



Board of Directors Meeting

June 24, 2025

2:15pm

BOARD OF DIRECTORS

Regular Meeting of the Board of Directors of the Rivanna Water & Sewer Authority

DATE: JUNE 24, 2025

LOCATION: Rivanna Administration Building (2nd Floor Conference Room),
695 Moores Creek Lane, Charlottesville, VA 22902

TIME: 2:15 p.m.

AGENDA

1. CALL TO ORDER

2. AGENDA APPROVAL

3. MINUTES OF PREVIOUS BOARD MEETING ON MAY 27, 2025

4. RECOGNITION

a. Resolution of Appreciation for Gregory L. Marrs, Maintenance Manager

5. EXECUTIVE DIRECTOR'S REPORT

6. ITEMS FROM THE PUBLIC

Matters Not Listed for Public Hearing on the Agenda

7. RESPONSES TO PUBLIC COMMENTS

8. CONSENT AGENDA

a. Staff Report on Finance

b. Staff Report on Operations

c. Staff Report on CIP Projects

d. Staff Report on Administration and Communications

e. Staff Report on Wholesale Metering

f. Staff Report on Drought Monitoring

- g. Approval of Engineering Services Work Authorization - Central Water Line Project, Phase I
Construction Administration Services - Michael Baker International*

9. OTHER BUSINESS

- a. Presentation and Consider Vote to Approve: Award of Construction Contract for the Central Water Line Project, Phase One – Sagres Construction
Michelle Simpson, P.E., Senior Civil Engineer*
- b. Presentation and Consider Vote to Approve: Award of Construction Contract for the Ragged Mountain Reservoir, Raise Normal Pool Level Project – Faulconer Construction
Austin Marrs, P.E., Senior Civil Engineer*
- c. Presentation: Northern Area Utilities Master Plan
Jennifer Whitaker, P.E., Director of Engineering and Maintenance Division*
- d. Presentation: Water Treatment Facilities and Staffing Overview
Daniel Campbell, Director of Operations and Environmental Services Division*

10. OTHER ITEMS FROM BOARD/STAFF NOT ON THE AGENDA

11. CLOSED MEETING

12. ADJOURNMENT

GUIDELINES FOR PUBLIC COMMENT AT RIVANNA BOARD OF DIRECTORS MEETINGS

If you wish to address the Rivanna Board of Directors during the time allocated for public comment, please raise your hand or stand when the Chairman asks for public comments.

Members of the public requesting to speak will be recognized during the specific time designated on the meeting agenda for “Items From The Public, Matters Not Listed for Public Hearing on the Agenda.” Each person will be allowed to speak for up to three minutes. When two or more individuals are present from the same group, it is recommended that the group designate a spokesperson to present its comments to the Board and the designated speaker can ask other members of the group to be recognized by raising their hand or standing. Each spokesperson for a group will be allowed to speak for up to five minutes.

During public hearings, the Board will attempt to hear all members of the public who wish to speak on a subject, but it must be recognized that on rare occasion comments may have to be limited because of time constraints. If a previous speaker has articulated your position, it is recommended that you not fully repeat the comments and instead advise the Board of your agreement. The time allocated for speakers at public hearings are the same as for regular Board meetings, although the Board can allow exceptions at its discretion.

Speakers should keep in mind that Board of Directors meetings are formal proceedings and all comments are recorded on tape. For that reason, speakers are requested to speak from the podium and wait to be recognized by the Chairman. In order to give all speakers proper respect and courtesy, the Board requests that speakers follow the following guidelines:

- Wait at your seat until recognized by the Chairman.
- Come forward and state your full name and address and your organizational affiliation if speaking for a group;
- Address your comments to the Board as a whole;
- State your position clearly and succinctly and give facts and data to support your position;
- Summarize your key points and provide the Board with a written statement, or supporting rationale, when possible;
- If you represent a group, you may ask others at the meeting to be recognized by raising their hand or standing;
- Be respectful and civil in all interactions at Board meetings;
- The Board may ask speakers questions or seek clarification, but recognize that Board meetings are not a forum for public debate; Board Members will not recognize comments made from the audience and ask that members of the audience not interrupt the comments of speakers and remain silent while others are speaking so that other members in the audience can hear the speaker;
- The Board will have the opportunity to address public comments after the public comment session has been closed;
- At the request of the Chairman, the Executive Director may address public comments after the session has been closed as well; and
- As appropriate, staff will research questions by the public and respond through a report back to the Board at the next regular meeting of the full Board. It is suggested that citizens who have questions for the Board or staff submit those questions in advance of the meeting to permit the opportunity for some research before the meeting.

The agendas of Board meetings, and supporting materials, are available from the RWSA/RSWA Administration office upon request or can be viewed on the Rivanna website.

Rev. September 7, 2022



RWSA BOARD OF DIRECTORS
Minutes of Regular Meeting
May 27, 2025

A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on Tuesday, May 27, 2025 at 2:32 p.m. at the Rivanna Administration Building, (2nd Floor Conference Room), 695 Moores Creek Lane, Charlottesville, VA 22902.

Board Members Present: Mike Gaffney, Sam Sanders, Ann Mallek, Brian Pinkston, Quin Lunsford, Lauren Hildebrand.

Board Members Absent: Jeff Richardson (Ann E. Wall attended as Alternate for Mr. Richardson).

Rivanna Staff Present: Bill Mawyer, David Tungate, Lonnie Wood, Jennifer Whitaker, Daniel Campbell, Michelle Simpson, Austin Marrs, Betsy Nemeth, Westley Kern, Leah Beard, Deborah Anama, Jacob Woodson.

Attorney(s) Present: Valerie Long

1. CALL TO ORDER

Mr. Gaffney convened the May 27, 2025 regular meeting of the Board of Directors of the Rivanna Water and Sewer Authority at 2:32 p.m.

2. AGENDA APPROVAL

Mr. Mawyer stated that they had amended the agenda. He stated that they had added a closed session at the end of this meeting.

Ms. Mallek moved that the Board of Supervisors adopt the agenda as amended. Mr. Pinkston seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)

3. MINUTES OF PREVIOUS BOARD MEETING ON APRIL 22, 2025

Ms. Mallek moved that the Board of Supervisors adopt the minutes for the April 22, 2025 meeting. Mr. Pinkston seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)

4. RECOGNITIONS

There were none.

5. EXECUTIVE DIRECTOR'S REPORT

47 Mr. Mawyer stated that this was a significant day for staff and the Board as they finalized the FY
48 2026 budget after months of work. He stated that they had several generational projects moving
49 forward in the new budget.

50
51 Mr. Mawyer stated that he would like to take a moment to congratulate some of their staff
52 members. He stated that Dylan Schweickert, who had been with them for two years, was selected
53 as our new Water Department Relief Operator and is a licensed Class 1 Water Operator.

54
55 Mr. Mawyer stated that Hayden Johnson, a mechanic with about six months of experience, had
56 obtained his commercial driver's license, which was essential for operating their large trucks and
57 heavy equipment. He stated that Travis Granger, who had been with them for four years, had
58 passed his Class 1 Water Operator license, and they were pleased to recognize his achievement.
59 He stated that Steve Minnis, with 32 years of service, had completed a Maintenance Mechanic
60 Apprenticeship program to earn his Journeyman's card. He stated that Josh Powell, also in their
61 Maintenance Department with 13 years of service, had achieved the same Journeyman's card.

62
63 Mr. Mawyer stated that they were also pleased to report that the Rivanna Pump Station was
64 substantially restored and back in operation. He stated that the new pumps had been installed and
65 tested and had performed flawlessly during a recent significant rain event. He stated that staff
66 had worked tirelessly to monitor the pumps and were pleased with the results. He stated that as
67 they moved forward, they were dismantling the temporary piping and pumping equipment and
68 coordinating with the insurance company to finalize cost reimbursement.

69
70 Mr. Mawyer stated that they were planning to renovate the Administration building, which
71 would include a new temporary trailer suite with offices, cubicles, and restrooms for staff during
72 construction. He stated that the trailer suite would be installed on the compost road near the
73 Engineering Department trailers. He stated that they were excited to get started on this project in
74 the next couple of months. He stated that he had initially predicted that their next Board meeting
75 would be held at the Albemarle County Service Authority facility, but he had received an update
76 that suggested they may need to adjust their plans. He stated that he would keep the Board
77 informed of any changes to their meeting schedule.

78
79 Mr. Pinkston asked if it was one trailer or a set of modular units.

80
81 Mr. Mawyer stated that these were modular units that could be assembled and purchased in any
82 quantity. He stated they did not purchase them. He stated that the construction contractor was
83 providing them. He stated that this arrangement provided the incentive to timely complete the
84 construction and allow staff to transition out of the trailers and back into the building.

85
86 He stated that they had discussed the Central Water Line project at length, and earlier this month,
87 they had received five competitive bids ranging from \$39.7 million to \$68.5 million. He stated
88 that they were currently evaluating these bids and anticipated making a recommendation to the
89 Board in June for an award. He stated that this was Phase 1, which accounted for approximately
90 75% of the total project. He stated that they were working with the City to determine the exact
91 location of the pipe within the floodplain area on City property, and then they would proceed
92 with Phase 2 bidding and awarding.

93
94 Mr. Pinkston asked for clarification about Phase 1. He asked if the proposed bids were within the
95 projected budget.

96
97 Mr. Mawyer stated that they were within the \$79 million budget. He stated that if the low bid
98 was accepted, their total budget would be approximately \$68 million. He stated that if the second
99 low bid was accepted, their total budget would be around \$75 million, which was still within the
100 \$79 million they had previously estimated.

101
102 Mr. Pinkston asked if they were assessing the credibility of the bids.

103
104 Mr. Mawyer stated they had experience requirements in the contract, and they were evaluating
105 whether the low bidder met those experience requirements.

106
107 Ms. Mallek asked if there was a specific staff person who was reporting to the Authority every
108 day on the job to oversee as part of the implementation.

109
110 Mr. Mawyer stated they had a project manager assigned, an inspector, and an inspector
111 supervisor. He stated that staff were assigned to the projects. He stated that in their budget
112 request, they were requesting an additional inspector to help them monitor the CIP projects. He
113 stated that they also received a bid for the Ragged Mountain Reservoir project to raise the pool
114 level by an additional 700 million gallons. He stated that they received only one bid from
115 Faulconer Construction, which was slightly over \$12 million. He stated that as a result, they were
116 currently negotiating with Faulconer to see if they could reduce the price. He stated that the
117 project involved grading around the reservoir, as well as repairs to the intake tower and dam toe
118 drains.

119
120 Mr. Pinkston asked if the lack of bids was because of how much work was going on in the area.

121
122 Mr. Mawyer stated that the project scope was too big for small companies and too small for the
123 larger companies. He stated that they were working with the contractor to come to a more
124 reasonable cost. He stated that they were limited by the endangered Northern Long-eared Bat
125 season, as they could only clear trees from November 15th to March 31st.

126
127 Mr. Lunsford asked what the projected budget was.

128
129 Mr. Mawyer stated that the original estimate was \$6 million, although their engineer's most
130 recent estimate was closer to \$7.5 million.

131
132 Mr. Gaffney asked if the cleared trees could be sold.

133
134 Austin Marrs, Senior Civil Engineer, stated that Faulconer Construction did not include a line-
135 item in the bid that indicated they saw value in harvesting and selling the trees. He stated that the
136 contractor would work with the Authority to review the trees and re-evaluate whether they could
137 be sold.

139 Ms. Mallek asked if the current plan was to burn everything. Mr. Mawyer responded that
140 burning was the current plan, but an option to harvest the trees would be explored with Faulconer
141 Construction.

142
143 Mr. Mawyer stated that the Ragged Mountain Reservoir to Observatory Water Treatment Plant
144 Water Line and Pump Station project was underway. This project was awarded earlier this year
145 to Thalle Construction. He stated that they would begin installation of piping in Hereford Drive
146 in June, taking advantage of the University's summer break as a strategic opportunity. He stated
147 that a detour would be in placed on Stadium Road to Alderman Road and McCormick Road,
148 allowing access to the Observatory WTP. He stated that the installation would occur behind
149 Hereford Residential College.

150
151 Mr. Mawyer stated that they had previously attempted to sell 1706 Buck Mountain Road, a 2.18-
152 acre site, but they had received no bids, with a minimum bid requirement of \$100,000. He stated
153 they had demolished and removed the house, which was a primary concern due to liability and
154 maintenance issues. He stated that for now, they would hold onto the property until they felt that
155 the bidding environment improved.

156
157 Ms. Mallek asked about coverage for the exposed dirt on the parcel.

158
159 Mr. Mawyer stated they would have erosion control measures installed immediately.

160
161 Ms. Mallek stated that it was a steep slope to Buck Mountain Road. She stated they should
162 address it as soon as possible.

163
164 Mr. Mawyer stated that May 31 was National Dam Safety Awareness Day, and they had an
165 extensive dam management program. He stated that they had 10 dams, with Jennifer Whitaker,
166 Director of Engineering, serving as their designated dam engineer, and Victoria Fort, Senior
167 Civil Engineer, working with her. He stated that these requirements fell under the state's
168 Department of Conservation and Recreation, which regulated 2,500 dams across the state. He
169 stated that the Army Corps noted that the average age of dams in VA was 76 years. He stated
170 that looking ahead, dam restoration would be a significant budget item.

171
172 Mr. Mawyer stated that the South Rivanna River crossing, which involved boring under the
173 Rivanna River near the treatment plant at Walmart, was an exciting project. He stated that to
174 summarize, the red line on the slide indicated the path they were taking, with Michelle Simpson
175 as their engineer on the site. He stated that they recently had had a good tour of the project. He
176 stated that Faulconer Construction was the contractor, and they had brought in a specialty
177 drilling contractor.

178
179 Mr. Mawyer stated that the machine used on the Rio Mills side was where drilling began, and it
180 successfully completed the process to reach the other side of the river. He stated that the process
181 involved reaming back and forth before pulling in a large plastic pipe to provide a second pipe,
182 adding resiliency and redundancy to help deliver drinking water to the northern part of the
183 County. He stated that this directional drill method prevented any wetland mitigation issues, and
184 avoided many of the associated permitting issues. He stated that being located below the river,

the pipe was less susceptible to damage from flooding or tree branches dislodged by a storm.

Mr. Mawyer stated that they had recently hosted their seventh annual Utility Managers Conference, and attendees came from Bedford, Upper Occoquan, Augusta, Louisa, Charlottesville, Amherst, and Waynesboro. He stated that this event provided an opportunity for them to network with other utilities in their area, and that collaboration was already paying dividends. He stated that the Louisa County Water Authority had recently experienced two boil water notices due to water line breaks. He stated that they were able to contact Louisa and offer the services of our laboratory, which Louisa utilized to conduct bacteria testing to determine the safety of water. He stated that their networking efforts had led to a positive outcome.

Mr. Mawyer stated that they had staff at the Rivanna River Fest, where their Communications Coordinator, Westley Kern, created a display that showcased the journey of dirty water from the river to the water treatment plant and the clean water that came out. He stated they had provided tours of the Moores Creek facility for the Peabody School and Blue Ridge School, as well as a tour at the South Rivanna Water Treatment Plant with Charlottesville utility staff, an ACSA board member and staff, and Mr. Gaffney.

Mr. Mawyer stated that Jennifer Whitaker, Director of Engineering and Maintenance, had presented the Northern Area Utilities Master Plan to LUEPC. He stated that they would be presenting the same plan to the Authority next month. He stated that Deputy Executive Director, Dave Tungate had accompanied the County Leadership Team to Scottsville and briefed the Scottsville Town Council on the water and wastewater facilities in Scottsville, as well as the solid waste operations at the Southern Albemarle Convenience Center.

Mr. Mawyer stated that Ms. Whitaker also served as RWSA's representative to the Regional Water Supply Committee, and she had recently updated City Council on the progress of this water planning initiative. He stated that they were in the Middle James Region 1 with five other counties, and they had five years to develop a Regional Water Supply Plan. He stated that thru their utility networking, Harrisonburg Water had recently faced challenges during a recent storm when they experienced muddy water in their two water supplies, Dry and North Rivers. He stated that the Authority had offered assistance.

Mr. Mawyer stated that one point he would like to make is that they treated drinking water 24/7, 365 days a year. He stated that the quality of drinking water for customers remained the same, regardless of whether it was muddy or clear before the raw water was treated. He stated that to the customers, there was no impact on the quality of the water at their faucet. He stated that it was a testament to their facilities, the Board, and their staff, who were trained to handle treatment requirements under all conditions. He stated that they commended their staff for their excellent job in adjusting the chemicals and equipment to effectively treat water under all circumstances.

Mr. Pinkston asked what happened with Harrisonburg Water.

Mr. Mawyer stated they were getting too much sediment from the muddy water into their filtering system. He stated that they had previously assisted them a few months prior by

providing a polymer to help alleviate gumming issues with their equipment and sediment management. He stated that using this solution, Harrisonburg was able to overcome their clogging problem.

Ms. Mallek asked if there was anything to do to remove the debris accumulating on the surface of the water at the reservoir dams.

Mr. Mawyer stated that typically, when another significant storm hit, it washed the debris over the dam. He stated that they generally relied on natural processes to wash the logs through, although they did have a contractor who occasionally cleared the debris for them.

Mr. Mawyer stated that another achievement they would celebrate under their Optimization and Resiliency Strategic Plan priority was that Lab Director, Patricia Defibaugh, acquired new equipment to improve their wastewater nitrogen treatment capabilities. He stated that this new equipment saved them approximately \$10,000 annually. He stated that Ms. Defibaugh also obtained state certification for this equipment, and they were currently the only lab in the state authorized to use it for this testing method.

6. ITEMS FROM THE PUBLIC

Brandon Duriez, Vice President of Snyder Environmental Services, stated they were fortunate enough to be the apparent low bidder on the Central Water Line project. He stated the project manager, Lisa Miller, also worked extensively on this estimate, so they wanted to take the time to introduce themselves. He stated they were working with the Authority's engineer, Michael Baker Engineering, and Mr. Mawyer, in reviewing the qualifications and specifications.

Mr. Duriez stated he would like to personally introduce himself and provide a brief overview of the company he works for. He stated that Snyder Environmental Services has been in business for almost 50 years, and they were a mid-sized company. He stated they were qualified for this job, having completed large projects in Morgantown, including work at Shepherd University, and providing extensive services to Frederick Water. He stated the Morgantown box culvert project weighed approximately 40,000 pounds and was located near the Dominion Post parking lot.

Mr. Duriez stated that the company had extensive experience in this type of urban work, having installed over half a million feet of pipe in Greater Johnstown, Pennsylvania, which had faced significant flooding issues. He stated they had successfully completed projects in a 20-foot deep downtown business district, involving gas, water, and electric utilities. He stated that while there were challenges associated with this job, they were excited to take them on and provide a quality product.

Mr. Duriez stated their references spoke for themselves, and he encouraged everyone to contact them. He stated the company prided itself on its service and professionalism, and they treated their customers with respect. He stated they can expect quality work and a fair price. He stated that their bid was \$7.75 million less than the next best option, and they were fully bonded.

Next from public comment was Dede Smith, who stated that she had a couple of questions for Mr. Mawyer regarding the Central Water Line, and a couple of simple questions for Board members. She stated that she recently spoke with a few Councilors about whether they had known about the change in plans for the Central Water Line, specifically the excavation of rock and the route through the Little High neighborhood. She stated that they were unaware of those changes; however, they were aware of the price increase.

Ms. Smith stated that her question to Mr. Mawyer was, had he presented this revised plan to City Council since their initial meeting in June 2022 about these changes? Additionally, had Rivanna had a formal presentation with a PowerPoint and graphics to explain the changes in detail. She stated that she may have missed it, but she would appreciate knowing if it occurred and, if so, when.

Ms. Smith stated that likewise, she was curious to know if Rivanna had contacted the households, estimated to be 75 to 100 along the four miles of excavation, who may have their utilities temporarily disrupted as part of this project? She asked if they had contacted these households, and had they also reached out to the households newly impacted by the change in route through Little High neighborhood? She stated that she would be interested in knowing if any presentations were made and, if so, if she could obtain copies of them.

Ms. Smith stated that regarding liability questions, she would like to know if the contract held the contractor liable for the repair of City utilities that may be damaged during excavation or construction, and who was liable for any damage to households themselves due to excavation or construction? She stated that they were an old City, and homeowners typically had the responsibility for the laterals between the street and the home. She asked who would be liable for repairs if something were to happen to those as part of the construction.

Ms. Smith stated that additionally, to the Board members, she would like to note that public financial disclosure was required for voting on a half-billion-dollar Capital Improvement Plan (CIP) that would significantly impact rates. She stated that she would appreciate it if they could provide her with their personal financial disclosure regarding their utility bills. She stated that specifically, she would like to know if Board members personally paid a City utility bill, an Albemarle County Service Authority (ACSA) utility bill, or neither.

7. RESPONSES TO PUBLIC COMMENTS

Mr. Mawyer stated that they had discussed the potential change to the Little High Street area on this Board multiple times. He explained that they had had to reroute the pipeline due to the presence of too many underground utilities in East High Street, and they had been working with the City's Utilities staff to implement this change. He stated that although they had not had a specific meeting with City Council on this matter, they had been in communication with City staff regarding the exact location of the pipe. He stated that Ms. Hildebrand had been managing this process.

Mr. Mawyer stated that generally, their Board was aware of the change to the last 25% of the pipeline. He stated that they had included this change in their CIP presentation from the spring.

He noted that they also had contacted households along the planned route in 2022 and 2023 to inform them of the project. He stated that they stated that they would have future meetings to discuss this project, so as they awarded a contractor and began construction, they would re-engage with the neighborhoods along the route to provide more information and updates.

Mr. Mawyer stated that they would have another phase of their communication plan for the residents along the route. He stated that to date, they had not sent a specific communication to the proposed houses on the Little High Street route, but they would follow the same process as they did with the other households along Phase 1, and notify them as soon as they finalized the details. He stated that regarding the contractor's responsibility for repairs to damaged utilities, generally, contractors were responsible for repairing any damage they caused to the water or sewer lines along the pipeline path. *(Clarification – We later verified that we sent a letter to residents along the new route in July 2024, about the new route for the eastern end of the waterline thru their neighborhoods and provided a map with the anticipated alignment shown. This information and map was also included in several Quarterly Update Reports to City Council).*

Mr. Mawyer explained that Rivanna required contractors to protect the utilities that served the houses while they were installing the pipe. He stated that this included house laterals that were installed in or near the street. He stated that the contractor would not be working in the yards. He stated that he was unsure of Ms. Smith's question regarding personal water bills from the City or ACSA, as he did not have a bill from either entity.

Ms. Mallek inquired if vibrations traveling up the laterals would pose any issue.

Mr. Mawyer stated that it was possible; these house laterals were old. He stated that there was no doubt that they would be a challenge to protect, and they may need to replace parts of them over their trench if they failed. He stated that some allegedly were Orangeburg pipe, which was often considered a fragile material, similar to paper pipe. He asked Ms. Hildebrand if she had any information regarding that issue.

Ms. Hildebrand replied that she was unsure if there was any verified Orangeburg pipe in those sections, but it was possible they could be terra cotta.

Mr. Mawyer stated that it was an older area with older utilities, which may have been deteriorating to some extent. He reiterated that their contractor would do their best to protect these utilities during the process, and they would repair any items that broke or came apart.

Ms. Mallek asked Mr. Gaffney if they should answer the question regarding whether Board members were ratepayers or not.

Mr. Gaffney stated that he did not think it had much validity here. He stated that they were all responsible. He stated that if Ms. Mallek wanted to answer the question, she may.

Ms. Mallek stated that 14,000 out of the 19,000 people she represented are water payers, although she personally was not one of them.

369
370 **8. CONSENT AGENDA**
371

- 372 *a. Staff Report on Finance*
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374 *b. Staff Report on Operations*
375
376 *c. Staff Report on CIP Projects*
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378 *d. Staff Report on Administration and Communications*
379
380 *e. Staff Report on Wholesale Metering*
381
382 *f. Staff Report on Drought Monitoring*
383

384 **Mr. Pinkston moved that the Board of Supervisors approve the consent agenda. Ms.**
385 **Mallek seconded the motion, which carried unanimously (6-0). (Mr. Richardson was**
386 **absent)**
387

388 **9. OTHER BUSINESS**
389

- 390 *a. Presentation and Consider Vote to Approve: FY2025-2026 Personnel Management Plan*
391 *Update*
392

393 Leah Beard, Human Resources Manager, stated that she would present some updates to their
394 Personnel Management Plan, effective July 1, 2025. She stated that they were requesting a
395 change due to their compensation study, which she presented in April. She stated that as part of
396 their strategic plan and workforce development priority, they aimed to align our benefits with
397 community and peer organizations. She stated that they evaluated local peer organizations'
398 offerings and made the following changes.
399

400 Ms. Beard stated that first, they would like to amend their sick time rule. She explained that
401 currently, employees receive 3.69 hours of sick time per two-week pay period, equivalent to
402 approximately 12 days per year. She stated that they would like to increase this to 4.62 hours of
403 sick time accrued per pay period, equivalent to approximately 15 days per year.
404

405 She added that they would also like to remove the cap on sick time carryover for hybrid plan
406 members, as Virginia Retirement System (VRS) Plan 1 and Plan 2 members did not have this
407 cap. She stated that it would maintain consistency in the benefits they offer to employees.
408

409 Ms. Beard stated that they would also like to add paid parental leave, offering up to 80 hours of
410 paid leave to employees. She stated that this would be used in conjunction with short-term
411 disability insurance and accrued sick time, with employees required to use it within three months
412 of the child's birth or adoption event.
413

414 Ms. Beard stated that next, they would like to modify the retirement payout process. She stated

that currently, they proceeded with the Virginia Retirement System process for employees interested in retiring. She stated that however, they offered additional incentives, including a sick leave accrual payout. She stated that they would like to offer this to hybrid plan employees instead of the current retirement service bonus. She stated that this would mean paying a percentage of accrued sick time to hybrid plan members, with a total maximum payout of \$6,500, rather than the current \$5,000 cap. She stated that this amount was based on years of service. She stated that furthermore, they had made some minor changes to their personnel management plan, including clarifying language regarding volunteer time off and the organizations eligible for this benefit. She stated that they would also be adding a stipulation that employees must be employed for six months or longer to participate with volunteer time off.

Ms. Beard stated that their disciplinary policy would be revised to include a safety violation as an example of misconduct. She stated that these were the key changes. She stated that she had a red-lined copy of their personnel management plan available for those who wished to review the entire document in detail. She stated that the proposed changes were summarized in the provided memo. She stated that staff was requesting that these changes to their personnel management plan be approved and take effect on July 1.

Ms. Mallek asked if the cost of these changes was included in the budget.

Ms. Beard stated that they anticipated minimal costs. She stated that the parental leave and short-term disability benefits were self-insured, so they were paying for them regardless. She stated that currently, they had about two employees retiring each year, which she did not foresee being a substantial cost item to include in the budget.

Ms. Mallek stated that she recalled a time when the state was phasing out Plans 1 and 2, and no new employees were allowed to be added to that system, and they were moving towards a much less generous plan for the hybrid. She stated that she understood the reasoning behind this approach, and it seemed that this as a way to revert to the old benefits in order to retain employees.

Ms. Beard explained that to ensure consistency across the authority, they wanted to make the benefits of Rivanna's hybrid plan uniform, rather than having different benefits offered to Plans 1 and 2 versus the hybrid plan. She stated that this would provide a more equitable experience for all employees. She stated that Plans 1 and 2 were more beneficial to employees compared to the hybrid plan, so they did not want to limit the benefits they offered to their hybrid employees, particularly in relation to their retirement payouts and paid time off.

Ms. Mallek asked how these changes would be supported or not by VRS.

Ms. Beard clarified that what they paid their employees for sick leave upon retirement was separate from the VRS retirement plans. She stated that the employees would still be retiring through VRS, regardless of the plan. She stated that this was what Rivanna was paying employees for their accrued sick time.

Ms. Mallek stated that she understood that this was a tangential aspect, separate from pension.

Ms. Beard stated that this was what Rivanna was offering their employees without determining whether people were on hybrid, Plan 1, or Plan 2.

Mr. Lunsford asked what the percentage was of sick leave balance.

Ms. Beard replied that it depended on years of service. She stated that if one had reached 15 years of service, they paid the hourly rate times 15% of the sick leave balance. She stated that she had a chart available with the specific calculations for payouts based on the years of service.

Mr. Lunsford asked if staff would be reviewing the personnel who had reached the maximum and look back at hours they may have lost.

Ms. Beard stated that she did not believe they had any hybrid retirements through their system.

Mr. Lunsford stated that he was not referring to retirement, but rather a hybrid employee who had reached the maximum 480 hours and potentially lost some.

Ms. Beard clarified that this would take effect starting July 1 and would not have a look back update. She stated that therefore, any rollover that they had would not have a cap if this were approved.

Ms. Lunsford stated that in one of Ms. Beard's slides, she presented data from peer organizations that he had compared against. He asked if these organizations had a consistent number of pay periods.

Ms. Beard confirmed that was correct. She stated that UVA had 24 pay periods, but they calculated it based on the number they had per hour.

Mr. Mawyer stated that without a cap, it created an environment where employees felt more inclined to accumulate sick leave beyond the 480 hours.

Mr. Pinkston moved that the Board of Supervisors approve the recommended updates to the Employee Personnel Management Plan to be effective on July 1, 2025. Ms. Mallek seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)

b. Presentation and Consider Vote to Approve: Fy 2026-2030 Capital Improvement Program Budget

Jennifer Whitaker, P.E., Engineering and Maintenance Division Director, stated that she would provide a brief summary of the proposed Capital Improvement Plan. She stated that as this information was similar to what was presented in February, she would not delve into every detail, but she encouraged the Board members to ask questions along the way. She explained that the primary objective of the Capital Improvement Plan was to plan, deliver, and maintain dependable infrastructure.

Ms. Whitaker stated that all other aspects of this plan were derived from their strategic framework, and they aimed to ensure successful implementation. She stated that their top priorities included completing the Community Water Supply Plan components, completing finished water transmission projects such as the Central Water Line, enhancements to address emerging contaminants, completing the Crozet water supply projects, including the dam and raw water pump station, as well as maintaining their water and wastewater treatment and conveyance infrastructure, ensuring they met regulatory requirements all while providing resiliency and redundancy.

