



Board of Directors Meeting

November 18, 2025

2:15pm



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www.rivanna.org



BOARD OF DIRECTORS

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

DATE: NOVEMBER 18, 2025

LOCATION: Albemarle County Service Authority, 168 Spotnap Road,
Charlottesville, VA 22911

TIME: 2:15 p.m.

AGENDA

- 1. CALL TO ORDER**
- 2. AGENDA APPROVAL**
- 3. MINUTES OF PREVIOUS BOARD MEETING ON OCTOBER 28, 2025**
- 4. RECOGNITION**
- 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 Administration and Communications*
 - b. Staff Report on CIP Projects*
 - c. Staff Report on Finance*
 - d. Staff Report on Information Technology*
 - e. Staff Report on Operations*
 - f. Staff Report on Drought Monitoring*
 - g. Staff Report on Wholesale Metering*
 - h. Approval of Board Meeting Schedule for Calendar Year 2026*

- i. Approval of the Holiday Schedule for Calendar Year 2026*
- j. Approval to Amend FY 26-30 Capital Improvement Plan and Increase Construction Funds – South Fork Rivanna River 24” Water Main Crossing*
- k. Approval to Amend Value Engineering Policy*

9. OTHER BUSINESS

- a. Presentation: Enhanced Employee Safety with "OK Alone" System
Daniel Campbell, Director of Operation and Environmental Services*

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
October 28, 2025

A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on Tuesday, October 28, 2025, at 2:15 p.m. at the Albemarle County Service Authority, (1st Floor Conference Room), 168 Spotnap Road, Charlottesville, VA 22911.

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

Board Members Absent: Sam Sanders, Jeff Richardson.

Rivanna Staff Present: Bill Mawyer, Dave Tungate, Lonnie Wood, Jennifer Whitaker, Betsy Nemeth, Daniel Campbell, Dyon Vega, Austin Marrs, Scott Schiller, Westley Kern, Jacob Woodson, Leah Beard, Deborah Anama, Jeff Southworth, Jon Williams.

Attorney(s) Present Valerie Long

1. CALL TO ORDER

Mr. Gaffney convened the October 28, 2025, regular meeting of the Board of Directors of the Rivanna Water and Sewer Authority at 2:15 p.m.

2. AGENDA APPROVAL

Mr. Pinkston moved that the Board of Directors approve the Agenda. Ms. Mallek seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Richardson were absent)

3. MINUTES OF PREVIOUS BOARD MEETING ON SEPTEMBER 23, 2025

Ms. Mallek moved that the Board of Directors approve the minutes for the September 23, 2025 meeting. Mr. Pinkston seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Richardson were absent)

4. EXECUTIVE DIRECTORS REPORT

Mr. Mawyer thanked ACSA for hosting the meeting. He stated that he would like to introduce a new employee, Jon Williams, who was an IT Analyst. He also wanted to extend congratulations to George Cheape, Safety Manager, who was now certified to teach OSHA safety training. He stated that recently, nine employees completed the OSHA 30-hour training class, which covered important safety issues such as trench safety, fall protection, machine guarding, electricity, bloodborne pathogens, and confined space. He congratulated these individuals for improving their qualifications.

Mr. Mawyer stated they were pleased to have a second neighborhood meeting on the Central Water Line earlier this month with residents from the Jefferson Park Avenue area in attendance. He stated that it was a virtual meeting attended by eight residents. The meeting lasted

approximately 45 minutes and went very well. He stated that the first section of pipe for the Central Water Line had been installed. They were currently working in the Lewis St area north of the railroad track. The goal was to complete the work in this area between December 19 and January 11, while UVA was on winter break.

Mr. Mawyer stated they continued to perform monthly testing at Sugar Hollow for the siren they installed at the dam. With monthly audible testing, they could hear the siren 1.3 miles away. He stated they planned to improve the system, likely in December, by replacing the horn at the dam with a louder horn to extend its coverage. Every second Wednesday at 10 a.m., they would continue to perform the siren test, and they would alert residents for the first year, with the hope that residents would become familiar with the testing process and understand that they would hear the horn every second Wednesday morning.

Ms. Mallek asked how far the new horn would be able to reach.

Ms. Whitaker stated they were working on four additional elevated poles, which would provide coverage to the barn with a large trout painted on it.

Mr. Mawyer stated that as they strived to enhance their reservoir safety programs, they had installed two signs at the South Rivanna Reservoir, approximately 1,000 feet upstream of the dam. He stated that the two red signs, one on each side of the reservoir, served as a warning to boaters that if they continued in that direction, they would reach the dam. He stated that in the future, they planned to install buoys near the dam to further caution and prevent boats from getting too close to the dam. He stated that they were taking steps to make it even more difficult to go over the dam.

Mr. Mawyer stated that Bethany Houchens, Water Resources Coordinator, had recently given a presentation at St. Anne's Belfield to the 10th grade class, covering topics such as water sourcing, drinking water chemistry, and wastewater treatment. He stated they were fortunate to receive a \$305,000 grant from FEMA and VDEM, which will be used to repair the damaged Sugar Hollow water line and Ivy Creek streambank riprap, which were affected by Hurricane Helene a few years ago. He stated that out of a total cost of approximately \$350,000, the state and federal governments are providing about \$305,000.

Mr. Mawyer wanted to highlight the work progressing rapidly at Moores Creek. He stated that the front of the Administration building was currently under excavation, and a deep pit had been created for the elevator. He stated that the building addition would be built in the lower lot. He stated that staff would utilize trailers while renovations were completed. They expected to move into the trailers from November 10 - 24.

Mr. Mawyer stated that their community had been fortunate to have several major developments begin projects in the area. He stated that the Afton Scientific facility on Avon Street and AstraZeneca's project at Rivanna Station were just a few examples. He stated that the University and UVA Foundation were also investing heavily in their projects at Fontaine and other locations.

Mr. Mawyer stated that projects reviewed several months ago as part of the Northern Area Utilities Master Plan may need to be accelerated. He stated this would require an increase in their capital improvement budget, as well as additional staff resources to manage the increased number of construction projects over the next four to five years.

81 Mr. Mawyer stated that they were pleased that the community was receiving these projects, and
82 they were working hard to keep pace. He stated that they were also making progress on their
83 water supply projects, which would enable them to better serve these new developments.

84 Mr. Mawyer stated that a major project, Rivanna to Ragged Pipeline and Pump Station, was
85 scheduled to receive bids on November 13. In December, they expected to submit an award
86 recommendation to the Board for that project.

87 Mr. Mawyer stated that he would be meeting with the Board's subcommittee for capital
88 improvement projects to discuss the budget before presenting it to the Board in February. He
89 stated that this meeting would serve as a pre-meeting, followed by a meeting in December to
90 thoroughly review the CIP. He stated that the changing dynamics in the community were causing
91 significant changes to the capital improvement program. He noted that they may ask to amend
92 the current CIP as soon as next month.

93 Mr. Pinkston asked if the cost for the investments would be spread across rate payers.

94 Mr. Mawyer stated that since customers did not connect directly to the Authority, they were not
95 always aware of the funding arrangements. He stated that the Authority bore most of its costs
96 through its bonds, which were reimbursed by ACSA and the City Utilities Department.

97 **5. ITEMS FROM THE PUBLIC**

98 *Matters Not Listed for Public Hearing on the Agenda*

99 Dede Smith, speaking virtually, stated that it was understandable that the public and the Board
100 would be concerned about the CIP increase. She stated that Mr. Pinkston had expressed alarm at
101 the prospect of further increases. She stated that she would like to request that they remind the
102 public of the projected rate increases under the current CIP over the next five years.

103 **6. RESPONSES TO PUBLIC COMMENT**

104 Mr. Mawyer stated that last year, they had projected a 15% increase to ACSA and a 10% to 12%
105 increase for the City Utilities Department in July 2026. He stated that as they reassessed the cost
106 of the projects and the project schedules, they would need to revisit these projections. He stated
107 that he did not yet have new rate projections.

108 **7. CONSENT AGENDA**

109 *a. Staff Report on Administration and Communications*

110 *b. Staff Report on CIP Projects*

111 *c. Staff Report on Finance*

112 *d. Staff Report on Information Technology*

113 *e. Staff Report on Operations*

114 *f. Staff Report on Drought Monitoring*

g. *Staff Report on Wholesale Metering*

h. *Approval to Amend Professional Engineering Services – Rivanna Pump Station
Reconstruction Program Controls Improvements – Short Elliot Hendrickson, Inc.*

Ms. Mallek moved that the Board of Directors approve the Consent Agenda. Mr. Pinkston seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Richardson were absent)

8. OTHER BUSINESS

a. *Presentation and Consider Vote to Approve: An Amendment to the FY 26-30 CIP and Award of Construction Contract for the Scottsville WRRF Whole Plant Generator and Automatic Transfer Switch Project – Carrick Contracting Corp.*

Austin Marrs, P.E., Senior Civil Engineer, stated they were recommending a CIP budget amendment and a construction contract award. They were focusing on the wastewater facilities at Scottsville. He stated that the generator located at this facility was approximately 30 years old and had outlived its useful service life. He stated that in the event of a severe weather event or other emergency that rendered the power grid inoperable in Scottsville, they must divert to the lagoons until power was restored, and then they could treat the wastewater.

Mr. Marrs stated the goal of this project was to have a single, large enough generator to power both the wastewater treatment plant and the pump station, making them more resilient to severe weather events and other emergencies. He stated that they had coordinated the project extensively with the town of Scottsville, discussing it with the town council on multiple occasions, obtained necessary easements, and presented the project to the town manager during the summer.

Mr. Marrs stated RWSA has received \$525,960 in grant funding through FEMA and VDEM's hazard mitigation program for this project. He stated this process revealed that they needed to raise the generator above the 500-year floodplain, which was approximately a 20-foot elevation. He stated that they would need to build a large platform to achieve this elevation. He stated that as a result, the project was more expensive than initially anticipated. He stated that they would pursue additional grant funding with FEMA and VDEM up to 95% of the project cost.

Mr. Marrs stated that staff recommended a construction contract award to Carrick Contracting Corporation, located in Lake Park, Florida, with a local office in Williamsburg. He stated the contract amount was \$825,245. He briefly described the site plan. The purple arrow pointed to the location where they anticipated the generator would be installed. He stated that they would also construct a 650-linear-foot underground electric ductbank, with two four-inch conduits that would be open-cut and trenched at the edge of the ball fields at Dorrier Park. He stated construction would not impact the events taking place in the park, as it would be behind the fence.

Mr. Marrs continued that once the construction reached the edge of the ball fields, they would perform a miniature horizontal directional drill under a creek and a walking trail, just to the right of the war memorial behind the farmer's market in the town. He stated that this would allow the wastewater pump station, located behind the pavilion, to be connected electrically to the treatment plant. He included some images of the generator platform and its planned layout.

Mr. Marrs stated that as they reviewed the bid results and schedule in more detail, the current CIP budget for this project was \$520,000, excluding the platform. He stated that they received three bids for the project, with the lowest being \$825,245. He stated that this brought the total CIP budget to \$1.36 million. He stated that the project was expected to begin in January 2027 and run through June 2027, primarily due to the generator's long lead time of approximately 25-30 weeks. He stated that they had already spent \$154,000 on engineering and design.

Mr. Marrs stated they were pre-procuring a generator to match those used at other facilities. He stated that the procurement was estimated to be \$181,000. He stated that they also budgeted \$99,000 for construction administration and special inspections. He stated that legal and real estate fees totaled about \$20,000.

Ms. Mallek asked if administration and inspections would be performed in-house.

Mr. Marrs stated that third-party services would be involved in this project, including inspecting the cast-in-place concrete, rebar, and structural steel, as well as certifying the structure. He stated that these services would also include structural steel bolting and welding. He stated that they would also need to have third-party reviews of shop drawings, which would help them with the construction administration process.

Ms. Mallek moved that the Board of Directors approve an amendment to the FY 26-30 CIP for the SVWRRF Whole Plant Generator and ATS Project to increase the budget by \$843,000 to a whole budget of \$1,363,000; and to authorize the Executive Director to award a construction contract to Carrick Contracting Corporation for a total amount of \$825,245 and any change orders to the construction contract necessary for completion of the work not to exceed 10% of the original construction contract award. Mr. Pinkston seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Richardson were absent)

b. Presentation and Consider Vote to Approve: Award of Contract for Observatory Water Treatment Plant Hypochlorite Tank Replacements – Waco, Inc.

Dyon Vega, P.E., Civil Engineer, stated that he would be presenting on the Observatory Water Treatment Plant's sodium hypochlorite tank placements project. He stated that hypochlorite was used to disinfect water from various microorganisms. He stated that they currently had two existing hypochlorite tanks at the Observatory Water Treatment Plant, which were each 12,000 gallons in capacity. He stated that they had reached the end of their useful service life. He stated that to replace them, they would be ordering two new tanks made of polyethylene.

Mr. Vega stated that these tanks offered a longer warranty, shorter delivery time, and lower initial cost compared to the fiberglass tanks. He stated that they received four bids ranging from \$227,000 to \$449,000. He stated that WACO, Inc. came in with the lowest bid at \$227,000. He stated that their total project budget was \$293,000, which was less than the allocated CIP budget of \$371,000. He stated that construction was anticipated to begin as soon as the new tanks were delivered around September 2026.

Ms. Mallek asked if the polyethylene tanks would last longer.

Mr. Vega stated that they would not, but they were less expensive.

Ms. Mallek stated that she was curious about the effects of acid on plastic in general.

196 Mr. Vega stated that this material met all of their standards for safety and for its intended use in
197 drinking water.

198 Mr. Lunsford requested clarification about the warranty.

199 Mr. Vega stated that the warranty was 5 years, compared to 3 years for the fiberglass tank.

200 Mr. Mawyer noted that the polyethylene tanks were less expensive and more readily available.
201 He stated that in terms of service life, it was likely shorter than the fiberglass, so there was a
202 trade-off.

203 Mr. Pinkston asked why the tanks were not replaced when they did previous renovations.

204 Mr. Mawyer stated that when the design for the renovations to the treatment plant was initiated
205 about 10 years ago, the existing tanks had reached only about half of their service life.

206 Ms. Mallek asked how often they would have to replace the tanks.

207 Mr. Mawyer stated the lifespan was 10 to 20 years. He stated that the current tanks lasted about
208 25 years.

209 Ms. Mallek asked if there was a way to test the inside of the tanks for wear.

210 Mr. Mawyer stated they would investigate methods to monitor tank wall thickness.

211 **Mr. Pinkston moved that the Board of Directors authorize the Executive Director to**
212 **execute a construction contract with WACO, Inc. totaling \$227,000 to replace two sodium**
213 **hypochlorite storage tanks at the Observatory Water Treatment Plant. Ms. Mallek**
214 **seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Richardson**
215 **were absent)**

216 *c. Presentation and Consider Vote to Approve: Award of Services Contract to Replace*
217 *Granular Activated Carbon – Calgon Carbon*

218 Daniel Campbell, Director of Operations and Environmental Services, stated that the bid was
219 opened over the summer for granular activated carbon replacement. He stated he would examine
220 how this bid differed from the current contract. He stated that the GAC treatment buildings were
221 located at the conventional surface water treatment plants. Currently, they had 320,000 pounds of
222 GAC in service at South Rivanna, 240,000 pounds at Observatory, with 160,000 pounds due to
223 recent additions. They also had 12,000 pounds of GAC in service at Scottsville, 40,000 pounds at
224 Crozet, and 40,000 pounds at North Rivanna WTP.

225 Mr. Campbell stated that soon, they will have a GAC system in the Red Hill WTP with a 1,000-
226 pound contactor, and an additional 80,000 pounds of GAC at Crozet as part of the upcoming
227 plant expansion project. He stated that inside the treatment buildings, there were GAC
228 contactors, which held the GAC and facilitated filtration. They had three models in service: the
229 model 12-40 system at North Rivanna, South Rivanna, and Observatory treatment plants; the
230 Model 10 contactors at the Crozet Water Treatment Plant; and the Model 6, 6,000-pound
231 capacity contactors in service at Scottsville.

Mr. Campbell stated the current budget for GAC and pricing was as follows: they had 652,000 pounds of GAC in service, representing the largest chemical budget item in the water department, with a budget of \$1.2 million. They budget for 1.5 changeouts at each treatment plant each year and strive to use reactivated GAC whenever possible. He stated they had two pricing options: virgin carbon, which was new carbon that had never been used before, and reactivated carbon, which was carbon that had been removed and thermally reactivated for use again. The current product they used was Calgon Filtrasorb F300, an 8x30 mesh product.

Mr. Campbell stated that the bid was initiated in 2023, as part of the planning stages for the Crozet GAC expansion. As part of this project, our consultant, Cornwell Engineering Group conducted GAC performance testing. An indirect result of the testing was a comparison of the F300 GAC they use to the 400 GAC, a smaller-sized GAC. He stated the granule size was slightly smaller, but the surface area was greater for adsorption. They were taken aback by the study, which indicated that the 400 GAC had a significantly higher adsorption capacity than the 300 GAC.

Mr. Campbell stated they designed a performance-based bid specification to identify the costs and the best commercial product for use with their raw water. He stated the process was completed by the end of September, and a key aspect of this bid was that it was not solely based on meeting minimum qualifications or cost per pound, but also on performance.

