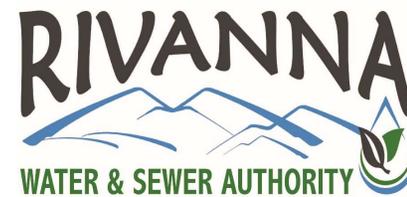


# Review of the Rivanna Drinking Water/Wastewater and Refuse /Recycling Programs



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PRESENTED TO THE CHARLOTTESVILLE CITY COUNCIL  
BY BILL MAWYER, P.E., EXECUTIVE DIRECTOR  
JANUARY 5, 2026



# Rivanna Water and Sewer Authority

~ Overview ~

- Created in 1972 by joint action of the Charlottesville City Council and Albemarle County Board of Supervisors
- To acquire, finance, construct and maintain major drinking water and wastewater infrastructure for the public utility customers of the City and the County
- Currently produce about 10 million gallons of drinking water each day to serve populations of about 50,000 in the City and 80,000 in the County. Treat similar amount of wastewater each day.
- 106 Employees
- \$64 M Annual Budget, 52% for bond debt payments
- \$560 M 5-year Capital Improvement Budget
- Funded by public drinking water and wastewater customer charges, no tax dollars



# Rivanna Water and Sewer Authority Board of Directors



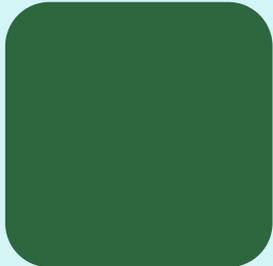
**Mike Gaffney**  
Board Chair



**Jeff Richardson, Vice-Chair**  
County Executive, Albemarle County



**Sam Sanders, Secretary-Treasurer**  
City Manager, Charlottesville



**Charlottesville City Council**



**Ann Mallek, Supervisor**  
Albemarle County Board of Supervisors



**Lauren Hildebrand**  
Director of Utilities  
City of Charlottesville



**Quin Lunsford**  
Executive Director  
Albemarle County Service Authority

# RWSA provides Wholesale Drinking Water and Wastewater Treatment for Two Customers

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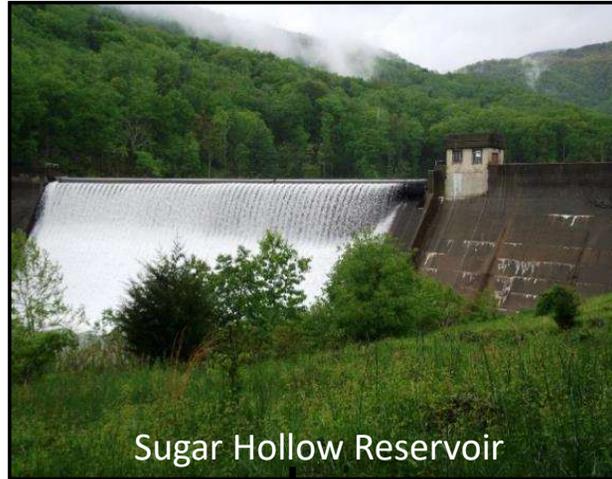
City of Charlottesville Department of Utilities