Ms. Whitaker stated that the Fiscal Year 2026 to 2030 Capital Improvement Program included 71 projects and approximately \$550 million. She stated that of these 71 projects, 63 were construction-related, four were studies, and four were miscellaneous. She stated that urban water accounted for approximately 57% of the total value, at around \$315 million. She stated that ACSA was allocated approximately 69% of the total capital budget, while the City was responsible for 31% equaling \$173 million.

Ms. Whitaker stated that the next slide displayed the expected funding sources for the capital expenditure, including cash reserves, grants, insurance, and new debt. She stated that some of the debt had already been paid, or they had debt proceeds available, resulting in approximately \$383 million in new debt. She stated that the next slide highlighted major programs and projects, including water treatment plant improvements and capacity enhancements on the left side of the slide. She stated that operation, maintenance, safety, and sustainability efforts were essential components of their work as well.

Ms. Whitaker stated that in some cases, these projects were required for safety reasons, while in others, they were necessary to maintain operational objectives. She stated that they also had regulatory requirements, as their organization and industry was highly regulated. She stated that regulatory requirements must be met, and then they had reliability and redundancy initiatives. She stated that many of these projects overlapped across multiple categories, but they had grouped them on the graphic in a way that highlighted each project's primary objective.

Ms. Whitaker stated that the next slide presented the four remaining community water supply projects that are still in design, preparing for bidding, or planned for upcoming construction. She stated that the first project was the Central Water Line. She stated that this project spanned from the University of Virginia to Free Bridge (near Pantops).

Ms. Whitaker stated that they would discuss this project further and that staff planned to award a contract in June, with an estimated cost of approximately \$79 million. She stated that the second project on the graphic was the pool elevation increase at Ragged Mountain Reservoir, which they had received bids for and discussed earlier in the meeting. She stated that they hoped to award this project in June, with an estimated cost of about \$11 million.

Ms. Whitaker stated that the third project was the South Rivanna Reservoir to Ragged Mountain Reservoir raw water project. She stated that this involved a large diameter main, a new intake facility, and a large pump station at the northern end. She stated that they were planning to bid this project late fall into winter and award it early in 2026, with an estimated cost of

approximately \$117 million.

Ms. Whitaker stated that the final projects were water quality improvement efforts at Ragged Mountain and South Rivanna, including an aeration project and a hypo-limnetic oxygenation system (HLOS). She stated that the HLOS project involved using pure oxygen at lower levels in the reservoir, and it had an estimated cost of \$9 million. She stated that the total cost of these projects is \$211 million, which accounted for approximately 38% of the capital program.

Ms. Whitaker stated that they were working on several other notable projects, including the rehabilitation of the Crozet pump stations, which were 100% funded by ACSA. She stated that the Moores Creek structural and concrete rehabilitation focused on repairing the physical concrete and steel from the original construction in the late 1970s and early 1980s.

Additionally, Ms. Whitaker discussed the Moores Creek Operations and Maintenance Building Upfits project. She stated that the primary purpose of this project was to renovate the wastewater operations and maintenance buildings at Moores Creek. Ms. Whitaker explained that the original structures, which were approximately 40 years old and no longer met the needs of staff or operational requirements. She stated that this project had a budget of \$12 million, with the Service Authority and City splitting the cost 52 /48%. She stated that they had already begun construction on this project.

Ms. Whitaker continued to state that the next project was the Moores Creek Administration Building, which they had previously discussed in detail. She stated that this original building, built in the 1980s, was nearing the end of its useful life and would be completely gutted and renovated to include new lab spaces, an education center, and a boardroom. She stated that the budget for this project was \$27 million, with the Service Authority and City splitting the cost 52 / 48%.

Ms. Whitaker stated that in Crozet, they were moving forward with a granular activated carbon (GAC) expansion project. She stated that currently, the plant could treat one million gallons a day (MGD), but they were upgrading to 3 MGD. She stated that they had received \$7 million in grant funding from the Virginia Department of Health, which would be applied to the project. She stated that this project was 100% ACSA funded.

Ms. Whitaker stated that the final project was the Beaver Creek Dam, where they were modifying the spillway to include a labyrinth spillway. She stated that this work would also require rebuilding the raw water pump station on the shore and replacing the piping between the pump station and treatment plant. She stated that they were currently in the design phase for this project and anticipated receiving funding from the federal government through the Natural Resources Conservation Service (NRCS). She stated that this project was also 100% ACSA funded.

Ms. Whitaker summarized that they had 71 projects, 63 major construction projects and efforts, and four studies that were obligated through various agreements. She stated that they were looking at a total of approximately \$550 million in funding over the course of the various existing and future bonds.

Ms. Mallek asked if the computer-generated image of the pump station at Beaver Creek was the new location.

Ms. Whitaker replied that the pump station would be located on the perimeter of the reservoir. She stated that further design development would bring new renderings, but this was the initial rendering of the raw water pump station.

Mr. Pinkston stated that this Capital Improvement Plan was quite robust, and they had been discussing its components for quite some time. He stated that Councilor Snook, who was a former member of this Board, was impressed with the way the Rivanna staff presented the CIP and tracked projects, along with improvements to better track things. He stated that he wanted to emphasize that this was a strong plan, and he believed the community should feel confident in the fact that it addressed the water system's needs, providing clean water and managing wastewater effectively.

Ms. Mallek stated that much of this plan was catching up; they had been working on this for 30 years and things were much more expensive now than when they began a lot of this planning. She expressed her appreciation for the leadership from everyone who got them to this point, as it was essential that they take care of their own water supply.

Mr. Pinkston moved that the Board of Supervisors approve the FY 2026-2030 Capital Improvement Plan totaling \$550 million. Ms. Mallek seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)

c. Presentation, Public Hearing and Consider Vote to Approve: Resolution to Adopt the FY 2025-2026 Rate Schedule and FY 2025-2026 Budget

Bill Mawyer, Executive Director, stated that in March the budget was introduced for \$64 million, which was an \$8.9 million increase over the current year. He stated that their debt service was estimated to be \$33.4 million and the operating costs were \$30.6 million. He stated that the City's charges would be \$22.9 million, a 12.4% increase from last year, while ACSA's charges of \$36.9 million would be 20.1% higher than last year.

Mr. Mawyer explained that this increase was largely due to the allocations of projects that Ms. Whitaker had mentioned. He stated that many projects were fully funded by the ACSA, resulting in higher charges for that organization. He stated that Rivanna was guided by their strategic plan goals and driven by six key categories of regulations, capacity, emerging contaminants, technology, sustainability, and affordability.

Mr. Mawyer stated that their budget of \$64 million was divided into two main components: 52% for debt service and 48% for operating expenses. He stated that the four main categories of workforce, chemicals, information technology, and utilities accounted for approximately 75% of their operating expenses. He noted that these required costs gave them limited discretion in this budget.

Mr. Mawyer stated that debt service accounted for 64% of this increase, while personnel expenses, IT costs, equipment, and other expenses made up the balance of the nearly \$9 million increase. He stated that there was a 2% cost of living increase and a 3% merit pool for their staff. He stated that additionally, they were funding half of last year's positions this year with additional benefit costs.

Mr. Mawyer stated that they were proposing two new positions: an Information Technology Administrator to support their Supervisory Control and Data Acquisition (SCADA) systems, and an Engineering Inspector to oversee construction projects. He stated that the IT tech position would be under Mr. Wood in the Finance and Information System division, while the Engineering Inspector would work under Ms. Whitaker in the Engineering and Maintenance division. He stated that these positions would bring their workforce to a full complement of 106 employees.

Mr. Mawyer stated that the forecasted charges to their customers ranged from 12.4% for the City next year to 10% in FY 30, and 20.1% for the ACSA next year to 11.4% in FY 30. He stated that their capital budget for next year was approximately \$104 million. He stated that Ms. Whitaker had explained that their Capital Improvement Plan, a five-year plan, was \$550 million, and they anticipated new debt of approximately \$382 million. He stated that their \$64 million budget, which was expected to be about 16% higher than the previous year, was primarily driven by increased debt service costs for the \$550 million CIP program.

Mr. Gaffney opened the public hearing on the proposed budget.

Dede Smith stated that she was a bit surprised that they would not answer her straightforward question, which she believed fell under the Freedom of Information Act (FOIA). She stated that given the unprecedented rates, she thought it was crucial for the public to know whether this would personally affect the Board members, not that it would lead to them losing their homes, but it would undoubtedly cause others to lose theirs, and it would certainly cause families to lose their children. She stated that if a household's water was cut off due to non-payment, Social Services would have to take the children away.

Ms. Smith stated that as Rivanna was a monopoly, they should be aware that there was no alternative for many people. She stated that as a City resident, she was acutely aware that there was virtually no alternative to the City and Rivanna Water monopoly. She stated that she had been following this for decades, and she had never seen anything like this. She stated that it seemed there was a lack of recognition for the impact of these rate increases. She stated that frankly, her 20 years of following gave her the impression that this was rooted in a 20th-century plan. She stated that it was just crazy.

Ms. Smith stated that another thing that came to mind was that people could survive for a very long time without food, but they would perish within days without water. She stated that water was a fundamental right, a human right, and it should not cost this much. She stated that she had appreciated the Board's time and was grateful for the opportunity to express her concerns.

Mr. Gaffney closed the public hearing.

691
692 **Mr. Pinkston moved that the Board of Supervisors approve the Resolution to adopt the**
693 **rate schedule for Fiscal Year 2025-2026 effective July 1, 2025 by the Rivanna Water and**
694 **Sewer Authority. Ms. Mallek seconded the motion, which carried unanimously (6-0). (Mr.**
695 **Richardson was absent)**

696
697 **Mr. Pinkston moved that the Board of Supervisors approve the FY 2025-2026 RWSA**
698 **Budget. Ms. Mallek seconded the motion, which carried unanimously (6-0). (Mr.**
699 **Richardson was absent)**

700
701 *d. Presentation and Consider Vote to Approve: Award of Construction Contract for the*
702 *South Rivanna Water Treatment Plant Powdered Activated Carbon Project*
703

704 Dyon Vega, P.E., Civil Engineer, stated that he would present the construction award and capital
705 project amendment for the 2026-2030 South Rivanna Water Treatment Plant Powdered
706 Activated Carbon (PAC) project. He stated that the powdered activated carbon pack was a
707 crucial component of their treatment process. He stated that in 1984, Rivanna had constructed the
708 lime storage silo at South Rivanna, which had since been converted to a PAC silo in 2015.
709

710 Mr. Vega stated that the images on the slide included the existing silo, and for comparison, a
711 newer silo at the Crozet WTP. He explained that unfortunately, the current silo had significant
712 deficiencies that caused numerous problems for their operations. He stated that these issues
713 included clogging, which could not be controlled with SCADA, and their operators had to
714 physically climb a ladder to the top of the silo to monitor and measure the pack level inside the
715 tank.
716

717 Mr. Vega stated that in contrast, their proposed new technology silo would offer a larger capacity
718 with smoother and more controlled feed rates, allowing them to utilize SCADA and meet their
719 current standards. He stated that they had received one bid from WACO, Inc., at \$1.49 million,
720 with their most recent engineer's estimate at \$1.5 million. He stated that the proposed capital
721 budget for this project was \$1.25 million, and their total project budget was \$1.82 million. He
722 stated that staff was proposing a budget amendment of \$0.562 million. He stated that
723 construction was anticipated to begin in December of this year and would be completed by
724 August 2027.
725

726 **Ms. Mallek moved that the Board of Supervisors approve an amendment to the FY 26-30**
727 **CIP for the South Rivanna Water Treatment Plant -- PAC Upgrades Project to increase**
728 **the budget by \$0.562M to a total budget of \$1.82M. Mr. Pinkston seconded the motion,**
729 **which carried unanimously (6-0). (Mr. Richardson was absent)**
730

731 **Ms. Mallek moved that the Board of Supervisors authorize for the Executive Director to**
732 **award a construction contract to WACO, Inc. for a total amount of \$1.497M and to**
733 **approve any change orders to the construction contract necessary for completion of the**
734 **work not to exceed 10% of the original construction contract amount. Mr. Pinkston**
735 **seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)**
736

737 ***10. OTHER ITEMS FROM BOARD/STAFF NOT ON THE AGENDA***

738
739 There were none.

740
741 ***11. CLOSED MEETING***

742
743 **Ms. Mallek moved that the Board of Supervisors that the Rivanna Water & Sewer**
744 **Authority enter into a closed session to discuss the award of a public contract involving the**
745 **expenditure of public funds, including interviews of bidders or offerors, and discussion of**
746 **the terms or scope of such contract, where discussion in an open session would adversely**
747 **affect the bargaining position or negotiating strategy of the Rivanna Water and Sewer**
748 **Authority, as permitted by the exemptions at Section 2.2-3711-A(29) of the Code of**
749 **Virginia). Mr. Pinkston seconded the motion, which carried unanimously by roll call**
750 **vote(6-0). (Mr. Richardson was absent)**

751
752 ***12. CERTIFY CLOSED MEETING***

753
754 **Ms. Mallek moved that the Board of Supervisors that the Rivanna Water and Sewer**
755 **Authority hereby certifies by recorded vote that, to the best of each member's knowledge,**
756 **only public business matters lawfully exempted from the open meeting requirements of the**
757 **Virginia Freedom of Information Act, and those public business matters as were identified**
758 **in the motion authorizing the closed meeting were heard, discussed or considered in the**
759 **closed meeting to which this certification resolution applies. Mr. Pinkston seconded the**
760 **motion, which carried unanimously by roll call vote(6-0). (Mr. Richardson was absent)**

761
762 ***13. ADJOURNMENT***

763
764 **Mr. Pinkston moved that the Board of Supervisors adjourn the meeting. Mr. Sanders**
765 **seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)**
766



**RIVANNA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS**

Resolution of Appreciation for Gregory L. Marrs

WHEREAS Mr. Marrs has served in the Maintenance Department in various positions including Laborer, Utility Worker, Painter, Mechanic 3, Vehicle and Equipment Mechanic, Mechanic 2, Mechanic 1, Maintenance Supervisor, Assistant Maintenance Manager, and Maintenance Manager for the Rivanna Water and Sewer Authority for 42 years; and

WHEREAS over the same period of 42 years, Mr. Marrs' knowledge and understanding of the Authority's Maintenance activities as well as his unwavering dedication and loyalty to the Authority have positively impacted the Authority, its employees, and its customers; and

WHEREAS Mr. Marrs' authentic commitment to the Authority's values of Integrity, Teamwork, Respect and Quality has guided his leadership in building a professional, responsive and dynamic Maintenance Department that has provided outstanding support for the Authority as well as our community.

NOW, THEREFORE, BE IT RESOLVED that the Rivanna Water and Sewer Authority Board of Directors recognizes, thanks, and commends Mr. Marrs for his many years of distinguished service, efforts, and achievements, and presents this Resolution as a token of esteem, with its best wishes in his retirement.

BE IT FURTHER RESOLVED that this Resolution be entered upon the permanent Minutes of the Rivanna Water and Sewer Authority.

Michael Gaffney, Chairman
Lauren Hildebrand
Quin Lunsford
Ann Mallek
Brian Pinkston
Jeff Richardson
Sam Sanders



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: JUNE 24, 2025

STRATEGIC PLAN PRIORITY: EMPLOYEE DEVELOPMENT

Promotions and New Credentials for Team Members

After a competitive recruitment process, **Steve Minnis, Sr.**, was selected as our new Maintenance Department Manager. In May 2025, Steve completed his Apprenticeship program with the Commonwealth of Virginia and is an **Industrial Mechanic Journeyman**. He has been with Rivanna Authorities for the past 33 years, serving as Assistant Manager in the Maintenance Department since 2020. Prior to working for Rivanna, Steve was a diesel vehicle mechanic in the US Army.

The professional qualifications of our staff continue to improve and enhance our services. We congratulate the following employees for successfully completing the requirements for a license from the State or passing qualifications and examination for professional certification:

- **Conrad Wilson** – Class 2, Wastewater Operator
- **Josh Bowen** – Certified Public Infrastructure Inspector, American Public Works Association

We congratulate the following employee for successfully completing the requirements for a college degree:

- **Duane Houchens, Wastewater Operator Class 1**, Associate of Applied Science - Environmental Science - Water/Wastewater Specialization from Mountain Empire Community College.

Welcome Summer Interns

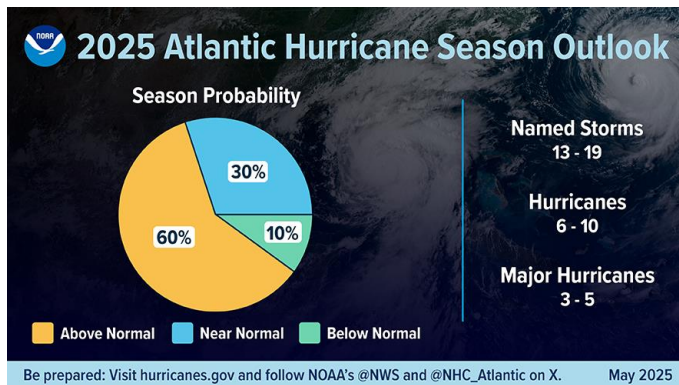
- **Hannah Young**, IT/SCADA Intern. Hannah completed her freshman year at VA Tech and is majoring in Bachelor of Science in Computer Science.
- **Sofia Beard**, Lab Intern. Sofia completed her sophomore year at Catawba College in North Carolina, majoring in Bachelor of Science in Biochemistry and is a Division II Volleyball player. This is Sofia's second year as an Intern with RWSA.

Drinking Water and Wastewater Professionals Appreciation Day



June 30, 2025 is Drinking Water and Wastewater Professionals Appreciation Day in Virginia. We appreciate our dedicated staff who work 24/7, 365 days a year to treat 3.4 billion gallons of safe drinking water and wastewater for our community each year.

Emergency Training



Atlantic hurricane season runs from June 1 to November 30 with the peak season occurring between mid-August and late October. National Oceanic & Atmospheric Administration (NOAA) predicts a 60% chance of an above-normal season in the Atlantic basin this year.

We held Emergency Response Training for our staff on June 10th. This internal training prepares staff to implement procedures to protect lives, property, and infrastructure, and to maintain and restore essential services for our community in response to a wide range of emergencies and operational disruptions. Our Directors, Managers, Assistant Managers, and Supervisors participated in this important training.

STRATEGIC PLAN PRIORITY: COMMUNICATION AND COLLABORATION

Virginia Association of Municipal Wastewater Agencies (VAMWA)



Attended Virginia Association of Municipal Wastewater Agencies meeting in Short Pump on June 5th. VAMWA brings together approximately 100 local governments, wastewater authorities, and leading wastewater engineering firms to work for clean water in Virginia based on sound science and good public policy.

City of Charlottesville



RWSA lab will assist the City of Charlottesville's Environmental Sustainability Division with analysis of stormwater samples. The bi-annual samples need to be analyzed for Total Suspended Solids as required by the City's Industrial Stormwater Discharge Permit from VDEQ.

STRATEGIC PLAN PRIORITY: PLANNING AND INFRASTRUCTURE

Ragged Mtn Reservoir to Observatory WTP Pipe and Pump Station Project



Pipe installation in Hereford Drive near the Observatory Water Treatment Plant is underway. This work is being performed during UVA's summer break to minimize impacts on students, faculty, and staff. The site of the RMR Pump Station, to be located just off Reservoir Road, has been cleared and is currently being used as a staging area for the pipe installation. RWSA purchased this 1-acre site for the pump station from the UVAF.



June 17, 2025: Trench boxes used in the installation of 36" ductile iron pipe on Hereford Drive near Observatory WTP.



Construction on Hereford Drive – “honeycombing” process for rock removal.

Sugar Hollow Repairs

We expect repairs to the Sugar Hollow Dam pneumatic piping which supports the inflatable bladder to be completed by the end of June. The bladder will be inflated and the reservoir pool level will increase about 5 feet as we receive precipitation.



- When inflated, the crest gate impounds about 70 of the 340 million gallons of drinking water stored in the reservoir (about 20%).
- Crest bladder system is 225 feet long and 5 feet high.
- The gate is operated via automated controls and monitored remotely 24/7 by RWSA staff.

The Sugar Hollow Dam was originally completed in 1947, and renovations were completed in June 1999. This Sugar Hollow Dam rehabilitation project, which included the crest bladder system, was awarded the 2000 National Rehabilitation Project of The Year by the Association of State Dam Safety Officials.

Sugar Hollow Dam
Rubber Crest Gate





MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: LONNIE WOOD, DIRECTOR OF FINANCE AND INFORMATION
TECHNOLOGY**

REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: APRIL MONTHLY FINANCIAL SUMMARY – FY 2025

DATE: JUNE 24, 2025

Financial Snapshot

The Authority's operating revenues for the first ten months of this fiscal year are \$682,000 more than the prorated annual budget estimates, and operating expenses are \$1,242,000 over the prorated annual budget estimates, resulting in an operating deficit of \$559,000. Urban Water flows and operating rate revenue through April are 1.2% over budget estimates. Urban Wastewater flows and operating rate revenue are 4.4% over budget.

Operating and debt service revenues combined total \$689,000 more than budget estimates, and total expenses are \$1,261,000 over budget estimates, resulting in an overall deficit of \$572,000 through April. Revenues and expenses are summarized in the table below:

<u>Actual Month-end Results:</u>	Urban Water	Urban Wastewater	Total Other Rate Centers	Total Authority
Operations				
Revenues	\$ 9,832,609	\$ 10,253,195	\$ 2,638,345	\$ 22,724,149
Expenses	(10,689,929)	(9,859,248)	(2,734,445)	(23,283,622)
Surplus (deficit)	<u>\$ (857,320)</u>	<u>\$ 393,947</u>	<u>\$ (96,100)</u>	<u>\$ (559,473)</u>
Debt Service				
Revenues	\$ 11,276,446	\$ 9,348,214	\$ 2,501,176	\$ 23,125,836
Expenses	(11,287,021)	(9,346,741)	(2,504,245)	(23,138,007)
Surplus (deficit)	<u>\$ (10,575)</u>	<u>\$ 1,473</u>	<u>\$ (3,069)</u>	<u>\$ (12,171)</u>
Total				
Revenues	\$ 21,109,055	\$ 19,601,409	\$ 5,139,521	\$ 45,849,985
Expenses	(21,976,950)	(19,205,989)	(5,238,690)	(46,421,629)
Surplus (deficit)	<u><u>\$ (867,895)</u></u>	<u><u>\$ 395,420</u></u>	<u><u>\$ (99,169)</u></u>	<u><u>\$ (571,644)</u></u>

A more detailed financial analysis is in the following monthly report and reviews more closely actual financial performance compared to budgeted estimates. There are comments listed that will reference the applicable line items in the financial statement for each rate center and each support department in

the following pages. Please refer to the Budget vs Actual financial statements when reviewing these comments.

Detailed Financials

The following comments help explain most of the other budget vs. actual variances.

- A. Annual and Quarterly Transactions - Some revenues and expenses exceed the prorated annual budget due to up-front annual receipts of revenue and quarterly or annual payments of expenses. These transactions appear to significantly impact the budget vs. actual monthly comparisons, but they usually even out as the year progresses. Septage receiving support revenue of \$109,440 is billed to the County annually in July. Annual payments are made at the beginning of the fiscal year for certain maintenance agreements and for employer contributions to employees' health savings accounts. The annual \$175,000 payment to UVA for the Observatory lease is made in August. Insurance premiums are paid at the beginning of each quarter.
- B. Personnel Costs (most departments – pages 2-12) – Urban Water and Urban Wastewater salaries are higher than budgeted due to various changes in operations. Urban Wastewater salaries are also higher due to “leave” payout upon wastewater manager’s retirement. The prorated budget amounts through April are calculated as 10/12 (or 83.3%) of the annual budget on these financial statements. However, actual payroll is paid biweekly, and there have been 22 out of 26 total pay periods through April (or 84.6%). This 1.3% difference affects the comparison of budget vs. actual payroll costs. Urban Wastewater has incurred \$14,000 in unbudgeted costs for uniforms and leadership training.
- C. Professional Services (Urban Water, Crozet Water, Scottsville Wastewater, Administration/Communication, Finance/IT – pages 2, 3, 7, 8, 9) – Urban Water has incurred \$38,000 in unbudgeted legal fees and \$133,500 in unbudgeted engineering and technical services for sedimentation issues at Glenmore, UVA water quality and the Sugar Hollow raw water line break. Scottsville Wastewater has exceeded the annual budget for engineering and technical services by \$34,700 for a needs assessment and purchase of an influent gate. Crozet Water is \$13,400 over the annual budget for tank inspections and dam engineering services. The Administration department incurred \$26,700 for unbudgeted compensation study costs and \$11,000 in excess costs for deputy director recruiting. The Finance department is \$11,000 over the prorated budget on energy cost control expenses and legal fees and \$4,000 over the annual budget.
- D. Information Technology (Finance/IT – page 9) – The Finance/IT department has exceeded the prorated budget by \$147,800 in this category due to annual software license renewals.
- E. Operations & Maintenance (Urban Water, Crozet Water, Urban Wastewater, Glenmore Wastewater – pages 2, 3, 5, 6) – Crozet Water is \$42,400 over the prorated budget in this category due two GAC exchanges and instrumentation and metering costs. Urban Water is currently \$713,000 over the prorated budget due to GAC exchanges and pipeline and appurtenances costs and some unbudgeted repair costs. Urban Wastewater is \$56,000 over budget on temporary flow metering services. Glenmore Wastewater is \$31,000 over the prorated budget for equipment repair and replacement costs.
- F. Communication - Data & Voice (Urban Water, Scottsville Water, Glenmore Wastewater, Finance/IT – pages 2, 4, 6, 9) – Telephone and data services were inadvertently underbudgeted.

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025
Fiscal Year 2025

Consolidated
Revenues and Expenses Summary

<i>Budget</i>	<i>Budget</i>	<i>Actual</i>	<i>Budget</i>	<i>Variance</i>
<i>FY 2025</i>	<i>Year-to-Date</i>	<i>Year-to-Date</i>	<i>vs. Actual</i>	<i>Percentage</i>

Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$	25,533,965	\$	21,278,304	\$	21,798,690	\$	520,386	2.45%
Lease Revenue		120,000		100,000		119,877		19,877	19.88%
Admin., Finance/IT, Maint. & Engineering Revenue		905,200		754,333		784,913		30,579	4.05%
Other Revenues		667,768		556,473		591,630		35,156	6.32%
Use of Reserves (Water Resources Fund)		-		-		-		-	
Interest Allocation		165,400		137,833		213,953		76,120	55.23%
Total Operating Revenues	\$	27,392,333	\$	22,826,944	\$	23,509,062	\$	682,118	2.99%

Expenses

Personnel Cost	A, B	\$	12,816,065	\$	10,680,054	\$	10,864,382	\$	(184,328)	-1.73%
Professional Services	C		492,650		410,542		710,445		(299,904)	-73.05%
Other Services & Charges			4,371,588		3,642,990		3,594,011		48,979	1.34%
Communication	F		244,950		204,125		271,177		(67,052)	-32.85%
Information Technology	D		1,470,050		1,225,042		1,203,735		21,307	1.74%
Supplies			51,200		42,667		42,166		501	1.17%
Operations & Maintenance	A, E		6,698,884		5,582,403		6,364,793		(782,390)	-14.02%
Equipment Purchases			316,950		264,125		242,826		21,299	8.06%
Depreciation			930,000		775,000		775,000		-	0.00%
Total Operating Expenses		\$	27,392,337	\$	22,826,948	\$	24,068,536	\$	(1,241,588)	-5.44%
Operating Surplus/(Deficit)		\$	(4)	\$	(3)	\$	(559,473)			

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$	25,612,554	\$	21,343,795	\$	21,343,800	\$	5	0.00%
Septage Receiving Support - County		109,440		91,200		109,440		18,240	20.00%
Buck Mountain Lease Revenue		10,000		8,333		12,742		4,408	52.90%
Trust Fund Interest		430,300		358,583		323,070		(35,514)	-9.90%
Reserve Fund Interest		1,580,800		1,317,333		1,336,785		19,451	1.48%
Total Debt Service Revenues	\$	27,743,094	\$	23,119,245	\$	23,125,836	\$	6,591	0.03%

Debt Service Costs

Total Principal & Interest	\$	16,164,506	\$	13,470,422	\$	15,956,888	\$	(2,486,466)	-18.46%
Reserve Additions-Interest		1,580,800		1,317,333		1,336,785		(19,451)	-1.48%
Debt Service Ratio Charge		725,000		604,167		604,167		-	0.00%
Reserve Additions-CIP Growth		9,271,960		7,726,633		5,240,168		2,486,466	32.18%
Total Debt Service Costs	\$	27,742,266	\$	23,118,555	\$	23,138,006	\$	(19,451)	-0.08%
Debt Service Surplus/(Deficit)	\$	828	\$	690	\$	(12,170)			

Summary

Total Revenues	\$	55,135,427	\$	45,946,189	\$	46,634,898	\$	688,709	1.50%
Total Expenses		55,134,603		45,945,503		47,206,542		(1,261,040)	-2.74%
Surplus/(Deficit)	\$	824	\$	687	\$	(571,644)			

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Urban Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

		Notes								
Revenues										
Operations Rate Revenue		\$	11,425,341	\$	9,521,118	\$	9,637,198	\$	116,080	1.22%
Lease Revenue			90,000		75,000		91,720		16,720	22.29%
Grants			-		-		8,528		8,528	
Miscellaneous			-		-		2,735		2,735	
Use of Reserves (Water Resources Fund)			-		-		-		-	
Interest Allocation			71,500		59,583		92,428		32,844	55.12%
Total Operating Revenues		\$	11,586,841	\$	9,655,701	\$	9,832,609	\$	176,908	1.83%
Expenses										
Personnel Cost	B	\$	2,570,828	\$	2,142,357	\$	2,260,615	\$	(118,259)	-5.52%
Professional Services	C		177,000		147,500		355,001		(207,501)	-140.68%
Other Services & Charges			1,076,746		897,288		898,077		(789)	-0.09%
Communications	F		89,700		74,750		96,602		(21,852)	-29.23%
Information Technology			109,400		91,167		75,832		15,335	16.82%
Supplies			7,900		6,583		8,691		(2,108)	-32.02%
Operations & Maintenance	A, E		3,334,814		2,779,012		3,492,346		(713,334)	-25.67%
Equipment Purchases			23,300		19,417		23,508		(4,092)	-21.07%
Depreciation			300,000		250,000		250,000		-	0.00%
Subtotal Before Allocations		\$	7,689,688	\$	6,408,073	\$	7,460,672	\$	(1,052,599)	-16.43%
Allocation of Support Departments			3,897,153		3,247,628		3,229,257		18,371	0.57%
Total Operating Expenses		\$	11,586,841	\$	9,655,701	\$	10,689,929	\$	(1,034,228)	-10.71%
Operating Surplus/(Deficit)		\$	0	\$	(0)	\$	(857,321)			