Mr. Campbell stated the evaluation process simulated planned conditions primarily at South Rivanna, where the urban system produced 90% of its water. The testing measured how many gallons of water the GAC could treat before it became exhausted. They used South Rivanna filtered water for the testing and had three bidders submit samples. He noted that all products were blind-tested by a third-party lab, EPS in Jacksonville. He stated he personally removed the samples from commercial packaging, placed them in freezer bags, and labeled them A, B, and C. This ensured that he, and no one else, knew which sample was which, eliminating any bias from the manufacturers or testing company.

Mr. Campbell stated that EPS conducted column testing, on the three samples from Carbon Activated Corporation, Norit Activated Carbon, and Calgon Carbon. He stated the tests simulated the max flow rate for a 24-hour operation. He stated that the bid specified 50% removal before the GAC was exhausted. The results showed that all products started out performing similarly until reaching about 13,000 bed volumes. At this point, the Carbon Activated Corporation product became exhausted, falling below the 50% removal capacity. He stated that Norit performed slightly better, becoming exhausted at 16,000 bed volumes.

Mr. Campbell stated that Calgon Carbon outperformed both Norit and Carbon Activated Corporation, reaching a 50% removal capacity and maintaining treatment quality until becoming exhausted at 21,000 bed volumes. He stated the bid also included a price per pound component. The tables showed that Calgon Carbon was not only the best performing GAC but also the most cost-effective, with lower prices for both virgin and reactivated carbon.

Mr. Campbell stated that when comparing Calgon F400 to the current F300 product, F400 had a slightly smaller size, measuring 0.7 millimeters compared to 0.9 millimeters for F300. However, F400 boasts a higher adsorption capacity due to its increased surface area. He stated that in terms of capacity and bed volume, the F400 outperformed the F300, with a 24% increase in the amount of water that could be treated.

Mr. Campbell stated that historically, the current product had provided approximately 11 months of service per GAC exchange. He stated that if they applied this to South Rivanna, which treated about 1.4 billion gallons in 11 months, a 24% increase in capacity would translate to an additional 350 million gallons. He stated that alternatively, this increase would extend the in-service time to approximately 13.7 months before reactivation was necessary.

Mr. Campbell stated that examining the costs, the current price for virgin carbon was \$1.66 per pound, while reactivated carbon cost \$1.22 per pound. He stated that the price increase for the F400 was relatively minimal. He stated that the cost per pound was \$0.10 more for virgin carbon and \$0.03 more for reactivated carbon. He stated that this resulted in an average price increase of 4% for a 24% performance increase. He stated that assuming these numbers held true, the approximate cost per million gallons decreased by \$77 when transitioning to the F400 product. He stated that this would translate to an annual savings of \$300,000.

Mr. Lunsford asked how many times the carbon could be reactivated.

Mr. Campbell stated that the carbon could be reactivated 4 – 5 times. The reactivation process caused some of the carbon to be lost, typically around 20%. He stated that when a change-out was requested, the inventory levels were reported, and eventually, the carbon was supplemented with virgin carbon.

Mr. Lunsford asked if the reactivated carbon performed as well as the virgin carbon.

Mr. Campbell stated that it was dependent on raw water quality. He stated that sometimes it lasted the same amount of time, other times it did not.

Mr. Gaffney asked why the graph dipped in a few places.

Mr. Campbell stated that they believed the data points could be anomalies. However, they had observed decreased Total Organic Carbon levels in the field, such as after a backwash.

Ms. Mallek asked whether PFAS were part of the testing.

Mr. Campbell stated that the initial analysis from 2023 was worth recalling, as it coincided with the PFAS incident at North Rivanna, where the plant was temporarily shut down. He stated that as part of the 2023 testing conducted by Cornwell, a spike study was performed, which involved adding pure distilled water to a concentration of TOC and PFAS to assess the bed volumes. He stated that this study revealed an increase in both TOC and PFAS removal capacity. He stated that the GAC's ability to remove PFAS was substantially higher when using F400, even though it did not remove a wider range of PFAS compounds.

Mr. Pinkston moved that the Board of Directors Authorize the Executive Director to award a contract to Calgon Carbon for Granular Activated Carbon services for an estimated annual cost of \$1.5 million. Ms. Mallek seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Richardson were absent)

d. Presentation: Major Capital Projects Construction Update

Scott Schiller, P.E., Engineering Manager, stated he would begin with projects currently under construction, which had grown significantly since his presentation last year. They had the Ragged Mountain Reservoir to Observatory Water Treatment Plant Water Line and Pump

Station project. He stated that this project aimed to replace outdated infrastructure, including a 40-year-old and 70-year-old pump station, as well as 70 to 100-year-old water mains.

Mr. Schiller stated the work began with water main construction on Hereford Drive and Fontaine, and he stated that they had successfully completed that before the students returned in the fall. He stated they continued water main installation, which was being done by Thalle Construction, with an anticipated completion date of June 2029 and a budget of \$61.5 million.

Mr. Schiller stated that in the same general area, they had the Ragged Mountain Reservoir Pool Raise Project, which involved raising the reservoir pool by 12 feet. He stated that to achieve this, they would clear around the reservoir, perform minor modifications to the intake tower, and install a blanket drain along the edge of the dam.

Mr. Schiller stated that they had already started road improvements on Reservoir Road to improve access to the reservoir. Clearing was scheduled to begin in November, and construction was anticipated to be completed by December 2026, with a budget of \$13.2 million.

Mr. Gaffney asked if there was public access to the reservoir south of I-64.

Mr. Schiller stated that he believed it was private access. He stated they had worked with the City to keep the lower parking lot open and available. However, the upper lot by the reservoir had been closed, and there had been discussions about protecting that area for safety reasons.

Mr. Schiller stated they had the Central Water Line Phase 1 project, which aimed to improve water flow, pressure, and redundancy in the urban system. He stated construction had begun this week, and they installed the first section of pipe yesterday, which was a positive development. He stated the project was part of a larger process, and stage one was currently underway. He noted that Sagres Construction was handling this work, which was expected to be completed by December 2029 at a budget of \$58 million.

Mr. Schiller stated that they had the South Fork River Crossing project, which involved installing a second pipe under the south fork of the Rivanna River. He stated the pipe would be made of high-density polyethylene and installed using horizontal directional drill methods. He stated work was ongoing as the team prepared for the installation, and they were also installing water mains on Rio Mills Road. He stated construction was expected to be complete by January 2027 at a budget of \$6.3 million.

Mr. Schiller stated they would shift their focus to Moores Creek. He stated the structural and concrete rehabilitation project involved repairs to the holding ponds, EQ basins, primary clarifiers, digesters, and equipment shed roof. He stated the monorail crane system would be overhauled to make removing pumps from the aeration basin easier. He stated the EQ basins were being cleaned out, and the team had also done significant work on the equipment shed roof. He stated the project was being handled by W.M. Schlosser Company, with construction expected to end in May 2027 at a budget of \$15.5 million.

Mr. Schiller stated that at Moores Creek they had the Building Upfits and Gravity Thickener Improvement Project, which aimed to renovate the operations and maintenance staff locations within the plant. He stated the plant structures were approximately 40 years old and no longer met their current staffing needs and operational requirements. He stated that in addition to the previous work, they were also improving the gravity thickener system. He stated English

Construction had demolished some of the concrete within the vehicle shop for maintenance and would be pouring a new concrete floor. He stated it was expected to be completed by May 2027, with a budget of \$11.8 million.

Mr. Schiller stated that the Red Hill Water Treatment Plant upgrades would create additional space for chemical storage, monitoring, and automation equipment. This would also enable the installation of a granular activated carbon vessel at the facility, allowing for GAC treatment to begin. He stated that due to the tank being down, a temporary tank had been placed on site to maintain service to the Red Hill community. He stated that Anderson Construction was handling this work, and it was expected to be completed by June 2027, with a budget of \$2 million and \$400,000 in grant funds from the County.

Mr. Schiller stated that in Crozet, they had the pump station rehabilitation project. He stated that this involved repairing wastewater pump stations constructed in the 1980s. He stated that the four pump stations conveyed flow from Crozet into the urban wastewater collection system, which was then treated at the Moores Creek facility. He stated that WACO, Inc. was performing this work, and they had been in a long lead time period for the necessary equipment. He stated they expected to mobilize for heavy construction starting in April 2026 and completing the work by April 2028, with a budget of \$12.4 million.

Mr. Schiller stated that in Crozet, they also had the granular activated carbon expansion project. He stated that this involved adding an additional building to house two new GAC vessels. He stated they were finalizing contracts with English Construction, and work was expected to span from March 2026 to May 2028, and the budget was \$12 million with \$7.24 million in grant funds coming from VDH.

Mr. Schiller stated they had the powder activated carbon upgrade project in South Rivanna, where they were installing a new PAC silo and feed pumps to replace the existing equipment. He stated that the silo was previously a lime storage silo. He stated the project was handled by WACO, Inc., and they were currently working through construction submittals for the new PAC system. He stated construction was anticipated to be completed by June 2027 with a budget of \$1.8 million.

Mr. Schiller stated the last project was the Moores Creek administration building renovation. He stated that the building was constructed in the 1980s, and the organization had outgrown its current structure. He stated they needed to renovate the interior and expand it to accommodate the growing staff and modernize its internal features. He stated this included a new boardroom, education center, and updated lab space. He stated Martin Horn was leading this project, and they had set up temporary trailers for IT and administration staff. He noted they had also begun site work by excavating the existing lower parking lot and preparing for footers and foundation walls. He stated the construction work was anticipated to be completed by December 2027, with a budget of \$27.6 million.

Mr. Schiller stated that in terms of design phase and upcoming construction, the first project was the Central Water Line Phase 2, which continued on from Phase 1. He stated that Phase 1 had taken them from UVA to Market Street, and Phase 2 would go from Market Street to Long Street. They were working through easement acquisition procedures and closing out the construction documents for this project. He stated the construction was anticipated to run from August 2026 to March 2029, with a budget of \$21 million.

Mr. Schiller stated they had the South Fork Rivanna Reservoir to Ragged Mountain Reservoir Pipeline, Intake, and Facilities Project. He stated this project continued from the Observatory to Ragged Project and the Birdwood section of previously installed raw water main. He stated they would start from the south side and go up to the South Fork Rivanna Reservoir, covering approximately six miles of pipe. They would also have a 41 MGD raw water pump station intake structure on the reservoir.

Mr. Schiller stated they had also incorporated a separate project to perform repairs and install new tanks for the sodium permanganate building. He stated that to simplify the process, they had decided to combine this project with the existing one, rather than having two contractors work side by side. He stated they had already advertised the project, and they expected it to be bid by next month. He stated construction was scheduled to begin in May 2026 and complete by December 2030, at a budget of \$128 million.

Mr. Schiller stated that the Beaver Creek Dam Pump Station and Piping Modifications Project aimed to meet current DCR dam safety regulations and standards by replacing the existing spillway. He stated that the new spillway would be constructed over the top of the existing raw water pump station. He stated that to accommodate this, they would also construct a new raw water pump station intake and pipeline to the treatment plant. He stated that the existing pipeline was made of asbestos cement, providing an opportunity to remove it from service.

Mr. Schiller stated that they had been collaborating with VDOT on bridge design to ensure compliance with their requirements. He stated that having completed this process, they now understood their requirements and could proceed with the dam design. He stated that this collaboration had pushed the pump station design forward, and they would now advertise and bid out the pump station project with a separate process for the dam. He stated that the construction schedule for the project spanned from July 2026 to June 2031. He stated that this timeline showed the initial pump station work, followed by the completion of the dam construction.

Mr. Schiller stated it appeared that they would need to break out these components on the CIP projects report, separating the schedules accordingly. He stated that the budget for this project was \$72.3 million, and they anticipated \$20 million in grant funds from NRCS.

Mr. Schiller stated that at Moores Creek, they had the Moores Creek Pump Station slide gates, valves, bypass, and septage receiving upgrades. He stated that they were working to finalize the septage receiving improvements as part of this project. Additionally, they needed to acquire a small portion of property at the front of the treatment plant to facilitate the bypass connections shown in the image on the right. He stated that they were approximately 90% complete with the design for this project, with construction anticipated to occur from June 2026 to May 2028 and a budget of \$10.2 million.

Mr. Schiller stated that for the last two projects we would shift to the County plants on the wastewater side. He stated that this was the Glenmore Water Resource Recovery Facility Upgrade Phase 1 project, which aimed to replace equipment nearing the end of its useful life, including the UV system and existing blowers. He stated that the UV system had already been replaced, albeit with a fast-tracked installation process, which was being funded by this project. He stated that this project was currently out for advertisement, with bids expected next month, and construction was anticipated from June 2026 to January 2028, with a budget of \$1.8 million.

440 Mr. Schiller stated that the Scottsville Water Resource Recovery Facility permit modification
441 upgrades were also underway. He stated that the permit at the Scottsville facility had recently
442 been modified to meet new treatment requirements. He stated that this project involved chemical
443 addition modifications and aeration system improvements. He stated they had included interim
444 measures to ensure compliance with the new permit limits, which would take effect in May
445 2026. He stated that the construction would be completed by May 2027, with a budget of
446 \$827,000.

447 Ms. Mallek asked for clarification about the status of the South Fork Rivanna River crossing
448 project.

449 Mr. Schiller stated that what they were seeing in the left image was essentially the site, and there
450 was some orange fencing in the picture at the top, which might be a bit difficult to see. He stated
451 that there was a rectangular section of orange fencing. He stated that on the lower side, where
452 they showed the control room and the drill rig, that was the receiving pit for the Horizontal
453 Direction Drill.

454 Ms. Mallek asked if there was a water line under the ground already.

455 Mr. Schiller stated no, but they had installed pipe under Rio Mills Road. He stated that this
456 construction method was standard open cut. He stated that there was an existing 12-inch crossing
457 on the east side of Route 29, which supplied water to the urban system and Northern Albemarle.

458 Mr. Mawyer stated that they also had a plan which involved completing the same type of
459 directional drill pipe installation project at the North Fork Rivanna River.

460 Ms. Mallek asked if the right-of-way for the interceptor to Crozet project was maintained by the
461 Authority.

462 Mr. Schiller stated they performed maintenance of the right-of-way.

463 Ms. Mallek asked whether the easement could be used for a trail.

464 Mr. Schiller stated that it would extend through private property, so the easements would have to
465 be modified.

466 Ms. Mallek stated that her final question was regarding Beaver Creek. She stated that
467 specifically, she was curious about the view of the labyrinth and the bridge. She asked if, in the
468 event of very high water, could water flow over the top of the labyrinth and under the bridge.

469 Mr. Schiller stated yes, that would be the design. He stated that they had been working on a
470 solution to the previous issue with VDOT. He stated that previously, the bridge was located over
471 the labyrinth spillway, and VDOT had concerns about their ability to maintain and inspect it.

472 Ms. Mallek asked if there was an inspector on site at these projects to ensure they remained on
473 schedule.

474 Mr. Mawyer stated that they had an inspector who was not always on site, but they did visit
475 intermittently. He stated that for projects like the Central Water Line, they would be on site full-
476 time. He stated that for smaller projects, the inspector may not be present every minute, but they
477 would be there for most of the duration.

478 Mr. Schiller stated that for smaller projects, it was not uncommon for there to be periods of
479 inactivity.

480 Mr. Mawyer stated that they currently had five inspectors, and that was why they contracted with
481 consultants to supplement and assist with the workload. He stated that even with this support,
482 when they had 12 or 15 projects under construction, it was not a one-to-one ratio. He stated that
483 in some cases, one inspector may need to cover multiple projects in the same area.

484 Mr. Mawyer stated that this was something they would discuss further, possibly next month,
485 when they explored the possibility of adding more projects to the CIP. He stated that they would
486 need to determine if they had sufficient personnel to handle the increased workload. He stated
487 that they were attempting to grow the internal staff inspector team, which was a more cost-
488 effective approach and allowed them to supplement where necessary with consultants.

489 ***9. OTHER ITEMS FROM BOARD/STAFF NOT ON THE AGENDA***

490 There were none.

491 ***10. CLOSED MEETING***

492 There was no reason for a closed meeting.

493 ***11. ADJOURNMENT***

494 **Mr. Pinkston moved that the Board of Directors adjourn the meeting. Ms. Hildebrand**
495 **seconded the motion, which carried unanimously (5-0). (Mr. Sanders and Mr. Richardson**
496 **were absent).**



MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: NOVEMBER 18, 2025

STRATEGIC PLAN PRIORITY: EMPLOYEE DEVELOPMENT

Recognitions

The professional qualifications of our staff continue to improve and enhance our services. We congratulate the following employees for successfully completing professional certification requirements:

- Daniel Hunter, Wastewater Operator Class 1
 - *Note: 65% of RWSA Wastewater Operators hold a Class 1 professional license, the highest available in Virginia*
- David Bortner, Water Operator Class 1
 - *Note: 63% of RWSA Water Department Operators hold a Class 1 professional license, the highest available in Virginia*

Employee Appreciation

We celebrated the contributions of our staff on November 5th with lunch at Michie Tavern. Service awards were presented to employees who have been with RWSA in increments of 5 years of service. We celebrated the following staff for their years of service:

- Michael Webb, Water Quality Specialist – *20 Years of Service*
- Debra Hoyt, Chemist – *20 Years of Service*
- Victoria Fort, Senior Civil Engineer – *15 Years of Service*
- Peter Jasiurkowski, Chemist – *10 Years of Service*
- Blake Shifflett, Instrumentation Specialist – *5 Years of Service*
- Troy Grable, Mechanic 4 – *5 Years of Service*
- Chris Washburn, Water Operator Class 1 – *5 Years of Service*
- Bridgett Deakin, Water Operator Class 1 – *5 Years of Service*
- Dennis Barbieri, Wastewater Operator Class 1 – *5 Years of Service*



Human Resources Training

Leah Beard, Human Resources Manager, attended a training workshop on Worker's Compensation on September 25th. Alisa Cooper, Payroll & Benefits Coordinator, attended a workshop on Virginia's Retirement System on October 28th.



