



Board of Directors Meeting

September 22, 2026

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: SEPTEMBER 22, 2026

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 AUGUST 25, 2026**
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 & Communications*
 - b. *Staff Report on CIP Projects*
 - c. *Staff Report on Drought Monitoring*
 - d. *Staff Report on Finance*
 - e. *Staff Report on Information & Operational Technology*
 - f. *Staff Report on Maintenance*
 - g. *Staff Report on Operations*
 - h. *Staff Report on Wholesale Metering*
 - i. *Approval of Professional Engineering Service Authorization for Rehabilitation of Woodburn, Bucks Elbow, Crozet Waterball, Pantops, and Observatory Water Storage Tanks (RFP# 25-11) - Whitman, Requardt and Associates, LLP*
 - j. *Approval to Amend Capital Improvement Plan and Increase Construction Contingency - Red Hill Water Treatment Plant Upgrade*

- k. *Approval to Amend Capital Improvement Plan and Increase Construction Contingency - Interceptor Sewer and Manhole Repair (Phase 2)*

9. OTHER BUSINESS

- a. *Presentation and Consider Vote to Award Construction Contract to Replace Flocculators at the South Rivanna Water Treatment Plant (IFB # 446) – J.S. Haren Company
David White, III, Project Engineer*
- b. *Presentation: Major Capital Projects Construction Update
Austin Marrs, P.E., Engineering Manager*

(Combined Session with the RSWA)

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

11. CLOSED MEETING

(Motion, second and roll call vote to enter into a combined closed session to discuss confidential information related to cybersecurity and the security of the authorities' physical premises as permitted by the public safety exemptions at Section 2.2-3711-A(19) of the Code of Virginia and to discuss, consider, or interview prospective candidates for employment, assignment, appointment, promotion, performance, demotion, salaries, disciplining, or resignation of specific public officers, appointees, or employees of any public body, as permitted by the personnel exemption at Section 2.2-3711-A(1) of the Code of Virginia.)

Motion: I move that the Rivanna Water & Sewer Authority enter into a combined closed session with the Rivanna Solid Waste Authority to discuss reports or plans related to the security of the authorities' facilities, buildings, or structures, or the safety of persons using such facilities, buildings, or structures, as permitted by Section 2.2-3711-A(19) of the Code of Virginia and to discuss, consider, or interview prospective candidates for employment, assignment, appointment, promotion, performance, demotion, salaries, disciplining, or resignation of specific public officers, appointees, or employees of any public body, as permitted by the personnel exemption at Section 2.2-3711-A(1) of the Code of Virginia.*

(Motion, second and roll call vote to certify the closed session)

Motion: The Rivanna Water and Sewer Authority hereby certifies by recorded vote that, to the best of each member's knowledge, only public business matters lawfully exempted from the open meeting requirements of the Virginia Freedom of Information Act and identified in the motion authorizing the closed meeting were heard, discussed or considered in the closed meeting to which this certification resolution applies.*

** Closed meeting motion subject to change**

(Complete and close the RWSA meeting, then complete and close the RSWA 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
August 25, 2026

A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on August 25, 2026, at 2:16 p.m. at the Albemarle County Service Authority (1st Floor Conference Room), 168 Spotnap Road, Charlottesville, VA 22911.

Board Members Present: Mike Gaffney, Sam Sanders, Ann Mallek, Lloyd Snook (arrived at 2:18 p.m.), Quin Lunsford, Jason McIlwee.

Board Members Absent: Jeff Richardson.

Rivanna Staff Present: Bill Mawyer, Dave Tungate, Lonnie Wood, Jennnifer Whitaker, Daniel Campbell, Brian Ayala, Westley Kern, Jacob Woodson, Jon Williams, Austin Marrs, Madison Kelly, Dylan Schweikert, Thomas Corrice, Deborah Anama.

Attorney(s) Present Valerie Long

1. CALL TO ORDER

Mr. Gaffney convened the August 25, 2026, regular meeting of the Board of Directors of the Rivanna Water and Sewer Authority at 2:16 p.m.

2. AGENDA APPROVAL

Ms. Mallek moved that the Board of Directors adopt the agenda. Mr. Sanders seconded the motion, which carried unanimously (5-0). (Mr. Richardson, Mr. Snook were absent)

3. MINUTES OF PREVIOUS BOARD MEETING ON JULY 28, 2026

Ms. Mallek moved that the Board of Directors approve the minutes for the July 28, 2026, meeting. Mr. Sanders seconded the motion, which carried unanimously (5-0). (Mr. Richardson, Mr. Snook were absent)

4. RECOGNITIONS

There were none.

5. EXECUTIVE DIRECTOR'S REPORT

Mr. Mawyer welcomed and introduced Jason McIlwee as a new member of the Board of Directors. He stated Mr. McIlwee was recently promoted to be the Director of Utilities for the City. He introduced Justin Cooner, a recently hired Civil Engineer in the RWSA Project Engineering group. He stated Mr. Cooner had a bachelor's and master's degree in civil engineering from Georgia Tech. He stated Mr. Cooner previously worked for VDOT.

Mr. Mawyer stated he had sent the Board an article written by George Cheape, RWSA/RSWA Safety Manager. He stated the article, published in the *Tap Into Virginia*, AWWA Magazine, was about construction site safety. He stated that Mr. Cheape was previously a construction inspector and had firsthand knowledge of safety issues that could occur on construction sites. He congratulated Mr. Cheape on his publication.