Debt Service Budget vs. Actual

Revenues										
Debt Service Rate Revenue	\$	12,593,874	\$	10,494,895	\$	10,494,900	\$	5	0.00%	
Trust Fund Interest		185,000		154,167		139,178		(14,988)	-9.72%	
Reserve Fund Interest		744,800		620,667		629,626		8,959	1.44%	
Lease Revenue		10,000		8,333		12,742		4,408	52.90%	
Total Debt Service Revenues		\$	13,533,674	\$	11,278,062	\$	11,276,446	\$	(1,616)	-0.01%
Debt Service Costs										
Total Principal & Interest	\$	7,078,274	\$	5,898,562	\$	6,828,500	\$	(929,938)	-15.77%	
Reserve Additions-Interest		744,800		620,667		629,626		(8,959)	-1.44%	
Debt Service Ratio Charge		400,000		333,333		333,333		-	0.00%	
Est. New Debt Service - CIP Growth		5,310,600		4,425,500		3,495,562		929,938	21.01%	
Total Debt Service Costs		\$	13,533,674	\$	11,278,062	\$	11,287,021	\$	(8,959)	-0.08%
Debt Service Surplus/(Deficit)		\$	-	\$	-	\$	(10,575)			

Rate Center Summary

Total Revenues	\$	25,120,515	\$	20,933,763	\$	21,109,054	\$	175,292	0.84%
Total Expenses		25,120,515		20,933,763		21,976,950		(1,043,187)	-4.98%
Surplus/(Deficit)	\$	0	\$	(0)	\$	(867,895)			
Costs per 1000 Gallons	\$	3.41			\$	3.73			
Operating and DS	\$	7.39			\$	7.67			
Thousand Gallons Treated		3,397,700		2,831,417		2,865,655		34,238	1.21%
or									
Flow (MGD)		9.309				9.426			

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Crozet Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$ 1,420,644	\$ 1,183,870	\$ 1,183,870	\$ -	0.00%
Lease Revenues	30,000	25,000	28,157	3,157	12.63%
Interest Allocation	8,900	7,417	11,553	4,137	55.78%
Total Operating Revenues	\$ 1,459,544	\$ 1,216,287	\$ 1,223,580	\$ 7,294	0.60%

Expenses

Personnel Cost	B \$ 365,428	\$ 304,523	\$ 316,780	\$ (12,257)	-4.02%
Professional Services	C 22,900	19,083	36,289	(17,205)	-90.16%
Other Services & Charges	163,107	135,923	125,174	10,749	7.91%
Communications	19,000	15,833	14,671	1,163	7.34%
Information Technology	35,000	29,167	8,219	20,948	71.82%
Supplies	1,600	1,333	2,211	(877)	-65.79%
Operations & Maintenance	E 426,600	355,500	397,876	(42,376)	-11.92%
Equipment Purchases	3,300	2,750	3,076	(326)	-11.84%
Depreciation	60,000	50,000	50,000	-	0.00%
Subtotal Before Allocations	\$ 1,096,935	\$ 914,112	\$ 954,294	\$ (40,182)	-4.40%
Allocation of Support Departments	362,608	302,173	301,461	712	0.24%
Total Operating Expenses	\$ 1,459,543	\$ 1,216,285	\$ 1,255,755	\$ (39,470)	-3.25%
Operating Surplus/(Deficit)	\$ 1	\$ 1	\$ (32,175)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 2,590,368	\$ 2,158,640	\$ 2,158,640	\$ -	0.00%
Trust Fund Interest	32,400	27,000	24,327	(2,673)	-9.90%
Reserve Fund Interest	93,800	78,167	78,870	704	0.90%
Total Debt Service Revenues	\$ 2,716,568	\$ 2,263,807	\$ 2,261,837	\$ (1,969)	-0.09%

Debt Service Costs

Total Principal & Interest	\$ 1,131,172	\$ 942,643	\$ 942,643	\$ -	0.00%
Reserve Additions-Interest	93,800	78,167	78,870	(704)	-0.90%
Estimated New Principal & Interest	1,491,600	1,243,000	1,243,000	-	0.00%
Total Debt Service Costs	\$ 2,716,572	\$ 2,263,810	\$ 2,264,514	\$ (704)	-0.03%
Debt Service Surplus/(Deficit)	\$ (4)	\$ (3)	\$ (2,676)		

Rate Center Summary

Total Revenues	\$ 4,176,112	\$ 3,480,093	\$ 3,485,418	\$ 5,325	0.15%
Total Expenses	4,176,115	3,480,095	3,520,269	(40,174)	-1.15%
Surplus/(Deficit)	\$ (3)	\$ (2)	\$ (34,851)		
Costs per 1000 Gallons	\$ 7.20		\$ 6.40		
Operating and DS	\$ 20.60		\$ 17.95		
Thousand Gallons Treated	202,697	168,914	196,128	27,214	16.11%
Flow (MGD)	0.555		0.645		

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Scottsville Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$ 741,984	\$ 618,320	\$ 618,320	\$ -	0.00%
Interest Allocation	4,600	3,833	5,991	2,157	56.28%
Total Operating Revenues	\$ 746,584	\$ 622,153	\$ 624,311	\$ 2,157	0.35%

Expenses

Personnel Cost	\$ 239,452	\$ 199,544	\$ 197,647	\$ 1,897	0.95%
Professional Services	5,000	4,167	7,886	(3,720)	-89.27%
Other Services & Charges	68,490	57,075	48,749	8,326	14.59%
Communications	7,000	5,833	21,320	(15,487)	-265.48%
Information Technology	13,400	11,167	18,163	(6,996)	-62.65%
Supplies	200	167	1,829	(1,662)	-997.49%
Operations & Maintenance	154,600	128,833	116,951	11,882	9.22%
Equipment Purchases	2,200	1,833	2,691	(858)	-46.80%
Depreciation	40,000	33,333	33,333	0	0.00%
Subtotal Before Allocations	\$ 530,342	\$ 441,952	\$ 448,569	\$ (6,618)	-1.50%
Allocation of Support Departments	216,247	180,206	179,971	235	0.13%
Total Operating Expenses	\$ 746,589	\$ 622,158	\$ 628,540	\$ (6,382)	-1.03%
Operating Surplus/(Deficit)	\$ (5)	\$ (4)	\$ (4,230)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 190,416	\$ 158,680	\$ 158,680	\$ -	0.00%
Trust Fund Interest	4,000	3,333	2,972	(361)	-10.83%
Reserve Fund Interest	7,000	5,833	6,684	851	14.58%
Total Debt Service Revenues	\$ 201,416	\$ 167,847	\$ 168,336	\$ 490	0.29%

Debt Service Costs

Total Principal & Interest	\$ 148,815	\$ 124,013	\$ 124,013	\$ -	0.00%
Reserve Additions-Interest	7,000	5,833	6,684	(851)	-14.58%
Estimated New Principal & Interest	45,600	38,000	38,000	-	0.00%
Total Debt Service Costs	\$ 201,415	\$ 167,846	\$ 168,696	\$ (851)	-0.51%
Debt Service Surplus/(Deficit)	\$ 1	\$ 1	\$ (360)		

Rate Center Summary

Total Revenues	\$ 948,000	\$ 790,000	\$ 792,647	\$ 2,647	0.34%
Total Expenses	948,004	790,004	797,237	(7,233)	-0.92%
Surplus/(Deficit)	\$ (4)	\$ (4)	\$ (4,590)		
Costs per 1000 Gallons	\$ 43.33		\$ 41.99		
Operating and DS	\$ 55.02		\$ 53.26		
Thousand Gallons Treated or Flow (MGD)	17,230	14,358	14,969	611	4.25%
	0.047		0.049		

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Urban Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$ 11,007,464	\$ 9,172,887	\$ 9,577,192	\$ 404,305	4.41%
Stone Robinson WWTP	17,768	14,807	12,008	(2,798)	-18.90%
Septage Acceptance	600,000	500,000	459,553	(40,447)	-8.09%
Nutrient Credits	50,000	41,667	108,805	67,138	161.13%
Miscellaneous Revenue	-	-	-	-	
Interest Allocation	74,000	61,667	95,637	33,970	55.09%
Total Operating Revenues	\$ 11,749,232	\$ 9,791,027	\$ 10,253,195	\$ 462,169	4.72%

Expenses

Personnel Cost	A, B	\$ 1,615,345	\$ 1,346,121	\$ 1,387,476	\$ (41,355)	-3.07%
Professional Services		35,000	29,167	29,341	(174)	-0.60%
Other Services & Charges		2,721,750	2,268,125	2,257,463	10,662	0.47%
Communications		14,800	12,333	12,521	(187)	-1.52%
Information Technology		95,500	79,583	55,103	24,480	30.76%
Supplies		2,600	2,167	1,761	406	18.73%
Operations & Maintenance	E	2,190,500	1,825,417	1,881,498	(56,082)	-3.07%
Equipment Purchases		73,500	61,250	61,250	-	0.00%
Depreciation		470,000	391,667	391,667	(0)	0.00%
Subtotal Before Allocations		\$ 7,218,995	\$ 6,015,829	\$ 6,078,080	\$ (62,250)	-1.03%
Allocation of Support Departments		4,530,238	3,775,199	3,781,168	(5,970)	-0.16%
Total Operating Expenses		\$ 11,749,233	\$ 9,791,028	\$ 9,859,248	\$ (68,220)	-0.70%
Operating Surplus/(Deficit)		\$ (1)	\$ (1)	\$ 393,947		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 10,156,560	\$ 8,463,800	\$ 8,463,800	\$ -	0.00%
Septage Receiving Support - County	109,440	91,200	109,440	18,240	20.00%
Trust Fund Interest	208,200	173,500	156,043	(17,457)	-10.06%
Reserve Fund Interest	731,800	609,833	618,931	9,098	1.49%
Total Debt Service Revenues	\$ 11,206,000	\$ 9,338,333	\$ 9,348,214	\$ 9,881	0.11%

Debt Service Costs

Total Principal & Interest	\$ 7,780,072	\$ 6,483,393	\$ 8,039,921	\$ (1,556,528)	-24.01%
Reserve Additions-Interest	731,800	609,833	618,931	(9,098)	-1.49%
Debt Service Ratio Charge	325,000	270,833	270,833	-	0.00%
Est. New Debt Service - CIP Growth	2,368,300	1,973,583	417,056	1,556,528	78.87%
Total Debt Service Costs	\$ 11,205,172	\$ 9,337,643	\$ 9,346,741	\$ (9,098)	-0.10%
Debt Service Surplus/(Deficit)	\$ 828	\$ 690	\$ 1,473		

Rate Center Summary

Total Revenues	\$ 22,955,232	\$ 19,129,360	\$ 19,601,409	\$ 472,049	2.47%
Total Expenses	22,954,405	19,128,671	19,205,989	(77,318)	-0.40%
Surplus/(Deficit)	\$ 827	\$ 689	\$ 395,420		
Costs per 1000 Gallons	\$ 3.47		\$ 3.34		
Operating and DS	\$ 6.77		\$ 6.51		
Thousand Gallons Treated or Flow (MGD)	3,390,400	2,825,333	2,949,551	124,218	4.40%
	9.289		9.702		

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Glenmore Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$ 533,112	\$ 444,260	\$ 444,260	\$ -	0.00%
Interest Allocation	3,700	3,083	4,707	1,624	52.66%
Total Operating Revenues	\$ 536,812	\$ 447,343	\$ 448,967	\$ 1,624	0.36%

Expenses

Personnel Cost	\$ 133,566	\$ 111,305	\$ 115,800	\$ (4,495)	-4.04%
Professional Services	10,000	8,333	669	7,664	91.97%
Other Services & Charges	41,840	34,867	39,560	(4,694)	-13.46%
Communications	3,700	3,083	18,652	(15,568)	-504.92%
Information Technology	14,350	11,958	429	11,530	96.42%
Supplies	-	-	-	-	
Operations & Maintenance	130,600	108,833	139,774	(30,940)	-28.43%
Equipment Purchases	3,500	2,917	2,917	(0)	0.00%
Depreciation	40,000	33,333	33,333	0	0.00%
Subtotal Before Allocations	\$ 377,556	\$ 314,630	\$ 351,133	\$ (36,503)	-11.60%
Allocation of Support Departments	159,262	132,718	130,942	1,776	1.34%
Total Operating Expenses	\$ 536,818	\$ 447,348	\$ 482,075	\$ (34,727)	-7.76%
Operating Surplus/(Deficit)	\$ (6)	\$ (4)	\$ (33,108)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 48,780	\$ 40,650	\$ 40,650	\$ -	0.00%
Trust Fund Interest	500	417	388	(29)	-6.96%
Reserve Fund Interest	-	-	-	-	
Total Debt Service Revenues	\$ 49,280	\$ 41,067	\$ 41,038	\$ (29)	-0.07%

Debt Service Costs

Total Principal & Interest	\$ 18,720	\$ 15,600	\$ 15,600	\$ -	0.00%
Estimated New Principal & Interest	30,560	25,467	25,467	-	0.00%
Reserve Additions-Interest	-	-	-	-	
Total Debt Service Costs	\$ 49,280	\$ 41,067	\$ 41,067	\$ -	0.00%
Debt Service Surplus/(Deficit)	\$ -	\$ -	\$ (29)		

Rate Center Summary

Total Revenues	\$ 586,092	\$ 488,410	\$ 490,005	\$ 1,595	0.33%
Total Expenses	586,098	488,414	523,142	(34,727)	-7.11%
Surplus/(Deficit)	\$ (6)	\$ (4)	\$ (33,137)		
Costs per 1000 Gallons	\$ 12.97		\$ 12.68		
Operating and DS	\$ 14.16		\$ 13.76		
Thousand Gallons Treated or Flow (MGD)	41,401	34,501	38,022	3,521	10.21%
	0.113		0.125		

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Scottsville Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$ 405,420	\$ 337,850	\$ 337,850	\$ -	0.00%
Interest Allocation	2,700	2,250	3,637	1,387	61.65%
Total Operating Revenues	\$ 408,120	\$ 340,100	\$ 341,487	\$ 1,387	0.41%

Expenses

Personnel Cost	\$ 133,636	\$ 111,363	\$ 115,800	\$ (4,437)	-3.98%
Professional Services	5,000	4,167	39,890	(35,723)	-857.36%
Other Services & Charges	33,400	27,833	27,690	143	0.51%
Communications	3,650	3,042	6,575	(3,533)	-116.17%
Information Technology	15,150	12,625	429	12,196	96.60%
Supplies	-	-	-	-	
Operations & Maintenance	44,500	37,083	35,520	1,563	4.22%
Equipment Purchases	3,500	2,917	2,917	(0)	0.00%
Depreciation	20,000	16,667	16,667	(0)	0.00%
Subtotal Before Allocations	\$ 258,836	\$ 215,696	\$ 245,488	\$ (29,791)	-13.81%
Allocation of Support Departments	149,278	124,398	122,588	1,811	1.46%
Total Operating Expenses	\$ 408,114	\$ 340,095	\$ 368,075	\$ (27,981)	-8.23%
Operating Surplus/(Deficit)	\$ 6	\$ 5	\$ (26,588)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 32,556	\$ 27,130	\$ 27,130	\$ -	0.00%
Trust Fund Interest	200	167	162	(5)	-3.06%
Reserve Fund Interest	3,400	2,833	2,674	(160)	-5.64%
Total Debt Service Revenues	\$ 36,156	\$ 30,130	\$ 29,965	\$ (165)	-0.55%

Debt Service Costs

Total Principal & Interest	\$ 7,453	\$ 6,211	\$ 6,211	\$ -	0.00%
Reserve Additions-Interest	3,400	2,833	2,674	160	5.64%
Estimated New Principal & Interest	25,300	21,083	21,083	-	0.00%
Total Debt Service Costs	\$ 36,153	\$ 30,128	\$ 29,968	\$ 160	0.53%
Debt Service Surplus/(Deficit)	\$ 3	\$ 2	\$ (3)		

Rate Center Summary

Total Revenues	\$ 444,276	\$ 370,230	\$ 371,452	\$ 1,222	0.33%
Total Expenses	444,267	370,222	398,043	(27,821)	-7.51%
Surplus/(Deficit)	\$ 9	\$ 8	\$ (26,591)		
Costs per 1000 Gallons	\$ 17.26		\$ 21.61		
Operating and DS	\$ 18.79		\$ 23.37		
Thousand Gallons Treated or Flow (MGD)	23,643	19,703	17,035	(2,668)	-13.54%
	0.065		0.056		

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Administration and Communication

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Payment for Services SWA	\$	364,200	\$	303,500	\$	303,500	\$	-	0.00%
Miscellaneous Revenue		-		-		6,034		6,034	
Total Operating Revenues	\$	364,200	\$	303,500	\$	309,534	\$	6,034	1.99%

Expenses

Personnel Cost	A, B	\$	1,348,563	\$	1,123,803	\$	1,193,915	\$	(70,112)	-6.24%
Professional Services	C		153,250		127,708		188,416		(60,707)	-47.54%
Other Services & Charges			161,100		134,250		110,742		23,508	17.51%
Communications			9,700		8,083		4,909		3,174	39.27%
Information Technology			5,000		4,167		4,708		(541)	-12.98%
Supplies			14,000		11,667		13,527		(1,860)	-15.95%
Operations & Maintenance			57,250		47,708		47,025		683	1.43%
Equipment Purchases			9,000		7,500		7,500		-	0.00%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	1,757,863	\$	1,464,886	\$	1,570,742	\$	(105,856)	-7.23%

Department Summary

Net Costs Allocable to Rate Centers	\$	(1,393,663)	\$	(1,161,386)	\$	(1,261,208)	\$	99,822	-8.60%
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Allocations to the Rate Centers

Urban Water	44.00%	\$	613,212	\$	511,010	\$	554,931	\$	(43,921)
Crozet Water	4.00%	\$	55,747		46,455		50,448		(3,993)
Scottsville Water	2.00%	\$	27,873		23,228		25,224		(1,996)
Urban Wastewater	48.00%	\$	668,958		557,465		605,380		(47,914)
Glenmore Wastewater	1.00%	\$	13,937		11,614		12,612		(998)
Scottsville Wastewater	1.00%	\$	13,937		11,614		12,612		(998)
	100.00%	\$	1,393,663	\$	1,161,386	\$	1,261,208	\$	(99,822)

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Finance and Information Technology

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

		Notes								
Revenues										
Payment for Services SWA		\$	541,000	\$	450,833	\$	450,833	\$	0	0.00%
Miscellaneous Revenue			-		-		2,512		2,512	
Total Operating Revenues		\$	541,000	\$	450,833	\$	453,345	\$	2,512	0.56%
Expenses										
Personnel Cost	A, B	\$	2,083,478	\$	1,736,232	\$	1,800,248	\$	(64,016)	-3.69%
Professional Services	C		42,000		35,000		46,049		(11,049)	-31.57%
Other Services & Charges			46,000		38,333		43,503		(5,170)	-13.49%
Communication	F		65,000		54,167		64,876		(10,709)	-19.77%
Information Technology	D		962,850		802,375		950,199		(147,824)	-18.42%
Supplies			14,500		12,083		6,693		5,391	44.61%
Operations & Maintenance			5,000		4,167		5,537		(1,371)	-32.89%
Equipment Purchases			7,500		6,250		6,250		-	0.00%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	3,226,328	\$	2,688,607	\$	2,923,354	\$	(234,747)	-8.73%

Department Summary

Net Costs Allocable to Rate Centers		\$	(2,685,328)	\$	(2,237,773)	\$	(2,470,008)	\$	232,235	-10.38%
<u>Allocations to the Rate Centers</u>										
Urban Water	44.00%	\$	1,181,544	\$	984,620	\$	1,086,804	\$	(102,183)	
Crozet Water	4.00%	\$	107,413		89,511		98,800		(9,289)	
Scottsville Water	2.00%	\$	53,707		44,755		49,400		(4,645)	
Urban Wastewater	48.00%	\$	1,288,957		1,074,131		1,185,604		(111,473)	
Glenmore Wastewater	1.00%	\$	26,853		22,378		24,700		(2,322)	
Scottsville Wastewater	1.00%	\$	26,853		22,378		24,700		(2,322)	
	100.00%	\$	2,685,328	\$	2,237,773	\$	2,470,008	\$	(232,235)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Maintenance

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Payment for Services SWA	\$	-	\$	-	\$	-	\$	-
Miscellaneous Revenue		-		-		6,858		6,858
Total Operating Revenues	\$	-	\$	-	\$	6,858	\$	6,858

Expenses

Personnel Cost	B	\$	1,645,860	\$	1,371,550	\$	1,415,897	\$	(44,347)	-3.23%
Professional Services			10,000		8,333		-		8,333	100.00%
Other Services & Charges			29,140		24,283		26,534		(2,250)	-9.27%
Communications			16,200		13,500		17,311		(3,811)	-28.23%
Information Technology			7,500		6,250		3,159		3,091	49.46%
Supplies			3,500		2,917		-		2,917	100.00%
Operations & Maintenance			138,800		115,667		103,521		12,146	10.50%
Equipment Purchases			145,750		121,458		111,304		10,155	8.36%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	1,996,750	\$	1,663,959	\$	1,677,725	\$	(13,766)	-0.83%

Department Summary

Net Costs Allocable to Rate Centers		\$	(1,996,750)	\$	(1,663,959)	\$	(1,670,867)	\$	20,624	-1.24%
<u>Allocations to the Rate Centers</u>										
Urban Water	30.00%	\$	599,025	\$	499,188	\$	501,260	\$	(2,072)	
Crozet Water	3.50%		69,886		58,239		58,480		(242)	
Scottsville Water	3.50%		69,886		58,239		58,480		(242)	
Urban Wastewater	56.50%		1,128,164		940,137		944,040		(3,903)	
Glenmore Wastewater	3.50%		69,886		58,239		58,480		(242)	
Scottsville Wastewater	3.00%		59,903		49,919		50,126		(207)	
	100.00%	\$	1,996,750	\$	1,663,959	\$	1,670,867	\$	(6,908)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Laboratory

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Revenues Notes

N/A

Expenses

Personnel Cost	\$ 463,225	\$ 386,021	\$ 388,614	\$ (2,593)	-0.67%
Professional Services	-	-	-	-	
Other Services & Charges	9,550	7,958	6,488	1,470	18.47%
Communications	1,050	875	1,240	(365)	-41.76%
Information Technology	-	-	5,629	(5,629)	
Supplies	1,300	1,083	2,120	(1,036)	-95.67%
Operations & Maintenance	133,600	111,333	95,443	15,890	14.27%
Equipment Purchases	23,900	19,917	3,498	16,419	82.44%
Depreciation	-	-	-	-	
Total Operating Expenses	\$ 632,625	\$ 527,188	\$ 503,033	\$ 24,155	4.58%

Department Summary

Net Costs Allocable to Rate Centers		\$ (632,625)	\$ (527,188)	\$ (503,033)	\$ (24,155)	4.58%
<u>Allocations to the Rate Centers</u>						
Urban Water	44.00%	\$ 278,355	\$ 231,963	\$ 221,335	\$ 10,628	
Crozet Water	4.00%	25,305	21,088	20,121	966	
Scottsville Water	2.00%	12,653	10,544	10,061	483	
Urban Wastewater	47.00%	297,334	247,778	236,426	11,353	
Glenmore Wastewater	1.50%	9,489	7,908	7,545	362	
Scottsville Wastewater	1.50%	9,489	7,908	7,545	362	
	100.00%	\$ 632,625	\$ 527,188	\$ 503,033	\$ 24,155	

Rivanna Water & Sewer Authority
Monthly Financial Statements - April 2025

Engineering

<i>Budget FY 2025</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual

Notes

Revenues

Payment for Services SWA	\$	-	\$	-	\$	15,175	\$	15,175
<i>Total Operating Revenues</i>	\$	-	\$	-	\$	15,175	\$	15,175

Expenses

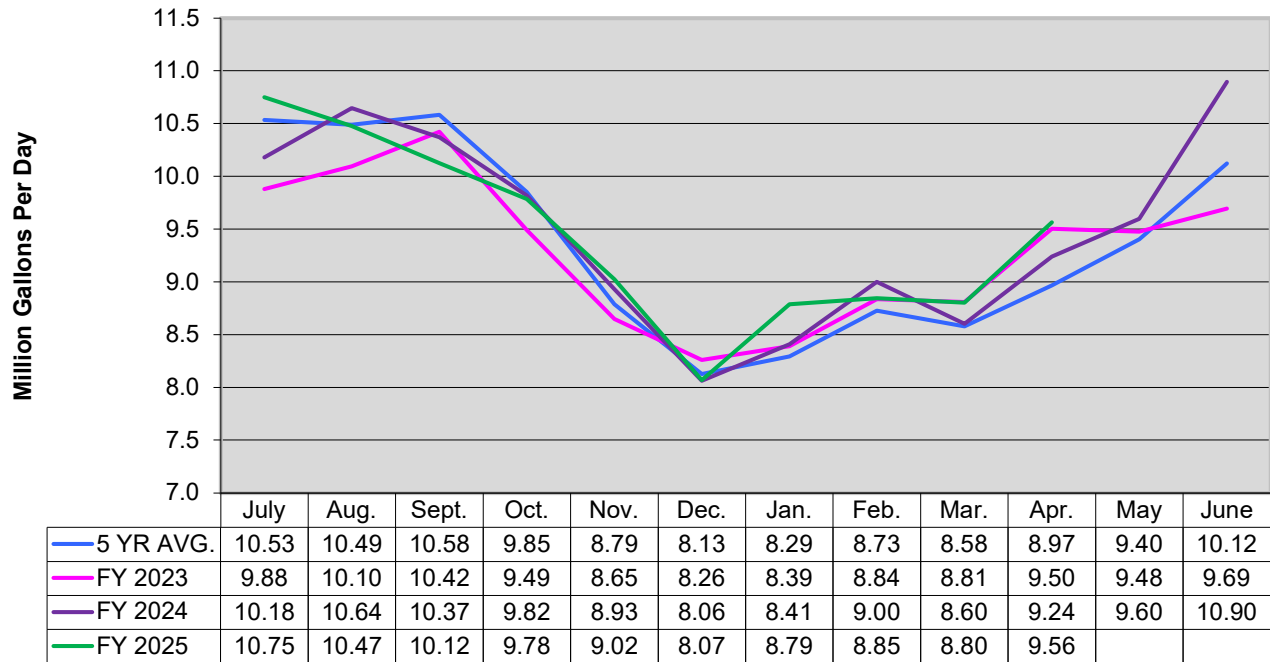
Personnel Cost	\$	2,216,684	\$	1,847,237	\$	1,671,590	\$	175,647	9.51%
Professional Services		32,500		27,083		6,905		20,178	74.50%
Other Services & Charges		20,465		17,054		10,029		7,025	41.19%
Communications		15,150		12,625		12,500		125	0.99%
Information Technology		211,900		176,583		81,867		94,716	53.64%
Supplies		5,600		4,667		5,335		(668)	-14.32%
Operations & Maintenance		82,620		68,850		49,303		19,547	28.39%
Equipment Purchases		21,500		17,917		17,917		0	0.00%
Depreciation		-		-		-		-	
<i>Total Operating Expenses</i>	\$	2,606,419	\$	2,172,016	\$	1,855,447	\$	316,569	14.57%

Department Summary

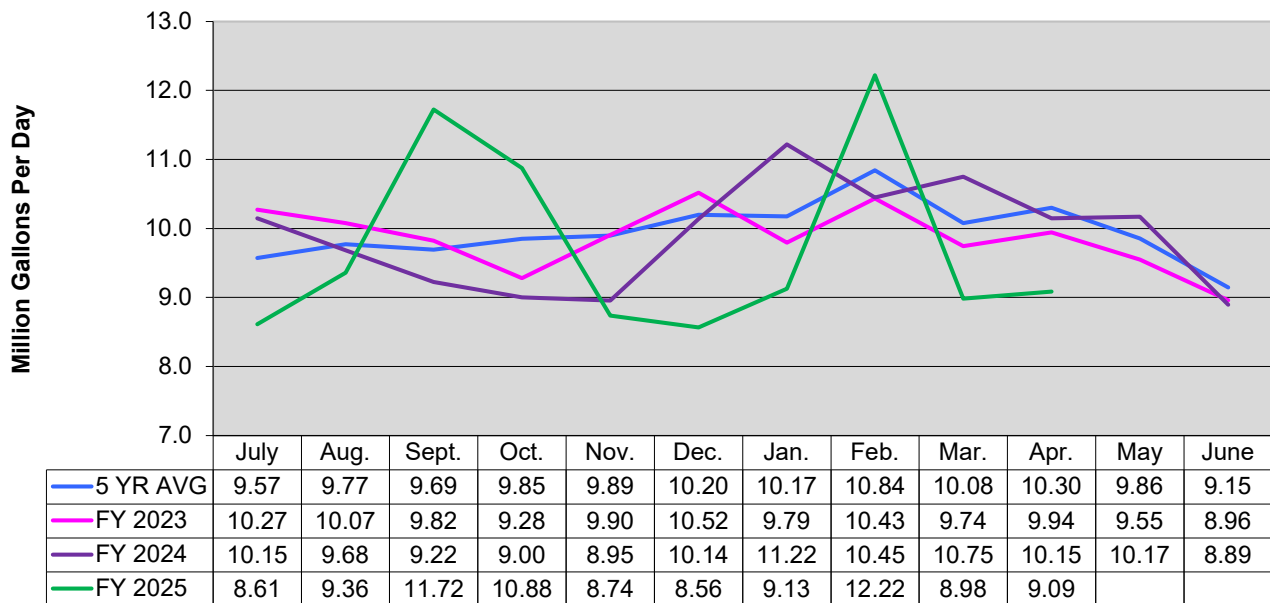
Net Costs Allocable to Rate Centers		\$	(2,606,419)	\$	(2,172,016)	\$	(1,840,271)	\$	(301,394)	13.88%
<u>Allocations to the Rate Centers</u>										
Urban Water	47.00%	\$	1,225,017	\$	1,020,847	\$	864,928	\$	155,920	
Crozet Water	4.00%		104,257		86,881		73,611		13,270	
Scottsville Water	2.00%		52,128		43,440		36,805		6,635	
Urban Wastewater	44.00%		1,146,824		955,687		809,719		145,968	
Glenmore Wastewater	1.50%		39,096		32,580		27,604		4,976	
Scottsville Wastewater	1.50%		39,096		32,580		27,604		4,976	
	100.00%	\$	2,606,419	\$	2,172,016	\$	1,840,271	\$	331,744	

**Rivanna Water and Sewer Authority
Flow Graphs**

Urban Water Flows



Urban Wastewater Flows



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: DANIEL G. CAMPBELL, DIRECTOR OF OPERATIONS &
ENVIRONMENTAL SERVICES**

**REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR**

SUBJECT: OPERATIONS REPORT FOR MAY 2025

DATE: JUNE 24, 2025

WATER OPERATIONS:

The average and maximum daily water volumes produced in May 2025 were as follows:

<i>Water Treatment Plant</i>	<i>Average Daily Production (MGD)</i>	<i>Maximum Daily Production in the Month (MGD)</i>
South Rivanna	8.12	9.83 (5/3/2025)
Observatory	1.15	2.32 (5/23/2025)
North Rivanna	<u>0.14</u>	<u>0.46 (5/20/2025)</u>
<i>Urban Total</i>	9.41	11.24 (5/3/2025)
Crozet	0.64	0.77 (5/1/2025)
Scottsville	0.04	0.084 (5/6/2025)
Red Hill	<u>0.0025</u>	0.005 (5/19/2025)
<i>RWSA Total</i>	10.09	-

- All RWSA water treatment facilities were in regulatory compliance during the month of May.