Virginia Government Finance Officers' Association's (VGFOA)

Lonnie Wood, Director of Finance, Stephanie Deal, Finance Manager, and Kathy Ware, Senior Accountant, attended the 2025 Fall VGFOA Conference in Charlottesville from November 5- 7. This conference provided opportunities for professional development, networking with government finance officers across the state, and attending educational sessions.

STRATEGIC PLAN PRIORITY: PLANNING AND INFRASTRUCTURE

Rivanna Pump Station Update

With the repairs and improvements substantially completed, the cost to restore the Wastewater Pump Station totaled about \$16.2 M. Our insurance company reimbursed about \$9.9 M of the repair costs, and RWSA funded about \$0.9 M of the repair costs and \$5.4 M in improvement costs with all totaling about \$6.3 M, as shown below.

Item	Cost
Repairs	
Temporary bypass system	\$ 8,595,000
Consultant design and support	\$ 710,000
Construction	\$ 1,545,000
Subtotal	\$ 10,850,000
Less VRSA reimbursement	\$ 9,919,372.00
RWSA cost	\$ 930,628.00
Improvements	
Consultant design and support	\$ 595,000.00
Construction	\$ 4,830,000.00
	\$ 5,425,000.00
Total Cost	\$ 16,275,000.00
Total Cost to RWSA	\$ 6,355,628.00



Administration Building Update

Pavement and concrete removed, excavation and foundation prep for building addition is underway.



MCAWRRF Structural Repairs –

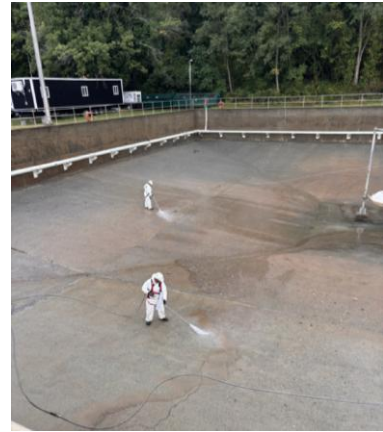
Digesters – Removal of brick around the digesters and repairs to concrete



Maintenance Storage – repairs, blasting, and painting steel structure before roof replacement



Wastewater Storage Basins – Concrete repairs are underway.



Moore's Creek AWWRF Building Upfits

Vehicle Maintenance Building - Removal of concrete pad to construct building foundation walls.



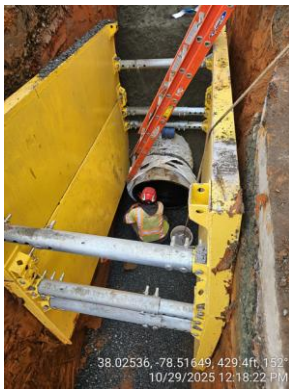
South Rivanna River Crossing Update

Three bore passes have been made under the river, with one more pass needed before the HDPE pipe will be pulled through.



Central Water Line – Phase 1

Excavation and waterline installation in the Fontaine Avenue area



Ragged Mtn Reservoir to Observatory WTP Pipe and Pump Station Project

Excavation and waterline installation in the Fontaine Avenue area



PFAS Settlement Payments

We received two additional payments in September and October from the PFAS Class Action Litigation. Payments received from 3M and Dupont totaled \$767,929, with total received to date of \$1,039,907. We have received \$882,244.57 from 3M and \$154,661.75 from Dupont, with a combined remaining balance of \$610,577.87.



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: NOVEMBER 18, 2025

Human Resources

Fiscal year 2026 turnover is 6.5% through November 7, 2025, for the fiscal year beginning on July 1, 2025, which includes one retirement.

We are excited to welcome a new employee:

- Erik Huber – Water Operator Trainee

We celebrated with our employees at our annual *Employee Appreciation Event* at Michie Tavern on November 5, 2025. We recognized nine employees for their years of service to Rivanna and to our community:

- Michael Webb, Water Quality Specialist – 20 Years of Service
- Debra Hoyt, Chemist – 20 Years of Service
- Victoria Fort, Senior Civil Engineer – 15 Years of Service
- Peter Jasiurkowski, Chemist – 10 Years of Service
- Blake Shifflett, Instrumentation Specialist – 5 Years of Service
- Troy Grable, Mechanic 4 – 5 Years of Service
- Chris Washburn, Water Operator Class 1 – 5 Years of Service
- Bridgett Deakin, Water Operator Class 1 – 5 Years of Service
- Dennis Barbieri, Wastewater Operator Class 1 – 5 Years of Service

Leah Beard, our Human Resources Manager, attended a training workshop on Worker's Compensation on September 25th. Alisa Cooper, Our Payroll & Benefits Coordinator, attended a workshop on Virginia's Retirement System on October 28th.

Eight team members (Jacob Woodson, Alisa Cooper, Madison Kelly, Debra Hoyt, Rich McElfresh, David Jeffries, Bonnie Eveleth, and Duane Houchens) are participating in an interactive workshop as a part of our Strategic Plan goal of Workforce Development. The workshop called *Looking at Leadership*, is a preliminary look at leadership for future leaders at the Rivanna Authorities.

Safety

Our Safety Manager is coordinating with IT, Operations, and Solid Waste to begin a new Safety Protocol utilizing updated technology in the *OK Alone* app. This will help ensure our team members are safe when they

are working independently at a Rivanna location.

Community Outreach

Westley Kern, our Communications & Outreach Coordinator, has been working on communications to the public about our capital projects. This includes press releases, signs, door hangers and newsletters that residents can sign up to receive for our ongoing projects such as the Central Water Line and the Ragged Mountain Reservoir Pool Raise.

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: NOVEMBER 18, 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 2027
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	August 2025	December 2027
9	SRWTP – PAC Upgrades	November 2025	June 2027
10	RMR Pool Raise	September 2025	December 2026
11	Sewer and Manhole Repairs, Phase 2	December 2025	June 2027
12	Crozet WTP GAC Expansion, Phase 1	March 2026	May 2028
13	SVWRRF Generator	January 2026	June 2027
14	Central Water Line, Phase 2	August 2026	March 2029
15	MC Pump Station Slide Gates, Valves, Bypass, and Septage Receiving Upgrades	June 2026	May 2028

16	SRR to RMR Pipeline, Intake, and Facilities	May 2026	December 2030
17	Beaver Creek Dam Spillway Modifications	March 2027	June 2031
18	Beaver Creek Raw Water Pump Station, Intake, and Piping	July 2026	June 2029
19	Upper Schenks Branch Interceptor, Phase 2	2026	2028
20	Glenmore WRRF, Phase 1	June 2026	January 2028
21	Dam Concrete and Steel Repairs	July 2026	November 2027
22	SVWRRF Permit Modification Upgrades	May 2026	May 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
11. Sewer & Manhole Repairs (Phase 2)
12. Crozet WTP GAC Expansion, Phase 1
13. SVWRRF Generator

Design and Bidding

14. Central Water Line, Phase 2
15. MC Pump Station Slide Gates, Valves, Bypass, and Septage Receiving Upgrades
16. SRR to RMR Pipeline, Intake, and Facilities
17. Beaver Creek Dam Spillway Modifications
18. Beaver Creek Raw Water Pump Station, Intake, and Piping
19. Upper Schenks Branch Interceptor, Phase 2
20. Glenmore WRRF Upgrade, Phase 1
21. Dam Concrete and Steel Repairs
22. SVWRRF Permit Modification Upgrades

Planning and Studies

23. MCAWRRF Biogas Upgrades
24. Flood Protection Resiliency Study

Other Significant Projects

25. Urgent and Emergency Repairs

26. Security Enhancements

Under Construction

1. Central Water Line, Phase 1

Design Engineer:	Michael Baker International (Baker)
Construction Contractor:	Sagres Construction Corporation (Alexandria, VA)
Construction Start:	October 2025
Percent Complete:	5%
Base Construction Contract +	
Change Order to Date = Current Value:	\$47,450,000
Completion:	December 2029
Budget:	\$58 M

Current Status: The first stage of water line construction includes Stadium Rd, Piedmont Ave, Price Ave, and Lewis St (to the railroad tracks). Contractor mobilized equipment and pipe to staging area at the end of Lewis St. mid-October and installed approximately 120 LF of 30" water line the first week in Lewis St. Upcoming work includes installation of the 2" WL for City Utilities in Lewis St. and crossing Fontaine Ave with the 30" water line. Contractor is also coordinating with City Utilities to relocate gas lines along the initial stage.

2. Red Hill Water Treatment Plant Upgrades

Design Engineer:	Short Elliot Hendrickson (SEH)
Construction Contractor:	Anderson Construction (Lynchburg, VA)
Construction Start:	January 2025
Percent Complete:	15%
Base Construction Contract +	
Change Order to Date = Current Value:	\$2,067,000 - \$324,625 = \$1,742,375
Completion:	June 2027
Budget:	\$2.05 M

Current Status: The building permit has been approved and construction activities have begun. Submittals are being reviewed for the new Chemical Building.

3. South Fork Rivanna River Crossing

Design Engineer:	Michael Baker International (Baker)
Construction Contractor:	Faulconer (Charlottesville, VA)
Construction Start:	December 2024
Percent Complete:	60%
Base Construction Contract +	
Change Order to Date = Current Value:	\$4,916,940 + \$491,550 = \$5,408,490
Completion:	January 2027
Budget:	<i>Increase to \$6.54 M from \$6.25 M</i>

Current Status: Horizontal Directional Drilling subcontractor is on the third (and final) reaming pass for the 1,200 LF directional drill before they can pull the fused HDPE water line through the opening.

A portion of Old Rio Mills Road will be closed for several more months during construction of the new 24" water line. The contractor continues to address erosion and sediment control issues related to the drilling operation..

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

Design Engineer:	Kimley-Horn
Construction Contractor:	Thalle Construction (Hillsborough, NC)
Construction Start:	February 2025
Percent Complete:	15%
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: Contractor has substantially completed pipeline installation across Fontaine Avenue, with only pavement restriping remaining, and has completed installation of the pipeline across Reservoir Road near the Regents School. Approximately 1,700 linear feet of 36" raw water piping has been installed to date. Completed relocation of the existing 18" raw waterline on the pump station site, clearing the pump station building footprint for construction to start in the coming weeks.

5. MCAWRRF Building Upfits and Gravity Thickener Improvements

Design Engineer:	Short Elliot Hendrickson (SEH)
Construction Contractor:	English Construction (Lynchburg, VA)
Construction Start:	May 2025
Percent Complete:	15%
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: Contractor is working on improvements to the Duty Station which will provide temporary office and storage space for personnel while office spaces in the Blower Building are being renovated. Foundation work for the new maintenance office space under the Vehicle Maintenance Shop canopy and test pitting of utilities are underway.

6. MCAWRRF Structural and Concrete Rehabilitation

Design Engineer:	Hazen and Sawyer (Hazen)
Construction Contractor:	WM Schlosser (Hyattsville, MD)
Construction Start:	May 2025
Percent Complete:	15%
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: Priming, painting, and purlin replacement at the north Maintenance storage building is are underway. Concrete repairs are ongoing on the digesters and the equalization basins.

7. Crozet Pump Stations Rehabilitation

Design Engineer:	Wiley Wilson
Construction Contractor:	Waco, Inc. (Sandston, VA)
Construction Start:	April 2026
Percent Complete:	5%
Base Construction Contract+	
Change Order to Date = Current Value:	\$9,583,350
Completion:	April 2028
Budget:	\$12.35 M

Current Status: Materials have been ordered and have lengthy delivery times.

8. Moores Creek Administration Building Renovation and Addition

Design Engineer:	SEH
Construction Contractor	Martin Horn (Charlottesville, VA)
Construction Start:	August 2025
Percent Complete:	10%
Base Construction Contract+	
Change Order to Date = Current Value	\$22,094,000
Completion:	December 2027
Budget:	\$27.6 M

Current Status: Site and foundation work continue for the addition. Setup of temporary trailers for Administration staff and temporary IT network infrastructure are complete and a move is occurring this month.

9. SRWTP – PAC Upgrades

Design Engineer:	SEH
Construction Contractor	Waco, Inc (Sandston, VA)
Construction Start:	November 2025
Percent Complete:	5%
Base Construction Contract+	
Change Order to Date = Current Value	\$1,497,000
Completion:	June 2027
Budget:	\$1.82 M

Current Status: Submittals for the powdered activated carbon tank are being processed and materials are being ordered.

10. RMR Pool Raise

Design Engineer:	Schnabel Engineering
Construction Contractor:	Faulconer Construction (Charlottesville, VA)
Construction Start:	September 2025
Percent Complete:	10%
Base Construction Contract+	
Change Order to Date = Current Value	\$12,329,000 - \$1,310,950 = \$11,018,050
Completion:	December 2026
Budget:	\$13.2 M

Current Status: Tree clearing activities started on November 17th.

11. Sewer and Manhole Repairs, Phase 2

Design Engineer:	CHA Consulting, Inc.
Construction Contractor:	Vortex Services, LLC (Chesapeake, VA)
Construction Start:	December 2025
Percent Complete:	2%
Base Construction Contract+	
Change Order to Date = Current Value	\$1,439,440
Completion:	June 2027
Budget:	\$2.185 M

Current Status: The Notice to Proceed was issued on October 27th. Sewer inspections via closed-circuit television (CCTV) began on November 10th.

12. Crozet WTP GAC Expansion, Phase 1

Design Engineer:	SEH
Construction Contractor:	English Construction Company (Lynchburg, VA)
Construction Start:	March 2026
Percent Complete:	0%
Base Construction Contract +	
Change Orders to Date = Current Value	\$9,920,000
Completion:	May 2028
Budget:	\$12.165 M

Current Status: Coordinating with VDH on documents for the grant funds totaling \$7.24 M before issuing Notice to Proceed to the contractor.

13. SVWRRF Generator

Design Engineer:	Wiley Wilson
Construction Contractor:	Carrick Contracting Corp. (Williamsburg, VA)
Construction Start:	January 2026
Percent Complete:	0%
Base Construction Contract +	
Change Orders to Date = Current Value	\$825,245
Completion:	June 2027

Budget: \$1.36 M

Current Status: Notice of Award was issued on October 30th, 2025. Execution of contracts and bonds is underway.

Design and Bidding

14. Central Water Line, Phase 2

Design Engineer:	Michael Baker International (Baker)
Project Start:	July 2024
Project Status:	85% Design
Construction Start:	August 2026
Completion:	March 2029
Budget:	\$21 M

Current Status: Engineers are developing 90% design drawings and permit applications. A private easement has been acquired and easements on two City parcels will be requested from City Council.

15. 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:	June 2026
Completion:	May 2028
Budget:	\$10.2 M

Current Status: Final design is proceeding with the additional work on the south side septage station. Acquisition of a small parcel outside the MCAWRRF fence line is needed for construction and negotiations are underway.

16. SRR to RMR Pipeline, Intake, and Facilities

Design Engineer:	Kimley Horn
Project Start:	July 2023
Project Status:	Bidding
Construction Start:	May 2026
Completion:	December 2030
Budget:	\$117 M

Current Status: Construction bids are due on November 20th. Consideration for an award is anticipated at the December Board Meeting.

17. Beaver Creek Dam Spillway Modifications

Design Engineer:	Schnabel Engineering
Project Start:	February 2018
Project Status:	80% Design
Construction Start:	March 2027
Completion:	June 2031

Budget: \$33.5 M

Current Status: Final design of the dam spillway upgrades is ongoing, with efforts focusing on primary spillway riser modifications to meet new seismic criteria. Changes to the spillway bridge design are being completed based on feedback from VDOT. A significant (\$20 M) construction grant from the NRCS is anticipated.

18. Beaver Creek Raw Water Pump Station, Intake, and Piping Improvements

Design Engineer:	Hazen & Sawyer
Project Start:	February 2018
Project Status:	80% Design
Construction Start:	July 2026
Completion:	June 2029
Budget:	\$39.0 M

Current Status: Design of the pump station continues including recommendations from the Value Engineering workshop. Discussions with the County are underway regarding a lease for the Pump Station property. Easement negotiations for the new raw water main are underway.