Mr. Mawyer stated that this month was National Water Quality Month, and they celebrated that their water resources were plentiful and high quality, with all their reservoirs and water treatment plants doing very well. He stated they contrasted that to what was happening in other parts of the country that were not so fortunate, with the Colorado River crisis and Lake Mead at its lowest level on record. He stated there were several articles about the challenges the western US reservoir system was dealing with. He stated the water supply served seven states and about 40 million people.

Mr. Mawyer stated that in terms of rain and drought, the state map improved in the last month. He stated their rating in Central Virginia, the Middle James region, had improved from a "Warning" to a less severe "Watch" status for precipitation levels. He stated that yesterday, the South Rivanna Reservoir was spilling, which was great news. Sugar Hollow Reservoir was still down about a foot below the dam. He stated they were remaining in the "Drought Watch" status until water supply conditions improved further. He stated that Sugar Hollow and Beaver Creek water levels were still below the dams. He stated they wanted to see those two reservoirs recover before reducing water conservation measures. He stated they were monitoring the situation along with the Regional Drought Committee.

Mr. Mawyer stated they continued to communicate and collaborate across their community. He stated Westley Kern, Communications and Outreach Coordinator, had given a tour of the Observatory WTP to 7th through 12th graders that were in the UVA's Emerging Engineers Program. He stated that Daniel Campbell, Operations Director, and Mr. Kern had done a community meeting with the Places 29 Community Advisory Committee.

Mr. Mawyer stated that David Tungate, Deputy Executive Director, was partnering with Dr. Berger from UVA, who had spoken to our Board several months ago about measuring PFAS in the wastewater stream and PFAS research. He stated Mr. Tungate also had a presentation the night before with the Pantops Community Advisory Committee.

Mr. Mawyer stated they were prepared to issue revenue bonds on September 1. He stated the bond was for up to \$260 million, and that included about \$228 million in new funding for new projects and \$31 million for a refunding of an existing bonds. He stated that when they received bids for the bonds, they would decide with bond counsel whether they would go forward with the refunding. He stated the bonds would help fund their \$600 million five-year CIP. He stated Moody's had evaluated their credit and rated them at AA2 stable. He stated S&P had lowered their rating one level from AA+ to AA stable.

Mr. Mawyer stated they participated in an Emergency Load Response Program (ELRP), which was sponsored by the Pennsylvania-Jersey-Maryland (PJM) Utility, a regional wholesaler of electricity. He stated Dominion Power purchased power from PJM if Dominion needed additional power during a high-demand period. He stated PJM had a program where they asked

RWSA to reduce its power demand by using our emergency power generator. He stated we used our generator at Moores Creek for about eight hours in July and were paid \$21,000 for participation in the ELRP program.

Mr. Mawyer stated construction was still full speed ahead as the Moores Creek Admin renovation and addition project was taking shape. He stated they needed the windows and doors installed but were close to getting the building shell completed so they could work inside through the winter.

Mr. Mawyer stated one of their large wastewater holding ponds had been drained, sludge removed and washed down to allow completion of concrete repairs. The basin holds about 8 million gallons of wastewater. He stated that when they had a heavy rainstorm, this was one of the ponds they used to divert that excess flow until they could run the wastewater through the plant treatment process.

Mr. Mawyer stated they continued with the Central Water Line project. He stated they had goals of getting the water line installed on Cherry Avenue in front of two schools during the summer before students returned in mid-August. He stated they were pleased with their contractor for getting that work completed on time. He stated the contractor for the Ragged Mountain to Observatory project was also making reasonable progress installing pipe and building the pump station.

Ms. Mallek stated she just wanted to share words from Sugar Hollow neighbors. She stated that between the second and third bridge, nobody could hear the emergency siren. She stated they were hopeful that the continued testing would allow some more speakers down river because they still had high water when the bladder thing happened in 2024. She stated that water in this area was eight feet up onto the road. She stated that was an issue.

Ms. Mallek stated somewhere recently that there was a research article about algae clamping onto the electrons of PFAS molecules. She stated what was not discussed in the article was what they did with clumps of material. She stated nobody had solved that final question of how to breakdown PFAS, but she would dig that up and share it with them. She asked if they measured exhaust from the diesel generators when they tested them.

Mr. Mawyer stated they had a permit from the DEQ Air Control section, and they had to report all discharge. He stated they were within the permitted requirements. He noted that only one RWSA generator ran as part of the PJM program.

6. ITEMS FROM THE PUBLIC

There were none.

7. RESPONSES TO PUBLIC COMMENTS

Mr. Mawyer stated regarding the comment from last month about whether they would secure the bond with any facilities, they did not secure any of their bonds with infrastructure or any facilities. He stated it was secured by the faith and credit of the revenue of the Authority. He

stated they reviewed the 2012 bond, and that was not secured with any facility. He stated it was secured by the project agreement to build the Ragged Mountain Dam.

8. CONSENT AGENDA

a. Staff Report on Administration & Communications

b. Staff Report on CIP Projects

c. Staff Report on Drought Monitoring

d. Staff Report on Finance

e. Staff Report on Information & Operational Technology

f. Staff Report on Maintenance

g. Staff Report on Operations

h. Staff Report on Wholesale Metering

i. Award of Contract for Lake Management Services (RFP # 26-08) – Jones Lake Management

j. Approval to Amend Professional Engineering Services Agreement– Moores Creek Administration Building Renovation and Addition Project – Short Elliot Hendrickson Inc.