Albemarle County Service Authority





South Fork Rivanna Reservoir



Sugar Hollow Reservoir



Ragged Mountain Reservoir



Beaver Creek Reservoir - Crozet



Totier Creek Reservoir - Scottsville

Urban  
Area  
3.3 Billion Gallons

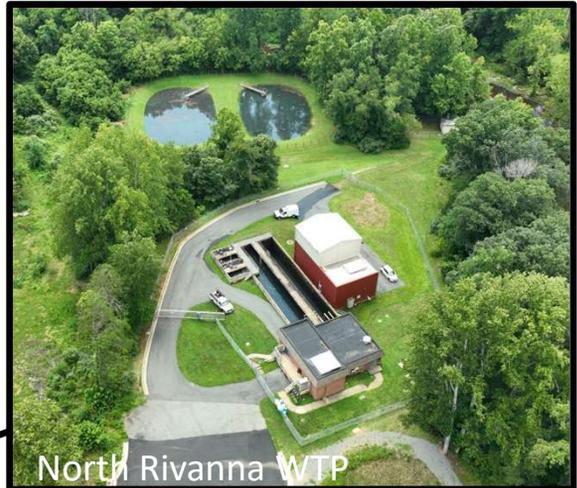
# 5 Water Supply Reservoirs



Observatory WTP



South Rivanna WTP



North Rivanna WTP

Urban Area



Scottsville WTP



Red Hill WTP



Crozet WTP

# 6 Water Treatment Plants



Moores Creek WWTB  
Urban Area



Scottsville WWTB



Stone Robinson WWTB



Glenmore WWTB

# 4 Wastewater Treatment Plants

# Drinking Water & Wastewater Laboratory

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**Monthly reports submitted to Virginia Department of Health include the following:**

- Daily volume of water pumped in and out of each water plant
- Daily chemical dosage at each water plant (coagulant, lime, powder activated carbon, polymer, corrosion inhibitor, chlorine, and fluoride)
- Filter turbidity, water temperatures (raw and finished), and pH reports
- Finished water chlorine residuals and disinfection calculations
- Total Coliform sample results for all 4 water systems
- Safe Drinking Water Act posted to EPA central data exchange website



# Granular Activated Carbon Filters

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*to Remove  
Contaminants from  
Drinking Water*



# Biological Wastewater Treatment

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*enhanced  
nutrient removal  
by microbes in  
aeration basins*