19. Upper Schenks Branch Interceptor, Phase 2

Design Engineer:	CHA Consulting
Project Start:	July 2021
Project Status:	Design
Construction Start:	2026
Completion:	2027
Budget:	\$7.1 M for RWSA section; \$11 – 15 M including City section

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

20. Glenmore WRRF Upgrade, Phase 1

Design Engineer:	SEH
Project Start:	March 2025
Project Status:	Bidding
Construction Start:	June 2026
Completion:	January 2028
Budget:	\$1.8 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. Construction bids were received on November 12th.

21. Dam Concrete and Steel Repairs

Design Engineer:	GAI Consultants
Project Start:	January 2025
Project Status:	10% Design
Construction Start:	July 2026
Completion:	November 2027
Budget:	\$2.82 M

Current Status: Structural assessments of the Sugar Hollow, South Rivanna, Lickinghole Creek, and Totier Creek dams have been completed. Design of the recommended repairs is underway.

22. SVWRRF Permit Modification Upgrades

Design Engineer:	Short Elliot Hendrickson
Project Start:	July 2025
Project Status:	10% Design
Construction Start:	May 2026
Completion:	May 2027
Budget:	\$827,000

Current Status: This project includes influent pump station and headworks upgrades, aeration piping rehabilitation, a new storage and chemical feed building, and flood resiliency improvements. Design is underway and interim measures for meeting permit requirements are being coordinated with Operations staff.

Planning and Studies

23. MCAWRRF Biogas Upgrades

Design Engineer:	SEH
Project Start:	October 2021
Project Status:	Preliminary Engineering/Study (99%)
Completion:	December 2024
Budget:	\$7.8 M

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

24. Flood Protection Resiliency Study

Design Engineer:	Hazen
Project Start:	August 2024
Project Status:	Preliminary Engineering/Study
Completion:	April 2026
Budget:	\$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 AWWRF within those flood event boundaries. This project received \$198,930 in grant funding from FEMA and VDEM and the analysis process has begun

Other Significant Projects

25. 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
2025-03	Rivanna Interceptor Stream Crossing Repairs	TBD

- **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 be scheduled pending Contractor availability.
- **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 On-Call Maintenance Contractor, 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. RWSA will be utilizing Design Engineer, SEH, for assistance with plans and USACOE permitting.

26. Security Enhancements

Design Engineer:	Hazen & Sawyer
Construction Contractor:	Security 101 (Richmond, VA)
Construction Start:	March 2020
Percent Complete:	85% (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: WA12 includes installation of card access on all exterior doors at the Observatory WTP, as well as two small electrical buildings at MCAWWRF. Design of MCAWWRF 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. These discussions continue. The WPO documents were approved by Albemarle County in September.

MEMORANDUM

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

FROM: LONNIE WOOD, DIRECTOR OF FINANCE

REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: SEPTEMBER MONTHLY FINANCIAL SUMMARY – FY 2026

DATE: NOVEMBER 18, 2025

Financial Snapshot

The Authority's actual operating revenues through September are \$1,592,900 over the prorated annual budget estimates, and operating expenses are over the prorated budget by \$243,600, resulting in an operating surplus of \$1,349,300. Urban Water flows and operating rate revenue for this month are 14% over budget estimates. Urban Wastewater flows and operations rate revenue are 1% over budget. Both Urban Rate centers generated \$472,900 in excess revenues related to these flows. The Authority has received \$882,200 in PFAS litigation funds this quarter, which is another cause of the excess revenues. This excess revenue is offset by some quarterly and annual payments of operating expenses discussed on the next page of this memo.

Total revenues are \$1,607,400 over budget estimates, and total expenses are \$181,500 under budget, resulting in an overall surplus of \$1,425,800 through September. Revenues and expenses are summarized in the table below:

September 2025 Year-to-Date Budget vs Actual Results:

	Budget	Actual	Variance
Operations			
Revenues	\$ 7,661,475	\$ 9,254,330	\$ 1,592,855
Expenses	7,661,475	7,905,076	243,601
Surplus (deficit)	\$ -	\$ 1,349,254	\$ 1,349,254
Debt Service			
Revenues	\$ 8,353,311	\$ 8,367,813	\$ 14,502
Expenses	8,353,311	8,291,226	(62,085)
Surplus (deficit)	\$ -	\$ 76,587	\$ 76,587
Total			
Revenues	\$ 16,014,786	\$ 17,622,143	\$ 1,607,357
Expenses	16,014,786	16,196,302	181,516
Surplus (deficit)	\$ -	\$ 1,425,841	\$ 1,425,841

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 in July for certain maintenance agreements and for employer contributions to employees' health savings accounts. The annual payment to UVA for the Observatory lease (\$175,000) is made in August. Insurance premiums are paid at the beginning of each quarter.
- B. Personnel Costs (most departments – pages 2-10) – The prorated budget amounts through August are calculated as 3/12 (or 25%) of the annual budget on these financial statements. However, actual payroll is paid biweekly, and there have been 7 out of 26 total pay periods through September (or 26.9%). This 1.9% difference affects the comparison of budget vs. actual payroll costs. The Maintenance Department is also over the prorated budget due to the final leave payout to the maintenance manager upon retirement. Several water operators have achieved their Class 1 licenses in the past few months.
- C. Professional Services (Urban Water, Crozet Water, Administration – pages 2,3,8) – Urban Water and Crozet Water are over the prorated budget in this category by \$35,000 and \$18,000 respectively for engineering and technical services. The Administration Department is currently \$19,700 over 3/12 of the annual budget for legal fees.
- D. Other Services & Charges (Administration – page 8) – Administration incurred an unbudgeted \$10,000 software annual fee for safety training and incident reporting. This disbursement will be reclassified to the Information Technology category.
- E. Information Technology (Administration, Engineering – pages 8, 12) – The Administration and Engineering departments paid annual software renewals.
- F. Operations and Maintenance (Glenmore Wastewater, Maintenance – pages 3,6) –The Maintenance department is currently over budget on vehicle repairs. Glenmore Wastewater spent \$79,800 on an unbudgeted purchase to replace its current UV system.

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025
Fiscal Year 2026

Consolidated
Revenues and Expenses Summary

<i>Budget</i>	<i>Budget</i>	<i>Actual</i>	<i>Budget</i>	<i>Variance</i>
<i>FY 2026</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	\$ 28,565,847	\$ 7,141,462	\$ 7,614,394	\$ 472,932	6.62%
Lease Revenue	120,000	30,000	36,847	6,847	22.82%
Admin., Finance/IT, Maint. & Engineering Revenue	998,000	249,500	262,263	12,763	5.12%
Other Revenues	689,654	172,414	1,180,628	1,008,214	584.77%
Interest Allocation	272,400	68,100	160,198	92,098	135.24%
Total Operating Revenues	\$ 30,645,901	\$ 7,661,475	\$ 9,254,330	\$ 1,592,855	20.79%

Expenses

Personnel Cost	A,B	\$ 14,179,052	\$ 3,544,763	\$ 3,823,078	\$ (278,315)	-7.85%
Professional Services	C	777,950	194,488	220,854	(26,367)	-13.56%
Other Services & Charges	D	4,580,981	1,145,245	1,108,972	36,274	3.17%
Communication		291,328	72,832	86,668	(13,836)	-19.00%
Information Technology	E	2,398,380	599,595	513,841	85,754	14.30%
Supplies		60,031	15,008	14,910	98	0.65%
Operations & Maintenance	A,F	6,856,926	1,714,232	1,772,058	(57,827)	-3.37%
Equipment Purchases		551,250	137,813	127,194	10,619	7.71%
Depreciation		950,000	237,500	237,500	(0)	0.00%
Total Operating Expenses		\$ 30,645,898	\$ 7,661,475	\$ 7,905,076	\$ (243,601)	-3.18%
Operating Surplus/(Deficit)		\$ 3	\$ 1	\$ 1,349,255		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 31,290,304	\$ 7,822,576	\$ 7,822,575	\$ (1)	0.00%
Septage Receiving Support - County	109,440	27,360	109,440	82,080	300.00%
Buck Mountain Lease Revenue	10,000	2,500	381	(2,119)	-84.76%
Trust Fund Interest	456,900	114,225	110,850	(3,375)	-2.95%
Reserve Fund Interest	1,546,600	386,650	324,567	(62,083)	-16.06%
Total Debt Service Revenues	\$ 33,413,244	\$ 8,353,311	\$ 8,367,813	\$ 14,502	0.17%

Debt Service Costs

Total Principal & Interest	\$ 21,245,638	\$ 5,311,410	\$ 5,311,410	\$ -	0.00%
Reserve Additions-Interest	1,546,600	386,650	324,567	62,083	16.06%
Debt Service Ratio Charge	725,000	181,250	181,250	-	0.00%
Reserve Additions-CIP Growth	9,896,000	2,474,000	2,474,000	-	0.00%
Total Debt Service Costs	\$ 33,413,238	\$ 8,353,310	\$ 8,291,226	\$ 62,083	0.74%
Debt Service Surplus/(Deficit)	\$ 6	\$ 2	\$ 76,586		

Summary

Total Revenues	\$ 64,059,145	\$ 16,014,786	\$ 17,622,143	\$ 1,607,356	10.04%
Total Expenses	64,059,136	16,014,784	16,196,302	(181,518)	-1.13%
Surplus/(Deficit)	\$ 9	\$ 2	\$ 1,425,841		

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Urban Water Rate Center
Revenues and Expenses Summary

Budget FY 2026	Budget Year-to-Date	Actual Year-to-Date	Budget vs. Actual	Variance Percentage
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Operating Budget vs. Actual

	Notes									
Revenues										
Operations Rate Revenue	\$	12,376,260	\$	3,094,065	\$	3,532,365	\$	438,300	14.17%	
Lease Revenue		90,000		22,500		28,220		5,720	25.42%	
Grants		-		-		-		-		
Other Revenue		-		-		800,834		800,834		
Interest Allocation		120,000		30,000		70,167		40,167	133.89%	
Total Operating Revenues	\$	12,586,260	\$	3,146,565	\$	4,431,586	\$	1,285,021	40.84%	
Expenses										
Personnel Cost	A	\$	2,725,694	\$	681,423	\$	752,066	\$	(70,643)	-10.37%
Professional Services	C		220,500		55,125		94,164		(39,039)	-70.82%
Other Services & Charges			1,210,134		302,534		292,618		9,915	3.28%
Communications			91,500		22,875		29,754		(6,879)	-30.07%
Information Technology			197,100		49,275		33,398		15,877	32.22%
Supplies			10,031		2,508		3,047		(539)	-21.48%
Operations & Maintenance	A		3,116,833		779,208		816,535		(37,327)	-4.79%
Equipment Purchases			26,900		6,725		6,725		(0)	0.00%
Depreciation			300,000		75,000		75,000		-	0.00%
Subtotal Before Allocations		\$	7,898,692	\$	1,974,673	\$	2,103,306	\$	(128,633)	-6.51%
Allocation of Support Departments			4,687,568		1,171,892		1,216,909		(45,017)	-3.84%
Total Operating Expenses		\$	12,586,259	\$	3,146,565	\$	3,320,215	\$	(173,650)	-5.52%
Operating Surplus/(Deficit)		\$	1	\$	0	\$	1,111,371			

Debt Service Budget vs. Actual

Revenues									
Debt Service Rate Revenue	\$	15,733,661	\$	3,933,415	\$	3,933,414	\$	(1)	0.00%
Trust Fund Interest		200,000		50,000		48,541		(1,459)	-2.92%
Reserve Fund Interest		744,800		186,200		156,441		(29,759)	-15.98%
Lease Revenue		10,000		2,500		381		(2,119)	-84.76%
<i>Total Debt Service Revenues</i>	\$	16,688,461	\$	4,172,115	\$	4,138,777	\$	(33,338)	-0.80%
Debt Service Costs									
Total Principal & Interest	\$	8,904,860	\$	2,226,215	\$	2,226,215	\$	-	0.00%
Reserve Additions-Interest		744,800		186,200		156,441		29,759	15.98%
Debt Service Ratio Charge		400,000		100,000		100,000		-	0.00%
Est. New Debt Service - CIP Growth		6,638,800		1,659,700		1,659,700		-	0.00%
<i>Total Debt Service Costs</i>	\$	16,688,460	\$	4,172,115	\$	4,142,356	\$	29,759	0.71%
<i>Debt Service Surplus/(Deficit)</i>	\$	1	\$	0	\$	(3,579)			

Rate Center Summary

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Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Crozet Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2026</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	\$ 1,562,184	\$ 390,546	\$ 390,546	\$ -	0.00%
Lease Revenue	30,000	7,500	8,627	1,127	15.02%
Other Revenue	-	-	66,103	66,103	
Interest Allocation	15,000	3,750	8,811	5,061	134.96%
Total Operating Revenues	\$ 1,607,184	\$ 401,796	\$ 474,086	\$ 72,290	17.99%

Expenses

Personnel Cost	A \$ 379,359	\$ 94,840	\$ 105,789	\$ (10,949)	-11.55%
Professional Services	C 19,500	4,875	22,998	(18,123)	-371.76%
Other Services & Charges	177,582	44,396	45,164	(769)	-1.73%
Communications	15,300	3,825	4,896	(1,071)	-27.99%
Information Technology	64,400	16,100	16,835	(735)	-4.57%
Supplies	1,100	275	1,030	(755)	-274.72%
Operations & Maintenance	449,085	112,271	116,063	(3,792)	-3.38%
Equipment Purchases	3,800	950	950	(0)	0.00%
Depreciation	60,000	15,000	15,000	-	0.00%
Subtotal Before Allocations	\$ 1,170,126	\$ 292,532	\$ 328,726	\$ (36,194)	-12.37%
Allocation of Support Departments	437,056	109,264	113,650	(4,386)	-4.01%
Total Operating Expenses	\$ 1,607,183	\$ 401,796	\$ 442,376	\$ (40,580)	-10.10%
Operating Surplus/(Deficit)	\$ 1	\$ 0	\$ 31,710		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 3,103,992	\$ 775,998	\$ 775,998	\$ -	0.00%
Trust Fund Interest	32,000	8,000	7,759	(241)	-3.01%
Reserve Fund Interest	118,000	29,500	24,667	(4,833)	-16.38%
Total Debt Service Revenues	\$ 3,253,992	\$ 813,498	\$ 808,425	\$ (5,073)	-0.62%

Debt Service Costs

Total Principal & Interest	\$ 1,126,391	\$ 281,598	\$ 281,598	\$ -	0.00%
Reserve Additions-Interest	118,000	29,500	24,667	4,833	16.38%
Estimated New Principal & Interest	2,009,600	502,400	502,400	-	0.00%
Total Debt Service Costs	\$ 3,253,991	\$ 813,498	\$ 808,665	\$ 4,833	0.59%
Debt Service Surplus/(Deficit)	\$ 1	\$ 0	\$ (240)		

Rate Center Summary

Total Revenues	\$ 4,861,176	\$ 1,215,294	\$ 1,282,511	\$ 67,217	5.53%
Total Expenses	4,861,174	1,215,293	1,251,041	(35,747)	-2.94%
Surplus/(Deficit)	\$ 2	\$ 1	\$ 31,470		
Costs per 1000 Gallons	\$ 7.93		\$ 6.67		
Operating and DS	\$ 23.98		\$ 18.85		
Thousand Gallons Treated	202,697	50,674	66,352	15,678	30.94%
Flow (MGD)	0.555		0.721		

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Scottsville Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2026</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	\$ 851,940	\$ 212,985	\$ 212,985	\$ -	0.00%
Other Revenue	-	-	15,312	15,312	
Interest Allocation	7,700	1,925	4,486	2,561	133.02%
Total Operating Revenues	\$ 859,640	\$ 214,910	\$ 232,783	\$ 17,873	8.32%

Expenses

Personnel Cost	\$ 248,090	\$ 62,022	\$ 69,524	\$ (7,502)	-12.10%
Professional Services	15,000	3,750	11,000	(7,250)	-193.33%
Other Services & Charges	79,887	19,972	22,696	(2,724)	-13.64%
Communications	18,550	4,638	7,348	(2,711)	-58.45%
Information Technology	57,000	14,250	14,750	(500)	-3.51%
Supplies	200	50	832	(782)	-1564.84%
Operations & Maintenance	137,220	34,305	29,028	5,277	15.38%
Equipment Purchases	2,400	600	772	(172)	-28.60%
Depreciation	40,000	10,000	10,000	0	0.00%
Subtotal Before Allocations	\$ 598,347	\$ 149,587	\$ 165,950	\$ (16,363)	-10.94%
Allocation of Support Departments	261,289	65,322	68,321	(2,999)	-4.59%
Total Operating Expenses	\$ 859,636	\$ 214,909	\$ 234,271	\$ (19,362)	-9.01%
Operating Surplus/(Deficit)	\$ 4	\$ 1	\$ (1,488)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 304,128	\$ 76,032	\$ 76,032	\$ -	0.00%
Trust Fund Interest	4,200	1,050	1,020	(30)	-2.88%
Reserve Fund Interest	4,800	1,200	974	(226)	-18.86%
Total Debt Service Revenues	\$ 313,128	\$ 78,282	\$ 78,026	\$ (256)	-0.33%