Mr. Sanders moved that the Board of Directors approve the consent agenda. Ms. Mallek seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)

9. OTHER BUSINESS

a. Presentation and Consider Vote to Approve Professional Engineering Services Authorization – North Rivanna Waterline Replacement and River Crossing Project – Kimley-Horn and Associates, Inc.

Jennifer Whitaker, Director of Engineering & Maintenance / Special Projects, stated she was there to talk about the North Rivanna water line replacement project, including the river crossing at the North Fork Rivanna River. She stated as background, the northern area of Albemarle County was what they called the northern service area.

Ms. Whitaker stated the water system in that area was served by four critical pieces of infrastructure: Airport Road Water Pump Station, which was relatively new; the North Rivanna Water Treatment Plant, the Piney Mountain Tank, and the North Rivanna Water Line, which were not relatively new. She stated recently there had been an increase in baseline water demand in the northern area, which was defined as everything north of the South Fork Rivanna River.

Ms. Whitaker stated there were two pressure zones in that area. She stated they had seen this recent water demand increase on the day-over-day demand. She stated in addition, they

142 anticipated some significant growth: residential, commercial, and industrial. She stated that staff
143 have had several presentations with the Board about the proposed AstraZeneca site.

144 Ms. Whitaker stated in 2024, staff completed a northern area master plan which identified
145 needed capital improvement projects, particularly in the five- to ten-year window, with many
146 projects being in the two- to three-year window. She stated that included the North Rivanna
147 Water Line Replacement and the second crossing of the North Fork Rivanna River. She stated
148 the North Rivanna Water Line (NRWL) was the backbone of the northern service area.

149 Ms. Whitaker stated the NRWL is about four and a half miles of mostly 12-inch cast iron pipe.
150 She stated there were a few sections of 14-inch as well. She stated it had been constructed in
151 1969, so it had reached the end of its useful life, and it was time for replacement. She stated there
152 was a history of high service pressures in that area. She stated the rolling topography meant that
153 in the low areas, they saw pressures of over 150 to 180 pounds per square inch. She stated that
154 had led to a history of line breaks, particularly in the phase one project area.

155 Ms. Whitaker stated that to cost-effectively replace the water main, staff performed extensive
156 modeling work with a consultant. She stated they segregated the pipeline into multiple segments
157 and applied current, future, industrial, and residential water demand projections. She stated they
158 began looking at how they would serve that area, how they would replace pipes, and what size
159 pipes they needed. She stated that once they put that pipe in the ground, it was going to stay in
160 the ground for about one hundred years. She stated she was advocating for installing the size
161 they needed to adequately serve the northern part of the County including projected growth.

162 Ms. Whitaker stated the map being shown to the Board was labeled with alphabetical notations.
163 Segment A was pipeline that ran up to the Piney Mountain Tank. She stated they were not
164 proposing to replace that until Phase 4 of the replacement work. She stated they were evaluating
165 additional water storage in this area. She stated the thought was that Segment A could be
166 replaced when they built additional storage.

167 Ms. Whitaker stated Segment B was just north of the Rivanna Futures site. She stated it is
168 located within Rt. 29 and did not need to be replaced immediately. She stated it was slated for
169 the Phase 3 timeline. She stated that Segment D would occur on either side of the North Rivanna
170 River. She stated this was the area where they had the majority of pipe breaks and where they
171 had seen the largest pressure challenges. She stated Section D needed to be replaced as soon as
172 practical, particularly considering the future high-demand users.

173 Ms. Whitaker stated Segments C, F, H and I were connector segments. She stated they were
174 identified as Phase 2. She stated Segment C was potentially going to be installed concurrent with
175 the Rivanna Futures roadway and additional work in that area.

176 Ms. Whitaker stated Segment F was connecting two projects that others were going to build. She
177 stated projects I and H were also connector pipes. She stated the purple lines that could be seen
178 on the slide, one by section B, one between H and I, and one between the pump station and F,
179 were all projects that are being constructed as a "betterment" with other projects.

180 Ms. Whitaker stated F was a VDOT project in the Berkmar Extended Road. She stated H to I
181 was a pipe that RWSA was going to have betterment with the North Pointe developer. She stated

182 Section B was the pipeline and roadway project that was going to be installed with the Rivanna
183 Futures' work.

184 Ms. Whitaker explained they were planning the right pieces, and sizes to be completed at the
185 right time. She stated as such, she was recommending going ahead with replacement of Phase
186 One and Phase Two at this time. She stated they were going to perform design work and field
187 investigation and have everything ready for all the different segments.

188 Ms. Whitaker stated VDOT was considering widening Route 29 in northern Albemarle County at
189 some future time. She stated there might be an opportunity for RWSA to partner with VDOT.
190 She stated the proposal that the Board had in front of them included design and preparation for
191 replacing all the piping, but only construction of Phases One and Two.

192 Ms. Whitaker stated that to date, they have done an extensive amount of preliminary design work
193 for the waterline. She stated they secured preliminary permission from VDOT for an alignment
194 within Route 29. She stated they had completed work at the North Fork Rivanna River Crossing:
195 geo-technical, threatened and endangered species, and wetlands delineation surveys.