Status of Reservoirs (as of June 18, 2025):

- Urban Reservoirs are 97% of Total Useable Capacity
 - South Rivanna Reservoir is 100% full
 - Ragged Mountain Reservoir is 100% full
 - Sugar Hollow Reservoir is 79% full (water level lowered to complete bladder piping improvements)
- Beaver Creek Reservoir (Crozet) is 100% full

- Totier Creek Reservoir (Scottsville) is 100% full

WASTEWATER OPERATIONS:

All RWSA Water Resource Recovery Facilities (WRRFs) were in regulatory compliance with their effluent limitations during May 2025. Performance of the WRRFs in May was as follows compared to the respective VDEQ permit limits:

<i>WRRF</i>	<i>Average Daily Effluent Flow (MGD)</i>	<i>Average CBOD₅ (ppm)</i>		<i>Average Total Suspended Solids (ppm)</i>		<i>Average Ammonia (ppm)</i>	
		<i>RESULT</i>	<i>LIMIT</i>	<i>RESULT</i>	<i>LIMIT</i>	<i>RESULT</i>	<i>LIMIT</i>
Moore's Creek	10.91	<QL	9	<QL	22	0.20	2.2
Glenmore	0.163	<QL	15	3.1	30	NR	NL
Scottsville	0.063	<QL	25	4.3	30	NR	NL
Stone Robinson	0.002	4	25	5.0	30	NR	NL

NR = Not Required

NL = No Limit

<QL: Less than analytical method quantitative level (2.0 ppm for CBOD, 1.0 ppm for TSS, and 0.1 ppm for Ammonia).

Nutrient discharges at the Moore's Creek AWRRF were as follows for May 2025.

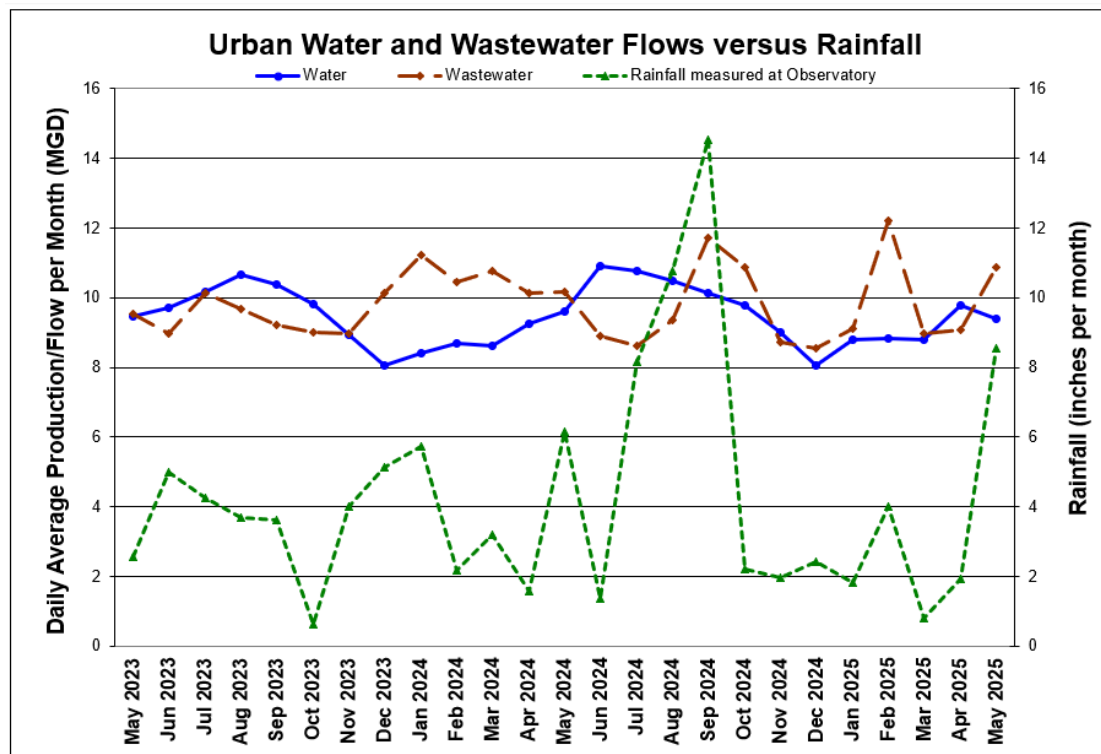
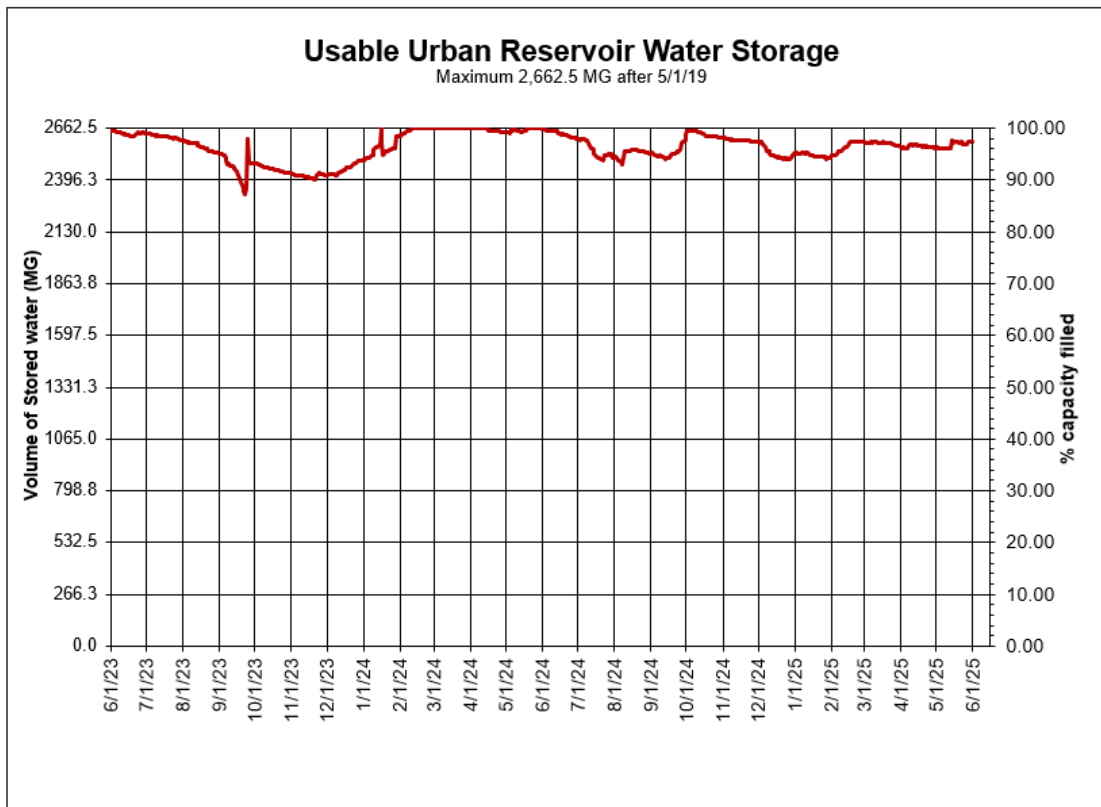
<i>State Annual Allocation (lb./yr.) Permit</i>		<i>Average Monthly Allocation (lb./mo.) *</i>	<i>Moore's Creek Discharge May (lb./mo.)</i>	<i>Performance as % of monthly average Allocation *</i>	<i>Year to Date Performance as % of annual allocation</i>
Nitrogen	282,994	23,583	4,760	20%	18%
Phosphorous	18,525	1,636	237	14%	7%

*State allocations are expressed as annual amounts. One-twelfth of that allocation is an internal monthly benchmark for comparative purposes only.

WATER AND WASTEWATER DATA:

The following graphs are provided for review:

- Usable Urban Reservoir Water Storage
- Urban Water and Wastewater Flows versus Rainfall



MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: JENNIFER WHITAKER, DIRECTOR OF ENGINEERING & MAINTENANCE

REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: CIP PROJECTS REPORT

DATE: JUNE 24, 2025

This memorandum reports on the status of the following major Capital Projects as well as other significant operating, maintenance, and planning projects. *Recent budget changes, if any, are highlighted in the project information below.*

For the current CIP and additional project information, please visit: <https://www.rivanna.org/wp-content/uploads/2024/06/2025-2029-CIP-Final-Draft.pdf>

Summary

	Project	Construction Start Date	Construction Completion Date
1	Central Water Line, Phase 1	October 2025	December 2029
2	Red Hill Water Treatment Plant Upgrades	January 2025	June 2026
3	South Fork Rivanna River Crossing	December 2024	January 2027
4	RMR to OBWTP Raw Water Line and Pump Station	February 2025	June 2029
5	MC Building Upfits and Gravity Thickener Improvements	May 2025	May 2027
6	MC Structural and Concrete Rehabilitation	May 2025	May 2027
7	Crozet Pump Stations Rehabilitation	April 2026	April 2028
8	MC Administration Building Renovation and Addition	June 2025	December 2027
9	SRWTP – PAC Upgrades	November 2025	June 2027
10	RMR Pool Raise	September 2025	December 2026
11	Crozet WTP GAC Expansion – Phase I	January 2026	September 2027
12	Central Water Line, Phase 2	March 2026	May 2028
13	MC Pump Station Slide Gates, Valves, Bypass, and Septage Receiving Upgrades	March 2026	October 2027
14	SRR to RMR Pipeline, Intake, and Facilities	February 2026	December 2030
15	Beaver Creek Dam, Pump Station, and Piping	May 2026	January 2030
16	Upper Schenks Branch Interceptor, Phase II	2026	2027

17	SRWTP Permanganate Improvements	June 2026	August 2027
18	Glenmore WRRF Phase 1	June 2026	January 2028
19	Dam Concrete and Steel Repairs	January 2026	December 2026
20	SVWRRF Generator	January 2026	June 2027

Under Construction

1. Central Water Line, Phase 1
2. Red Hill Water Treatment Plant Upgrades
3. South Fork Rivanna River Crossing
4. RMR to OBWTP Raw Water Line and Pump Station
5. MC Building Upfits and Gravity Thickener Improvements
6. MC Structural and Concrete Rehabilitation
7. Crozet Pump Stations Rehabilitation
8. MC Administration Building Renovation and Addition
9. SRWTP – PAC Upgrades
10. RMR Pool Raise

Design and Bidding

11. Crozet WTP GAC Expansion – Phase I
12. Central Water Line, Phase 2
13. MC Pump Station Slide Gates, Valves, Bypass, and Septage Receiving Upgrades
14. SFRR to RMR Pipeline, Intake, and Facilities
15. Beaver Creek Dam, Pump Station, and Piping
16. Upper Schenks Branch Interceptor, Phase II
17. SRWTP Permanganate Improvements
18. Glenmore WRRF Upgrade Phase 1
19. Dam Concrete and Steel Repairs
20. SVWRRF Generator

Planning and Studies

21. MCAWRRF Biogas Upgrades
22. Flood Protection Resiliency Study

Other Significant Projects

23. Urgent and Emergency Repairs
24. Security Enhancements

Under Construction

1. Central Water Line, Phase 1

Design Engineer:	Michael Baker International (Baker)
Project Start:	July 2021
Project Status:	Award
Construction Start:	October 2025
Completion:	December 2029
Budget:	\$58 M

Current Status: **Phase 1 (west end):** Award of a construction contract award will be recommended this month.

2. Red Hill Water Treatment Plant Upgrades

Design Engineer:	Short Elliot Hendrickson (SEH)
Construction Contractor:	Anderson Construction (Lynchburg)
Construction Start:	January 2025
Percent Complete:	10%
Base Construction Contract +	
Change Order to Date = Current Value:	\$2,067,000 - \$324,625 = \$1,742,375
Completion:	June 2026
Budget:	\$2.05 M

Current Status: Work on the existing pressure tank has continued this month. The site plan has been approved and the building permit will follow later this month. Construction of the building expansion will begin shortly after the building permit is approved.

3. South Fork Rivanna River Crossing

Design Engineer:	Michael Baker International (Baker)
Construction Contractor:	Faulconer (Charlottesville)
Construction Start:	December 2024
Percent Complete:	15%
Base Construction Contract +	
Change Order to Date = Current Value:	\$4,916,940
Completion:	January 2027
Budget:	\$6.25 M

Current Status: Horizontal Directional Drilling subcontractor has completed the pilot hole for the 1,200 LF directional drill and is now back reaming to enlarge the opening for the water line. A portion of Old Rio Mills Road will be closed for several months as construction of the new 24" water line begins. Contractor is planning to blast along Old Rio Mills Rd. Review of the blasting plan is in progress.

4. Ragged Mountain Reservoir to Observatory Water Treatment Plant Raw Water Line and Pump Station

Design Engineer:	Kimley-Horn
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Construction Contractor:	Thalle Construction (North Carolina)
Construction Start:	February 2025
Percent Complete:	7%
Base Construction Contract +	
Change Order to Date = Current Value:	\$56,532,000 - \$2,779,390 = \$53,752,610
Completion:	June 2029
Budget:	\$61.49 M

Current Status: Pipe installation in Hereford Drive near the OBWTP is underway during UVA's summer break to minimize impacts on students, faculty, and staff.

5. **MCAWRRE Building Upfits and Gravity Thickener Improvements**

Design Engineer:	Short Elliot Hendrickson (SEH)
Construction Contractor:	English (Lynchburg, VA)
Construction Start:	May 2025
Percent Complete:	5%
Base Construction Contract+	
Change Order to Date = Current Value:	\$9,821,000 - \$189,500 = \$9,631,500
Completion:	May 2027
Budget:	\$11.8 M

Current Status: The contractor has mobilized equipment and an office trailer to the site and is ordering materials as shop drawings are approved.

6. **MCAWRRE Structural and Concrete Rehabilitation**

Design Engineer:	Hazen and Sawyer (Hazen)
Construction Contractor:	WM Schlosser (Hyattsville, MD)
Construction Start:	May 2025
Percent Complete:	2%
Base Construction Contract+	
Change Order to Date = Current Value:	\$13,866,000 - \$898,500 = \$12,967,500
Completion:	May 2027
Budget:	\$15.5 M

Current Status: The contractor has mobilized equipment and an office trailer to the site. Sandblasting and priming of the compost metal structure has begun.

7. **Crozet Pump Stations Rehabilitation**

Design Engineer:	Wiley Wilson
Construction Contractor:	Waco, Inc. (Sandston, VA)
Construction Start:	August 2025
Percent Complete:	5%
Base Construction Contract+	
Change Order to Date = Current Value:	\$9,583,350

Completion: April 2028
Budget: \$12.35 M

Current Status: Equipment submittals are being processed, and materials are being ordered. We anticipate lengthy material delivery times.

8. Moores Creek Administration Building Renovation and Addition

Design Engineer: SEH
Construction Contractor: Martin Horn (Charlottesville)
Construction Start: June 2025
Percent Complete: 2%
Base Construction Contract+:
Change Order to Date = Current Value \$22,094,000
Completion: December 2027
Budget: \$27.6 M

Current Status: A Notice to Proceed is anticipated this month to coincide with Site Plan approval from the County. Coordination efforts associated with temporary staff locations and interim network connectivity have begun, along with review of various shop drawings.

9. SRWTP – PAC Upgrades

Design Engineer: SEH
Construction Contractor: Waco, Inc (Sandston, VA)
Construction Start: November 2025
Percent Complete: 0%
Base Construction Contract+:
Change Order to Date = Current Value \$1,497,000
Completion: June 2027
Budget: \$1.82 M

Current Status: Bids were opened on May 14, 2025, and the project was awarded to Waco, Inc. at the May 2025 Board meeting.

10. RMR Pool Raise

Design Engineer: Schnabel Engineering
Project Start: April 2024
Project Status: Award
Construction Start: September 2025
Completion: December 2026
Budget: *\$13.2 M (Increased from \$6 M)*

Current Status: Construction bids were received on May 20th. Award of a construction contract is recommended this month.

Design and Bidding

11. Central Water Line, Phase 2

Design Engineer:	Michael Baker International (Baker)
Project Start:	July 2024
Project Status:	Design 60%
Construction Start:	March 2026
Completion:	May 2028
Budget:	\$21 M

Current Status: **Phase 2 (east end):** Survey work is complete, and design for the E. High Street area is underway. An additional private easement will be required as well as new easements on two City parcels.

12. Crozet GAC Expansion – Phase I

Design Engineer:	SEH
Project Start:	July 2023
Project Status:	100% Design
Construction Start:	January 2026
Completion:	September 2027
Budget:	\$10 M

Current Status: Project will be advertised for construction bids in July. \$6.24 M in grant funds from VDH are available for this project.

13. MC Pump Station Slide Gates, Valves, Bypass, and Septage Receiving Upgrades

Design Engineer:	Hazen and Sawyer (Hazen)
Project Start:	June 2023
Project Status:	90% Design
Construction Start:	March 2026
Completion:	October 2027
Budget:	\$9.7 M

Current Status: Staff are making decisions on the septage receiving equipment and billing software needed.

14. SFRR to RMR Pipeline, Intake, and Facilities

Design Engineer:	Kimley Horn/SEH
Project Start:	July 2023
Project Status:	85% Design
Construction Start:	February 2026
Completion:	December 2030
Budget:	\$117 M

Current Status: A Value Engineering workshop was held on June 3rd and 4th. The Design Engineer is working on follow-up analysis/evaluation stemming from the workshop. A pre-application meeting with Albemarle County was held on June 9th.

15. Beaver Creek Dam, Pump Station and Piping Improvements

Design Engineer:	Schnabel Engineering (Dam)
Design Engineer:	Hazen & Sawyer (Pump Station)
Project Start:	February 2018
Project Status:	70% Design
Construction Start:	May 2026
Completion:	January 2030
Budget:	\$62 M

Current Status: Hazen is proceeding with design of the pump station. Final design by Schnabel for the dam spillway upgrades, temporary detour, and spillway bridge is ongoing and accounting for some modifications to the primary spillway and the spillway bridge based on current regulations and comments from VDOT. Discussions with the County have been initiated for acquisition or lease of property for the Pump Station. A significant (\$20 M) construction grant from the NRCS is anticipated. A Value Engineering workshop was held on May 19 and 20, 2025 on the raw water pump station and intake structure and results from this workshop are being evaluated to determine what will be included in the design process.

16. Upper Schenks Branch Interceptor, Phase II

Design Engineer:	CHA Consulting
Project Start:	July 2021
Project Status:	Design
Construction Start:	2026
Completion:	2027
Budget:	\$6.4 M for RWSA section; \$11 – 15 M including City section

Current Status: Meetings with the County and City are ongoing to finalize the piping design.

17. SRWTP Permanganate Improvements

Design Engineer:	SEH
Project Start:	January 2025
Project Status:	50% Design
Construction Start:	June 2026
Completion:	August 2027
Budget:	\$400,000

Current Status: This project will replace chemical feed equipment at the end of its useful life and increase chemical containment capacity. Design is underway.

18. Glenmore WRRF Upgrade Phase 1

Design Engineer:	SEH
Project Start:	March 2025

Project Status:	Preliminary Engineering
Construction Start:	June 2026
Completion:	January 2028
Budget:	\$1.65 M

Current Status: This project will replace wastewater treatment equipment at the end of its useful life and reduce the noise generated from the aeration system blowers.

19. Dam Concrete and Steel Repairs

Design Engineer:	GAI Consultants
Project Start:	January 2025
Project Status:	10% Design
Construction Start:	January 2026
Completion:	December 2026
Budget:	\$1.28 M

Current Status: Structural assessments of the Sugar Hollow, South Rivanna, Lickinghole Creek, and Totier Creek dams were conducted by GAI in March 2025. Draft condition assessment reports are under review by staff.

20. SVWRRF Generator

Design Engineer:	Wiley Wilson
Project Start:	October 2022
Project Status:	20% Design
Construction Start:	January 2026
Completion:	June 2027
Budget:	\$0.9 M

Current Status: The Design Engineer has received the Geotechnical Report and is working on the revised design documents. Updated plans and specifications are anticipated in July.

Planning and Studies

21. MCAWRRF Biogas Upgrades

Design Engineer:	SEH
Project Start:	October 2021
Project Status:	Preliminary Engineering/Study (99%)
Completion:	December 2024
Budget:	\$6.2 M

Current Status: RWSA and City staff continue to discuss all available options to reuse biogas.

22. Flood Protection Resiliency Study

Design Engineer:	Hazen
Project Start:	August 2024

Project Status:
Completion:
Budget:

Preliminary Engineering/Study
Dec 2025
\$278,500

Current Status: This project will identify individualized flood mitigation measures for various facilities to increase their resiliency from a 1% to a 0.2% flooding event and will focus on facilities located at the Moores Creek AWRRF within those flood event boundaries. This project received \$198,930 in grant funding from FEMA and VDEM.

Other Significant Projects

23. Urgent and Emergency Repairs

Staff are currently working on several urgent repairs within the water and wastewater systems as listed below:

Project No.	Project Description	Approx. Cost
2023-01	Finished Water System ARV Repairs	\$150,000
2024-09	Stillhouse Waterline Erosion @ Ivy Creek	\$200,000
2025-03	Rivanna Interceptor Stream Crossing Repairs	TBD
2024-07	Wholesale Metering Valve Replacements (PTW-012)	\$90,000

- RWSA Finished Water ARV Repairs: RWSA Engineering staff recently met with Maintenance staff to identify a list of Air Release Valves (ARVs) that need to be repaired, replaced, or abandoned. Several of these locations will require assistance from RWSA On-Call Maintenance Contractors, due to the complexity of the sites (proximity to roadways, depth, etc.). The initial round will include seven (7) sites, all along the South Rivanna Waterline. Three replacements have been completed at this time, with a fourth site in progress. This in progress site included abandonment of an existing manual ARV located in the middle of the Route 29-Hydraulic intersection, which has been completed, and was a major coordination effort with VDOT, as they intend to pave this area in the coming weeks. The Contractor is working with VDOT on permits for the final sites. The remaining replacements will likely be scheduled starting in Spring 2025.
- Stillhouse Waterline Erosion at Ivy Creek: In November 2024, it was discovered that the banks of Ivy Creek had experienced significant erosion during some of the heavy rainstorms earlier in the Fall, and that the erosion was now intruding on RWSA's 12" Stillhouse Waterline. The area was temporarily armored with sandbags in December, to protect the waterline from further erosion in the interim. Staff are working with the USACOE to permit a permanent bank stabilization project, which will include placement of large rip-rap along the streambank. Given continued region-wide disaster relief efforts associated with Hurricane Helene, it is anticipated that permits may not be received until Spring 2025. RWSA intends to utilize its On-Call Maintenance Contractor, Faulconer Construction Company, for completion of this work and is seeking funding/reimbursement opportunities through FEMA. USACOE permitted the project on May 7th, with a time of year restriction that will not allow the work to start until August.
- Rivanna Interceptor Stream Crossing Repairs: In Spring 2025, during annual inspections performed by the RWSA Maintenance Department, erosion was identified at two stream crossings along the Rivanna Interceptor to the North of the Dunlora subdivision. RWSA is working with Digs to scope the repairs (including temporary repairs at one of the two sites), as well as with the

USACOE for permitting. Digs temporarily stabilized the worst of the two stream crossing sites with sandbags, to protect the pipe as the design of the repair is finalized.

- Wholesale Metering Valve Replacements (PTW-012): During the annual calibration of RWSA's Wholesale Water Meters last year, a handful of non-operational valves were identified by the RWSA Maintenance Department. One of such valves was PTW-012, a 1980s-vintage 24" butterfly valve, located in Darden Towle Park. Given the size of the valve, RWSA elected to utilize On-Call Maintenance Contractor, Faulconer Construction, for the repair. Faulconer mobilized to the site on June 2nd, and began excavation on June 3rd. On June 3rd, RWSA's 24" Pantops Waterline was damaged, causing a small leak at the site, adjacent to the valve to be replaced. Interim repairs were completed during the early AM hours of June 4th. The valve replacement began during the nighttime hours of June 4th and was completed during the afternoon of June 5th. This work was closely coordinated with ACSA, ACPR, and the adjacent Elk's Lodge.

24. Security Enhancements

Design Engineer:	Hazen & Sawyer
Construction Contractor:	Security 101 (Richmond, VA)
Construction Start:	March 2020
Percent Complete:	90% (WA9), 50% (WA #12)
Based Construction Contract +	
Change Orders to Date = Current Value:	\$718,428 (WA1) + \$1,006,804 (WA2-12)
Completion:	June 2025 (WA9), December 2025 (WA12)
Budget:	\$2.98 M

Current Status: WA9 will include installation of card access on all exterior doors at the South Rivanna WTP and has been amended to include interior doors at the new IT data center. WA12 includes installation of card access on all exterior doors at the Observatory WTP, as well as two small electrical buildings at MCAWRRF. Design of MCAWRRF entrance modifications with Hazen & Sawyer continues, with discussions with Dominion Energy also ongoing, as relocation of existing electrical infrastructure will be required. This relocation process will need to be finalized prior to the project proceeding to the bidding phase. Relocation of existing electrical infrastructure will require coordination with the adjacent landowner, as the infrastructure must be completely relocated from the entrance area. As these discussions are ongoing, staff have submitted appropriate permitting documents to Albemarle County.



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: BETSY NEMETH, DIRECTOR OF ADMINISTRATION AND
COMMUNICATIONS**

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: ADMINISTRATION AND COMMUNICATIONS REPORT

DATE: JUNE 24, 2025

Human Resources

Fiscal year-to-date turnover is 10.1% through June 6, 2025 for the fiscal year beginning on July 1, 2024, which includes two retirements.

We completed Open Enrollment for all employees for the next fiscal year which begins on July 1, 2025.

After working for RWSA for over 40 years, our Maintenance Manager, Greg Marrs will be retiring on July 1, 2025. We thank him for his many years of service and wish him well on the start of this new journey.

We are excited to announce that Steven Minnis, Sr., who has worked for us for over 30 years, has been promoted to the Maintenance Manager position,

We welcomed two interns in May who will work with us through the summer. Hannah Young is working with our IT department, and Sofia Beard is working in our Laboratory.

Safety

Our Maintenance team completed all-terrain vehicle use training in May. Our teams are also completing their First Aid/CPR/AED training, which will continue through June.

Community Outreach

On May 19, 2025, six people from the Albemarle County Service Authority toured our South Rivanna Water Treatment Plant.

May 4th through May 10th was National Drinking Water Week, and we posted throughout that week on our social media accounts about our people, infrastructure and partnerships.

We were very excited about letting the public know how we have changed our method for testing for nitrogen in wastewater. Our Laboratory Manager, Patricia Defibaugh even did an interview with NBC29 news!

MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER WHITAKER, DIRECTOR OF ENGINEERING &
MAINTENANCE**

**REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR**

SUBJECT: WHOLESALE METERING REPORT FOR MAY 2025

DATE: JUNE 24, 2025

The monthly and average daily Urban water system usages by the City and the ACSA for May 2025 were as follows:

		<i>Month</i>	<i>Daily Average</i>	
City Usage (gal)		139,223,640	4,491,085	47.8%
ACSA Usage (gal)		152,149,171	4,908,038	52.2%
Total (gal)		291,372,811	9,399,123	

The *RWSA Wholesale Metering Administrative and Implementation Policy* requires that water use be measured based upon the annual average daily water demand of the City and ACSA over the trailing twelve (12) consecutive month period. The *Water Cost Allocation Agreement (2012)* established a maximum water allocation for each party. If the annual average water usage of either party exceeds this value, a financial true-up would be required for the debt service charges related to the Ragged Mountain Dam and the SRR-RMR Pipeline projects. Below are graphs showing the calculated monthly water usage by each party dating back to the beginning of FY 21, the trailing twelve-month average (extended back to June 2024), and that usage relative to the maximum allocation for each party (6.71 MGD for the City and 11.99 MGD for ACSA). Completed in 2019 for a cost of about \$3.2 M, our Wholesale Metering Program consists of 25 remote meter locations around the City boundary and 3 finished water flow meters at treatment plants.

[illegible][illegible]

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

FROM: BETHANY HOUCHENS, WATER RESOURCES COORDINATOR

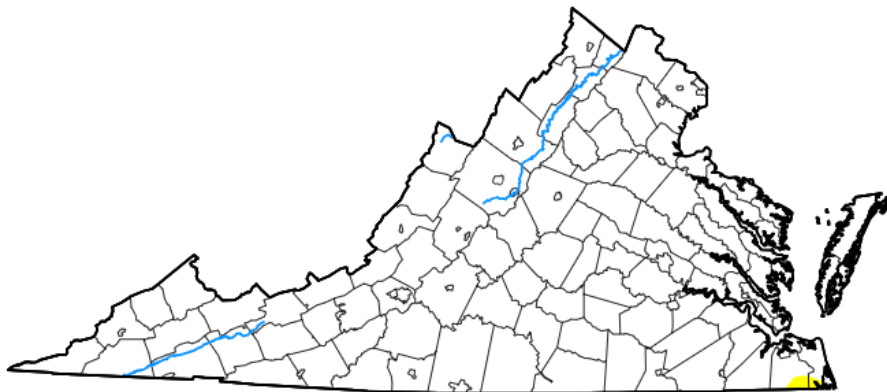
**REVIEWED: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR**

SUBJECT: DROUGHT MONITORING REPORT

DATE: JUNE 24, 2025

State and Federal Drought Monitoring as of June 15, 2025:

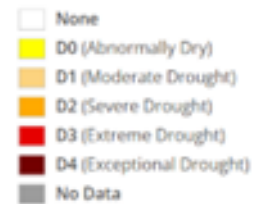
- U.S. Drought Monitoring Report: Indicates the City of Charlottesville and Albemarle County are not in drought conditions.