Debt Service Costs

Total Principal & Interest	\$ 148,127	\$ 37,032	\$ 37,032	\$ -	0.00%
Reserve Additions-Interest	4,800	1,200	974	226	18.86%
Estimated New Principal & Interest	160,200	40,050	40,050	-	0.00%
Total Debt Service Costs	\$ 313,127	\$ 78,282	\$ 78,055	\$ 226	0.29%
Debt Service Surplus/(Deficit)	\$ 1	\$ 0	\$ (30)		

Rate Center Summary

Total Revenues	\$ 1,172,768	\$ 293,192	\$ 310,809	\$ 17,617	6.01%
Total Expenses	1,172,763	293,191	312,326	(19,136)	-6.53%
Surplus/(Deficit)	\$ 5	\$ 1	\$ (1,518)		
Costs per 1000 Gallons	\$ 49.89		\$ 58.82		
Operating and DS	\$ 68.07		\$ 78.41		
Thousand Gallons Treated	17,230	4,308	3,983	(325)	-7.53%
or					
Flow (MGD)	0.047		0.043		

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Urban Wastewater Rate Center
Revenues and Expenses Summary

Budget FY 2026	Budget Year-to-Date	Actual Year-to-Date	Budget vs. Actual	Variance Percentage
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Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$ 12,610,887	\$ 3,152,722	\$ 3,187,354	\$ 34,632	1.10%
Stone Robinson WWTP	19,654	4,914	98,702	93,788	1908.79%
Septage Acceptance	620,000	155,000	145,900	(9,100)	-5.87%
Nutrient Credits	50,000	12,500	53,777	41,277	330.21%
Miscellaneous Revenue	-	-	-	-	
Interest Allocation	120,000	30,000	71,128	41,128	137.09%
Total Operating Revenues	\$ 13,420,541	\$ 3,355,135	\$ 3,556,860	\$ 201,725	6.01%

Expenses

Personnel Cost	A \$ 1,725,025	\$ 431,256	\$ 473,641	\$ (42,385)	-9.83%
Professional Services	205,000	51,250	8,912	42,338	82.61%
Other Services & Charges	2,742,631	685,658	645,004	40,654	5.93%
Communications	15,100	3,775	2,250	1,525	40.39%
Information Technology	187,600	46,900	24,307	22,593	48.17%
Supplies	2,600	650	488	162	24.85%
Operations & Maintenance	2,523,628	630,907	559,331	71,576	11.34%
Equipment Purchases	73,500	18,375	18,375	-	0.00%
Depreciation	470,000	117,500	117,500	(0)	0.00%
Subtotal Before Allocations	\$ 7,945,084	\$ 1,986,271	\$ 1,849,809	\$ 136,462	6.87%
Allocation of Support Departments	5,475,458	1,368,865	1,427,171	(58,307)	-4.26%
Total Operating Expenses	\$ 13,420,542	\$ 3,355,136	\$ 3,276,980	\$ 78,156	2.33%
Operating Surplus/(Deficit)	\$ (1)	\$ (0)	\$ 279,880		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 11,948,147	\$ 2,987,037	\$ 2,987,037	\$ 0	0.00%
Septage Receiving Support - County	109,440	27,360	109,440	82,080	300.00%
Trust Fund Interest	220,000	55,000	53,352	(1,648)	-3.00%
Reserve Fund Interest	675,000	168,750	141,511	(27,239)	-16.14%
Total Debt Service Revenues	\$ 12,952,587	\$ 3,238,147	\$ 3,291,340	\$ 53,193	1.64%

Debt Service Costs

Total Principal & Interest	\$ 11,040,988	\$ 2,760,247	\$ 2,760,247	\$ -	0.00%
Reserve Additions-Interest	675,000	168,750	141,511	27,239	16.14%
Debt Service Ratio Charge	325,000	81,250	81,250	-	0.00%
Est. New Debt Service - CIP Growth	911,600	227,900	227,900	-	0.00%
Total Debt Service Costs	\$ 12,952,588	\$ 3,238,147	\$ 3,210,908	\$ 27,239	0.84%
Debt Service Surplus/(Deficit)	\$ (1)	\$ (0)	\$ 80,432		

Rate Center Summary

Total Revenues	\$ 26,373,128	\$ 6,593,282	\$ 6,848,201	\$ 254,919	3.87%
Total Expenses	26,373,130	6,593,283	6,487,888	105,394	1.60%
Surplus/(Deficit)	\$ (2)	\$ (1)	\$ 360,312		
Costs per 1000 Gallons	\$ 3.96		\$ 3.82		
Operating and DS	\$ 7.78		\$ 7.57		
Thousand Gallons Treated or Flow (MGD)	3,390,400	847,600	857,046	9,446	1.11%
	9.289		9.316		

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Glenmore Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2026</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	\$ 673,248	\$ 168,312	\$ 168,312	\$ -	0.00%
Interest Allocation	5,500	1,375	3,204	1,829	133.01%
Total Operating Revenues	\$ 678,748	\$ 169,687	\$ 171,516	\$ 1,829	1.08%

Expenses

Personnel Cost	\$ 142,586	\$ 35,647	\$ 39,432	\$ (3,785)	-10.62%
Professional Services	10,000	2,500	231	2,269	90.74%
Other Services & Charges	45,136	11,284	12,709	(1,425)	-12.62%
Communications	20,300	5,075	5,548	(473)	-9.33%
Information Technology	53,450	13,363	12,602	760	5.69%
Supplies	-	-	-	-	
Operations & Maintenance	152,435	38,109	101,892	(63,783)	-167.37%
Equipment Purchases	3,500	875	875	(0)	0.00%
Depreciation	60,000	15,000	15,000	-	0.00%
Subtotal Before Allocations	\$ 487,407	\$ 121,852	\$ 188,289	\$ (66,438)	-54.52%
Allocation of Support Departments	191,344	47,836	50,298	(2,462)	-5.15%
Total Operating Expenses	\$ 678,752	\$ 169,688	\$ 238,588	\$ (68,900)	-40.60%
Operating Surplus/(Deficit)	\$ (4)	\$ (1)	\$ (67,072)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 144,948	\$ 36,237	\$ 36,237	\$ -	0.00%
Trust Fund Interest	500	125	133	8	6.42%
Reserve Fund Interest	-	-	-	-	
Total Debt Service Revenues	\$ 145,448	\$ 36,362	\$ 36,370	\$ 8	0.02%

Debt Service Costs

Total Principal & Interest	\$ 18,746	\$ 4,687	\$ 4,687	\$ -	0.00%
Estimated New Principal & Interest	126,700	31,675	31,675	-	0.00%
Reserve Additions-Interest	-	-	-	-	
Total Debt Service Costs	\$ 145,446	\$ 36,362	\$ 36,362	\$ -	0.00%
Debt Service Surplus/(Deficit)	\$ 2	\$ 1	\$ 9		

Rate Center Summary

Total Revenues	\$ 824,196	\$ 206,049	\$ 207,886	\$ 1,837	0.89%
Total Expenses	824,198	206,049	274,949	(68,900)	-33.44%
Surplus/(Deficit)	\$ (2)	\$ (0)	\$ (67,063)		
Costs per 1000 Gallons	\$ 16.39		\$ 19.20		
Operating and DS	\$ 19.91		\$ 22.13		
Thousand Gallons Treated or Flow (MGD)	41,401	10,350	12,427	2,077	20.06%
	0.113		0.135		

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Scottsville Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2026</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	\$ 491,328	\$ 122,832	\$ 122,832	\$ -	0.00%
Interest Allocation	4,200	1,050	2,403	1,353	128.85%
Total Operating Revenues	\$ 495,528	\$ 123,882	\$ 125,235	\$ 1,353	1.09%

Expenses

Personnel Cost	\$ 142,484	\$ 35,621	\$ 39,432	\$ (3,811)	-10.70%
Professional Services	5,000	1,250	231	1,019	81.48%
Other Services & Charges	30,936	7,734	10,477	(2,743)	-35.47%
Communications	6,050	1,513	88	1,425	94.20%
Information Technology	54,750	13,688	1,572	12,116	88.52%
Supplies	-	-	-	-	
Operations & Maintenance	53,680	13,420	25,694	(12,274)	-91.46%
Equipment Purchases	3,500	875	875	(0)	0.00%
Depreciation	20,000	5,000	5,000	(0)	0.00%
Subtotal Before Allocations	\$ 316,400	\$ 79,100	\$ 83,369	\$ (4,269)	-5.40%
Allocation of Support Departments	179,127	44,782	47,013	(2,232)	-4.98%
Total Operating Expenses	\$ 495,527	\$ 123,882	\$ 130,383	\$ (6,501)	-5.25%
Operating Surplus/(Deficit)	\$ 1	\$ 0	\$ (5,148)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 55,428	\$ 13,857	\$ 13,857	\$ -	0.00%
Trust Fund Interest	200	50	44	(6)	-11.34%
Reserve Fund Interest	4,000	1,000	974	(26)	-2.63%
Total Debt Service Revenues	\$ 59,628	\$ 14,907	\$ 14,875	\$ (32)	-0.21%

Debt Service Costs

Total Principal & Interest	\$ 6,526	\$ 1,632	\$ 1,632	\$ -	0.00%
Reserve Additions-Interest	4,000	1,000	974	26	2.63%
Estimated New Principal & Interest	49,100	12,275	12,275	-	0.00%
Total Debt Service Costs	\$ 59,626	\$ 14,907	\$ 14,880	\$ 26	0.18%
Debt Service Surplus/(Deficit)	\$ 2	\$ 1	\$ (5)		

Rate Center Summary

Total Revenues	\$ 555,156	\$ 138,789	\$ 140,110	\$ 1,321	0.95%
Total Expenses	555,153	138,788	145,263	(6,475)	-4.67%
Surplus/(Deficit)	\$ 3	\$ 1	\$ (5,153)		
Costs per 1000 Gallons	\$ 20.96		\$ 25.95		
Operating and DS	\$ 23.48		\$ 28.91		
Thousand Gallons Treated	23,643	5,911	5,025	(886)	-14.99%
or					
Flow (MGD)	0.065		0.055		

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Administration and Communication

<i>Budget FY 2026</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

Payment for Services SWA	\$	417,000	\$	104,250	\$	104,381	\$	131	0.13%
Miscellaneous Revenue		-		-		376		376	
Total Operating Revenues	\$	417,000	\$	104,250	\$	104,758	\$	508	0.49%

Expenses

Personnel Cost	A	\$	1,657,525	\$	414,381	\$	462,407	\$	(48,026)	-11.59%
Professional Services	C		103,950		25,988		51,971		(25,984)	-99.99%
Other Services & Charges	D		162,450		40,613		54,553		(13,941)	-34.33%
Communications			9,200		2,300		1,093		1,207	52.48%
Information Technology	E		5,700		1,425		11,287		(9,862)	-692.10%
Supplies			19,600		4,900		3,683		1,217	24.83%
Operations & Maintenance			66,050		16,513		12,485		4,027	24.39%
Equipment Purchases			9,000		2,250		2,250		-	0.00%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	2,033,475	\$	508,369	\$	599,731	\$	(91,362)	-17.97%

Department Summary

Net Costs Allocable to Rate Centers	\$	(1,616,475)	\$	(404,119)	\$	(494,973)	\$	90,854	-22.48%
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Allocations to the Rate Centers

Urban Water	44.00%	\$	711,249	\$	177,812	\$	217,788	\$	(39,976)
Crozet Water	4.00%	\$	64,659		16,165		19,799		(3,634)
Scottsville Water	2.00%	\$	32,330		8,082		9,899		(1,817)
Urban Wastewater	48.00%	\$	775,908		193,977		237,587		(43,610)
Glenmore Wastewater	1.00%	\$	16,165		4,041		4,950		(909)
Scottsville Wastewater	1.00%	\$	16,165		4,041		4,950		(909)
	100.00%	\$	1,616,475	\$	404,119	\$	494,973	\$	(90,854)

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Finance and Information Technology

<i>Budget FY 2026</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	\$	581,000	\$	145,250	\$	145,250	\$	0	0.00%
Bond Proceeds Funding Bond Issuance Costs		-		-		-		-	
Miscellaneous Revenue		-		-		6,817		6,817	
Total Operating Revenues	\$	581,000	\$	145,250	\$	152,067	\$	6,817	4.69%

Expenses

Personnel Cost	A	\$	2,411,906	\$	602,977	\$	639,260	\$	(36,283)	-6.02%
Professional Services			47,000		11,750		1,275		10,475	89.15%
Other Services & Charges			55,200		13,800		9,683		4,117	29.83%
Communication			73,900		18,475		24,505		(6,030)	-32.64%
Information Technology			1,550,650		387,663		313,849		73,814	19.04%
Supplies			14,000		3,500		3,045		455	12.99%
Operations & Maintenance			5,000		1,250		1,825		(575)	-45.96%
Equipment Purchases			7,500		1,875		1,875		-	0.00%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	4,165,156	\$	1,041,289	\$	995,317	\$	45,973	4.41%

Department Summary

Net Costs Allocable to Rate Centers **\$ (3,584,156)** **\$ (896,039)** **\$ (843,249)** **\$ (52,790)** **5.89%**

Allocations to the Rate Centers

Urban Water	44.00%	\$	1,577,029	\$	394,257	\$	371,030	\$	23,227
Crozet Water	4.00%	\$	143,366		35,842		33,730		2,112
Scottsville Water	2.00%	\$	71,683		17,921		16,865		1,056
Urban Wastewater	48.00%	\$	1,720,395		430,099		404,760		25,339
Glenmore Wastewater	1.00%	\$	35,842		8,960		8,432		528
Scottsville Wastewater	1.00%	\$	35,842		8,960		8,432		528
	100.00%	\$	3,584,156	\$	896,039	\$	843,249	\$	52,790

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Maintenance

<i>Budget FY 2026</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		-		-		1,206		1,206
Total Operating Revenues	\$	-	\$	-	\$	1,206	\$	1,206

Expenses

Personnel Cost	A,B	\$	1,836,099	\$	459,025	\$	507,084	\$	(48,059)	-10.47%
Professional Services			10,000		2,500		150		2,350	94.00%
Other Services & Charges			40,350		10,088		7,346		2,741	27.17%
Communications			20,000		5,000		4,128		872	17.44%
Information Technology			7,500		1,875		2,137		(262)	-14.00%
Supplies			3,500		875		-		875	100.00%
Operations & Maintenance	F		130,300		32,575		49,378		(16,803)	-51.58%
Equipment Purchases			395,750		98,938		87,920		11,018	11.14%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	2,443,499	\$	610,875	\$	658,144	\$	(47,269)	-7.74%

Department Summary

Net Costs Allocable to Rate Centers		\$	(2,443,499)	\$	(610,875)	\$	(656,938)	\$	48,476	-7.94%
<u>Allocations to the Rate Centers</u>										
Urban Water	30.00%	\$	733,050	\$	183,262	\$	197,081	\$	(13,819)	
Crozet Water	3.50%		85,522		21,381		22,993		(1,612)	
Scottsville Water	3.50%		85,522		21,381		22,993		(1,612)	
Urban Wastewater	56.50%		1,380,577		345,144		371,170		(26,025)	
Glenmore Wastewater	3.50%		85,522		21,381		22,993		(1,612)	
Scottsville Wastewater	3.00%		73,305		18,326		19,708		(1,382)	
	100.00%	\$	2,443,499	\$	610,875	\$	656,938	\$	(46,063)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Laboratory

<i>Budget FY 2026</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	\$ 503,003	\$ 125,751	\$ 131,948	\$ (6,197)	-4.93%
Professional Services	-	-	-	-	
Other Services & Charges	9,800	2,450	2,789	(339)	-13.82%
Communications	800	200	4,264	(4,064)	-2031.78%
Information Technology	-	-	-	-	
Supplies	2,300	575	41	534	92.88%
Operations & Maintenance	146,357	36,589	34,602	1,987	5.43%
Equipment Purchases	3,900	975	1,203	(228)	-23.34%
Depreciation	-	-	-	-	
Total Operating Expenses	\$ 666,160	\$ 166,540	\$ 174,846	\$ (8,306)	-4.99%

Department Summary

Net Costs Allocable to Rate Centers		\$ (666,160)	\$ (166,540)	\$ (174,846)	\$ 8,306	-4.99%
<u>Allocations to the Rate Centers</u>						
Urban Water	44.00%	\$ 293,110	\$ 73,278	\$ 76,932	\$ (3,655)	
Crozet Water	4.00%	26,646	6,662	6,994	(332)	
Scottsville Water	2.00%	13,323	3,331	3,497	(166)	
Urban Wastewater	47.00%	313,095	78,274	82,178	(3,904)	
Glenmore Wastewater	1.50%	9,992	2,498	2,623	(125)	
Scottsville Wastewater	1.50%	9,992	2,498	2,623	(125)	
	100.00%	\$ 666,160	\$ 166,540	\$ 174,846	\$ (8,306)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - September 2025

Engineering

<i>Budget FY 2026</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	\$	-	\$	-	\$	4,232	\$	4,232
<i>Total Operating Revenues</i>	\$	-	\$	-	\$	4,232	\$	4,232