196 Ms. Whitaker stated, if authorized to proceed into final design, the anticipated construction
197 completion date was November 2030. She noted that because the pipe was in Route 29, the
198 work would be nighttime construction. She stated it was probably going to be multiple crews
199 working for several years during nighttime hours. She requested that the Board approve the
200 authorization.

201 Ms. Mallek stated that the design was dependent on VDOT expanding to three lanes, but this
202 could take years. She asked if this was incidental to the rest of the project.

203 Ms. Whitaker stated it was. She stated that the VDOT widening was only impacting the final
204 phases of the pipe work. She stated it was the last section past Boulder's Road extension that
205 there might have been an opportunity, as that project progressed, to bring that pipe to fruition.

206 Ms. Whitaker stated they would have the alignment secured and design completed, so that,
207 should the pipe be needed at some future point, they could proceed quickly.

208 Mr. Lunsford stated that right sizing helps avoid future pain. He asked what the sizes of those
209 different segments were at that time.

210 Ms. Whitaker stated they were all 12-inch pipes except for the section that went from Route 29
211 to North Rivanna Treatment Plant, which was 14-inch pipe. She added that Section A on the map
212 was also 14-inch pipe.

213 Mr. Snook asked what betterment meant.

214 Ms. Whitaker stated that when they referenced betterment, typically it meant somebody else was
215 doing a project, and that project required either relocation or replacement of the RWSA water
216 main. She explained that typically with a roadway project, if VDOT needed to move their
217 pipeline, the road project paid for the replacement of that pipeline. She stated if they wanted a
218 larger pipeline, such as a 24-inch pipe, RWSA would pay the differential, called "betterment".

219 Mr. Mawyer asked how many crossings they had at the river.

220 Ms. Whitaker stated they had one currently that is relatively new, and that this would be the
221 second crossing. She stated that the current pipe is 12-inches in diameter, and the new pipe will
222 be 24-inches. The pipe will provide redundancy and hydraulic capacity across that river.

223 Ms. Mallek asked if the new tank on Piney Mountain would be next to the old one.

224 Ms. Whitaker stated the northern service area has two pressure zones. Piney Mountain Tank
225 serves the higher-pressure area. A new tank will need to undergo a site alternatives analysis.

226 Ms. Mallek asked whether it would be raising the height of what they had or putting in a whole
227 new one.

228 Ms. Whitaker stated they had not fully determined what it would be.

229 Ms. Mallek asked if they would use the same right-of-way.

230 Ms. Whitaker stated they would most likely need to acquire additional property and right of way.

231 **Ms. Mallek moved that the Board of Directors authorize the Executive Director to execute**
232 **a Service Authorization with Kimley Horn and Associates, Inc. for an amount up to**
233 **\$1,597,000, to provide final design, permitting, bidding, and construction administration**
234 **services required to complete the North Rivanna Waterline Replacement and River**
235 **Crossing Project and any amendments up to 10% of the total Authorization amount. Mr.**
236 **Sanders seconded the motion, which carried unanimously (6-0). (Mr. Richardson was**
237 **absent)**

238 *b. Reservoirs, Drought and Operational Strategies*

239 Daniel Campbell, Director of Operations and Environmental Services, provided a presentation
240 on the reservoir, drought, and operational strategies for 2026. He started with an overview of
241 Albemarle County showing the five reservoirs and watersheds that stored the raw water for the
242 treatment plants. He stated the three urban reservoirs were South Rivanna, Ragged Mountain,
243 and Sugar Hollow. He stated that serving the Crozet community, they had the Beaver Creek
244 Reservoir and the Beaver Creek Watershed, and 20 miles south of Charlottesville was the Totier
245 Creek Reservoir and the Totier Creek Watershed.

246 Mr. Campbell reviewed the useable volume in the reservoirs. He stated that South Rivanna
247 Reservoir stored 885 million gallons supplied by a 259 square mile watershed. He stated those
248 facilities provided the primary production for the urban water system. He stated that the South
249 Rivanna Treatment Plant produced about 90% of the water required by the urban area. He stated
250 the Ragged Mountain Reservoir currently held about 1.4 billion gallons. He stated that after the
251 pool raise project was completed and with suitable precipitation, it will store about 2.1 billion
252 gallons. He stated it was served by a very small watershed of only two square miles.

253 Mr. Campbell stated Sugar Hollow Reservoir had 339 million gallons and an 18 square mile
254 watershed. He stated Beaver Creek had 489 million gallons with a 10 square mile watershed, and

255 Totier Creek had 155 million gallons with a 29 square mile watershed. He stated most figures
256 were from the last bathymetric data from 2018. He stated the next bathymetric surveys were
257 scheduled for 2028.

258 Mr. Campbell stated the reservoir monitoring program started in 2014. He stated they monitored
259 the South Rivanna, Ragged Mountain, and Beaver Creek reservoirs twice a month, April through
260 November. He stated they monitored the Totier Creek reservoir monthly, June through August.

261 Mr. Campbell stated that for Beaver Creek, they saw typical stratification and oxygen depletion,
262 but they recently saw less phosphorus and nitrogen, so there were fewer nutrients in the
263 reservoir. He stated this was attributed to a lack of rain. He stated that because of the lower
264 amount of nutrients, they experienced lower than normal algae activity.

