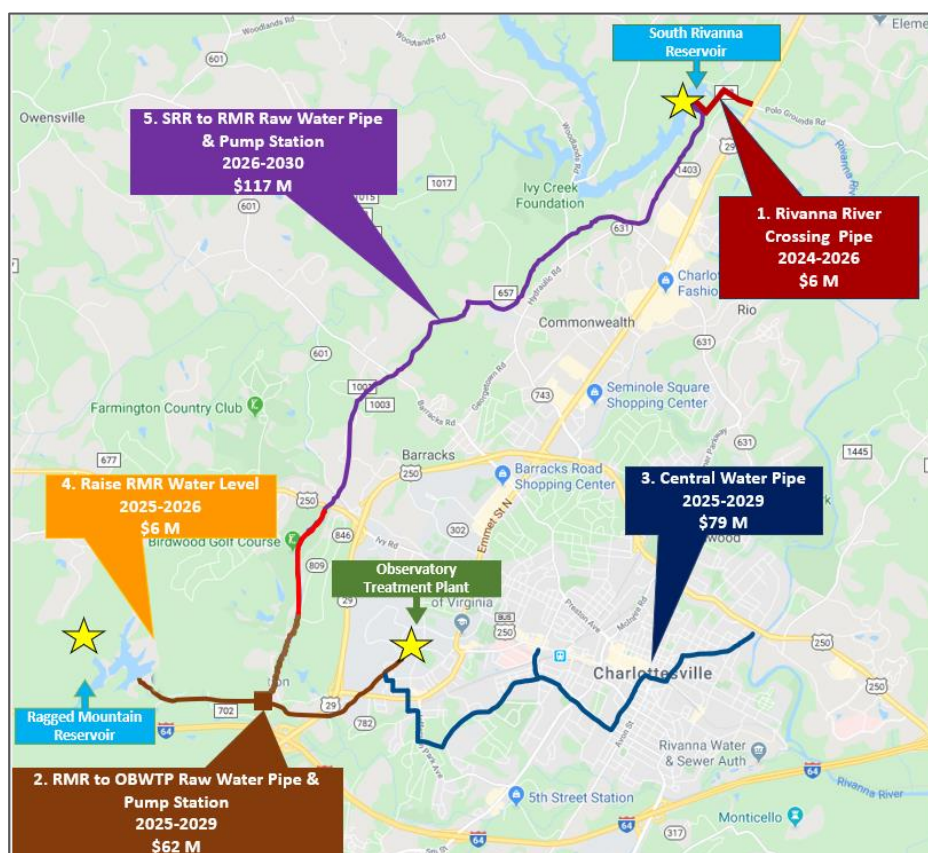
- The production of drinking water for the Urban area averaged 8.85 million gallons per day (MGD) in February 2025 (FY 2025), which is slightly more than the five-year average for December (8.73 MGD) as shown by the following graph:



3. Urban wastewater flow for February 2025 (12.22 MGD), including flows from Crozet but not from Scottsville, was above the five-year average for February (10.84 MGD), as shown by the graph below:



4. A general overview of significant current and future drinking water, wastewater and solid waste Capital Improvement Projects is provided below. Cost allocations between the Charlottesville Department of Utilities (Utility funds) and the Albemarle County Service Authority (ACSA), are identified for each project. Several of these projects are part of the community's Water Supply Plan established in 2012 to increase the capacity of our drinking water reservoirs and infrastructure, as shown by the map below.