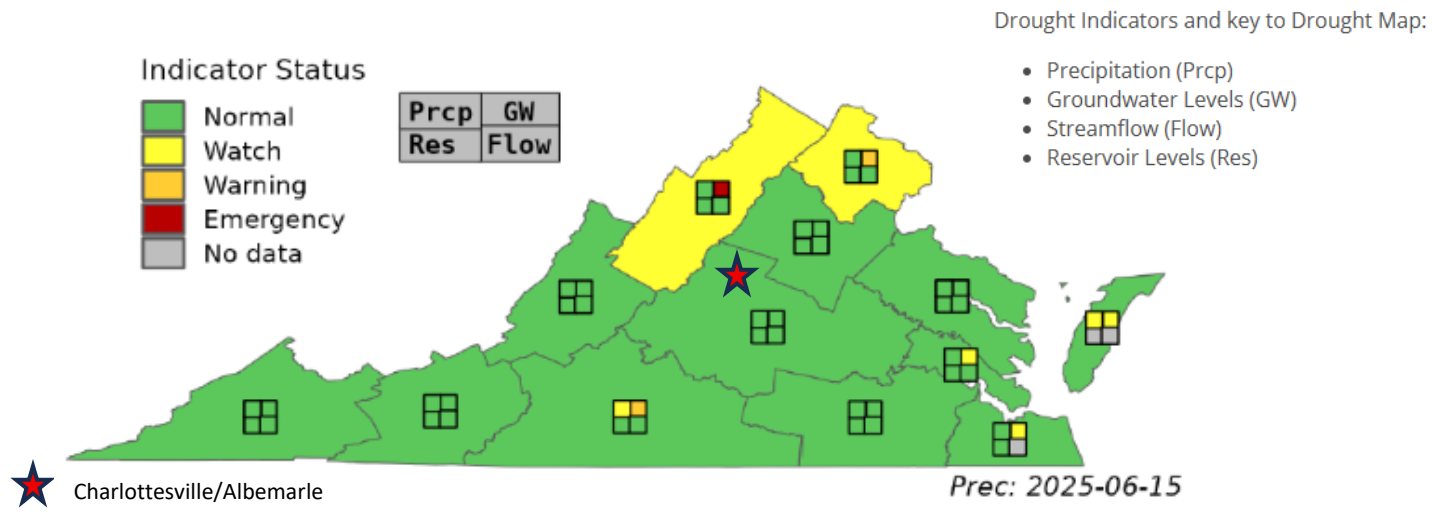
Map released: Thurs. June 12, 2025

Data valid: June 10, 2025 at 8 a.m. EDT

Intensity



- VDEQ Drought Status Report: Our region is listed as being in a “Normal” level for groundwater, streamflow, reservoir levels, and precipitation.



Precipitation & Stream Flows

Charlottesville Precipitation					
Year	Month	Observed (in.)	Normal (in.)	Departure (in.)	Comparison to Normal (%)
2021	Jan - Dec	33.82	41.61	-7.79	-19
2022	Jan - Dec	43.53	41.61	+1.92	+5
2023	Jan – Dec	26.95	41.61	-14.66	-35
2024	Jan - Dec	39.56	41.61	-2.05	-5
2025	Jan-May	14.38	16.19	-1.81	-12

Source: National Weather Service, National Climatic Data Center, Climate Summary for Charlottesville, Charlottesville Albemarle Airport station

USGS Stream Gaging Station Near the Urban Area (June 4-June 11)				
Gage Name	Rolling 7-day Avg. Stream Flow		Median Daily Streamflow	
	cfs	mgd	cfs	mgd
Mechums River	98.3	63.5	68	44
Moormans River	64.6	41.7	39	25.2
NF Rivanna River	254	164.1	65	42
SF Rivanna River	235.3	152.1	163	105.3

Median daily flow: June 11th for the period of record (approx. 30 - 80 years)

Status of Reservoirs as of June 18, 2025

- Urban Reservoirs are 97.36% of Total Useable Capacity
- Beaver Creek Reservoir (Crozet) is 100% of Total Useable Capacity
- Totier Creek Reservoir (Scottsville) is 100% of Total Useable Capacity

Drought History in Central Virginia

- Severe: 1838, 1930, 1966, 1982, 2002
- Longest: May 2007 - April 2009; 103 weeks
- Significant: every 10 -15 years
- Drought of Record: 2001- 2002; 18 months



MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: JENNIFER A. WHITAKER, DIRECTOR OF ENGINEERING AND
MAINTENANCE

REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: APPROVAL OF ENGINEERING SERVICES - CENTRAL WATER
LINE PROJECT PHASE 1 CONSTRUCTION SERVICES -
MICHAEL BAKER INTERNATIONAL

DATE: JUNE 24, 2025

This request is to authorize the Executive Director to execute a Work Authorization with the design engineering firm, Michael Baker International Inc., for construction phase services associated with Phase 1 of the Central Water Line project for a not-to-exceed fee of \$1.3 M.

Construction phase services for Phase 1 include attendance at pre-construction and monthly progress meetings; review of schedules and shop drawing submittals; review of requests for information, work change directives, field orders; requests for proposals, change orders, and pay requests; public outreach; preparation of record drawings for both the City and RWSA water line work; and part-time construction observation on an as-needed basis over the 42-month construction schedule.

Background

Early phases of this project (initially referred to as the Avon to Pantops Water Main) began in 2017. Due to the complicated nature of the finished water system, and several outstanding hydraulic considerations, the water line project was placed on hold while a comprehensive Urban Finished Water Master Plan was completed. The focus of this project was on the southern half of the urban area water system, which is currently served predominantly by the Avon Street and Pantops water storage tanks. The Avon Street tank is hydraulically well connected to the Observatory Water Treatment Plant, while the Pantops tank is well connected to the South Rivanna Water Treatment Plant. The hydraulic connectivity between the two tanks, however, is less than desired, creating operational challenges and reduced system flexibility. In 1987, the City and ACSA developed the Southern Loop Agreement to connect and strengthen the urban water system in two key phases (with the first being built at the time). The 1987 Agreement and planning efforts were a starting point for this current project.

An engineering contract was negotiated with Baker and approved by the Board of Directors in July 2017. Results from the Urban Finished Water Master Plan and the Central Water Line Routing

Study were discussed in multiple workshops with the City and ACSA staff, and it was determined during these meetings that a central water line corridor through the City was the best option to hydraulically interconnect the southern half of the urban area water system, meeting the intent of the original Avon to Pantops Water Main concept.

At the June 2021 Board meeting, the Board of Directors approved a work authorization to take the Central Water Line project from the routing study phase through the bidding phase. The scope of work included performing preliminary engineering, geotechnical investigations, subsurface utility engineering (SUE), survey, final design, permitting, plat preparation, public outreach, and bidding services for approximately five miles of new water line associated with the Central Water Line Project. At the June 2022 Board of Directors meeting, a resolution was approved to accept the Southern (Cherry Ave) Alignment for final design which included approximately 3,500 feet of 24" water line in the East High St. corridor.

Following the 90% design workshop held with the City and ACSA in March 2024, it was determined that there was not enough right-of-way in E. High St. to provide adequate underground, horizontal clearance and accommodate both the Central Water Line and the City's proposed 12" water line. Due to the tight E. High St. corridor, RWSA is currently designing an alternative alignment from 11th Street to Little High St. to Meade Ave. to Fairway Ave. and then through two City parcels adjacent to the Rivanna River.

The Central Water Line project has since been divided into two separate construction contracts so that the 4-mile Phase 1 work (from UVA at Hereford Dr. to the intersection of 10th St NE and E Market St) can proceed with construction while the 1-mile Phase 2 work (from the intersections of 10th St NE and E Market St to East High St and Long St) completes design, easement acquisition, and bidding. The Phase 1 work includes construction of a 2" City water line in Lewis St and an 8" water line in Cleveland Ave for which the City will reimburse RWSA.

Bids have been received for the Central Water Line Phase 1 work and authorization of the contract award is included in a separate Board Report this month. Construction phase services for Central Water Line Phase 1 include: attendance at pre-construction and monthly progress meetings, review of schedules and shop drawing submittals, review of requests for information (RFIs), work change directives, field orders, requests for proposals, change orders, and pay requests, public outreach, and preparation of record drawings for both the City and RWSA water line work, and part time construction observation over the 42-month construction schedule on an as needed basis.

Board Action Requested:

Authorize the Executive Director to execute a Work Authorization not to exceed \$1.3 M with Michael Baker International for additional professional engineering construction administration services to complete Phase 1 of the Central Water Line project, and any further amendments needed not to exceed 25% of the work authorization amount, provided the resulting total cost is within the approved CIP project budget.



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER A. WHITAKER, DIRECTOR OF ENGINEERING AND
MAINTENANCE**

**REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR**

**SUBJECT: APPROVAL OF CONSTRUCTION CONTRACT AWARD;
CENTRAL WATER LINE PHASE 1 PROJECT; SAGRES
CONSTRUCTION CORPORATION**

DATE: JUNE 24, 2025

This request is to authorize award of a contract for \$47,450,000 to Sagres Construction Corporation to construct the Central Water Line Phase 1 project.

Phase 1 includes approximately 4-miles of 24-inch and 30-inch ductile iron water line work extending from UVA (at Hereford Drive and Stadium Road) to the intersection of 10th Street NE and East Market Street. Several City water mains will be replaced where co-located with the Central Water Line in Lewis St. and Cleveland Ave. and the City will reimburse RWSA for that work. Construction will begin by October 2025 and be completed by December 2029. The total project budget including design, easements, construction, and construction administration is \$58 M.

Background

The southern half of the Urban Area water system is currently served by the Avon Street and Pantops storage tanks. The Avon Street tank is hydraulically well connected to the Observatory Water Treatment Plant while the Pantops tank is well connected to the South Rivanna Water Treatment Plant. The hydraulic connectivity between the two tanks, however, is less than desired, creating operational challenges and reducing system flexibility. In 1987, the City and ACSA developed the Southern Loop Agreement, outlining project phasing and cost allocations, as envisioned at the time. The first two phases of the project were constructed shortly thereafter. The third phase, known as the “Eastern Branch” is the subject of the current project. The initial funding for this project was used for route alignment determination, hydraulic modeling, and preliminary design. Due to the complicated nature of our finished water systems, it was decided at the August 2018 Board meeting that a more comprehensive approach was warranted and we should complete the Finished Water Master Plan prior to moving forward with final design and construction of the Avon to Pantops Water Main. The Finished Water Master plan was completed in 2021 and the Central Water Line project was prioritized for design and construction in coordination with the City and ACSA.

The overall project will consist of installing approximately 5 miles of new 24-inch and 30-inch ductile iron water main through City streets to connect the Observatory Water Treatment Plant to an existing RWSA transmission main at East High and Long Street to ensure the increased hydraulic capacity of 10 MGD from the water treatment plant upgrades can be utilized. The project has been split into 2 construction contracts and Phase 1 includes approximately 4-miles of 24-inch to 30-inch ductile iron water line work extending from UVA (at Hereford Drive and Stadium Road) to the intersection of 10th Street NE and East Market Street. As part of Phase 1, several City water mains will be replaced where co-located with the Central Water Line in Lewis St. and Cleveland Ave. and the City will reimburse RWSA for that work. Phase 2 is currently under design and bidding is anticipated later this year once easement acquisition and permitting is completed. A 12-inch City water line in East High St. (from Long St. to Meade Ave.) and an ACSA water line and wholesale water meter relocation will be constructed with Phase 2.

An Invitation for Bids (IFB #413) was issued on November 26, 2024. The initial pre-bid conference was held on December 9, 2024. Multiple addenda were issued to extend the bid opening date while the Engineer addressed City comments. A completely new set of plans was issued to potential bidders by addendum on April 11, 2025 and a second pre-bid conference was held April 22, 2025. Construction bids were opened for the project on May 8, 2025. Five bids were received for the project with total base bids ranging from \$39,706,846 (later corrected to \$39,688,973.15 due to a math error) to \$68,478,380.

Following the bid opening, our staff and consulting engineers extensively coordinated with the two lowest bidders to obtain and evaluate each firm's experience record in accordance with the requirements outlined in the specifications. Following a thorough review of the experience records and check of references, it was determined that the information provided by the apparent low bidder did not demonstrate that they met the experience requirements required for the Central Water Line Phase 1 project.

It was determined that the second low bidder, Sagres Construction Corporation of Alexandria, VA, was both responsive and responsible and their experience record meets the requirements of the project specifications. Sagres Construction Corporation's base bid of \$47,450,000 was 8.3% lower than the Engineer's estimate of \$51,791,235. The approved CIP budget for the Central Water Line project Phases 1 and 2 is \$79 M. Sagres Construction's bid amount plus 10% contingency for change orders is within the current CIP budget. The breakdown between RWSA's and City's portions of the water line work is \$46,680,267 and \$769,733 respectively.

Board Action Requested:

Staff requests the Board of Directors to authorize the Executive Director to award a construction contract to Sagres Construction Corporation for a total amount of \$47,450,000 and any change orders to the construction contract necessary for completion of the work not exceed 10% of the original construction contract award.



Central Water Line Project, Phase 1 Construction Contract Award

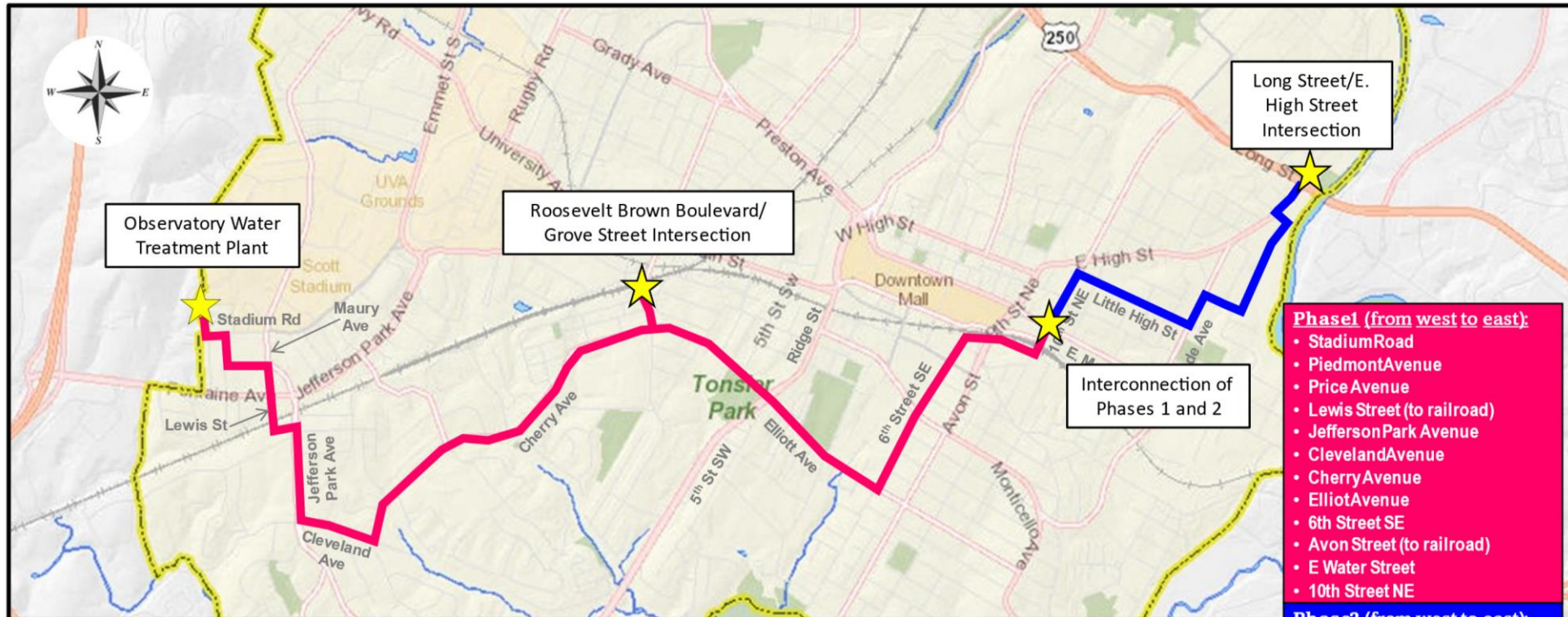
Presented to the Board of Directors by:

Michelle Simpson, Senior Civil Engineer

June 24, 2025



Central Water Line Project Map:



CENTRAL WATER LINE PROJECT PHASING MAP

PHASE 1 – Hereford Drive to E. Market Street

PHASE 2 – E. Market Street to E. High Street

OVERALL PROJECT MAP

Central Water Line Project, Phase 1

- 4-miles of 24-inch and 30-inch transmission water line primarily in City streets
- Improves hydraulic efficiency and redundancy in the Urban water system and allows utilization of the full 10 MGD capacity of the Observatory WTP



Observatory WTP

PROJECT OVERVIEW

BUDGET AND SCHEDULE

- 5 bids received on May 8, 2025
 - ranging from \$39,706,846 to \$68,478,380
 - low bidder did not meet experience requirements
- Construction Award recommended to Sagres Construction of Alexandria, VA for \$47,450,000
 - RWSA-\$46,680,267 and City-\$769,733
- Phase 1 budget = \$58 M
- Construction Schedule: October 2025 – December 2029

Central Water Line Project
Section 02 51 00: DIP
Part 1.07 Quality Assurance
1.07.C Contractor Experience

Name of Contactor: **Sagres Construction Corporation**

1. Installation of DIP for projects of similar size and type under similar field conditions? **YES**

2. Criteria: Competent Superintendent (Ornelas) and Pipe Crew

3 Similar Projects(name)		<u>>= 5000 LF</u>	<u>>= 24" DIP</u>	<u>Urban Setting Y/N</u>	<u>Last 7 Years Y/N</u>
1	D'arcy Rd. 24" Water Main Installation (WSSC)	5,426 LF	24"	Yes	Yes
2	Gravity One - Phase II 24" Water Main (Arlington County)	6,120 LF	24"	Yes	Yes
3	385B Pressure Zone Water Transmission Improvement Along Accokeek Road (WSSC)	23,170 LF	24"	Yes	Yes

CONTRACTOR EXPERIENCE

QUESTIONS?

Board Action Requested:

Authorize the Executive Director to award a construction contract for IFB #413 (Central Water Line Phase 1) to Sagres Construction Corporation for \$47,450,000 and to approve any change orders to the construction contract necessary for completion of the work not to exceed 10% of the original construction contract award.



MEMORANDUM

**TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS**

**FROM: JENNIFER A. WHITAKER, DIRECTOR OF ENGINEERING AND
MAINTENANCE**

**REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR**

**SUBJECT: APPROVAL OF CONSTRUCTION CONTRACT AWARD;
RAGGED MOUNTAIN RESERVOIR POOL RAISE PROJECT;
FAULCONER CONSTRUCTION COMPANY, INC.**

DATE: JUNE 24, 2025

This request is to authorize award of a contract for \$11,018,050 to Faulconer Construction Company, Inc. to complete the Ragged Mountain Pool Raise construction project. This project generally includes tree clearing around the perimeter of the reservoir, as well as installation of a blanket drain in the right abutment of the dam, installation of two concrete boat ramps, and modifications to the existing intake riser structure, floating trail bridge, and spill containment boom.

The total budget for this project will be \$13.16 M. This project is a part of the SFRR-RMR Pipe Intake, and Facilities project with a total budget of \$123 M in the approved FY 26-30 CIP.

Background

The New Ragged Mountain Dam was constructed in 2014. During the design process, after extensive collaboration with community stakeholders, the Ragged Mtn Dam Project Agreement (2012) stipulated that the dam be built to its full height, but that initially the reservoir pool would only be filled to an elevation of 671 ft msl. The dam and reservoir construction were able to accommodate a future additional pool elevation of 12 ft to 683 ft msl. In December 2023, the First Amendment to the Ragged Mountain Dam Agreement was approved by the parties authorizing RWSA to proceed with the additional 12' pool raise to increase the water storage capacity in the reservoir 700 million gallons for the benefit of our community. The project generally includes tree clearing around the perimeter of the reservoir, as well as installation of a blanket drain in the right abutment of the dam, installation of two concrete boat ramps, and modifications to the existing intake riser structure, floating trail bridge, and spill containment boom.

An Invitation for Bids (IFB #428) was issued on April 15, 2025. A pre-bid conference was held on April 24, 2025. Construction bids were opened for the project on May 20, 2025. One competitive bid was received for the project with a total base bid value of \$12,329,000, from Faulconer Construction Company, Inc.

Our design engineer, Schnabel Engineering, has reviewed the bid documents submitted by

Faulconer Construction and verified that the bid and attached documents are both responsive and responsible. Faulconer's base bid was 70% higher than the Engineer's estimate of \$7,223,000. RWSA and Schnabel staff worked with Faulconer to identify areas for potential cost savings. As a result of these cost-saving opportunities, Faulconer reduced its bid to \$11,018,050. Savings included clarifications associated with the existing culvert under I-64, the expansion of the City's lower parking lot, and trails relocation and coordination efforts as well as reductions in shoreline debris removal and I-64 embankment clearing. We also coordinated with Faulconer to include a \$100,000 deduction to allow timber harvesting. The burning of unusable cleared materials in burn boxes will still be required.

Faulconer's experience with RWSA spans many decades. Faulconer completed construction of the Sugar Hollow Dam in 1947. More recently, Faulconer is currently completing the South Fork Rivanna River Crossing Project and has held the On-Call Maintenance Construction Services Contract since 2016. With Faulconer's willingness to work with RWSA and Schnabel to find cost-savings opportunities, and the overall status of market conditions, Schnabel and staff recommend an award to Faulconer in the amount of \$11,018,050. A Post-Bid Modification Form will accompany the Contract Documents, formally accepting the cost savings opportunities mentioned above as a deduction from the original total base bid value.

The current CIP budget for the Ragged Mountain Pool Raise project is \$6,000,000. This project is funded out of the South Fork Rivanna to Ragged Mountain Reservoir Pipeline, Intake, and Facilities project, which has a current FY26-30 CIP budget of \$123,000,000. Based on our review, Schnabel and staff believe that the modified bid is fair and reasonable based on the current market value for the work.

Board Action Requested:

Authorize the Executive Director to award a construction contract to Faulconer Construction Company, Inc. for a total amount of \$11,018,050 (= \$12,329,000 bid amount less \$1,310,950 in reductions) and any change orders to the construction contract necessary for completion of the work not to exceed 10% of the original construction contract award.



Ragged Mtn Reservoir, Raise Normal Pool Level - Construction Award

Presented to the Board of Directors by:

G. Austin Marrs, P.E., Senior Civil Engineer

June 24, 2025



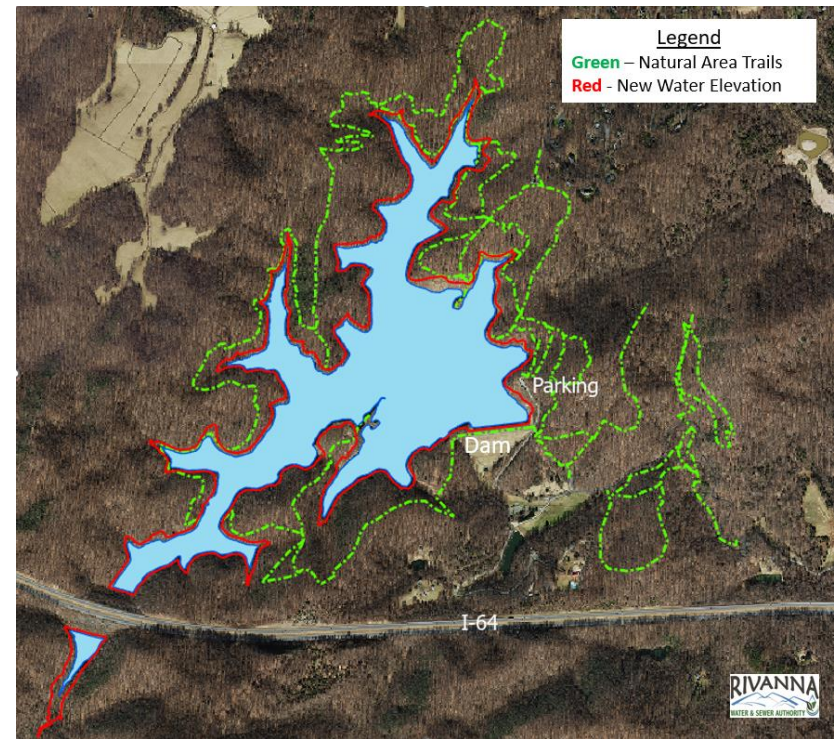
Ragged Mtn Reservoir, Raise Normal Pool Level Project

- 12 vertical feet of clearing around the reservoir to add 700 MG → 2.1 BG in total capacity
- Right abutment blanket drain
- 2 concrete boat ramps
- Modifications to riser structure, floating trail bridge, and spill containment boom
- Construction Award recommended to Falconer Construction
- Contract Amt: \$11,018,050



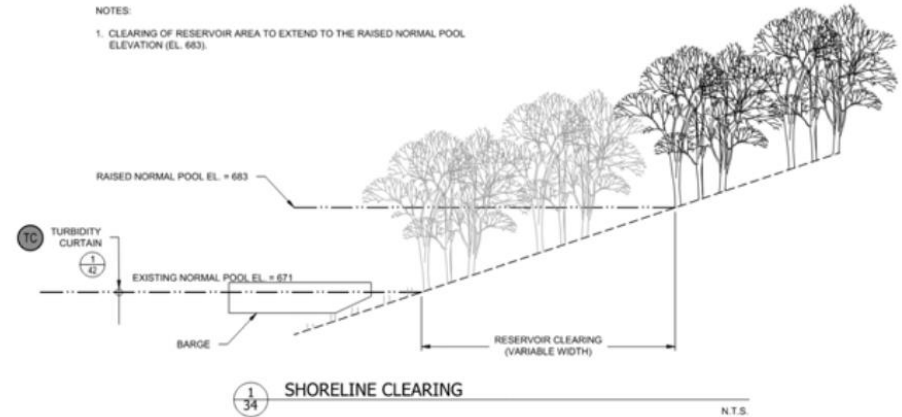
Clearing Overview

- 12 vertical feet around perimeter of reservoir
- Barges to be used for access to minimize trail/natural area impacts
- Burn boxes for disposal of vegetation
- Select timber harvesting - \$100,000 credit
- Time of year restriction
 - Can only clear between Nov 15 and March 31st



NOTES:

1. CLEARING OF RESERVOIR AREA TO EXTEND TO THE RAISED NORMAL POOL ELEVATION (EL. 683).



TREE CLEARING

Burn Boxes

- Utilized in construction of New Ragged Mountain Dam (2012 – 2014)
- Powered by small diesel engine, which burns <1 gal fuel/hr. Engine powers a fan which constantly runs, promoting efficient, high temperature burning.
- Burning will be conducted in accordance with Albemarle County and State requirements
- Burning will primarily consist of smaller, undesirable trees and scrub brush.



TREE CLEARING

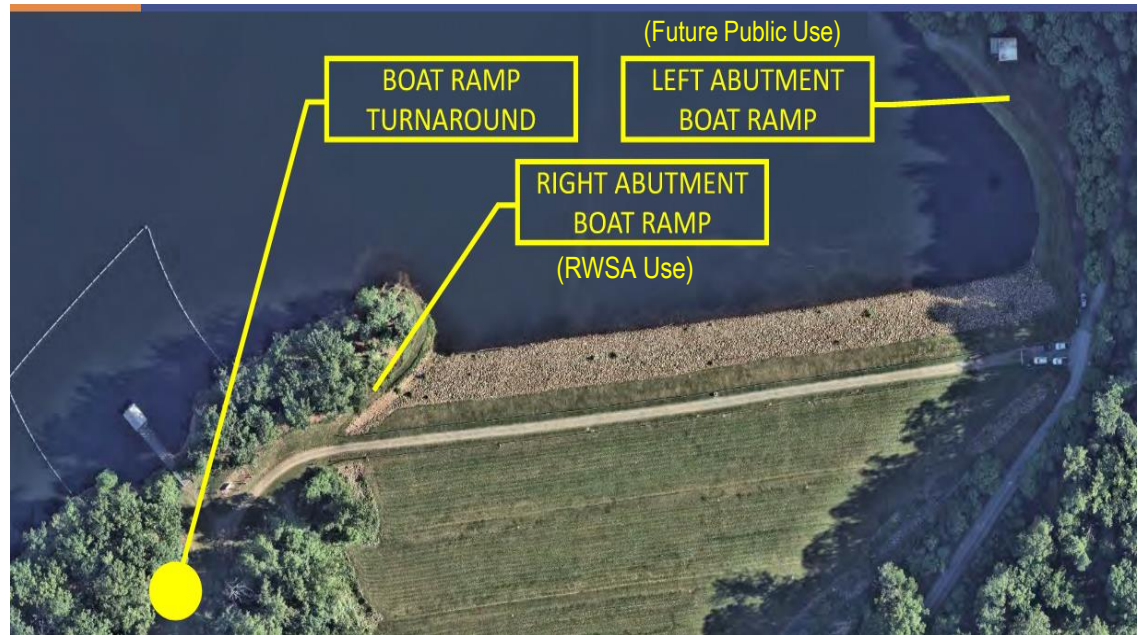
Improvements:

- Riser Tower
 - Air release valve
 - Blind flange to close off 671' elevation
- Extension of floating trail bridge and spill containment boom.
- Lower Area Parking Expansion
 - Collaboration w/ City Parks
 - Will provide fill for blanket drain



Boat Ramp Improvements:

- Improvement of existing gravel ramp – concrete
 - Future public ramp
- New concrete boat ramp
 - RWSA use only



BUDGET AND SCHEDULE

- Current CIP Budget - \$6M
- Final Engineer's Estimate - \$7.223M
 - Blanket drain added following geotechnical investigation
- 1 Bid received from Faulconer Construction
 - Original Bid - \$12,329,000
 - Revised Bid After Negotiations - \$11,018,050
- Total Budget: \$13.2 M
- Construction Schedule: Sept 2025 – Dec 2026

QUESTIONS?