Expenses

Personnel Cost	\$	2,407,282	\$	601,820	\$	602,495	\$	(674)	-0.11%
Professional Services		142,000		35,500		29,922		5,578	15.71%
Other Services & Charges		26,875		6,719		5,933		786	11.70%
Communications		20,628		5,157		2,794		2,363	45.83%
Information Technology	E	220,230		55,058		83,103		(28,046)	-50.94%
Supplies		6,700		1,675		2,743		(1,068)	-63.75%
Operations & Maintenance		76,338		19,085		25,225		(6,140)	-32.17%
Equipment Purchases		21,500		5,375		5,375		0	0.00%
Depreciation		-		-		-		-	
<i>Total Operating Expenses</i>		\$ 2,921,553		\$ 730,388		\$ 757,589		\$ (27,201)	-3.72%

Department Summary

Net Costs Allocable to Rate Centers		\$ (2,921,553)	\$ (730,388)	\$ (753,357)	\$ 31,433	-4.30%
<u>Allocations to the Rate Centers</u>						
Urban Water	47.00%	\$ 1,373,130	\$ 343,282	\$ 354,078	\$ (10,795)	
Crozet Water	4.00%	116,862	29,216	30,134	(919)	
Scottsville Water	2.00%	58,431	14,608	15,067	(459)	
Urban Wastewater	44.00%	1,285,483	321,371	331,477	(10,106)	
Glenmore Wastewater	1.50%	43,823	10,956	11,300	(345)	
Scottsville Wastewater	1.50%	43,823	10,956	11,300	(345)	
	100.00%	\$ 2,921,553	\$ 730,388	\$ 753,357	\$ (22,969)	

MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: JEFF SOUTHWORTH, MANAGER OF INFORMATION TECHNOLOGY

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

SUBJECT: INFORMATION TECHNOLOGY REPORT

DATE: NOVEMBER 18, 2025

INFRASTRUCTURE – CORE SYSTEMS

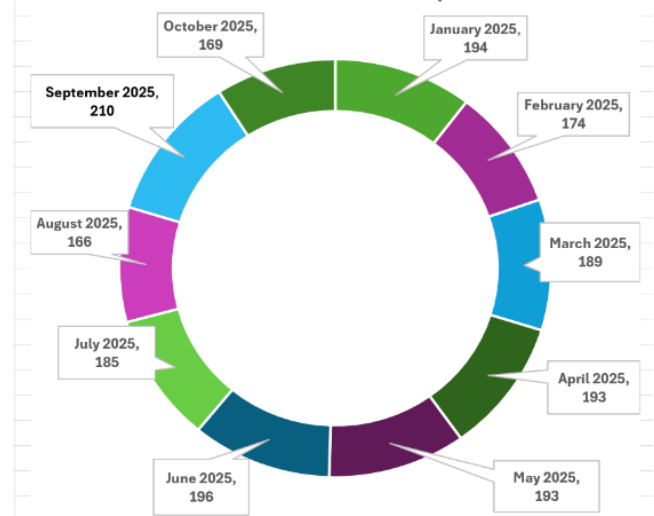
Background: Includes network operations, system administration, software and hardware deployment, and security management.

Last month the team:

- Resolved **169** Service Desk Tickets
- Deployed **2** replacement desktops

(Total of **209** Devices upgraded to Windows 11)

Service Desk Ticket Comparison



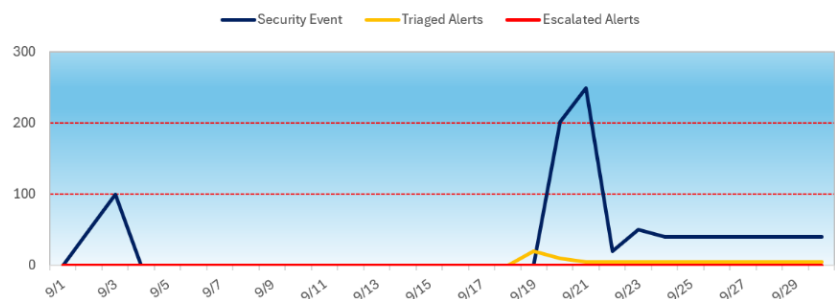
DIGITAL & PHYSICAL SECURITY

Background: Network Firewall Security **28** Devices

Last month there were:

- 309.2M** Security logs Analyzed for suspicious network traffic
- 716** Threat Detections – All blocked
- 5** Categorized Security Alerts resolved

THREAT DETECTION TREND



SCADA / OPERATIONAL SYSTEMS

(SUPERVISORY CONTROLS AND DATA ACQUISITION)

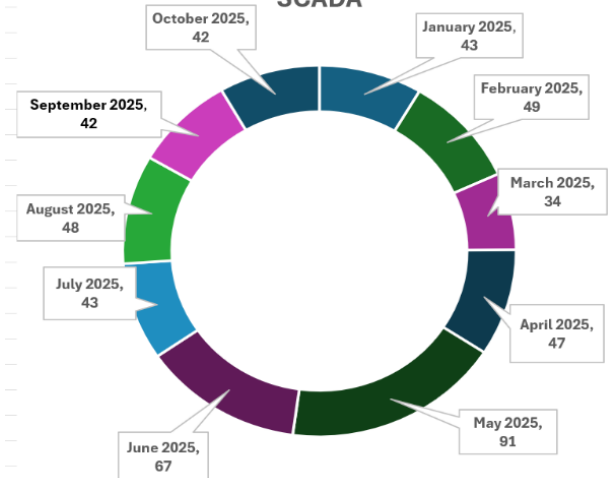
Background: Oversight includes PLCs, operational data collection and software applications for water and wastewater operations.

Last month the team:

- Completed **42** SCADA service desk requests

Service Desk Ticket Comparison

SCADA



GIS (GEOGRAPHICAL INFORMATION SYSTEMS)

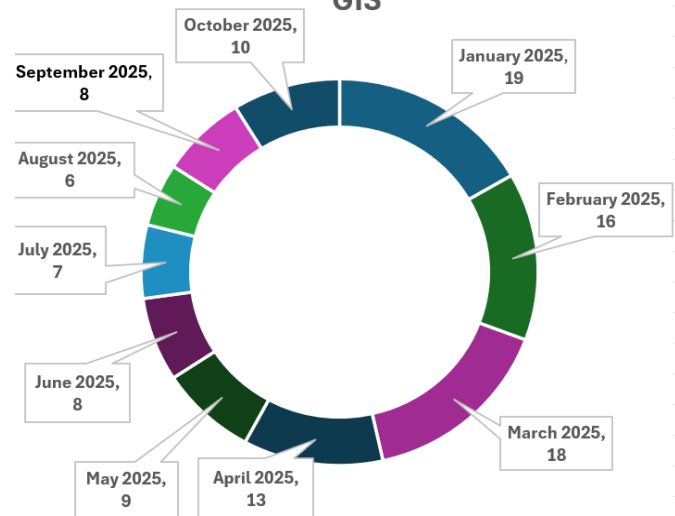
Background: Strategic data system that collects, processes, manages, and displays spatial data that supports engineering and maintenance workflows. Our system is managed by the RWSA GIS Coordinator.

Last month the GIS Coordinator:

- Digitalized **15** features (points, lines, polygons)
- Completed **78** Daily Inspection reports (for CIPs)
- Processed **30** MISS Utility reports
- Processed **37** Water inspections (GIS attributes adjusted)
- Processed **44** SS Inspections (GIS attributes adjusted)
- Completed **3** External data requests
- Applied **12** ArcPro updates
- Completed **5** Drone site visits for pictures of CIPs

Service Desk Ticket Comparison

GIS



IT Department's Large Project Participation

Infrastructure

In progress: MC Administration Building renovations – we have successfully migrated our administrative servers to the Private Cloud (Iron Mountain). We have updated our network configuration at Moores Creek to accommodate the temporary server room to house our network equipment and to ensure reliable and secure connectivity to the temporary Admin and IT trailers.

SCADA System

In progress: Continuing our support for the capital improvement projects throughout the authorities including replacement of the main PLC at the SRWTP, Red Hill WTP renovations, Crozet Pump FET remediation. We are working on our ICS-CxA Commissioning contract specifications for our vendors.

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 OCTOBER 2025

DATE: NOVEMBER 18, 2025

WATER OPERATIONS:

The average and maximum daily water volumes produced in October 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	8.81	9.88 (10/23/2025)
Observatory	1.20	2.11 (10/6/2025)
North Rivanna	<u>0.13</u>	<u>0.32 (10/21/2025)</u>
<i>Urban Total</i>	10.14	12.01 (10/6/2025)
Crozet	0.71	0.99 (10/22/2025)
Scottsville	0.06	0.09 (10/15/2025)
Red Hill	<u>0.002</u>	0.003 (10/16/2025)
<i>RWSA Total</i>	10.91	-

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

Status of Reservoirs (as of November 11, 2025):

- Urban Reservoirs are 94% of Total Useable Capacity
 - South Rivanna Reservoir is 100% full
 - Ragged Mountain Reservoir is 90% full
- Sugar Hollow Reservoir is 96% full
- 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 October 2025. Performance of the WRRFs in October 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	8.42	<QL	9	<QL	22	<QL	2.2
Glenmore	0.133	<QL	15	3.6	30	NR	NL
Scottsville	0.041	<QL	25	3.5	30	NR	NL
Stone Robinson	0.0003	NR	30	NR	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 October 2025.

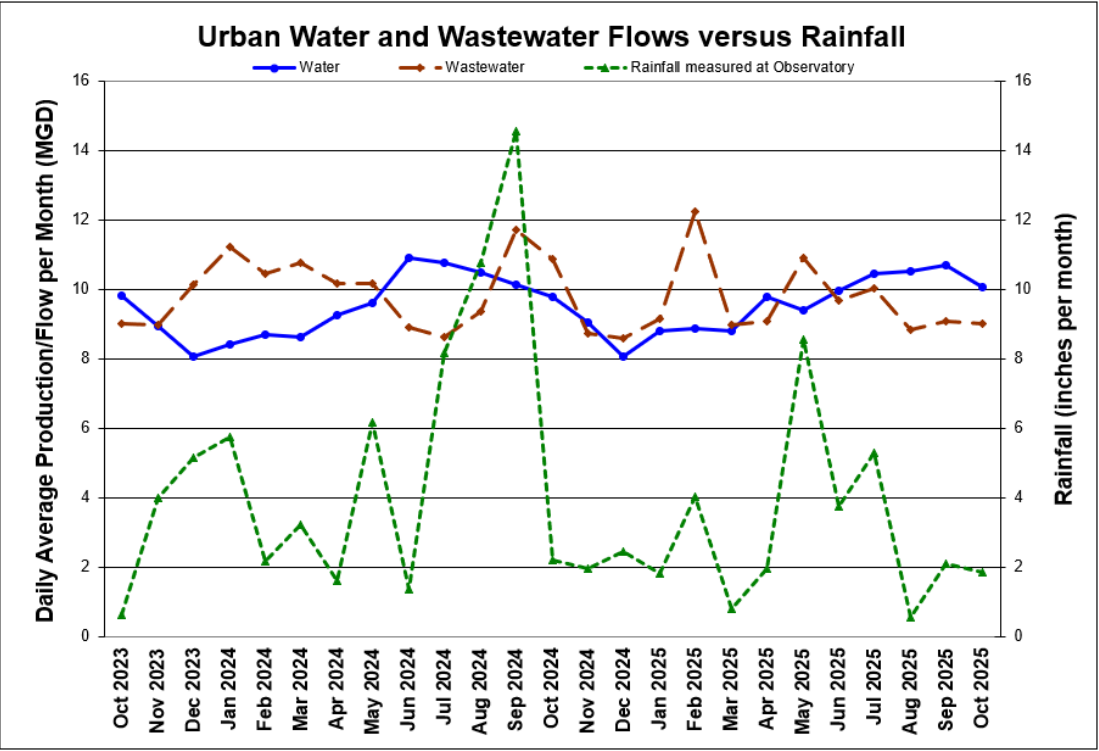
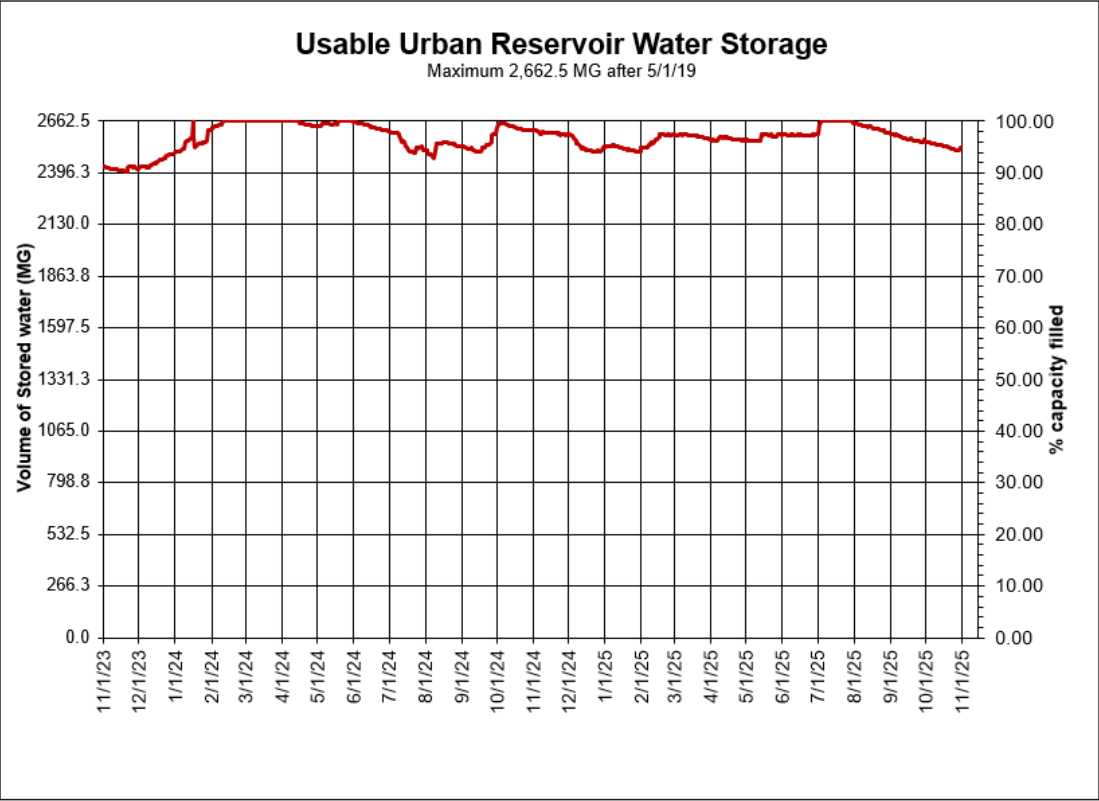
<i>State Annual Allocation (lb./yr.) Permit</i>		<i>Average Monthly Allocation (lb./mo.) *</i>	<i>Moore's Creek Discharge October (lb./mo.)</i>	<i>Performance as % of monthly average Allocation *</i>	<i>Year to Date Performance as % of annual allocation</i>
Nitrogen	282,994	23,583	5,197	22%	30%
Phosphorous	18,525	1,636	363	22%	14%

*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



TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: BETHANY HOUCHENS, WATER RESOURCES COORDINATOR

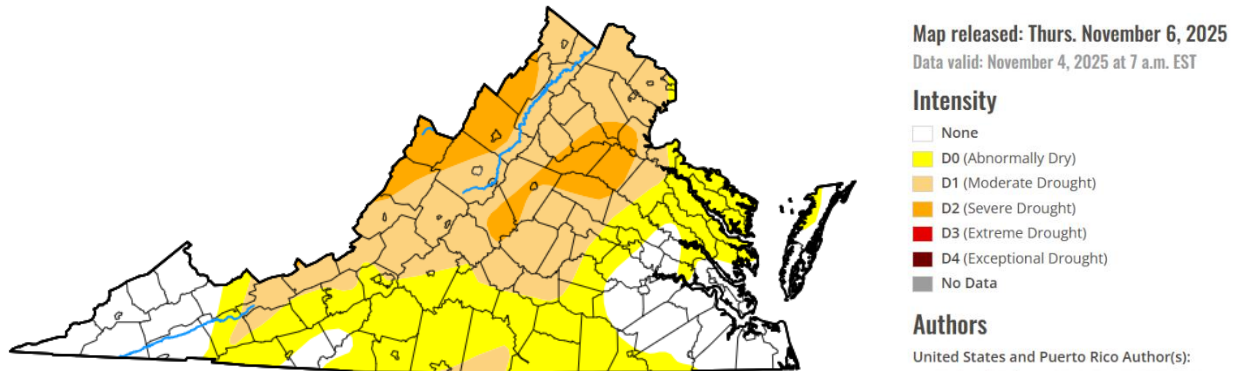
REVIEWED: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: DROUGHT MONITORING REPORT

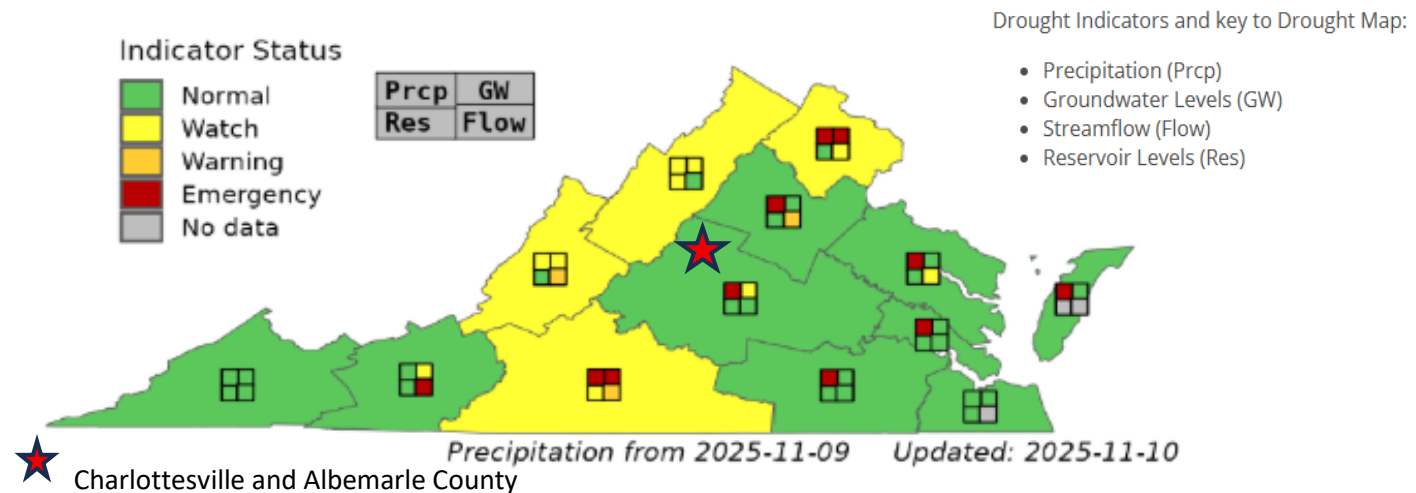
DATE: NOVEMBER 18, 2025

State and Federal Drought Monitoring as of November 10, 2025:

- U.S. Drought Monitoring Report: Indicates the City of Charlottesville and Albemarle County are in moderate to severe drought conditions.