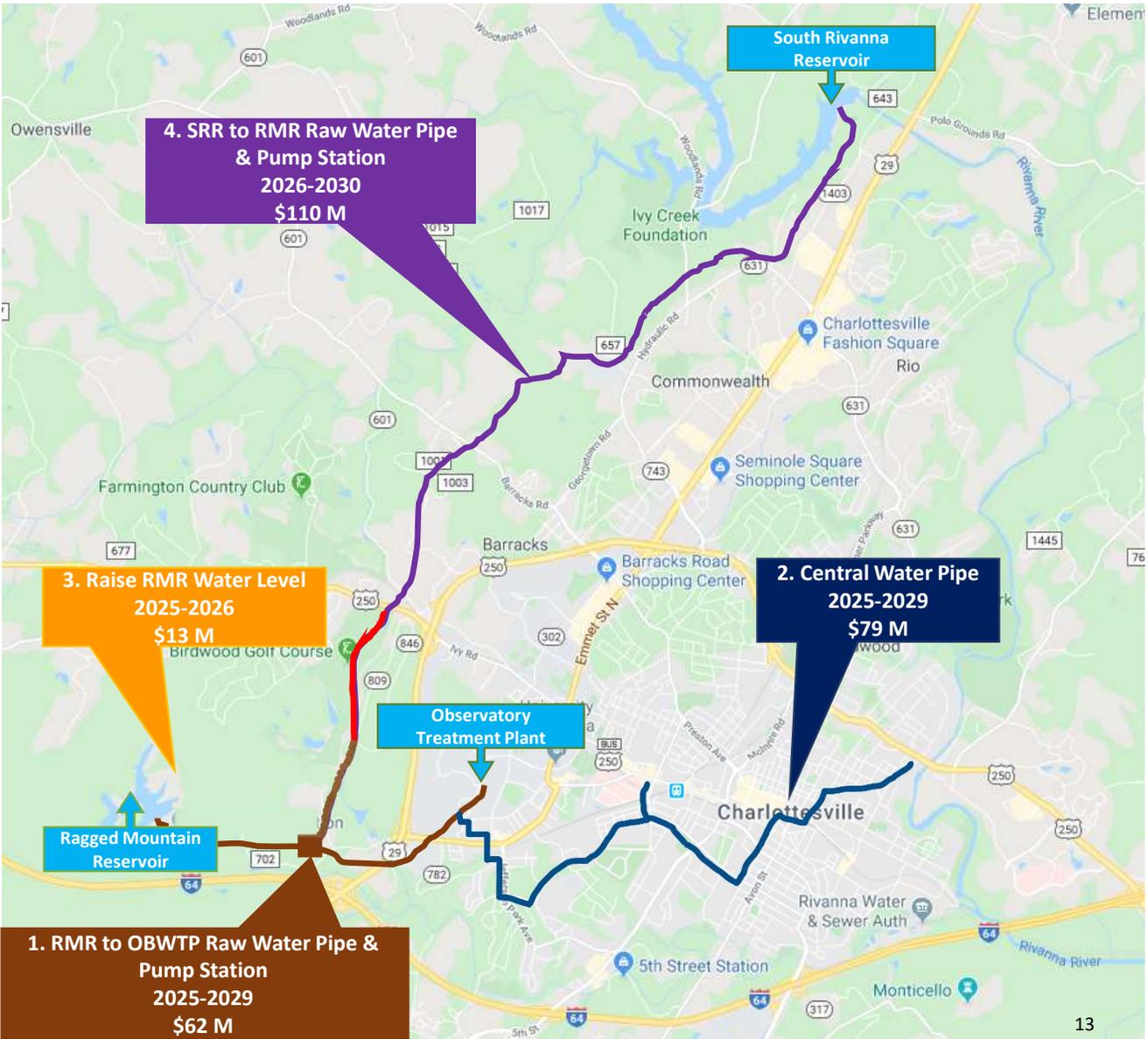
# Dewatered Biosolids

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*Moore's Creek generated  
approx. 15,000 tons of  
biosolids in 2024.  
Hauled to Waverly, Va  
daily*

# Outfall to Moores Creek





# Water Supply Projects

(January 1, 2026)

	Total Project Cost
<b>1. RMR to OBWTP Raw Water Pipe &amp; Pump Station</b> 2025-2029: <i>Awarded Oct 2024</i> <i>Pipe: 80% ACSA / 20% City</i> <i>PS: 72% ACSA / 28% City</i>	<b>\$62 M</b>
<b>2. Central Water Pipe</b> 2025-2029: <i>Phase 1: Awarded June 2025: \$58 M</i> <i>Phase 2: Award 2026: \$21M</i> 52% ACSA / 48% City	<b>\$79 M</b>
<b>3. Raise RMR Water Level</b> 2025-2026: <i>Awarded June 2025</i> 80% ACSA / 20% City	<b>\$13 M</b>
<b>4. SRR to RMR Raw Water Pipe</b> 2026-2030: <i>Awarded Dec 2025</i> 80% ACSA / 20% City <i>(incl Birdwood WL: 2019; \$3 M; 1 mile)</i>	<b>\$110 M</b>
<b>ACSA</b> \$187 M <b>City Utilities</b> \$77 M	<b>\$264 M</b>

# Central Water Line Project



Lewis Street 10/27/2025



## CENTRAL WATER LINE PROJECT PHASING MAP

- PHASE 1 – Hereford Drive to E. Market Street
- PHASE 2 – E. Market Street to E. High Street
- CWL Connection to City Water Pipe

- Phase1 (from west to east):**
  - Stadium Road
  - Piedmont Avenue
  - Price Avenue
  - Lewis Street (to railroad)
  - Jefferson Park Avenue
  - Cleveland Avenue
  - Cherry Avenue
  - Elliot Avenue
  - 6th Street SE
  - Avon Street (to railroad)
  - E Water Street
  - 10th Street NE
- Phase2 (from west to east):**
  - 10th Street NE
  - Little High Street
  - Meade Avenue
  - Fairway Avenue (to City property)
  - E High Street to Long Street

- Improve water flow, pressure, redundancy in Urban System  
5 miles of 24 & 30” pipe; 2 crossings under railroad
- Construction for Phase 1: Oct 2025 – Dec 2029

# Rivanna Solid Waste Authority

~ Overview ~

- Created in **1990** by joint action of the Charlottesville City Council and Albemarle County Board of Supervisors
- to acquire, finance, design, construct, operate, and maintain facilities **to maintain a regional refuse disposal system** in compliance with regulatory mandates for **reduction, recycling** and disposal of solid waste.
- **130 M** pounds of refuse transferred to a private landfill in Henrico County in FY 24
- **20 M** pounds of waste diverted for reuse or recycling in FY 24
- **28** Employees
- **\$10 M** Budget, **funded by disposal charges + tax allocations** from Albemarle County and the City of Charlottesville



# Services we provide for our community



Refuse Disposal



Post-closure Landfill Care



Ivy SWRC

Recycling



McIntire Recycling



Southern Albemarle Convenience Center



Transfer Station

Mulch



Vegetative Debris



Ivy Convenience Center



Paint Collection

# Questions?

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