- a. South Rivanna River Crossing
 - a. Scope: Provide a second pipe (24" diameter; 2900 feet long) to convey treated drinking water under the river using trenchless technology. The second pipe will provide a redundant water supply and increase capacity to serve the northern area of the Urban Water System.
 - b. Completion: January 2025 – January 2027
 - c. Cost: \$6.2 million: 100% ACSA
- b. Water Pipe and Pump Stations Replacement, Ragged Mountain Reservoir to Observatory Water Treatment Plant
 - a. Scope: Replace four miles of 36" ductile iron water pipe and two pumping stations which convey untreated water from the Ragged Mtn Reservoir to the Observatory WTP. These facilities have reached the end of their service lives and require replacement to reliably provide untreated water to the upgraded Observatory WTP. A project information meeting was held in January 2025 with neighbors bordering the work and others from the community.
 - b. Completion: February 2025 – June 2029
 - c. Cost: \$62 million: 52% ACSA / 48% City Utilities
- c. Urban Area "Central Water Pipe"
 - a. Scope: Provide large diameter piping (24" and 36" ductile iron) to strengthen and more efficiently distribute drinking water for the benefit of City and County residents and businesses. This five-mile-long piping project with two railroad crossings will extend from the Stadium Road area to the Long Street bridge near Pantops. The eastern end of the route was recently revised due to underground conflicts in E. High Street. Information meetings will be scheduled with neighborhoods before construction begins. The route includes Stadium Road, Piedmont Avenue, Price Avenue, Lewis Street, Jefferson Park Avenue, Cleveland Avenue, Cherry Avenue, Elliott Avenue, 6th Street SE, South Street, Avon Street, 10th Street, Little High Street, Meade Avenue, Fairway Avenue, and property near the river to the Long Street bridge.
 - b. Completion: July 2025 – July 2029
 - c. Cost: \$79 million: 52% ACSA / 48% City Utilities
- d. Red Hill Water Treatment Plant Upgrade
 - a. Scope: Provide additional building space to house additional water treatment equipment including a granular activated carbon filter.
 - b. Completion: January 2025 – June 2026
 - c. Cost: \$2 million: 100% ACSA, with partial grant from County
- e. Baling Facility, Ivy Solid Waste and Recycling Center
 - a. Scope: Replace the existing recycling materials baling facility which is located on leased property and has exceeded its service life. The new facility will include equipment to compress cardboard, mixed paper, and plastic products into separate bales before shipment to a receiving vendor.

- b. Completion: May 2025 – December 2026
 - c. Cost: \$6 million: 70% Albemarle County / 30% City
- f. Moore's Creek Structural and Concrete Rehabilitation
 - a. Scope: Repair of concrete basins and wastewater treatment facilities constructed in the late 1970's.
 - b. Completion: May 2025 – May 2027
 - c. Cost: \$15.5 million: 52% ACSA / 48% City Utilities
- g. Moore's Creek Upfits and Gravity Thickener Improvements
 - a. Scope: Renovate the Maintenance and Operations buildings along with repair of the sludge gravity thickener system and secondary clarifier influent valves.
 - b. Completion: May 2025 – May 2027
 - c. Cost: \$11.8 million: 52% ACSA / 48% City Utilities
- h. Crozet Wastewater Pump Stations Rehabilitation
 - a. Scope: Replace pumps, valves, and electrical gear in four pump stations constructed in the 1980's which convey wastewater from Crozet to the Moore's Creek Treatment Plant.
 - b. Completion: July 2025 – September 2027
 - c. Cost: \$12.3 million: 100% ACSA
- i. Moore's Creek Administration Building Renovation and Addition
 - a. Scope: Renovate the existing administration building constructed in the 1980's, including improvements to the Laboratory and Information Technology spaces. The project will also include a building addition to provide spaces for a community education area, staff currently housed in temporary trailers, as well as future staffing.
 - b. Completion: June 2025 – December 2027
 - c. Cost: \$27.6 million: 52% ACSA / 48% City Utilities
- j. Crozet Water Treatment Plant GAC Expansion
 - a. Scope: Provide additional building space and equipment to increase the water treatment capacity of the granular activated carbon filter system from 1 to 2 million gallons per day.
 - b. Completion: August 2025 – March 2027
 - c. Budget: \$10 million: 100% ACSA with VDH grant
- k. Ragged Mtn Reservoir Water Level Increase
 - a. Scope: Clearing of vegetation around the reservoir and minor modifications to the intake tower as necessary to increase the normal pool elevation 12 feet and provide 700 million gallons of additional water storage capacity in the reservoir.
 - b. Completion: September 2025 - September 2026
 - c. Cost: \$6 million: 80% ACSA / 20% City Utilities

l. South Rivanna Reservoir to Ragged Mountain Reservoir Pipe and Pump Station

a. Scope: Construct a 6.5 mile long, large diameter pipe (36”) and pump station to transfer untreated water between the South Rivanna and Ragged Mtn Reservoirs, as required by the community’s drinking water supply plan. Complete a new raw water intake structure and pump station at the South Rivanna Reservoir. This infrastructure will increase the water storage capacity of the Ragged Mtn Reservoir from 1.4 to 2.1 billion gallons.