- VDEQ Drought Status Report: Our region is listed as being in a “Normal” level for streamflow and reservoir levels. Groundwater is in a “Watch” status. Precipitation is in an “Emergency” status.



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-Oct	30.41	35.21	-4.8	-14.6

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

USGS Stream Gaging Station Near the Urban Area (Oct 29-Nov 4)				
Gage Name	Rolling 7-day Avg. Stream Flow		2024	
			Mean Streamflow	
	cfs	mgd	cfs	mgd
Mechums River	45.4	29.3	52.8	34.1
Moormans River	17.1	11.1	18.4	11.9
NF Rivanna River	37	23.9	43.9	28.4
SF Rivanna River	100	64.6	95.9	62

Mean streamflow for Oct 29th -Nov 4th 2024

Status of Reservoirs as of Nov 11, 2025

- Urban Reservoirs are 94% 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, 1979, 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 WHITAKER, DIRECTOR OF ENGINEERING & MAINTENANCE

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

SUBJECT: WHOLESALE METERING REPORT FOR OCTOBER 2025

DATE: NOVEMBER 18, 2025

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

		<i>Month</i>	<i>Daily Average</i>	
City Usage (gal)		149,680,064	4,828,389	48.0%
ACSA Usage (gal)		161,860,153	5,221,295	52.0%
Total (gal)		311,540,217	10,049,684	

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 Utility dating back to the beginning of FY 22, the trailing twelve-month average (extended back to November 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.

Note 1: Meter 11 was offline for a period of 5 days in October. The endpoint died and maintenance replaced it shortly thereafter. As a result of this gap, RWSA used a 3-month average to fill in the data for this meter for the month of October to alleviate this period of inconsistency.

Figure 1: City of Charlottesville Monthly Water Usage and Allocation

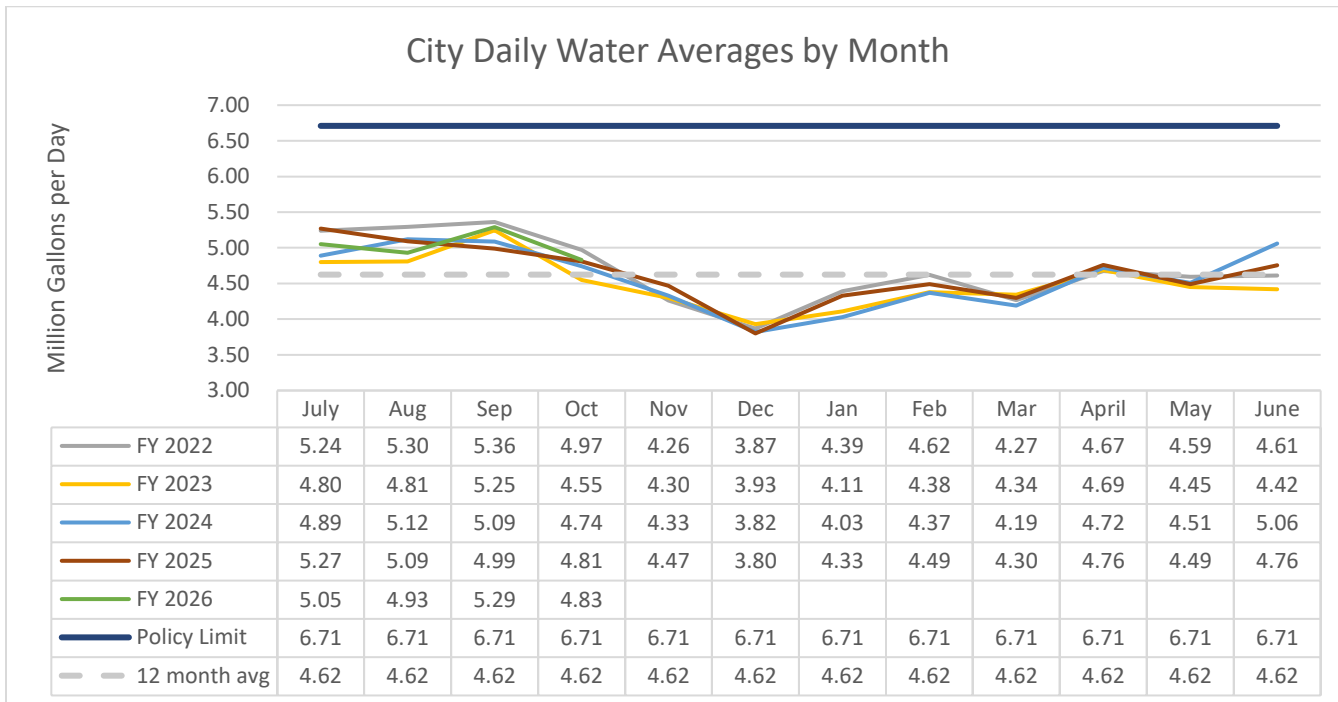
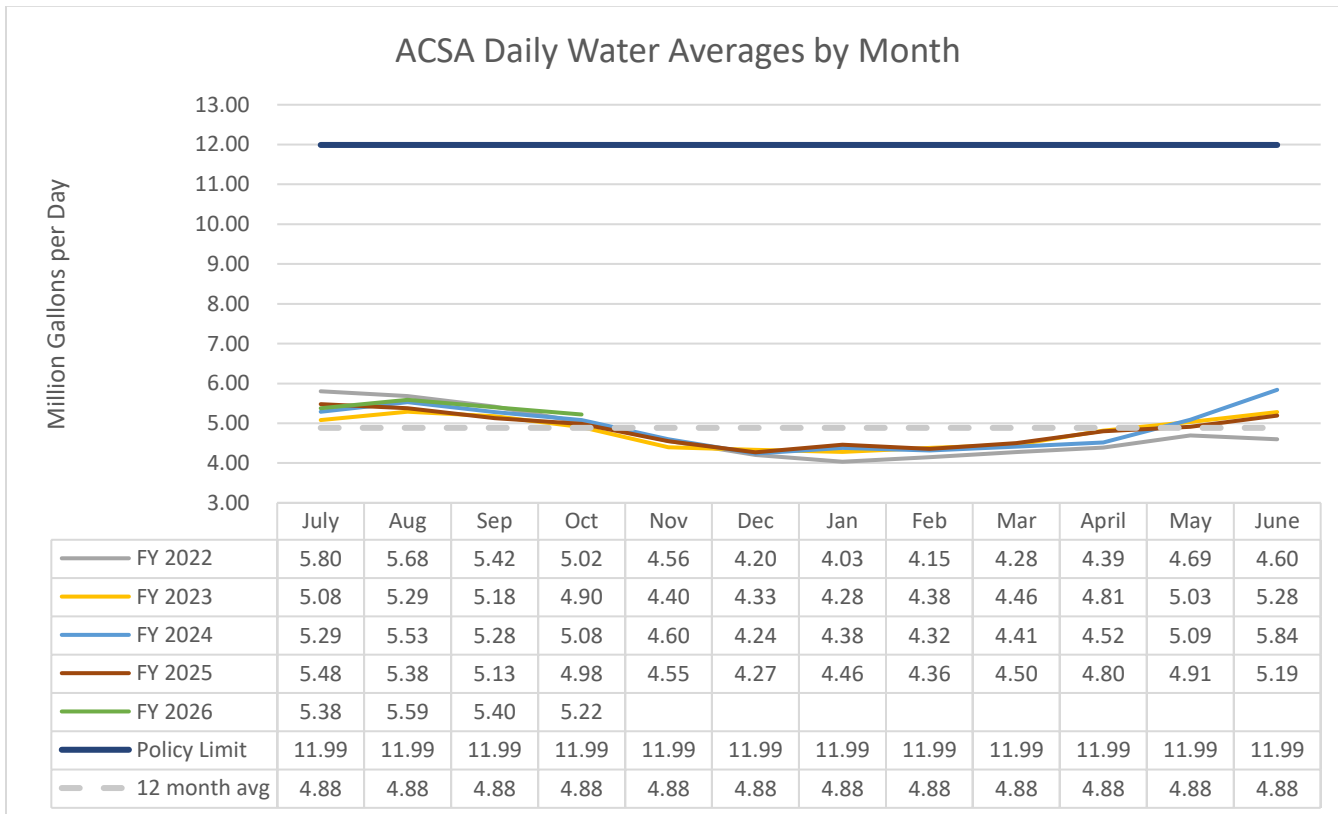


Figure 2: Albemarle County Service Authority Monthly Water Usage and Allocation





Board Meeting Schedule

Listed below are the proposed RWSA Board of Directors meeting dates for calendar year 2026:

Tuesday, January 27, 2026

Tuesday, February 24, 2026

Tuesday, March 24, 2026

Tuesday, April 28, 2026

Tuesday, May 26, 2026

Tuesday, June 23, 2026

Tuesday, July 28, 2026

Tuesday, August 25, 2026

Tuesday, September 22, 2026

Tuesday, October 27, 2026

Tuesday, November 17, 2026 *

Tuesday, December 15, 2026 *

* The November and December meetings are advanced to avoid conflicts with the weeks of Thanksgiving and Christmas.

RWSA meetings will start following the RSWA Board Meetings but not earlier than 2:15 p.m. RWSA meetings will be held in the conference room on the lower level of the Albemarle County Service Authority, 168 Spotnap Road, Charlottesville, VA.

Written comments received from the public before the meeting will be presented by staff at the meeting. The public may view and comment virtually during the meeting via Zoom; a link will be posted on our website prior to each meeting. Video recordings of the meetings will be posted to our website.



695 Moores Creek Lane | Charlottesville, Virginia 22902-9016

434.977.2970
434.293.8858
www.rivanna.org

MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY BOARD OF DIRECTORS

FROM: LEAH BEARD, HR MANAGER

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: APPROVAL OF THE RIVANNA WATER & SEWER AUTHORITY HOLIDAY SCHEDULE FOR CALENDAR YEAR 2026

DATE: NOVEMBER 18, 2025

This memo is to propose a schedule for 13.5 paid holidays to be observed during calendar year 2025, as indicated by the attachment.

This schedule has been determined in accordance with our Personnel Management Plan Holiday Leave Policy. In addition to the 12.5 observed holidays listed in our Personnel Management Plan, this schedule includes Friday, January 2, 2026, since the office will be closed on Thursday, January 1st.

Board Action Requested

Approval of the attached Holiday Schedule for Calendar Year 2026.

Attachment

2026 HOLIDAY SCHEDULE

13.5 days

NEW YEAR'S DAY:

New Year's Day - Thursday, January 1, 2026,
& Day After New Year's Day - Friday, January 2, 2026

MARTIN LUTHER KING, JR DAY (Floating)

Monday, January 19, 2026

PRESIDENT'S DAY (Floating)

Monday, February 16, 2026

MEMORIAL DAY

Monday, May 25, 2026

JUNETEENTH (Floating)

Friday, June 19, 2026

INDEPENDENCE DAY

Friday, July 3, 2026

LABOR DAY

Monday, September 7, 2026

VETERAN'S DAY (Floating)

Wednesday, November 11, 2026

THANKSGIVING:

1/2 Day Before – Wednesday, November 25, 2026
Thanksgiving Day – Thursday, November 26, 2026
Day After Thanksgiving – Friday, November 27, 2026

CHRISTMAS:

Christmas Eve – Thursday, December 24, 2026
Christmas Day – Friday, December 25, 2026

The office is open on Floating Holidays.



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 TO AMEND FY 26-30 CAPITAL IMPROVEMENT
PLAN AND INCREASE CONSTRUCTION FUNDS – SOUTH
FORK RIVANNA RIVER 24” WATER MAIN CROSSING

DATE: NOVEMBER 18, 2025

This request is to amend and increase the FY 26 – 30 Capital Improvement Plan budget for this project by \$300,000 to a revised total of \$6.55 M and increase the construction contingency from 10% to 16% (from \$491,694 to \$791,694) due to Change Orders required to address unforeseen erosion control and subsurface conditions including an increase in the quantity of rock to be removed in the trench section on Old Rio Mills Road.

Background

On September 24, 2024, the Board of Directors approved award of a Construction Contract to Faulconer Construction Company for the South Fork Rivanna River Crossing 24” Water Main Project in the amount of \$4,916,940 including any change orders not to exceed 10% of this original contract amount. Since the project began, several Change Orders have been issued to account for unforeseen conditions which ultimately necessitated modification of the originally approved 10% contingency value to this recommended 16%.

Significant impacts to the construction budget are primarily due to unforeseen subsurface conditions which involve removal of approximately 4.5 times the trench rock anticipated during design, a challenging horizontal directional drilling (HDD) operation in rock, and extraneous water continuously flooding the HDD site due to interception of natural springs during drilling. Several additional 24” pipe fittings have been added to the project as well. The on-going HDD site flooding resulted in the erosion and sediment control measures being overwhelmed, a stop work order from the County, and VADEQ mandating the need for stricter erosion and sediment control measures which now includes an impermeable barrier around the drill site and then pumping and hauling all surplus ground water off site to keep bentonite laden water from leaving the site. Pumping all surplus water into a temporary holding tank and then hauling off site has averaged approximately \$25K-\$30K per week and this process will be on going until the drilling operations are complete which is an estimated 4-7 more weeks. The current CIP budget for this project is

\$6,250,000. Incorporating the additional costs represents an increase to the CIP Budget of \$300,000 and a total revised project budget of \$6.55 M.

Board Action Requested:

1. Amend the FY 2026 Capital Improvement Plan to increase the project budget by \$300,000 to a revised total project budget of \$6.55 M.
2. Authorize the Executive Director to execute construction contract Change Orders up to 16% of the original contract value.

MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: VALUE ENGINEERING FOR CIP PROJECTS

DATE: NOVEMBER 18, 2025

This request is to increase the formal value engineering requirement for CIP projects from \$5 M to \$10 M. This change will expedite completion and reduce consultant costs on smaller projects with an estimated cost of less than \$10 M. Market and inflationary project cost increases have been significant since the Board adopted this policy in 2014. An informal value engineering review will continue to be a standard requirement of the design process for projects less than \$10 M.

What is Value Engineering?

Value Engineering is a systematic process of review and analysis of a capital project to ensure that the project goals are met at the lowest reasonable cost. VE is an advanced form of quality and cost control typically performed by a team of independent reviewers who are each highly knowledgeable in at least one of the professional disciplines that entails a significant component of the project.

Quality and cost control are important parts of every capital project implemented by the Authority in three ways. First, all design services awarded by the Authority require engineering firms to engage internal quality and cost control as a part of design. Second, the Authority actively engages budget and cost control through staff's project management. Third, engineering staff and other department managers engage in review of project design within the limits of our staff's expertise. Separately contracted VE is more specialized; when the value or importance of a project merits a review that is both independent of the design firm and requires expertise for which the Authority must contract. VE also adds project costs; therefore, it should only be employed when the judgment of the likelihood of cost savings or other benefits "outweighs" the added costs.