Board Action Requested:

Authorize the Executive Director to award a construction contract to Faulconer Construction Company, Inc. for a total amount of \$11,018,050 (= \$12,329,000 bid amount less \$1,310,950 in reductions) and any change orders to the construction contract necessary for completion of the work not to exceed 10% of the original construction contract award.

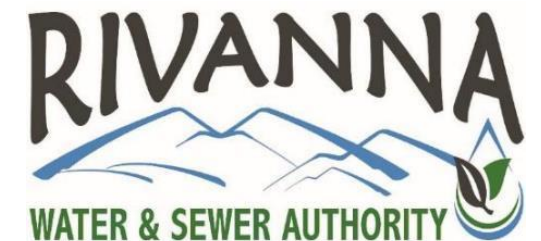
Northern Area Utilities Master Plan



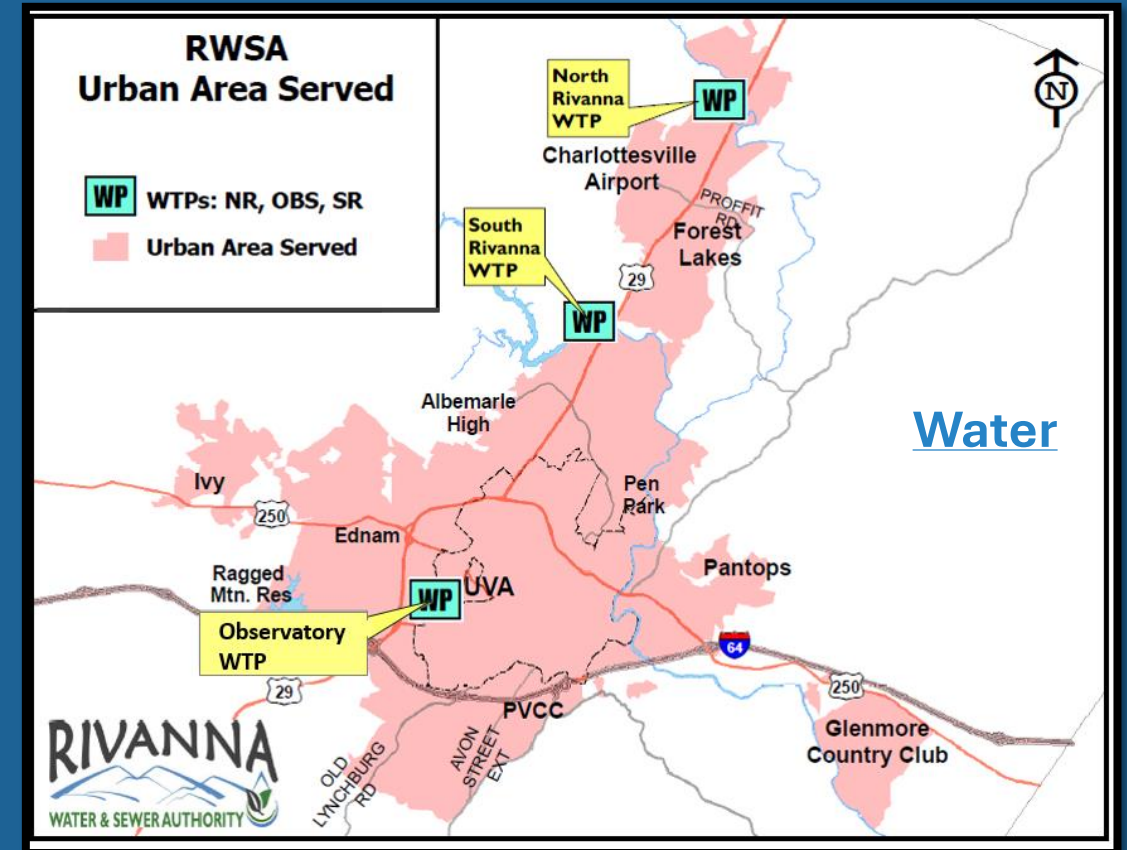
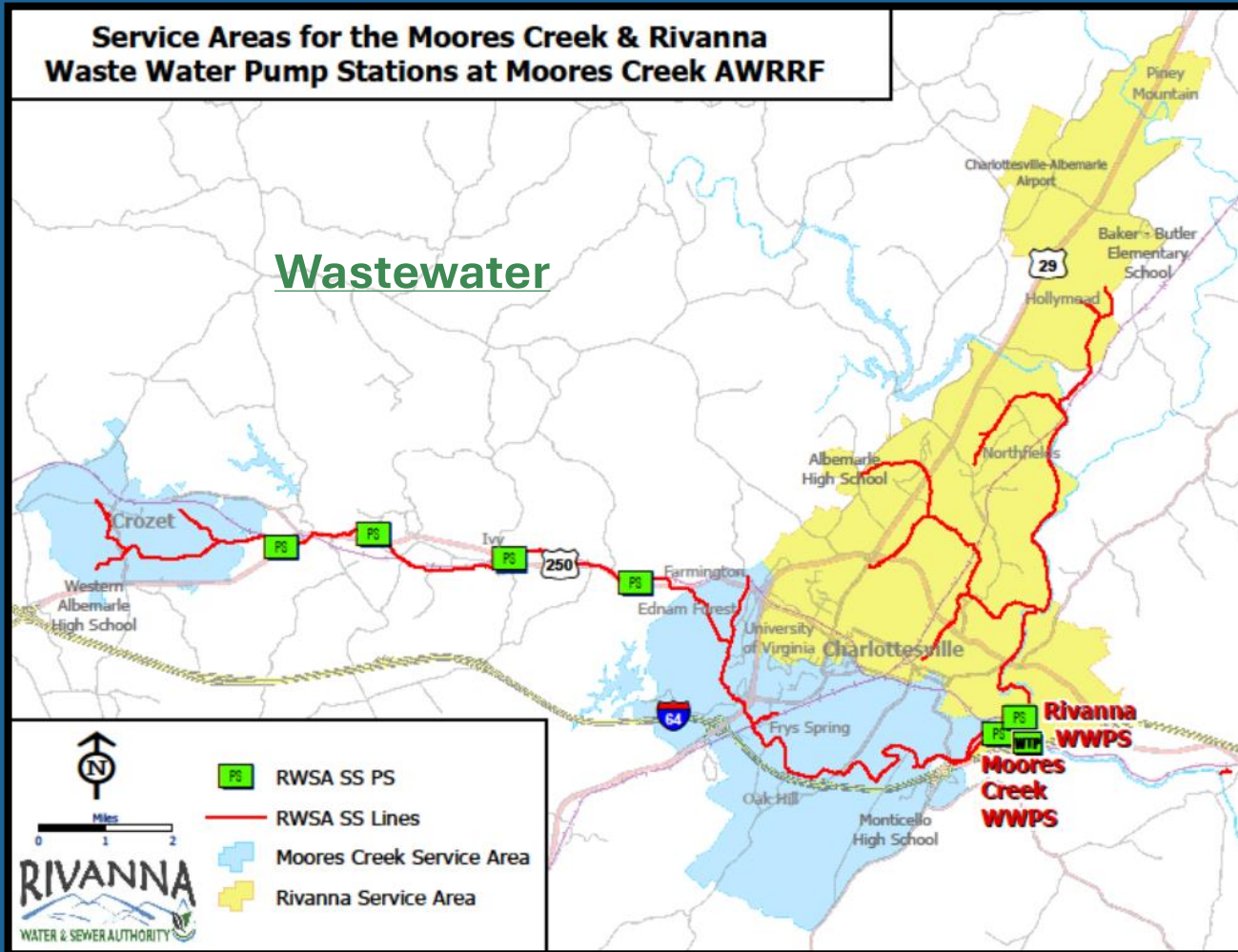
Presented to RWSA Board of Directors

By: Jennifer Whitaker, P.E. -Director of Engineering & Maintenance

June 24, 2025

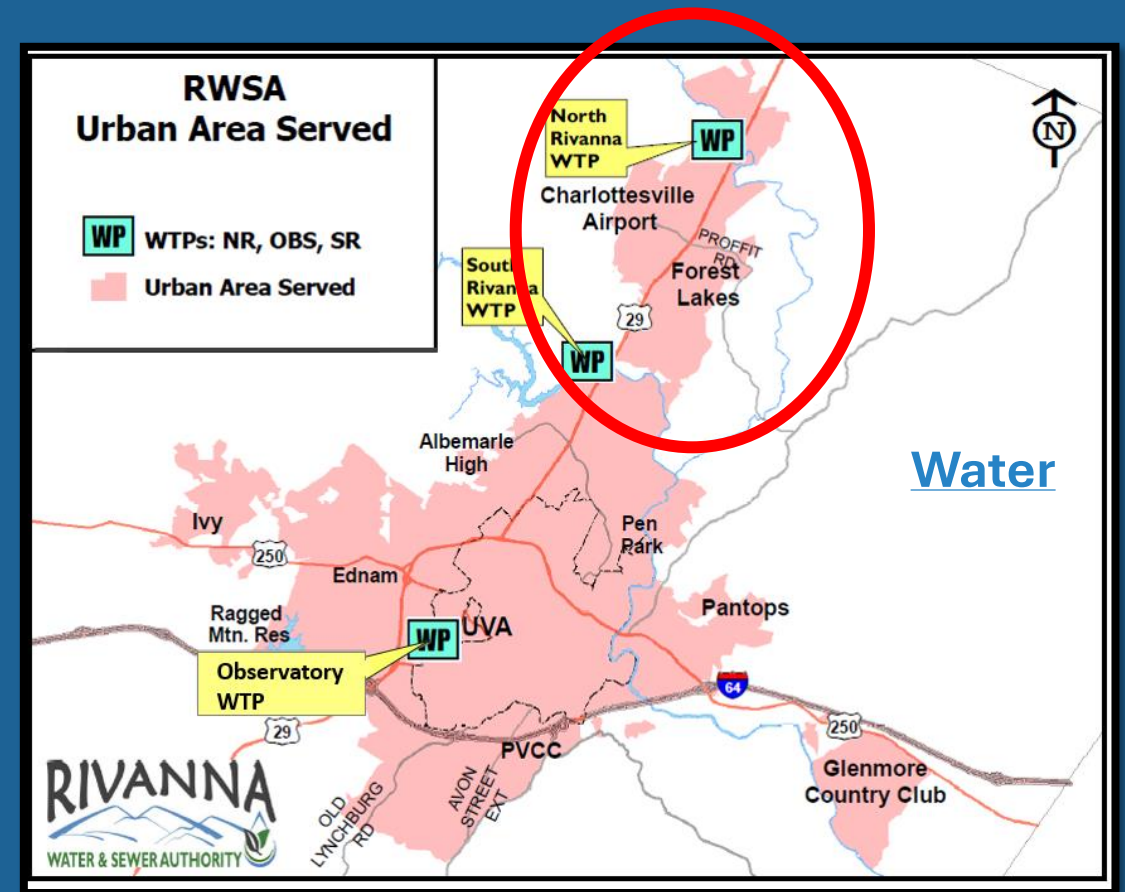
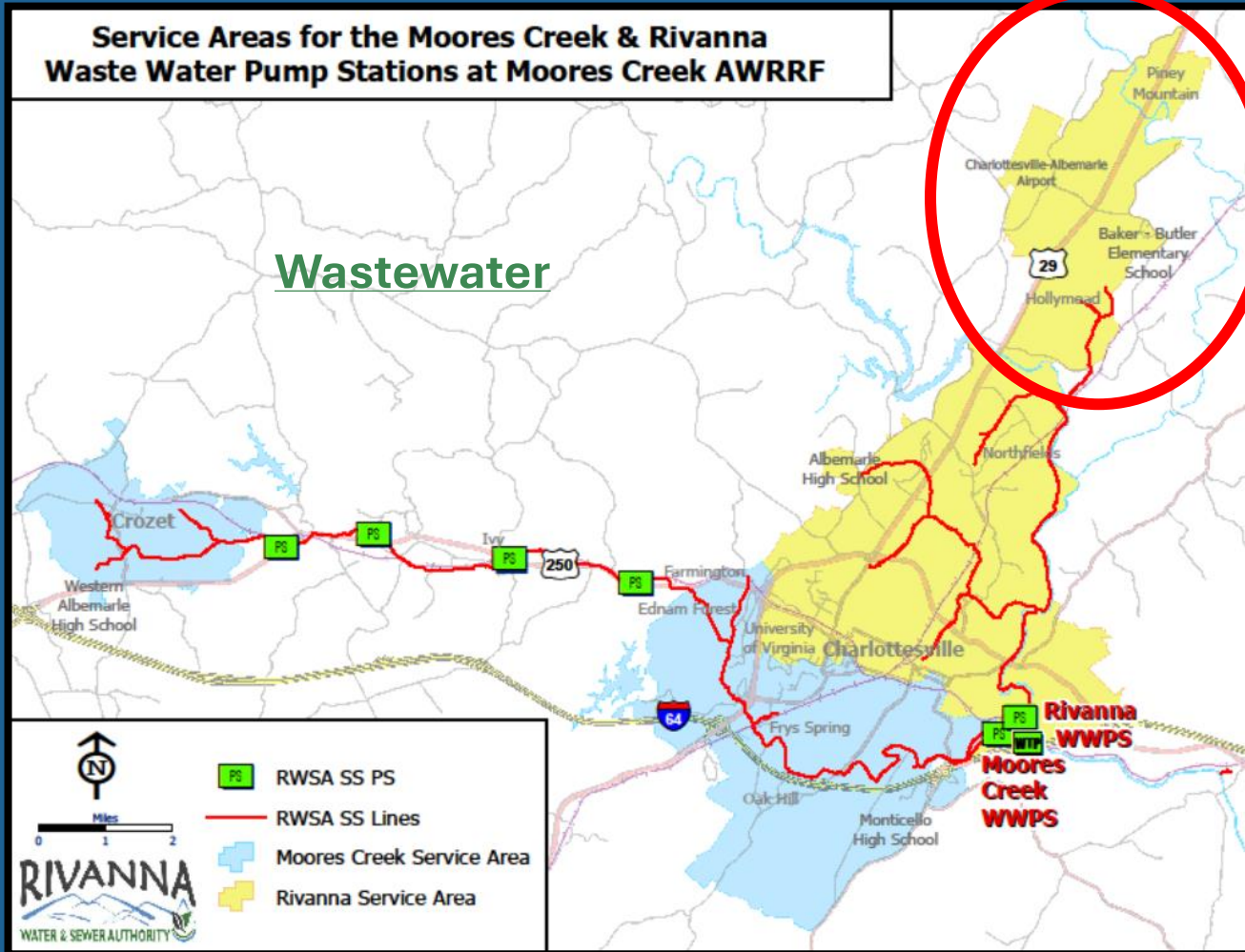


Urban Service Area



- RWSA provides wholesale water and sewer service to 125,000 people
- Served by 3 Water Treatment Plants and 1 Wastewater Plant
- Slightly different service area for water v. sewer

Urban Service Area

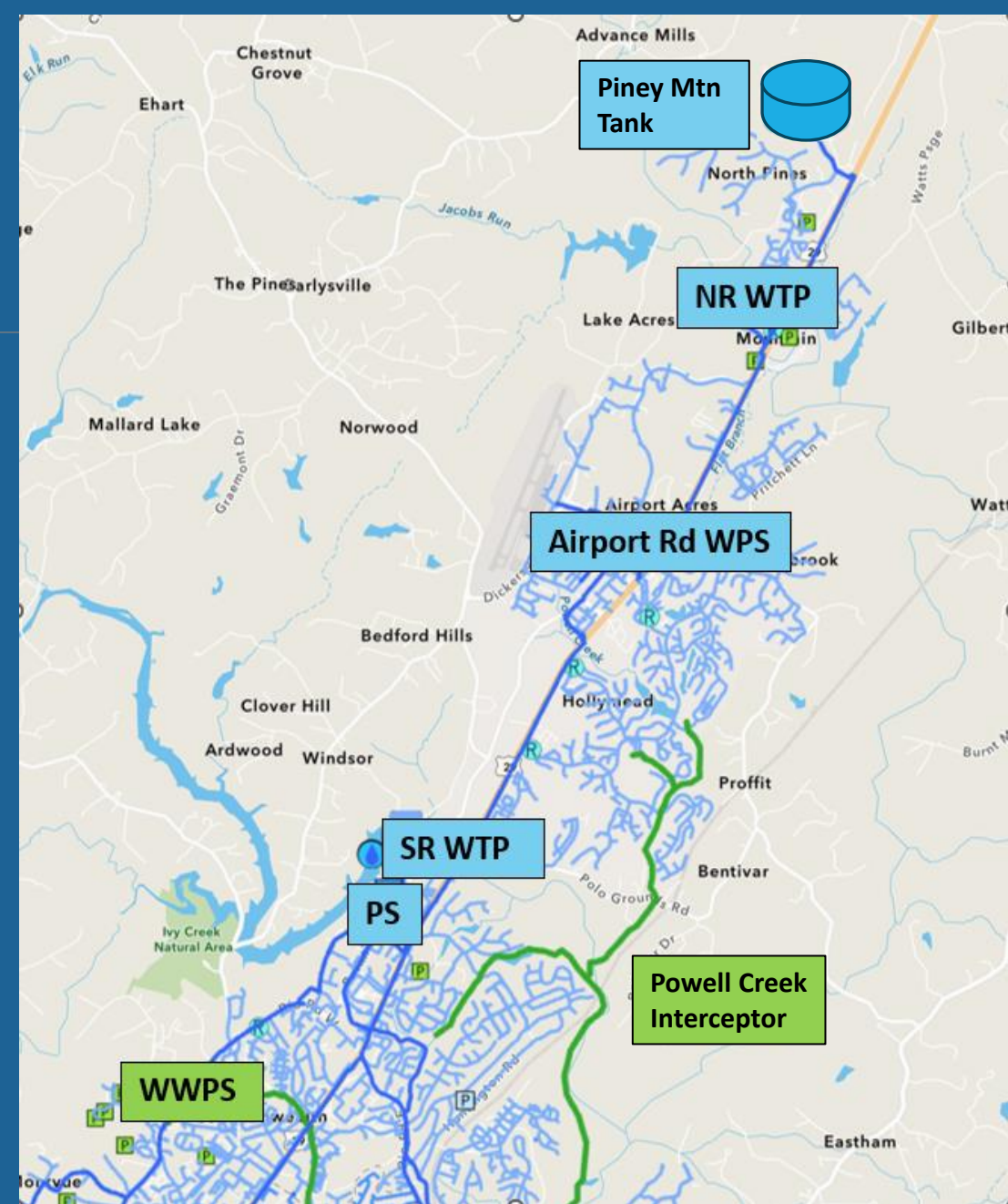


- RWSA provides wholesale water and sewer service to 125,000 people
- Served by 3 Water Treatment Plants and 1 Wastewater Plant
- Slightly different service area for water v. sewer

Northern Study Area

- Utilities north of the Rt. 29 Bridge over the South Rivanna River.
- Water Infrastructure:
 - North Rivanna Water Treatment Plant
 - Airport Road Finished Water Pump Station
 - North Rivanna Water Line
 - Piney Mtn Tank
- Sanitary Sewer Infrastructure
 - Powell Creek Interceptor

**NRWTP to be decommissioned following completion of the South Rivanna River Crossing Project*



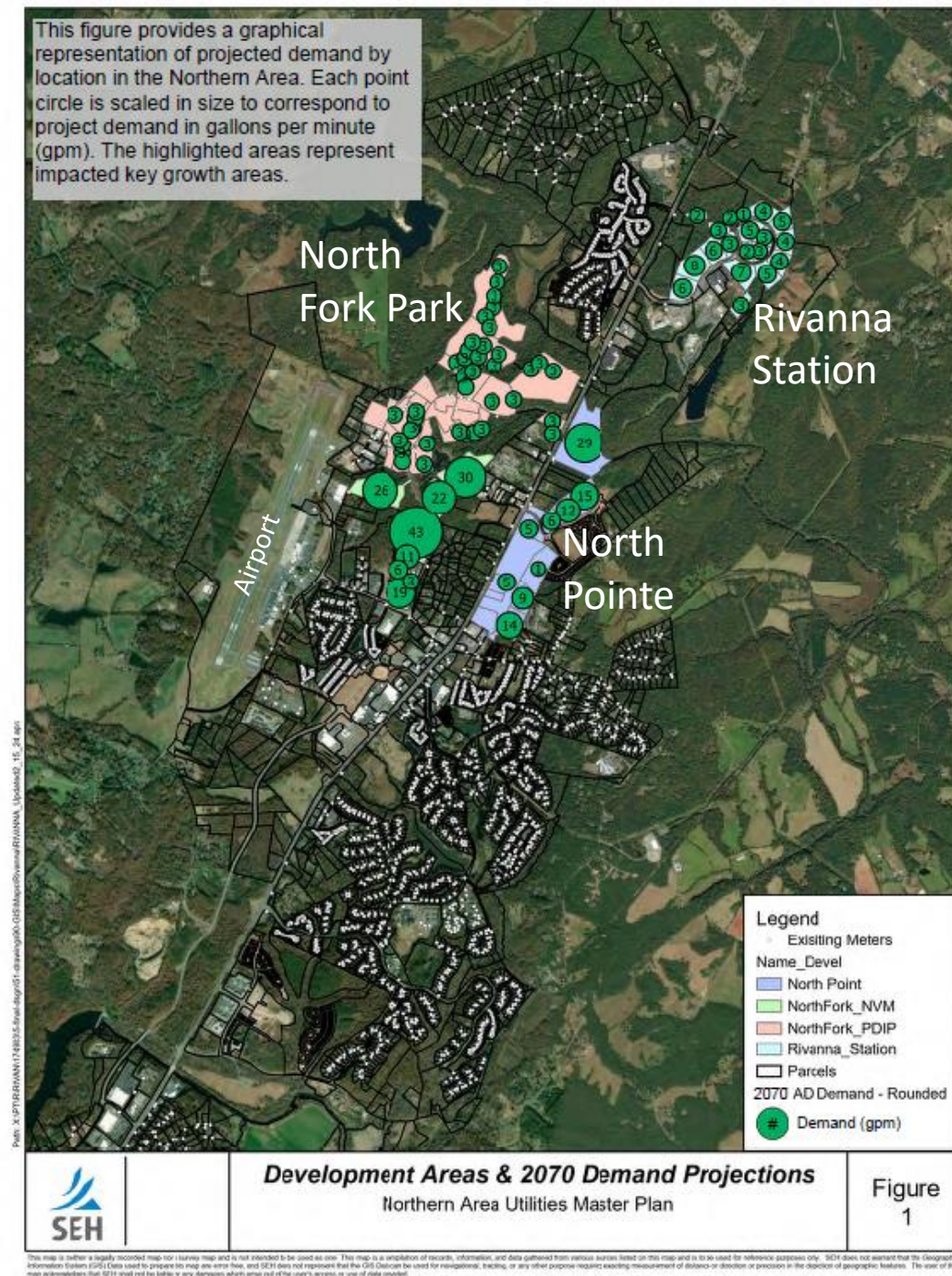
Northern Area Utilities Master Plan

Goals:

1. Consider upcoming developments to understand resulting utility demands.
2. Utilize existing water and sewer models to see how systems react with additional demands.
3. Utilize modeling results to confirm scope and schedule of Northern Area-specific CIP Projects
4. Compare to the 2019 Urban Finished Water Master Plan.



Northern Development Areas



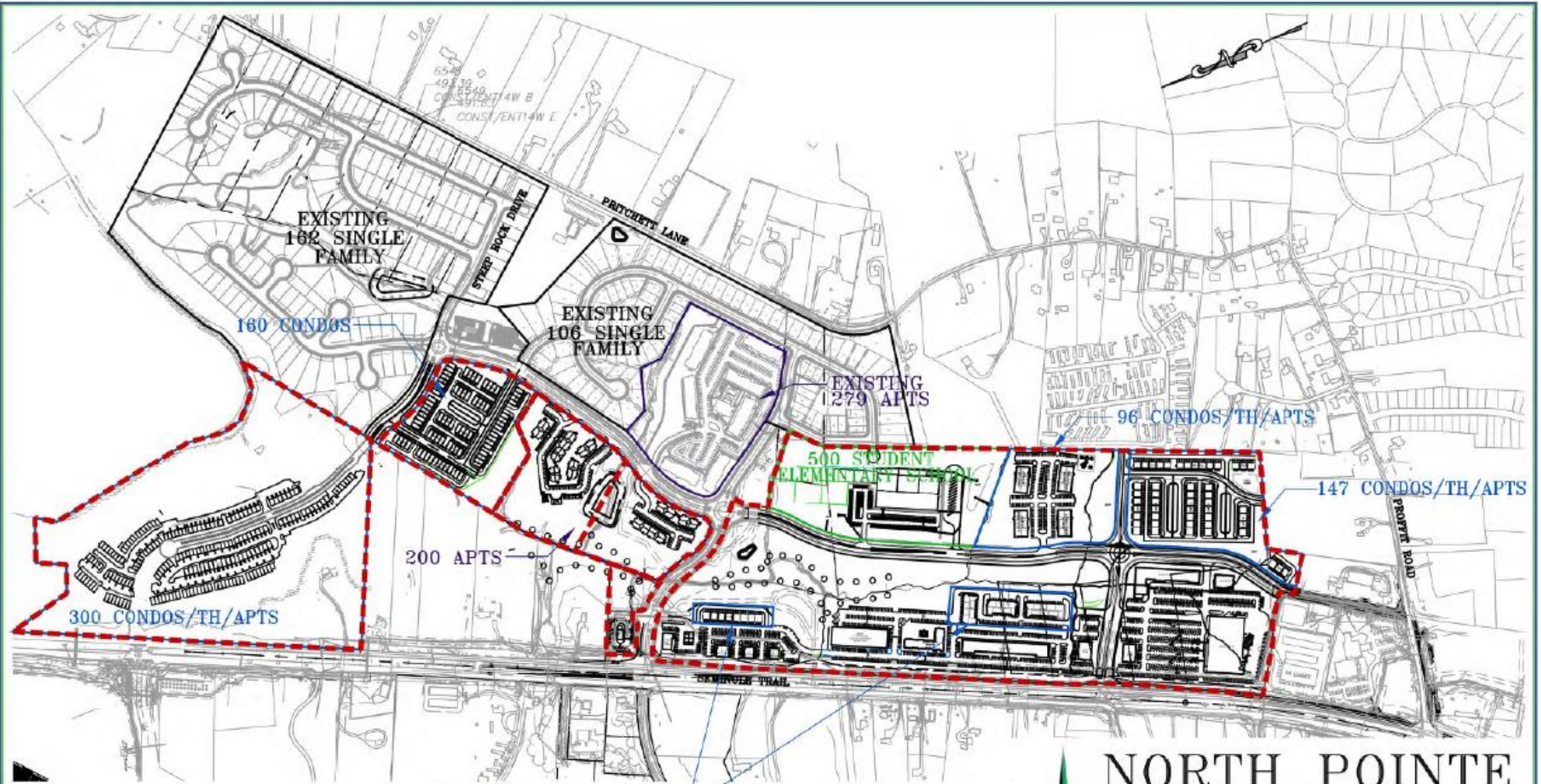




Rivanna Futures Development Concepts



August 2024

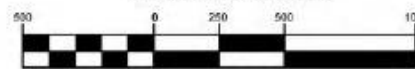


**NORTH POINTE
CONCEPTUAL EXHIBIT**
RIVANNA DISTRICT
ALBEMARLE COUNTY, VIRGINIA

----- AREA TO BE REZONED TO PD-MC
WITH SUP FOR RESIDENTIAL USES

NOTE:
THE MAPS ASSOCIATED WITH THIS ZMA & SUP ARE CONCEPTUAL ONLY.
THE FINAL CONFIGURATION OF ROADS, TRAILS, LOTS, BUILDINGS, AND
AMENITIES WILL BE DETERMINED AT PLAT, OR SITE PLAN APPROVALS.