265 Mr. Campbell stated that South Rivanna was a reservoir with a residence time of three days. He
266 stated the bottom of the reservoir had been warmer than normal, which tended to release
267 phosphorus, as it had in 2017, 2018, and 2025. He stated that the release of phosphorus and
268 increased detention time in the reservoir led to the algae bloom that they had experienced earlier
269 this summer.

270 Mr. Campbell stated Ragged Mountain experienced stratification in early May and turnover in
271 late November, which was similar to Beaver Creek. He stated they typically saw the turnover
272 between Halloween to Thanksgiving.

273 Mr. Campbell stated that algae could cause operational issues at the treatment plants. He stated
274 regardless of the speciation, whether it was blue-green or green, certain species of algae could
275 cause issues at the treatment plant including filter clogging. He stated the operators would see the
276 loss of head go up, which meant they had to backwash filters more frequently, and the plant
277 would not be running as efficiently as it could be. He noted taste and odor concerns, algal toxins
278 (those mainly being cyanotoxins), and increased chemical use.

279 Mr. Campbell stated a lot of times when they were getting algae in the treatment plants, they had
280 to use more coagulant. He stated if they used more coagulant, they had to use more pH
281 adjustment; those were all issues that could happen because of algae. He stated they had an algae
282 and algal byproduct management plan that governed and assisted them in making treatment
283 decisions for the reservoirs and how they handled those issues.

284 Mr. Campbell stated he included one table from that plan that showed the three reservoirs they
285 typically treated most often and what went into those decisions. He stated for example, for South
286 Rivanna, they would typically treat it when they saw 10,000 cells of blue-green algae per mL in
287 two consecutive sample events. He stated if they saw that at sampling point SR2, they knew it
288 might be coming to sampling point SR1, with SR1 being the closest sampling point to the intake
289 and SR2 being further upstream.

290 Mr. Campbell stated for Beaver Creek, the criteria for treatment was 5,000 cells of blue-green
291 algae per mL in one sampling event, and it was the same metric with Ragged Mountain. He
292 stated they used the same guidance document to assist them in making decisions on when they
293 needed to sample for cyanobacteria.

294 Mr. Campbell stated that reservoir treatments could also be triggered based on operating
295 conditions at the plant. He stated they had had treatments in the past where they did not meet
296 those thresholds, but they were seeing symptomatic issues at the treatment plant that required a
297 treatment. He stated when they did treat, they used an engineered copper sulfate product by
298 SePro called SeClear.

299 Mr. Campbell stated essentially, SeClear worked by binding with the excess phosphorus, making
300 it unavailable for algae growth. He explained that algae needed light, carbon dioxide, and
301 nutrients, such as nitrogen and phosphorus, to grow, and warm temperatures bolstered those
302 reactions and growth. He stated if they took away the nutrients, the algae could not grow.

303 Mr. Snook asked what happened to the copper sulfite once it bonded to the algae.

304 Mr. Campbell stated that most ended up in the soil, but they did not test the solid deposits in the
305 past. He stated they tested the copper concentration in the finished water leaving the treatment
306 plant every year, and they had always been well within compliance with VDH. He stated they
307 had never actually tested the bottom of the reservoir for those concentrations.

308 Mr. Snook asked if there were any concerns about impacts to vegetation or wildlife.

309 Mr. Campbell stated there were not.

310 Ms. Mallek stated they did not know unless they tested. She stated that regarding the aquatic
311 benefit and having the diversity of the ecosystem of Beaver Creek, she felt they needed to find
312 out, and she hoped they would put that on the consideration list.

313 Ms. Mallek asked whether the bathymetric survey measured the depth of sediment at the bottom
314 of the reservoir.

315 Mr. Campbell stated he believed that the survey did not penetrate the bottom of the reservoir, so
316 it did not account for accumulated sediment.

317 Mr. Campbell stated for the last year of algae treatment applications, there had been no
318 treatments at Sugar Hollow and Totier Creek Reservoirs, which was typical for them. He stated
319 they had conducted six treatments in 2025 at Beaver Creek and two at Ragged Mountain. He
320 stated that this year, they had only treated Beaver Creek three times. He stated they had to treat
321 South Rivanna one time when they lost the spill and were not getting any movement through the
322 reservoir.

323 Mr. Campbell stated watershed protection was also one of their efforts, and they coordinated
324 with the City and the County on land management around the reservoirs, which included
325 recreational access, boat docks, allowable use, safety signage, and enforcement of Albemarle
326 County ordinances.

327 Mr. Campbell stated there were ordinances for their reservoirs; some conditions were common,
328 such as no swimming, no gas motors, and no hunting, but others were specific, such as no
329 boating of any kind in Sugar Hollow, including no canoes. He stated that this was part of their
330 efforts, along with reservoir surveillance.

331 Mr. Campbell stated reservoir surveillance was an effort conducted by the water department. He
332 stated they would check Beaver Creek, South Rivanna, and Ragged Mountain twice a year. He
333 stated they looked for trash, dump sites, illicit discharges, unauthorized water withdrawals,
334 unauthorized docks, invasive aquatic weeds, and potential water protection ordinance violations.
335 He stated that they checked Sugar Hollow and Totter Creek once a year.