b. Completion: February 2026 – December 2030

c. Cost: \$117 million: 80% ACSA / 20% City Utilities

m. Beaver Creek Dam, Pump Station and Piping Improvements

a. Scope: Replace the spillway, which protects the reservoir dam, along with the water pump station and piping which convey untreated water to the Crozet Water Treatment Plant.

b. Completion: May 2026 – January 2030

c. Cost: \$62 million: 100% ACSA with partial federal NRCS grant

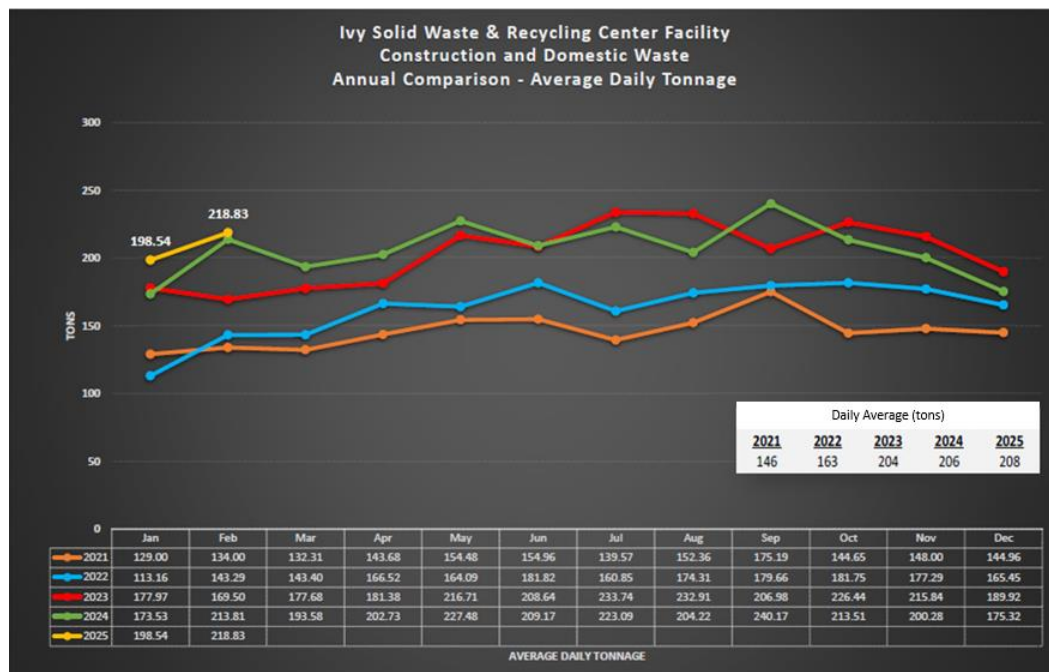
n. Upper Schenks Branch Wastewater Piping Replacement, Phase II

a. 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.

b. Completion: TBD

c. Cost: \$10 - 15 million: 100% City Utilities

5. Average daily refuse volume at the Ivy Transfer Station has increased from 146 tons per day in 2021 to 208 tons per day in 2024, as shown below. Our contract hauler is driving about 15 trailer loads of refuse to Henrico County for disposal each day, Monday – Friday.



6. Household Hazardous Waste and Special Collection Days

The Ivy Solid Waste and Recycling Center located at 4576 Dick Woods Road will be the site for our Spring 2025 Household Hazardous Waste and Special Collection Days. These events provide free disposal of select items for residents of Albemarle County, the City of Charlottesville, and the Town of Scottsville. Registration is not necessary. Additional information is available at: www.rivanna.org/hhw



Spring 2025 Special Collection Days
at Ivy Solid Waste & Recycling Center
4576 Dick Woods Road, Charlottesville
for Albemarle County & Charlottesville Residents

Household Hazardous Waste
Friday, April 25th 9am – 3pm
Saturday, April 26th 9am – 3pm

Special Collection Days
Saturday, May 3rd 8:30am – 4pm
Furniture/Mattresses
Saturday, May 10th 8:30am – 4pm
Household Appliances
Saturday, May 17th 8:30am – 4pm
Tires

More information: www.rivanna.org/hhw

Brought to you by the County of Albemarle, City of Charlottesville, and RSWA

Working to Protect and Improve Our Environment!

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