GRAPHIC SCALE



GREAT EASTERN MANAGEMENT
2813 HYDRAULIC ROAD
CHARLOTTESVILLE, VA 22901
DAVID MITCHELL, EIT
PHONE: (434) 255-4108
FAX: (434) 953-0870
E-MAIL: davidmitchell@gaec.com

TOWNES SITE ENGINEERING
C/O BRUN & MITCHELL, P.E.
1 PARK WEST CIRCLE, SUITE 100
MELOUNGA, VA 22114
PHONE: (804) 746-8091
FAX: (804) 746-8090
E-MAIL: BRUN@TOWNES.COM

**GREAT EASTERN
MANAGEMENT COMPANY**

Townes
SITE ENGINEERING

Table 2 – AD 2070 Average Day Demand Projections – UFWMP vs NAUMP in Key Growth Areas

Key Growth Area	UFWMP	NAUMP	Difference (MGD)
North Fork Research Park	0.18	0.42	+0.24
Rivanna Station Futures	0.04	0.11	+0.07
North Pointe	-	0.14	+0.14
Total	0.24	0.67	+0.45

Table 3 – Projected Demand – North Zone

	UFWMP Demand Projections		Current Demand Projections	
Year	Average Daily Demand (MGD)	Maximum Daily Demand (MGD)	Average Daily Demand (MGD)	Maximum Daily Demand (MGD)
*Existing	0.35	0.55	0.5	0.78
2030	0.55	0.86	1.08	1.69
2045	0.74	1.15	1.22	1.90
2070	0.91	1.41	1.36	2.12
*Existing demands derived from 2019 data for UFWMP and current 2024 data for current demand projections				

Northern Area Water System Improvement Projects

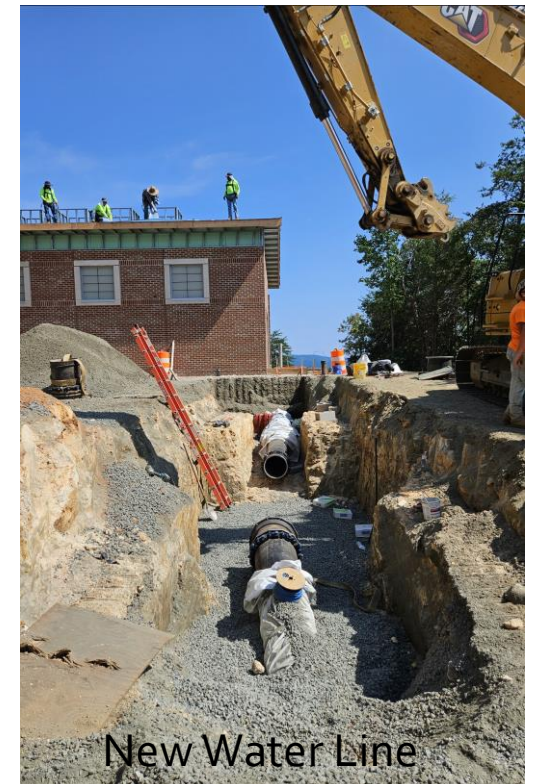
2025 – 2070
\$60 M

Table 4 – Northern Area Water System Prioritized Improvements

Recommended Improvement(s)	Category	Completed By	Estimated Cost (\$M)	Status
Airport Road PS Water Line - Phase 1	Conveyance	2025	6.0	Completed
Airport Road Finished Water Pump Station	Conveyance	2025	4.0	Completed
South Rivanna River Second Crossing	Redundancy + Conveyance	2026	7.3	Under Construction
NRWPT Decommissioning	Supply	2028	2.94	Scheduled
Airport Road PS Water Line - Phase 2 (Berkmar Extension)	Conveyance	2028	1.5	
APFWPS Pump Addition	Conveyance	2028	0.5	
Recommended Improvement(s)	Category	Completed By	Estimated Cost (\$M)	Status
Water Storage Tank No.1 @ APFWPS	Storage	2029	5.0	
North Rivanna Waterline Reinforcement	Resilience	2031	5.7	
North Rivanna River Second Crossing	Redundancy	2031	1.2	
Pressure Surge Mitigation	Resilience	2035	1.0	
North Rivanna Waterline Replacement	Resilience	2060	14.0	
Water Storage Tank No.2 @ APFWPS	Storage	2060	6.5	
Airport Pressure Zone Modifications	Resilience	2070	2.8	

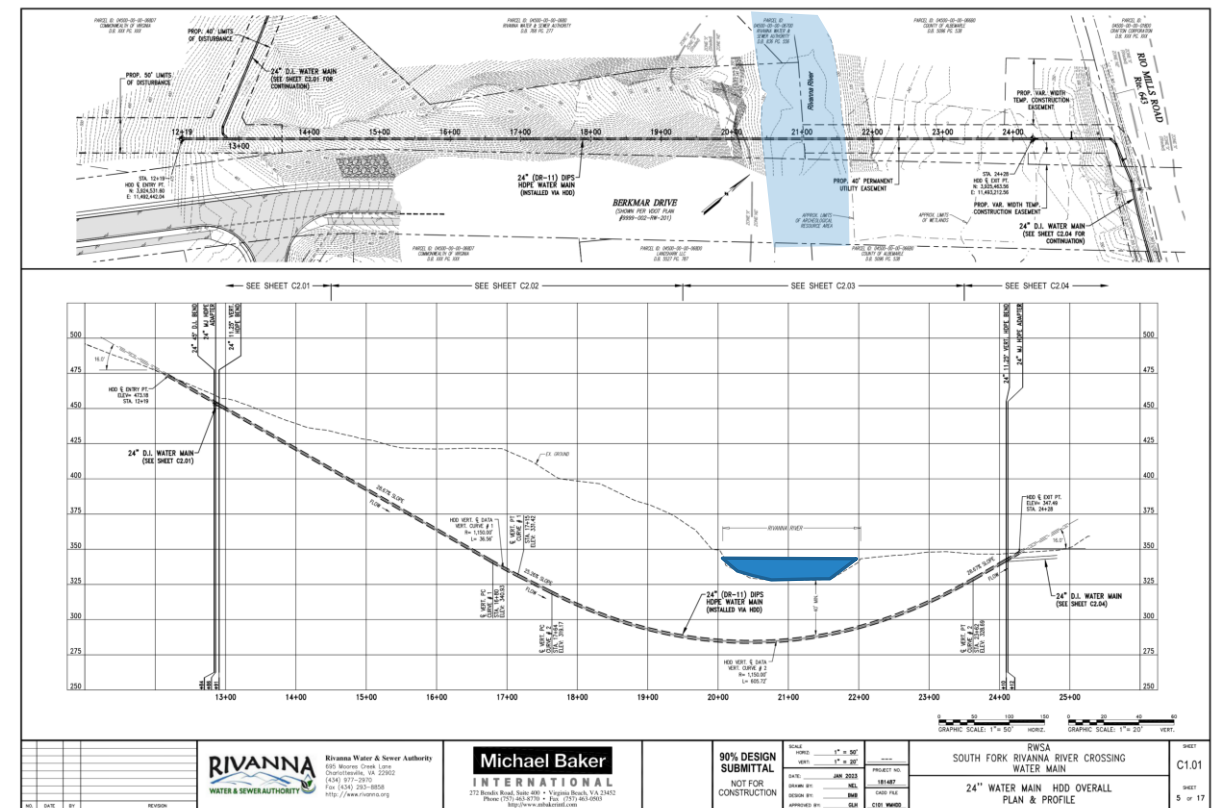
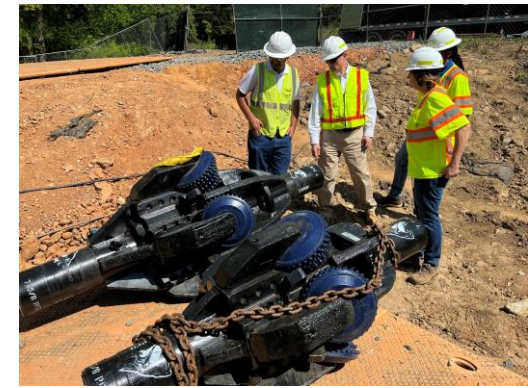
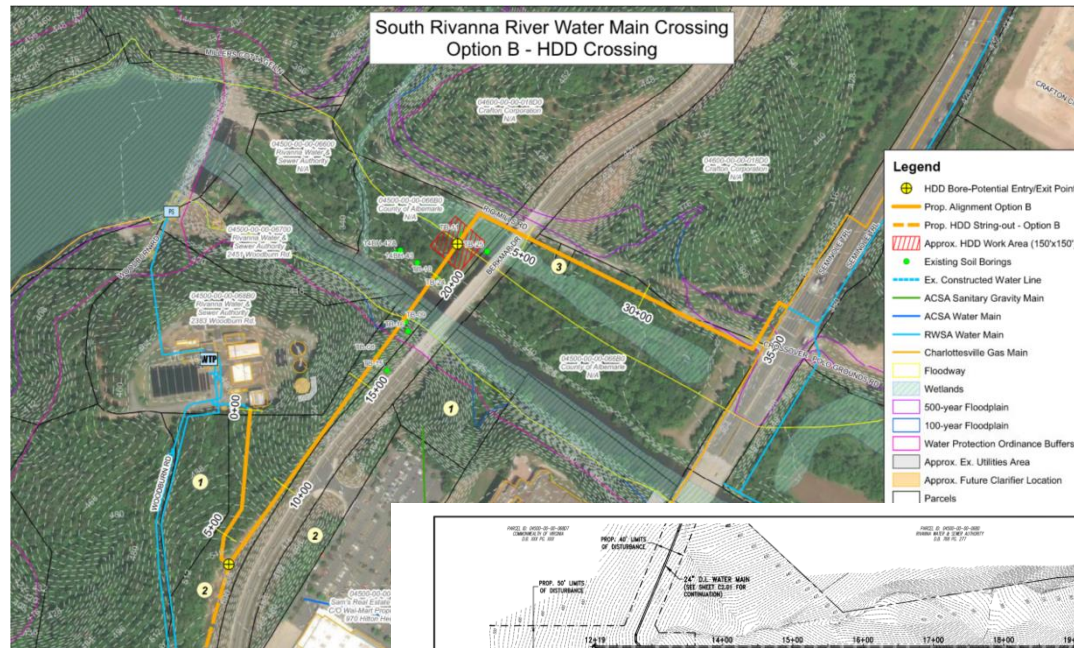
Airport Road Water Pump Station and Piping

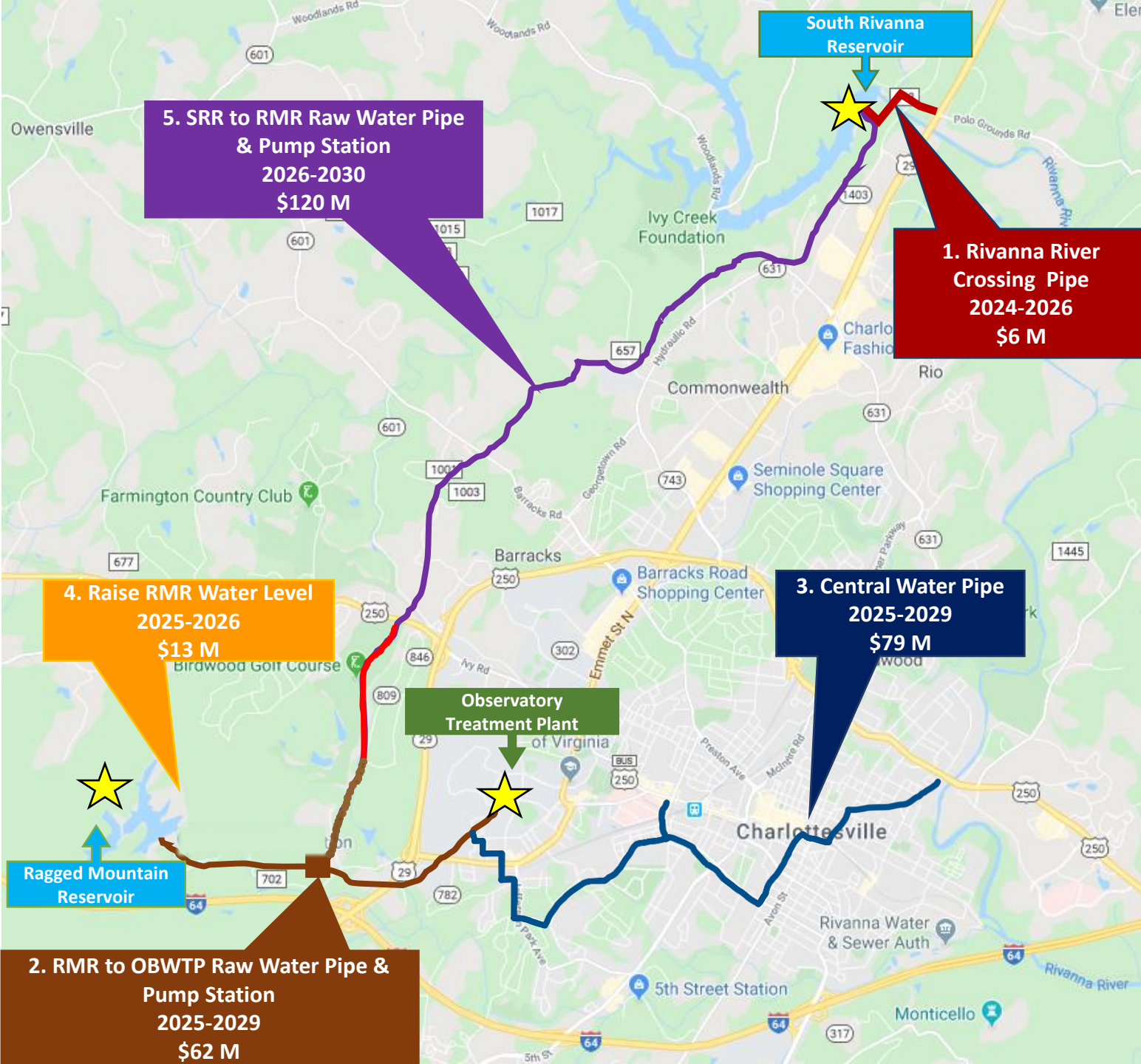
- Connects Piney Mountain and Urban pressure zones to improve reliability and capacity
- Supplies the Piney Mountain Tank
- Will allow for decommissioning of the North Rivanna WTP
- Completion: Fall 2024
- Budget: \$10 M



South Rivanna River Crossing

- 2nd pipe to be installed
40-feet beneath the Rivanna River to improve capacity, reliability and resiliency in the northern area of the Urban Water System (2,500 linear feet)
- Construction:
Jan 25 – Jun 26
- Budget: \$6.3 M





Water Supply, Quality & Resilience Projects

(June 18, 2025)

Total Project Cost

1. Rivanna River Crossing Pipe

2024-2026: *Awarded June 2024*
100% ACSA

\$6 M

2. RMR to OBWTP Raw Water Pipe & Pump Station

2025-2029: *Awarded Oct 2024*
Pipe: 80% ACSA / 20% City
PS: 72% ACSA / 28% City

\$62 M

3. Central Water Pipe, Ph 1 & 2

2025-2029: *Award June 2025*
52% ACSA / 48% City

\$79 M

4. Raise RMR Water Level

2025-2026: *Award June 2025*
80% ACSA / 20% City

\$13 M

5. SRR to RMR Raw Water Pipe

2026-2030: *Award Jan 2026*
80% ACSA / 20% City

\$120 M

6. SRR Aeration & RMR HLOS

2028-2030: *Award Jan 2028*
52% ACSA / 48% City

\$9 M

ACSA \$197 M
City Utilities \$92 M

\$289 M

Northern Area – Sanitary Sewer

- New water demands applied to previously understood sanitary sewer flow projections
- Included appropriate sewer return and I&I factors
- Primary Infrastructure – Powell Creek Interceptor (PCI)
 - 2024 Average Daily Dry Weather Flow (ADDWF) – 0.61 MGD
 - 2024 Peak Wet Weather Flow (PWWF) – 1.672 MGD
- Updated flow projections (ADDWF):
 - 2030 – 1.21 MGD
 - 2045 – 1.47 MGD
 - 2070 – 1.61 MGD

Manhole Coating Rehabilitation



2022 Sewer Rehabilitation

Sanitary Sewer Improvements

2030 – 2070
\$21 M

Table 11 – Sanitary Sewer Needs Trigger Chart

Year	Projected ADDWF (MGD)	Projected PWWF (MGD)	Proposed Improvement(s)	Associated Cost (\$M)
2030	1.21	5.84	Implement targeted Inflow and Infiltration (I&I) reduction measures, including sewer rehabilitation and lining, to optimize existing capacity and delay the need for major interceptor upgrades	TBD
2045	1.47	6.18	Conduct a comprehensive system reassessment, considering realized flows and reassess the need for interceptor upsizing or flow equalization measures to ensure long-term capacity is available	\$0.25M
2070	1.60	6.33	Upgrade Powell Creek Interceptor Reaches PC-4 and PC-5 to 24-inch diameter pipes to accommodate projected peak wet weather flows and prevent capacity constraints under full growth conditions	\$21.1 M (\$7.5M + \$13.6M)

Construction Schedule for Major RWSA Water Supply Projects

	CY 2021	CY 2022	CY 2023	CY 2024	CY 2025	CY 2026	CY 2027	CY 2028	CY 2029	CY 2030	CY 2031	CY 2032	CY 2033
IMPROVEMENTS REQUIRED FOR NRWTP DECOMMISSIONING		AIRPORT RD WATER PUMP STATION				\$10 M							
IMPROVEMENTS FOR ARPS / NORTH RIVANNA ZONE RELIABILITY					2 ND SFR RIVER CROSSING		\$6 M			2 ND NFR RIVER CROSSING & NRW REINFORCEMENTS		\$6.3 M	
IMPROVEMENTS FOR URBAN ZONE RELIABILITY	OBWTP / SRWTP IMPROVEMENTS				\$43 M	CENTRAL WATER LINE				\$79 M			
IMPROVEMENTS FOR LONG-TERM SYSTEM RELIABILITY					RMR TO OBWTP RAW WATER PIPE & PS					\$61.5 M			
IMPROVEMENTS FOR CAPACITY, OPTIMIZATION AND RESILIENCE: Increase RMR storage 700 MG					RMR POOL RAISE		SFRR TO RMR RAW WATER TRANSFER SYSTEM				\$123 M		
ANTICIPATED NRWTP DECOMMISSIONING							NRWTP DECOMMISSIONING		\$3 M				
DEMAND DRIVEN IMPROVEMENTS – NORTHERN AREA MP							3 RD PUMP & 1.0 MG TANK – AIRPORT RD		\$5 M				
Updated 5/16/2025													

RWSA Utility Demand & Capacity Summary

Year	Water Capacity	Water Demand	Peak Water Demand
2024	1.3 mgd	0.47 mgd*	0.87 mgd*
2027	1.5 mgd	1.05 mgd	1.66 mgd
2030	3.0 mgd	1.08 mgd	1.77 mgd
2045	3.0 mgd	1.22 mgd	1.90 mgd
2070	3.0 mgd	1.36 mgd	2.12 mgd

Year	Sewer Capacity	Sewer Flows	Peak Flows
2024	4.5-5.5 mgd	0.61 mgd*	1.67 mgd*
2027	4.5-5.5 mgd	1.03 mgd	3.79 mgd
2030	4.5-5.5 mgd	1.21 mgd	4.43 mgd
2045	4.5-5.5 mgd	1.47 mgd	5.05 mgd
2070	11.0 mgd	1.61 mgd	5.29 mgd

Questions?

Ragged Mountain Reservoir



Water Treatment Facilities Overview

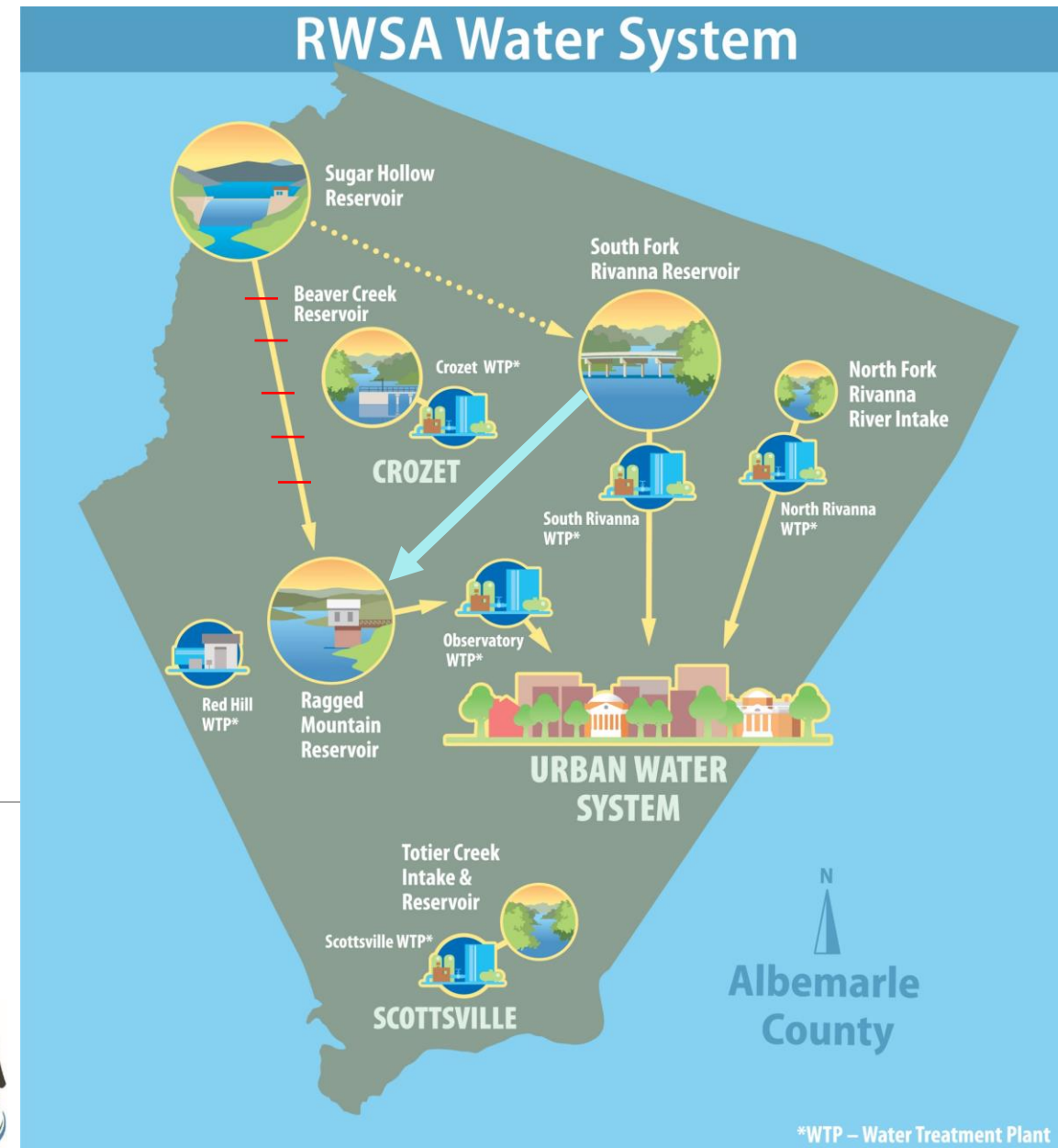
PRESENTED BY:

DANIEL G. CAMPBELL, DIRECTOR OF OPERATIONS

& ENVIRONMENTAL SERVICES

BOARD OF DIRECTORS MEETING

JUNE 24, 2025





South Rivanna WTP



Observatory WTP



North Rivanna WTP



Crozet WTP



Red Hill WTP



Scottsville WTP

6 Water Treatment Plants

Water Production Capacity

Treatment Plant	Permitted Capacity (MGD)	2024 Average Production (MGD)
South Rivanna	12.0	8.06
Observatory	7.7	1.05
North Rivanna	2.0	0.40
Urban Total	21.7	9.51
Crozet	1.6	0.64
Scottsville	0.25	0.05
Red Hill	0.0068	0.002
Total	23.61	10.20



South Fork Rivanna Reservoir

WE PRODUCE DRINKING WATER EVERY DAY!