Formal VE can be conducted at one or more stages of a project, as needed. The VE teams are assembled to meet the unique needs of individual projects, and as such may consist of a variety of individuals with expertise in key fields. As an example, the GAC project Value Engineering team consisted of members with expertise in water treatment, site design, mechanical engineering, electrical engineering, and structural design. The VE team typically will convene and conduct a series of review workshops, design discussions, and brainstorming sessions. The outcome of these efforts are then summarized and reviewed with the project design engineer. Not all ideas generated

by the value engineering team will be feasible, viable, or implemented; however, the goal of the process is to improve the overall project efficiency by implementing the best ideas.

Existing Board Policy

Our existing policy was adopted by the Board in January 2014. The policy established a practice of obtaining independent VE services for projects with a budget greater than \$5 M. The policy also authorized latitude for the Executive Director to utilize a VE process based on the potential for cost savings and other benefits.

Board Action Requested

Authorize an increase from \$5 M to \$10 M for a formal Value Engineering review of our CIP projects.

Enhanced Employee Safety with “OK Alone” System

PRESENTED BY:

DANIEL CAMPBELL, DIRECTOR OF OPERATIONS
AND ENVIRONMENTAL SERVICES

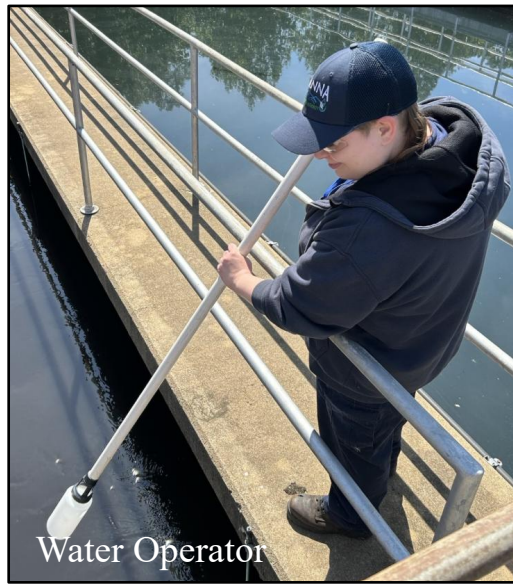
BOARD OF DIRECTORS MEETING

NOVEMBER 18, 2025



Employee safety

- There are locations and tasks where Water and Sewer employees are required to work alone:
 - Maintenance
 - Water Operators
 - Wastewater Operators
 - Engineering Inspectors



Employee safety

Safety Check Log											
Date		Friday, November 7, 2025									
Key											
ON	Facility sign on										
OFF	Facility sign off										
A	Safety check cleared										
B	Safety issue. Note actions taken at bottom.										
C	Facility has 2+ personnel. Safety checks no longer required.										
D	Facility has reduced personnel. Safety checks required.										
Time		Person Responsible for Handling Safety Checks									
0000-0600		Buyaki/Lyon									
0600-0800		Deakin / Andriunas									
0800-1400		R-Base									
1400-1630		R-Base (Kem)									
1630-1800		Deakin / Andriunas									
1800-2400		Foster/Eveleth									
Time	Water				Wastewater			Solid Waste			Lab
	Crozet WTP	N. Riv. WTP	Scottsville WTP	Red Hill WTP	Glenmore WWTP	Scottsville WWTP	Stone Rob. WWTP	Midtline Recycling	Meade Papersort	Southern Albemarle	Moore's Creek
5:30 AM											
5:45 AM									ON		
6:00 AM	ON										
6:15 AM											
6:30 AM											
6:45 AM	A								A		
7:00 AM		ON									
7:15 AM											
7:30 AM				ON				ON			
7:45 AM											
8:00 AM											
8:15 AM				OFF							
8:30 AM											
8:45 AM	A	A	ON		ON	ON		A	A	ON	
9:00 AM											
9:15 AM											
9:30 AM											
9:45 AM											
10:00 AM											
10:15 AM											
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10:45 AM	A	A	A		A	A		A	A	A	
11:00 AM		OFF									
11:15 AM											
11:30 AM											
11:45 AM											
Noon											
12:15 PM											
12:30 PM											
12:45 PM	A		A		A	A		A	A	A	
1:00 PM											
1:15 PM											
1:30 PM											
1:45 PM									OFF		
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2:45 PM	A		A		A	A		A		A	
3:00 PM						OFF					
3:15 PM											
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4:00 PM											
4:15 PM			OFF								
4:30 PM											
4:45 PM	A							A		A	
5:00 PM											
5:15 PM											
5:30 PM										OFF	
5:45 PM								OFF			
6:00 PM	OFF										
6:15 PM											

- Current “safety check” system uses a two-way radio when employees work alone
 - Every 2 hours Admin Assistant at Moores Creek radios employees to confirm they are safe.
 - If there is no answer, Admin Assistant initiates a series of repeat radio checks and phone calls. This could delay getting needed services in the event of an emergency.
 - This process is in place 24 hours a day 7 days a week. Water Operations staff does the safety checks when Moores Creek Admin office is not staffed.



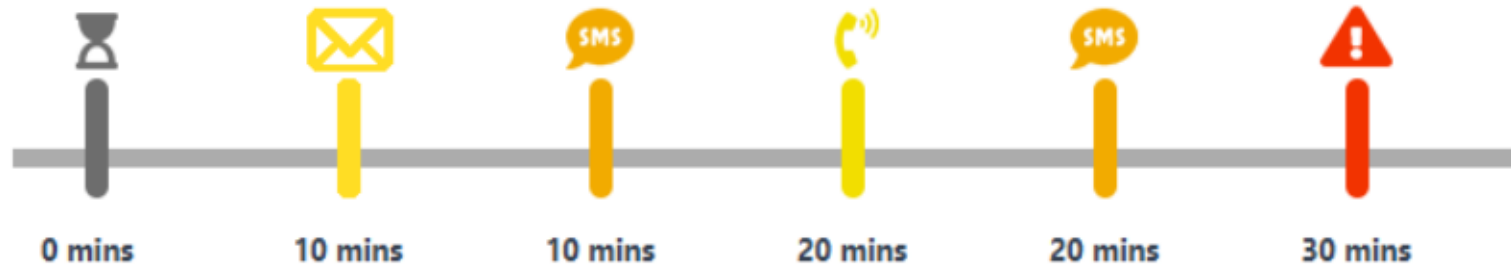
RWSA evaluated several options for employee safety notification.

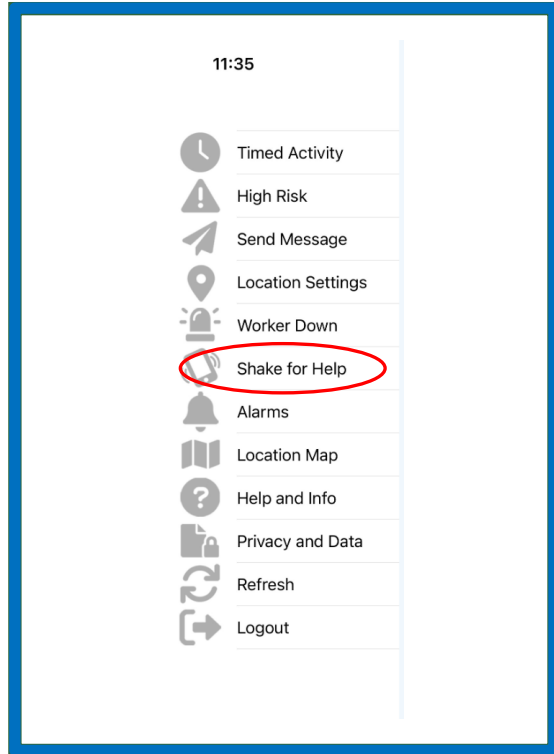
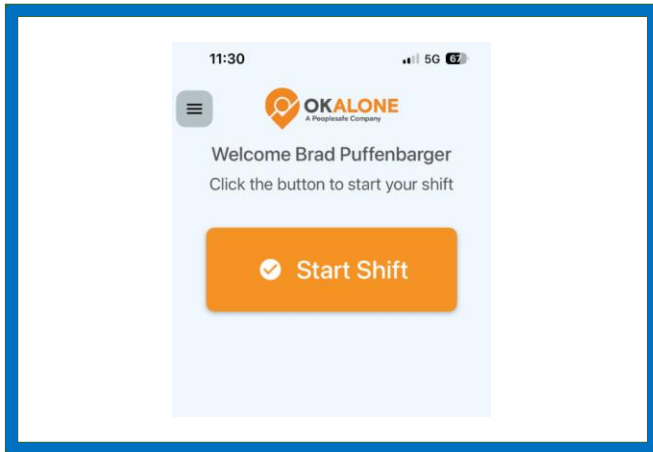
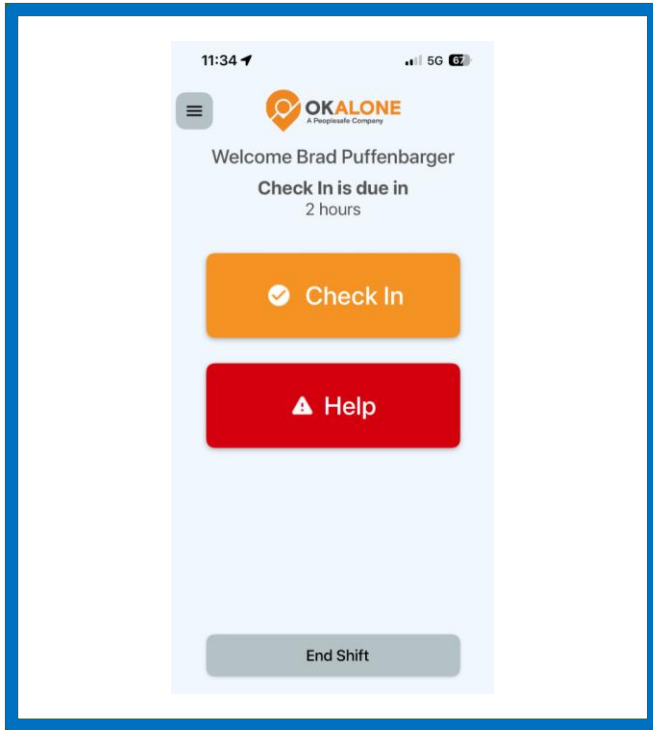
OKALONE was selected because it uses cell phones, does not require additional hardware, was fully customizable and included a 3rd party option for additional employee monitoring.

OKALONE will follow the steps below if a safety check is missed.

Missed Check In Process ⓘ

Here are the steps taken when a worker misses a check in, a high risk alert or has a worker down alert. A help alert has zero grace period.





OKALONE was installed on more than 100 Rivanna Authority smart phones

Benefits of OKALONE app

41191298 Crozet Operator

Edit

Check In due in 48mins at 10 Nov 2025 2.41pm

✓ Check In

✕ End Shift

🚑 Man Down Ok

📍 View Shift

Phone +14349816665

Email crozet@rivanna.org

Monitors Crozet Operator Brad
Puffenbarger Keith
Covington Cary Wingo Thomas
Barger

Groups Water - Crozet

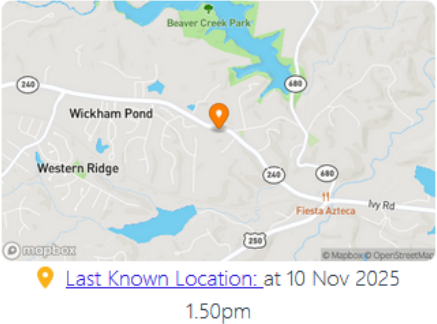
Check In 2 hours

Man/Worker On (30 mins)
Down

Last Movement 10 Nov 2025 1.53pm

Device Android

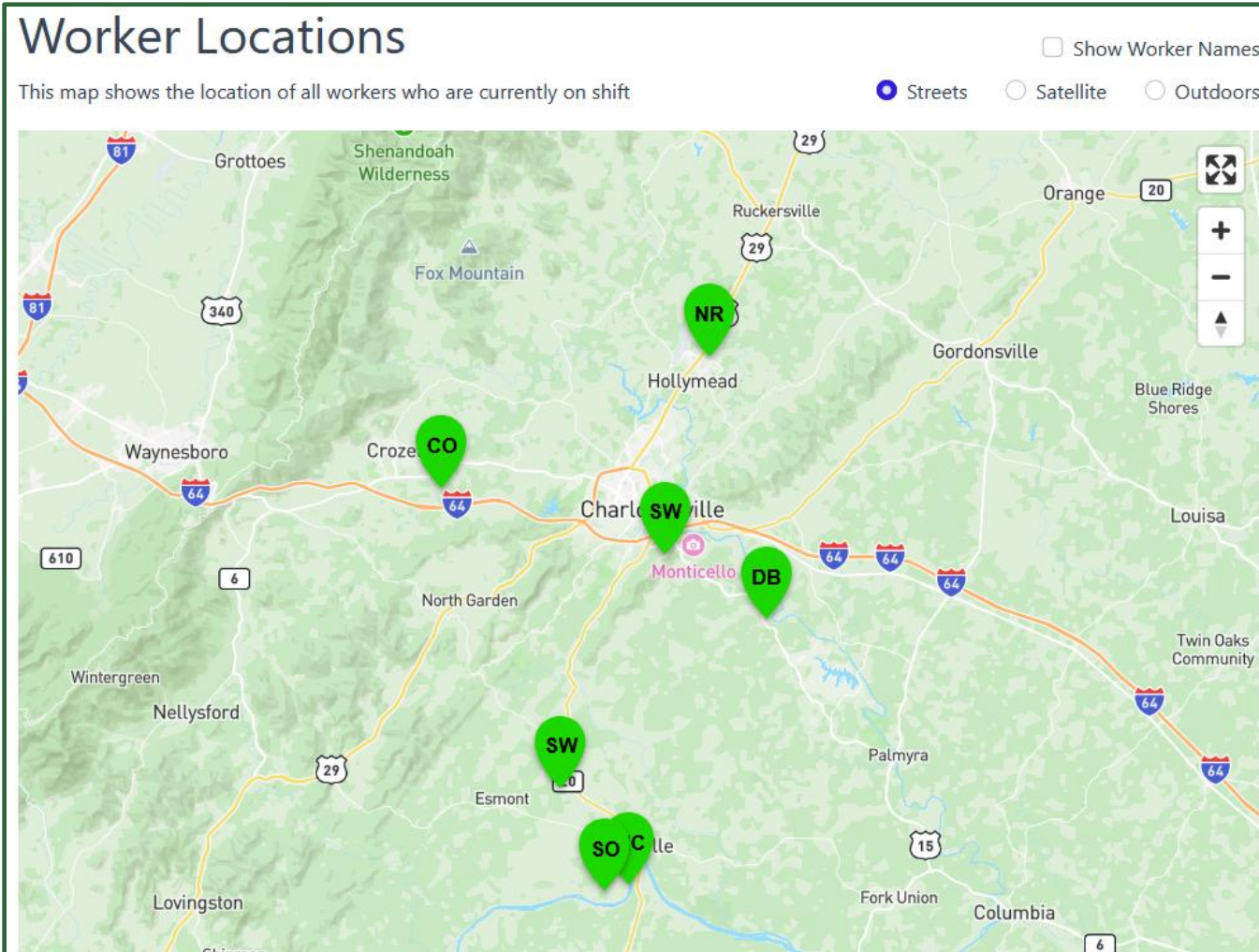
Connectivity Connected Good
89%



📘 OK Alone Info for Crozet Operator

- Employee can initiate an emergency
- Employee location is included
- Supervisors and Managers are notified immediately if there is a problem
- More employees can use it

Benefits of OKALONE software



- Current radio check system requires about 140 minutes of work each day from staff.
- Staff savings of approximately 16 hours/week or \$480/week = \$25k/year.
- Staff performing radio checks can be reassigned more job appropriate tasks.
- OKALONE costs \$112/employee per month or \$11k/year.
- Optimization savings = \$14k/year.

Questions?



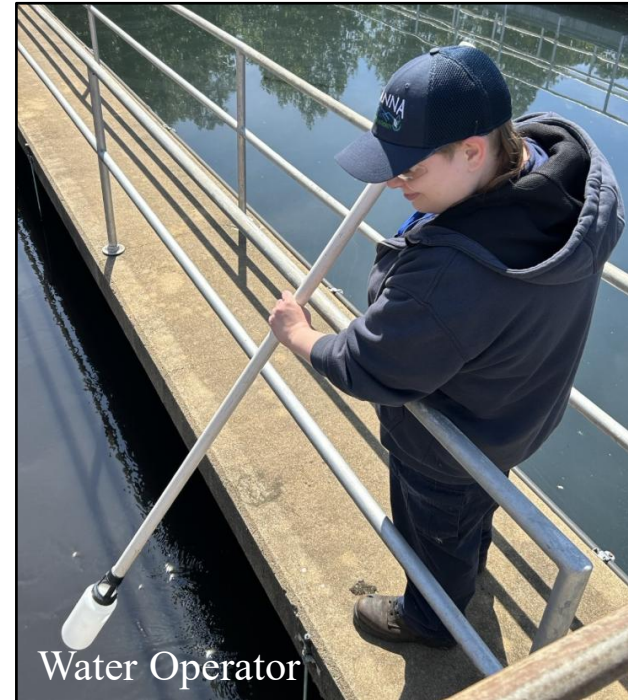
Wastewater Operator



Maintenance



Engineering Inspector



Water Operator