336 Mr. Campbell stated that they have a drought management plan that they have been utilizing a
337 lot recently. He stated he was part of the drought committee that had been meeting almost
338 weekly for the last month or two. He provided a quick overview of the drought management
339 plan, noting that it provided guidance on the three drought stages: “watch”, “warning”, and
340 “emergency”.

341 Mr. Campbell stated they were still in the “watch” stage, which was a combination of two things:
342 the South Rivanna Reservoir level and the probability forecast of system storage. He stated they
343 utilized the OASIS model, which simulated current system operations over the historic
344 hydrologic record to indicate what percent of storage volume would be available in a certain
345 number of weeks. He stated those were the tools that they used as the drought committee to give
346 recommendations.

347 Mr. Campbell stated they had been meeting weekly and were set to meet again the following
348 week. He stated the committee was made up of staff from RWSA, ACSA, the City, and the
349 County, and they also had a separate trigger stage level for storage in Beaver Creek Reservoir for
350 Crozet.

351 Mr. Gaffney asked if the trigger levels would change once they finished the pipeline to Ragged
352 Mountain.

353 Mr. Campbell stated the pipeline would change a lot of things including the drought and
354 operating strategies.

355 Mr. Campbell stated the operational strategy was used for the urban reservoirs. He stated it
356 determined where they were withdrawing the water from, what time of year, and how much they
357 were treating. He stated that it was driven by two things: summer peak demand versus winter
358 off-peak demand and whether South Rivanna Reservoir was overflowing.

359 Mr. Campbell stated that if it was off-peak or peak demand and South Rivanna was overflowing,
360 they were maximizing South Rivanna production. He stated that once that water went over the
361 dam, it eventually ended up in the James River, and they could not use it. He stated that anytime
362 that South Rivanna was overflowing, they were maximizing South Rivanna production and
363 minimizing Observatory production to try to save the water in Ragged Mountain.

364 Mr. Campbell stated that when they lost the spill, that flipped and they maximized Observatory
365 production, using the water they had stored in Ragged Mountain and decreased production at the
366 South Rivanna water treatment plant. He stated the lowest level they were willing to draw Sugar
367 Hollow down to was 10 feet during the peak demand season and 19 feet during the off-peak
368 demand.

369 Mr. Campbell presented a graph to visualize the South Rivanna Reservoir level during the recent
370 event where they lost the spill at South Rivanna Reservoir from about July 4 to August 3. He
371 stated it was almost a month. He stated that in the upper left, the blue bars showed when they had
372 overflow over the top of the dam.

373 Mr. Campbell stated that on August 4, they lost the spill over the dam. He stated that when they
374 lost the spill, they were minimizing operations there, but the plant had to sustain a certain amount
375 of operations to provide water to the Pantops service area. He stated that without the Central
376 Water Line, South Rivanna WTP still had to run, but they also had to operate the mud gates at
377 the dam daily to release water downstream.

378 Mr. Campbell stated that they had a MIF, a minimum in-stream flow requirement, and they had
379 to release water to meet the DEQ requirements. He stated that the reservoir level started to drop
380 once the spill was lost. He stated the drought watch was declared on July 14, and they were
381 almost four-tenths of a foot down at that time. He stated the lowest they got was on August 1, at
382 negative 1.15 feet. He stated they received 2.33 inches of rain on August 2 that not only refilled
383 the 1.15 feet, but it also gave them spill over the dam.

384 Mr. Campbell stated at Sugar Hollow, a louder siren had been installed in December 2025. He
385 stated that they tested it monthly, and Mr. Kern did a great job of sending notices to let residents
386 know they were testing the siren. He stated that the warning signs had been installed, and siren
387 systems and signs were still planned for all their reservoirs.

388 Mr. Campbell stated the transfer pipeline was a \$107 million project consisting of seven miles of
389 36-inch raw water piping from South Rivanna to Birdwood, which was going to give them a 25
390 MGD transfer capacity. He stated that right now, they only had a 3 MGD transfer capacity from
391 Sugar Hollow, which was going to go away once the pipeline was done. He stated that once the
392 Ragged Mountain pool raise project was complete, they would begin transferring water.

393 Mr. Campbell stated that most of that filling of the 700 million additional gallons was going to
394 come from South Rivanna, which included a raw water pump station and intake. He stated that it
395 was going to allow them to keep that new, larger Ragged Mountain Reservoir full heading into a
396 drought.

397 Mr. Campbell stated that they had proactive reservoir, drought, and operational programs to
398 support water supply and treatment strategies. He stated that they partnered with the County and
399 the City on water protection and land use around reservoirs. He stated they had a predictive
400 program to assess reservoir capacities and community water demand every 10 years, with the
401 next report due in 2030.

402 Ms. Mallek asked if there were recording devices near the sirens to make monitoring the sirens
403 easier.

404 Mr. Campbell stated he would have to check on that. He stated that the sirens were connected to
405 the SCADA system, and they received notification every time the siren was active.

406 *c. Laboratory Facilities and Resources*

407 Madison Kelly, Laboratory Manager, provided an overview of the laboratory facilities and
408 resources. She stated that this would include services they provided, the workload they managed,
409 in addition to the equipment they used and some improvements and optimizations they would be
410 making over the next fiscal year.

411 Ms. Kelly stated that the laboratory department was composed of three chemists and herself. She
412 stated they fell under the Operations and Environmental Services Division, as their work largely
413 supported the wastewater and drinking water operations.