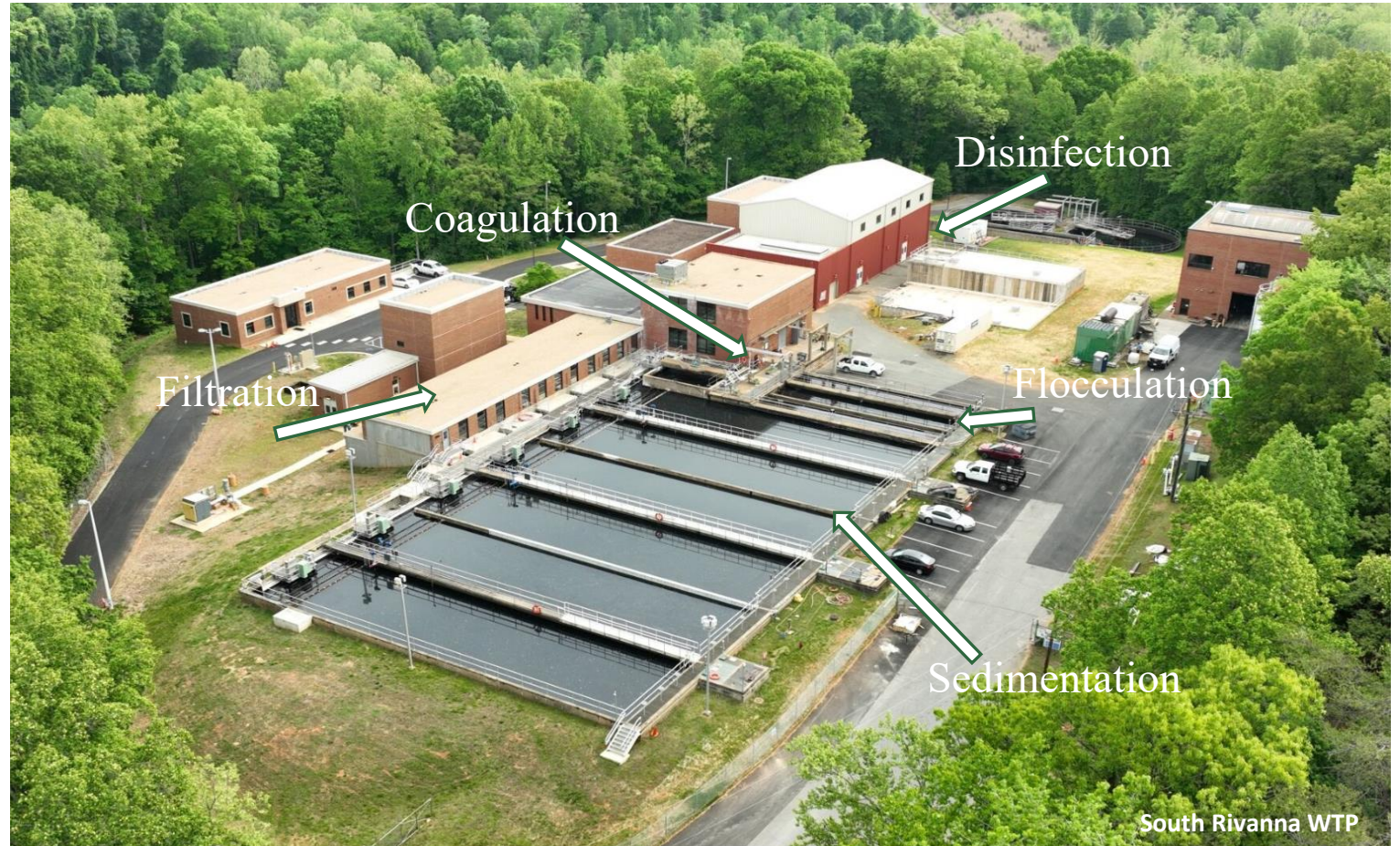


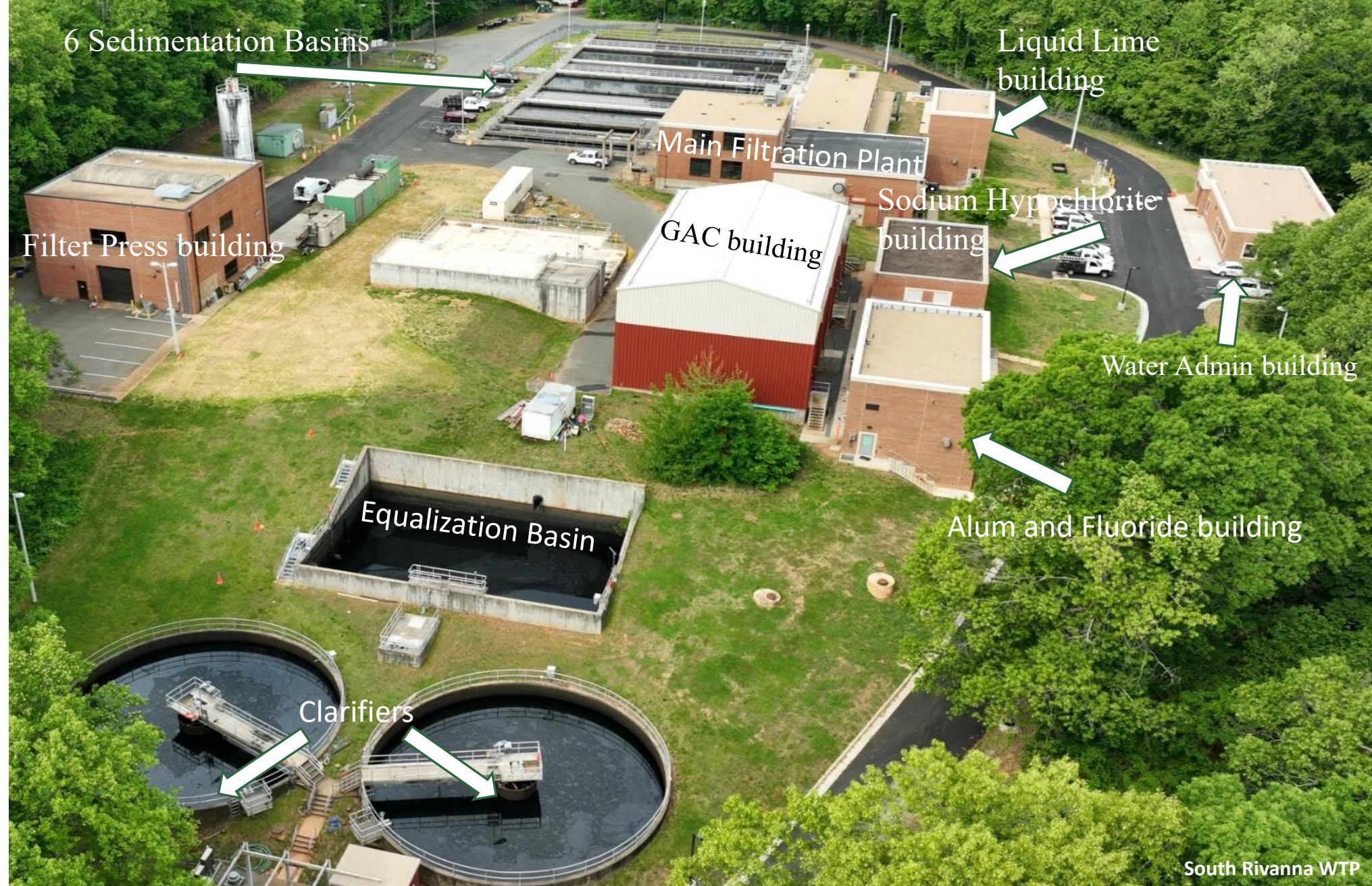
South Rivanna Raw Water Pump Station

Conventional Surface Water Treatment



Source Water –
South Rivanna Reservoir





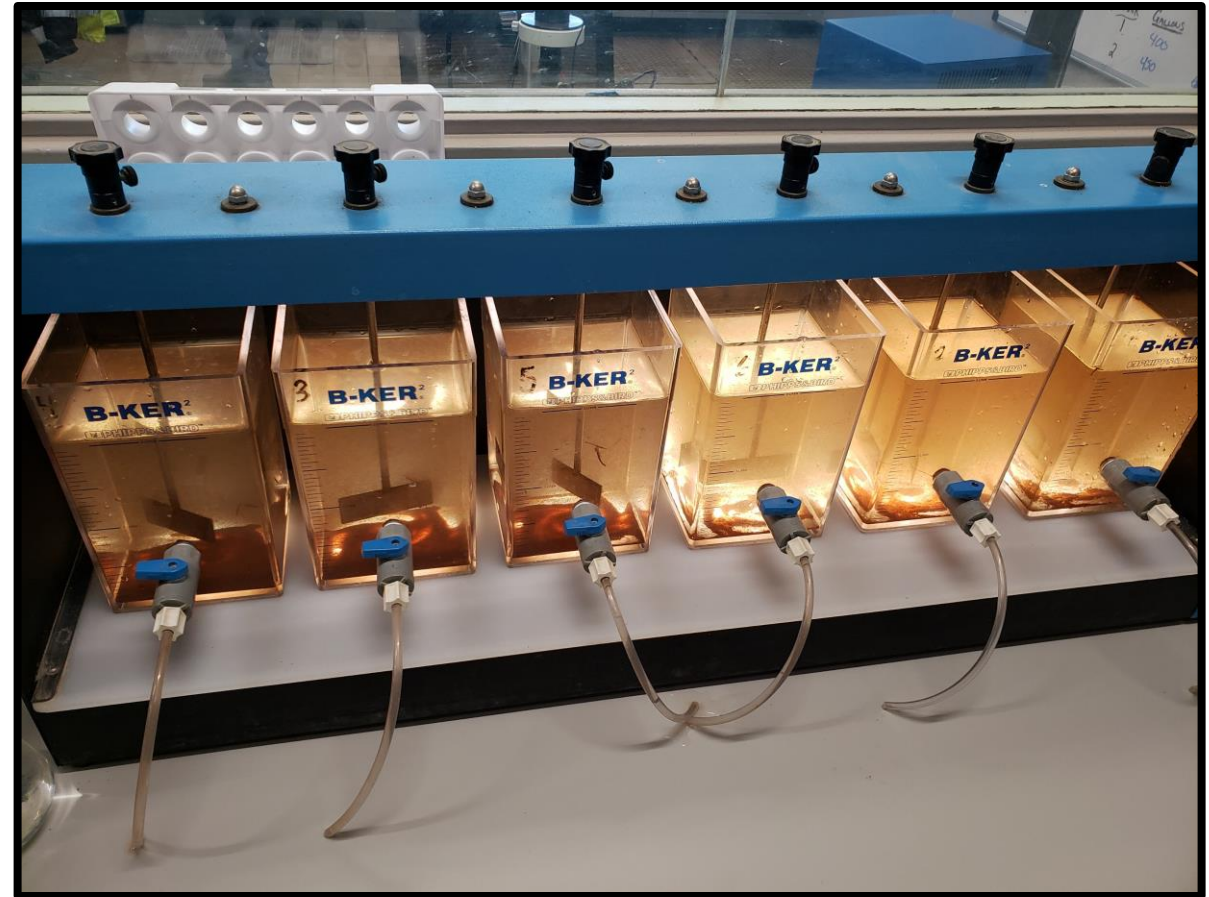
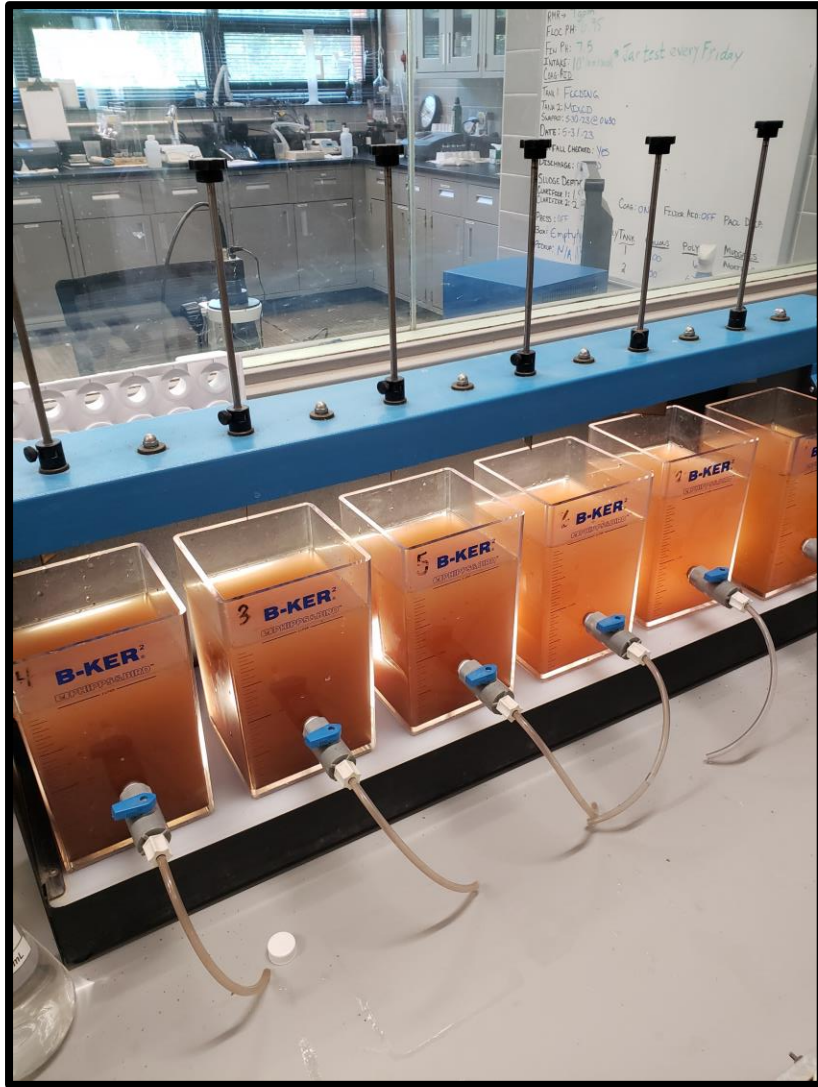
Typical water treatment additives

- Aluminum Sulfate – Coagulant to improve particle settling
- Liquid Lime – pH adjustment
- Sodium Hypochlorite (Chlorine) – Disinfection and oxidation
- Orthophosphate – Corrosion control in the piping system
- Hydrofluorosilicic Acid (Fluoride) – Dental health



Flocculated particles
entering
sedimentation basins

Water treatment jar test





Dual Media Filters
(Sand and Anthracite)
at Observatory Water
Treatment Plant



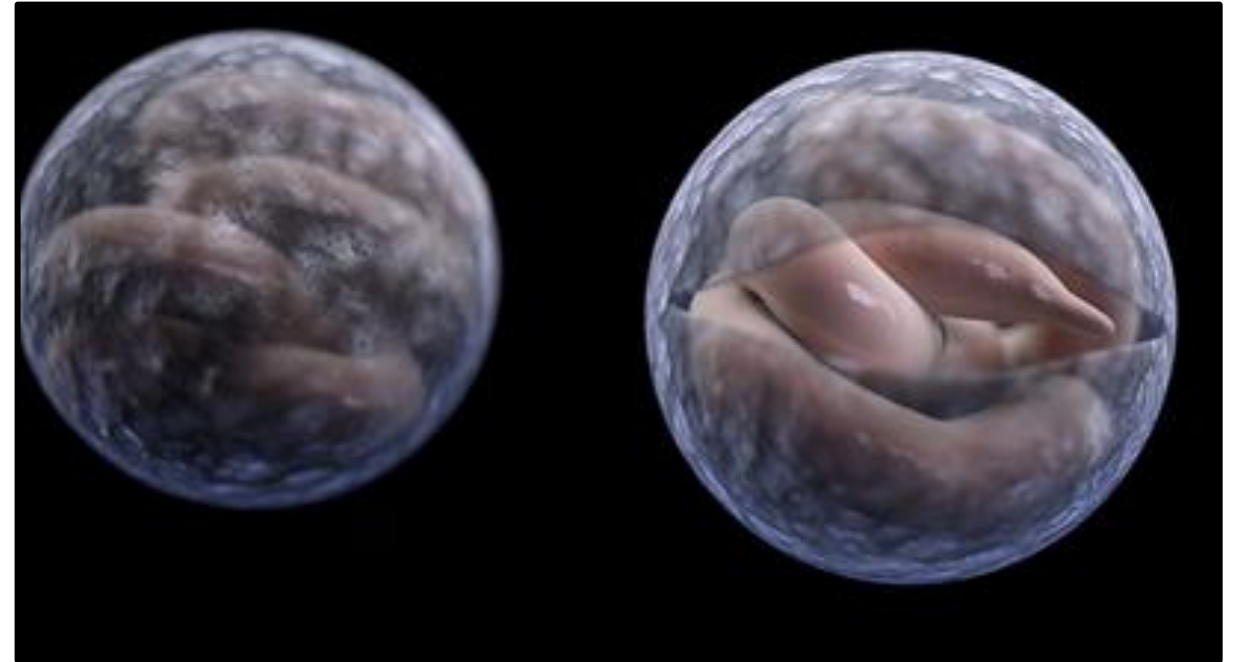
SRWTP Chlorine Contact Tank

Seasonal Free Chlorine Residual Strategy

- Outlines appropriate free chlorine residuals leaving the treatment plants and in the distribution systems
- Uses raw water temperature data from the WTP's and distribution system free chlorine residual data from monthly coliform sampling

Seasonal Ranges for Water Treatment Plant finished Free Chlorine Residuals (mg/L):

- These ranges were developed using historical data.
 - January – March: 1.4 - 1.6
 - April – June: 1.6 - 2.0
 - July – September: 2.0 – 2.2
 - October – December: 2.0 - 1.6



Giardia & Cryptosporidium



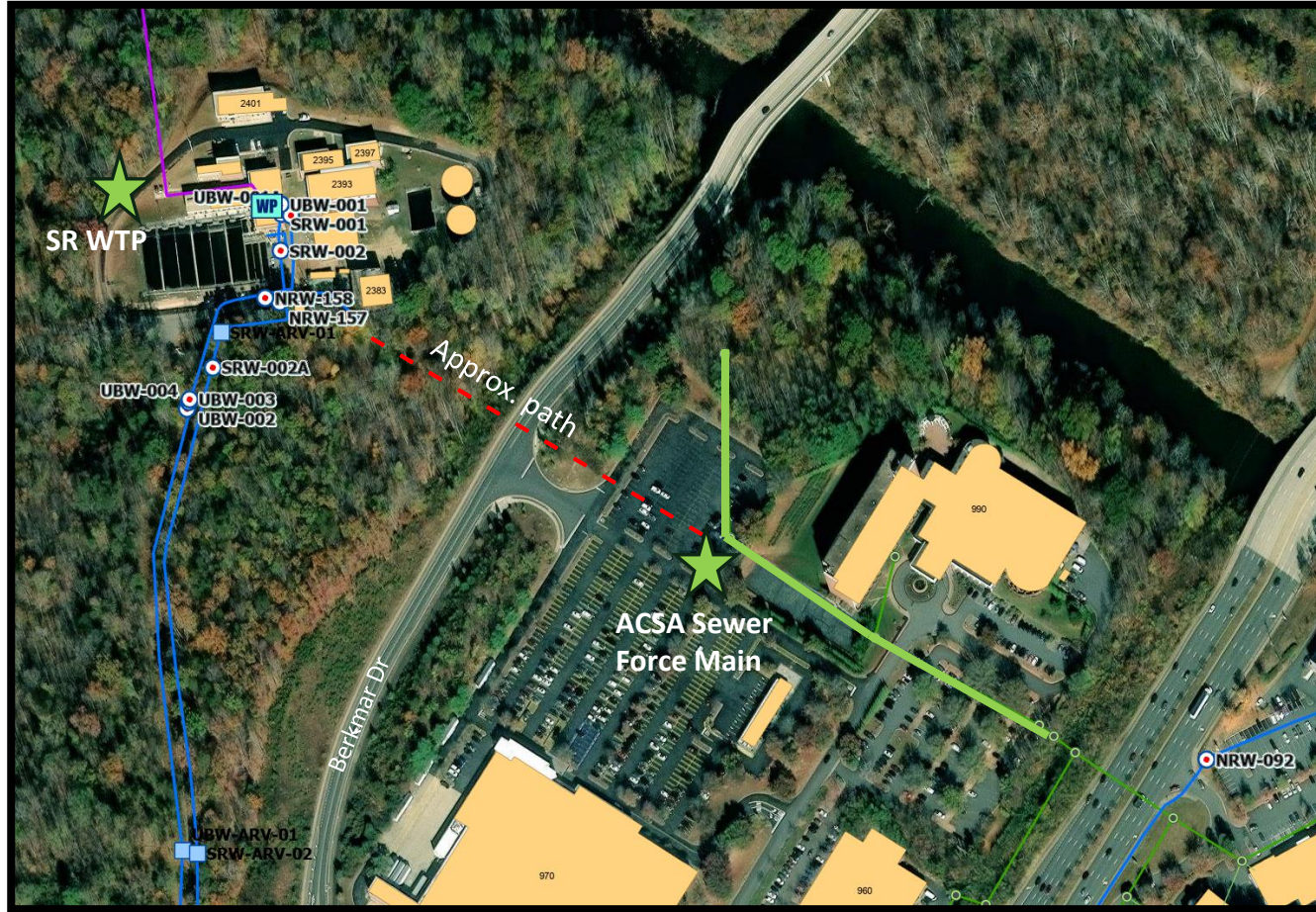
Filter Turbidimeter



Benchtop Turbidimeter

Current Residuals Disposal, SRWTP

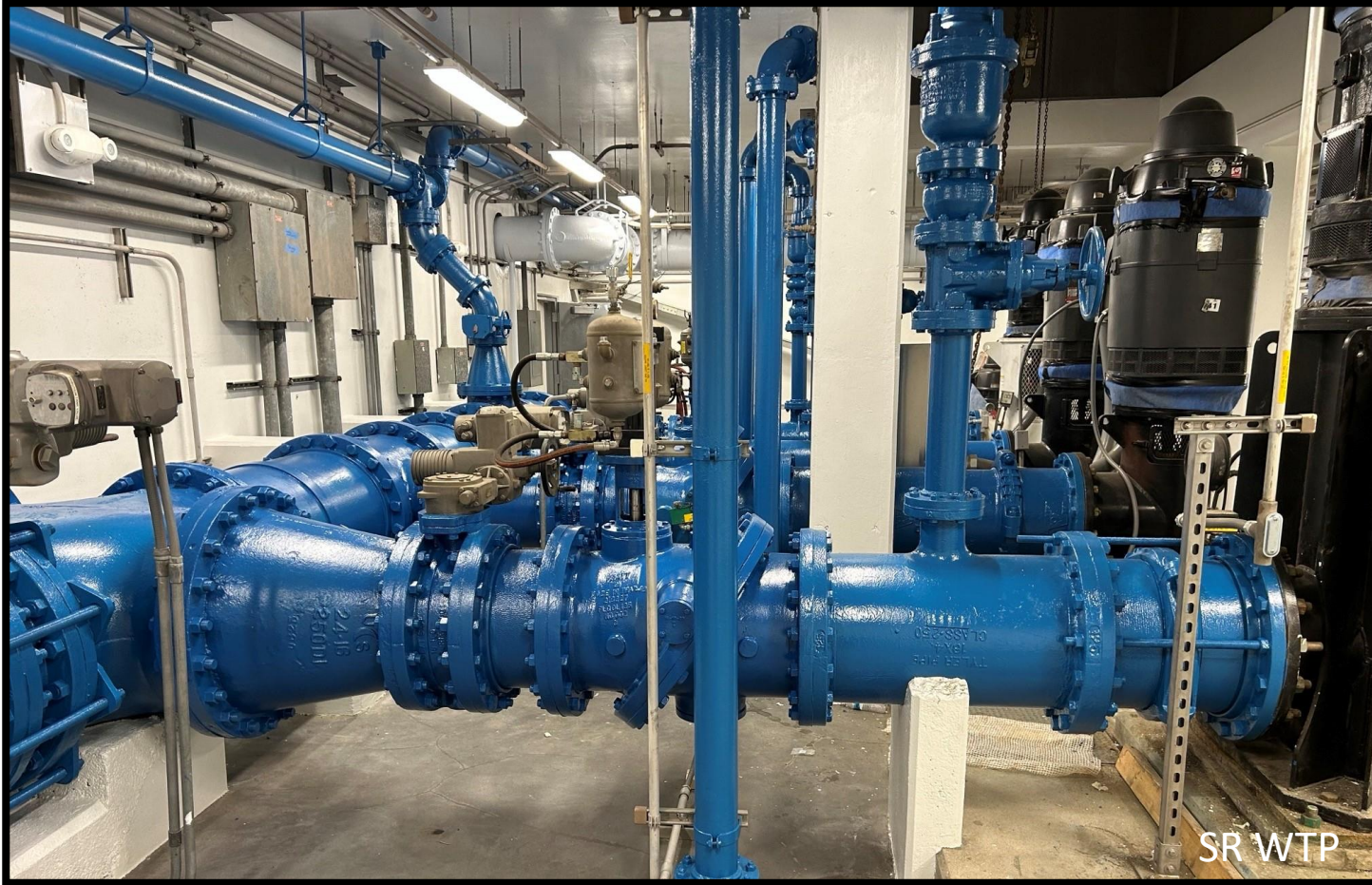




Future Residual Disposal:

Regional sewer connection

- Approx. 1000' of 4" Force Main and pump station
- Budget: \$1M
- Completion: FY 27 - 29



Finished Water Pumps

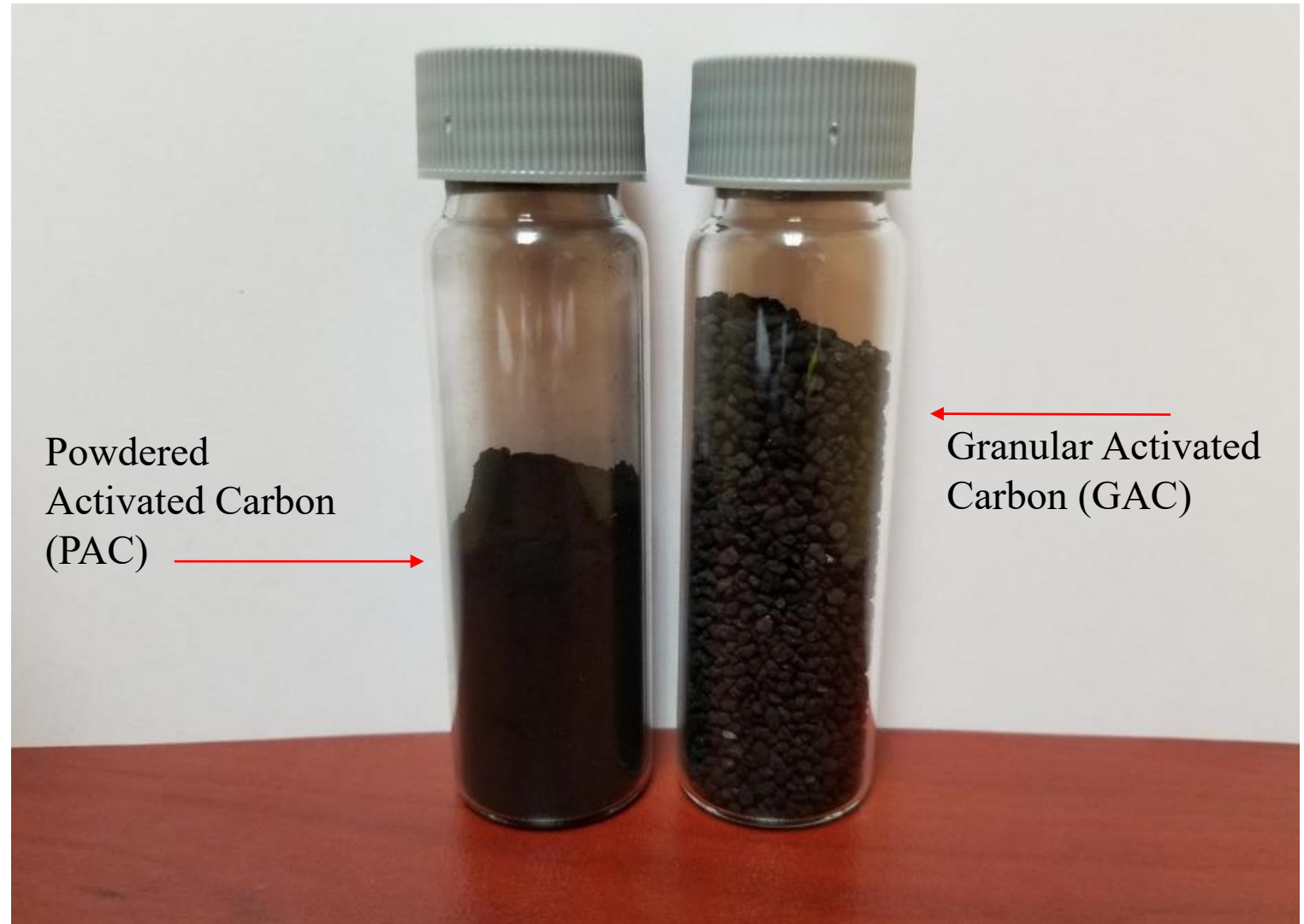
Activated Carbon

PAC

- Single use
- Taste and Odors
- Organics removal (enhanced coagulation)

GAC

- Renewable (thermal reactivation)
- Organics removal (post filtration)





PAC application point



Granular Activated Carbon Contactors



South Rivanna WTP

8 Contactors
320,000 pounds of GAC
8 MGD Capacity



Observatory WTP

6 Contactors
240,000 pounds of GAC
6 MGD Capacity



Scottsville WTP

2 Contactors
12,000 pounds of GAC
0.25 MGD Capacity



Crozet WTP

2 Contactors
40,000 pounds of GAC
1 MGD Capacity

Upcoming:

2 Additional Contactors add
80k additional pounds of GAC
Additional Capacity: 2MGD



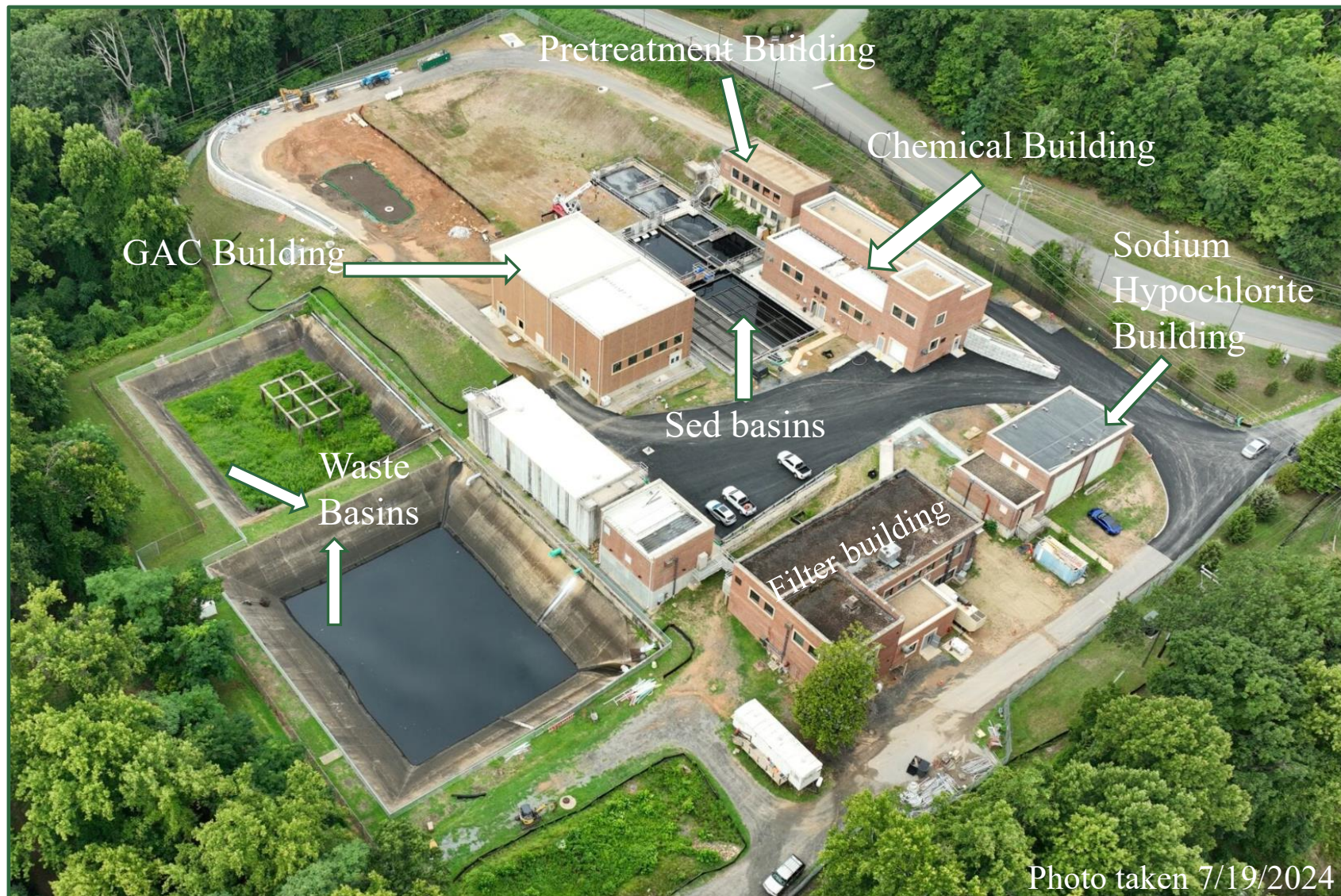
Upcoming: Red Hill WTP

1 Contactor
1,000 pounds of GAC
0.007 MGD Capacity



North Rivanna WTP

1 Contactor
40,000 pounds of GAC
1 MGD Capacity



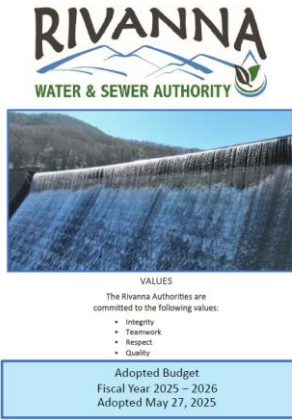
Observatory Water Treatment Plant

Drinking Water Testing Requirements



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 (permanganate, 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



FY 2026

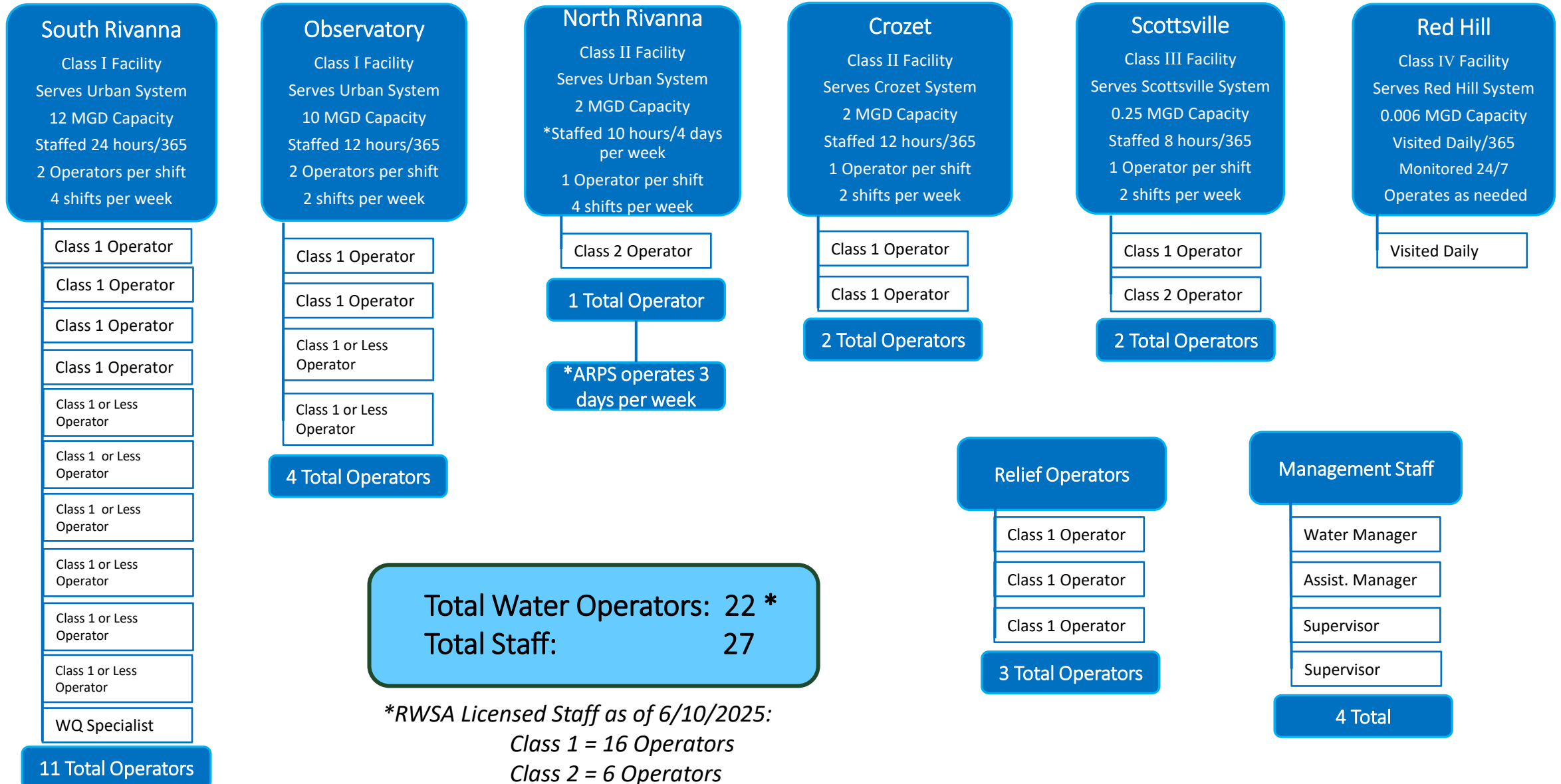
Water Operating Budget

Highlights:

- \$3.3 million for employee salaries and benefits
- \$2.5 million for water treatment chemicals
- \$0.97 million for utility costs (electricity, natural gas, LP)
- Water production costs are approximately \$0.42 per 100 gallons in FY25

Rate Center	Operations Budget	Debt Service	Summary	Annual Production
Urban Water	\$12.6 M	\$16.7 M	\$29.3 M	3.4 BG
Crozet Water	\$1.6 M	\$3.3 M	\$4.9 M	203 MG
Scottsville Water	\$0.9 M	\$0.3 M	\$1.2 M	17.2 MG

Water Treatment Plants





Ragged Mountain Reservoir

Questions?