414 Ms. Kelly stated their main goal was to provide analytical data that supported regulatory
415 compliance, operational decision-making, and protection of environmental and public health.
416 She stated that for the drinking water system, this included running compliance testing and
417 reporting to DEQ and VDH. She stated it included testing the distribution system for water
418 quality monitoring, as well as providing data-driven operational guidance that helped with
419 treatment process optimization.

420 Ms. Kelly stated much was the same for the wastewater system, with the exception that
421 compliance testing was reported to DEQ alone, and they also supported the industrial
422 pretreatment program. She stated that on the environmental and public health monitoring side, a
423 large portion of testing was to look at the nutrient levels in the reservoirs before the water
424 underwent treatment at the plants.

425 Ms. Kelly stated that recently they were helping to collect water quality data in the Glenmore
426 and Farmington areas. She stated that underpinning all of this was their quality assurance. She
427 stated they were a DCLS-certified and VELAP accredited laboratory in the state of Virginia. She
428 stated this required that they undergo annual proficiency testing by a third party.

429 Ms. Kelly stated they regularly updated their Standard Operating Procedures to make sure they
430 operate at the highest efficiency, as well as following the most recent procedures according to
431 their Standard Methods. She stated they were also responsible for training their operators and
432 sample collectors to ensure they were also operating under the same operating procedures when
433 collecting samples. She stated that along with all their testing, they ran a rigorous round of
434 quality assurance and quality control standards.

435 Ms. Kelly stated that to give some numerical data on what operations looked like on an annual
436 basis, they ran approximately 15,000 analyses across water, wastewater, and environmental
437 monitoring programs. She stated these were sourced from approximately 8,500 samples that
438 were received in their laboratory on an annual basis. She stated these came from their treatment
439 plants and reservoirs, as well as samples that they collected themselves throughout the
440 distribution system.

441 Ms. Kelly stated they were certified to run 13 analytes, six of those for drinking water and seven
442 for wastewater. She noted that they were very proud to report that they were currently operating
443 at a 100% compliance record with no regulatory violations or reportable events in the last year.
444 She stated that to further break down some of those analyses, they ran approximately 1,290 tests
445 per month.

446 Ms. Kelly stated just under half of those were dedicated to water quality monitoring programs,
447 with about a third dedicated to water compliance testing. She stated just under a quarter of that
448 number was dedicated to wastewater, with about equal amounts dedicated to monitoring and
449 compliance.

450 Ms. Kelly stated they recently upgraded their optical BOD (biological oxygen demand) probe.
451 She stated the previous equipment they had been using had been purchased in the 1980s. She
452 stated they had upgraded to an optical probe, which allowed for more accurate calibration and
453 better data integrity. She stated it was highly efficient in that it used less consumable equipment.

454 Ms. Kelly stated they were working on the installation of a new autoclave, as the previous one
455 had reached the end of its life cycle. She stated the next upgrade was the analytical balance,
456 which was also at the end of its life cycle and needed to be updated. She stated other items
457 included the suspended solids oven, a distillation unit, and some dishwashers, all for the same
458 reason.

459 Ms. Kelly stated one optimization they were very excited about implementing this year was the
460 use of a laboratory information management system. She stated this process had started back in
461 the fall of 2025 when they had identified some opportunities for data integrity improvement. She
462 stated they first started by evaluating four separate vendors and eventually selected "QBench".

463 Ms. Kelly stated that QBench was the vendor supplying the system, and they were working with
464 them on a weekly basis to help build what would be their new workflows. She stated this system
465 would help to standardize the workflows. She stated they would gain the ability to track samples
466 electronically, as well as gain some traceability capability. She stated that the highlight of what
467 they would be gaining was overall strength and data integrity.

468 Ms. Kelly explained that they were currently using multiple handwritten logbooks upon sample
469 receipt in the laboratory. She stated when they began their analyses, they were using Microsoft
470 Suite applications to store their data and calibrations. She stated from there, with that manual
471 entry, the data also needed to go into separate compliance reports, which required entering data
472 into different platforms until it finally got reported to its regulator.

473 Ms. Kelly stated what they hoped their workflow would look like in the future was that from the
474 time samples were received in the laboratory, they would immediately be logged into their
475 laboratory information management system. She stated from there, operators and managers from
476 other departments would be able to track that sample and see where it was from the time it was
477 received to the time they no longer had the sample.

478 Ms. Kelly stated that the worksheets would also have automated QC and QA functions with no
479 configuration, meaning there would be less opportunity for human error. She stated there would
480 also be one point of data entry instead of several platforms, and they would even gain the
481 opportunity to interface some of their equipment, meaning there would be no need for human
482 data entry. She stated the regulatory compliance reports would be automated, as well.

483 Ms. Kelly stated they currently operate with a budget of about \$800,000. She stated the majority
484 of that went toward personnel, and about \$156,000 went toward operations and maintenance for
485 equipment. She stated about \$58,000 went toward replacing the equipment, \$28,000 went toward

486 IT, and the lower areas included about \$4,000 for professional services, \$2,300 for office
487 supplies, and \$1,500 for other services and charges.

488 Ms. Kelly stated that looking ahead, they intended to complete the QBench implementation as
489 soon as possible and continue to improve and evaluate further optimizations in the laboratory.
490 She stated they intended to support emerging monitoring needs. She stated this included
491 information the EPA had just put out on UCMR 6, which would appear to be effective in 2028.
492 She stated they had just begun additional monitoring of PFAS for industrial users under VA
493 House Bill 938 that became effective July 1, 2026. She stated that finally, they intended to
494 continue supporting the industrial pretreatment program.

495 Ms. Mallek asked about sediment sampling.

496 Ms. Kelly stated that they had a bench sheet that they were using. She stated she did not know
497 the number off the top of her head, but she noted there were quite a few different sampling
498 stations, whether they were at the actual sampling stations owned by ACSA or elsewhere. She
499 stated she believed one was at the actual Glenmore treatment plant, and some were pulled from
500 tanks and such.

501 Mr. Mawyer stated that there had been a sediment problem at several residences in Farmington
502 and Glenmore that was thought to have been related to the corrosion inhibitor used in our
503 treatment process. He stated that water age was all part of this. He stated that they did sample in
504 those neighborhoods to monitor the pH of the water and how that may have been contributing to
505 any precipitate that a few residents were finding in their appliances and their hot water.

506 Ms. Mallek asked if the metals being found were at a significant level, and if they were related to
507 industrial discharges.

508 Ms. Kelly stated that they were not currently measuring wastewater. She stated they were only
509 measuring the metals through separate phases of the drinking water production.

510 Ms. Mallek asked if they saw significant levels of metals in the drinking water.

511 Ms. Kelly stated she would have to review the data, but she had not noticed any abnormal levels.

512 Ms. Mallek asked whether QBench was developed specifically for the Authority.

513 Ms. Kelly stated that QBench provided an information management system. She stated QBench
514 was chosen because they had other utility customers and were environmental laboratories. She
515 stated QBench provided the software system and helped the Authority build out the workflows to
516 meet their needs.

517 Mr. Gaffney asked if they performed in-house testing for PFAS.

518 Ms. Kelly stated that they did not. She stated they had considered budgeting it for FY 27, and it
519 would cost about \$500,000 in equipment to implement. She stated it was more cost-effective to
520 send the testing to an external laboratory.

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

522 Ms. Mallek stated she attended the Critical Infrastructure Protection Forum at PVCC. She stated
523 she wanted to extend her kudos for all the water supply and quality presentations provided by
524 RWSA over the last three years, because they talked a lot about those issues. She noted that it
525 was one of the biggest risks for agencies such as this.

526 ***11. CLOSED MEETING***

527 There was no reason for a closed meeting.

528 ***12. ADJOURNMENT***

529 **Mr. Snook moved that the Board of Directors adjourn the meeting at 3:25 p.m.. Ms. Mallek**
530 **seconded the motion, which carried unanimously (6-0). (Mr. Richardson was absent)**



MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: SEPTEMBER 22, 2026

STRATEGIC PLAN PRIORITY: EMPLOYEE DEVELOPMENT

The professional qualifications of our staff continue to improve and enhance our services. We congratulate the following employees for successfully completing the requirements for a license from the State Department of Professional and Occupational Regulation:

- **Schuyler Deal**, *Wastewater Operator 1*. Schuyler has been a valued member of the wastewater team for the past four years. When joining the Authority, Schuyler had no prior wastewater treatment experience but through his dedication to the treatment profession, recently passed the Virginia Wastewater Works Class 1 exam.
- **Madison Andriliunas**, *Water Operator 1*. Madison joined Rivanna in June 2025. Her education and professional commitment to water treatment have allowed her to increase her licensing credentials very quickly. She holds a BS degree in Environmental Science from Old Dominion University and recently passed the Virginia Waterworks Class 1 exam.

STRATEGIC PLAN PRIORITY: ENVIRONMENTAL STEWARDSHIP

Celebrating Source Water Protection Week!



We celebrate *Source Water Protection Week* from Sept. 27 - Oct. 3, 2026 to raise awareness about the importance of caring for our essential drinking water sources. Protecting our rivers and reservoirs is the best way to ensure we have high quality drinking water now and in the future.

STRATEGIC PLAN PRIORITY: COMMUNICATION AND COLLABORATION

2026 Imagine a Day Without Water Art Contest - “Small Drop, Big Difference”

The City of Charlottesville, Albemarle County Service Authority, and Rivanna Water & Sewer Authority are holding the 12th annual *Imagine a Day Without Water Art Contest*. This year’s theme is “*Small Drop, Big Difference*”. Students in grades K-12 are invited to show, through their original artwork, the scale, impact and importance of water to our community. Art entries are accepted from September 14 until October 26.



More information and the link to submit your entry: <https://www.Charlottesville.gov/ArtContest>

WaterJAM 2026 Conference



We were well represented at the 2026 VAWWA/WEF WaterJAM Conference held from September 14 -17 in Virginia Beach. Staff provided the following presentations:

Austin Marrs, P.E., Engineering Manager

- *Virginia Utility CIP Forum*

Thomas Barger, Assistant Manager, Water Department, presented two topics:

- *How the RWSA is using Plate Settlers to Unlock Hidden Capacity at Space-Constrained Water Treatment Plants*
- *Elevating our New Operator Training Program to Develop High-performing Professionals who Grow with the Utility*

Michelle Simpson, P.E., Senior Civil Engineer

- *Dynamic Water System Planning: Flexible Strategies for Unpredictable Development & Growth*

STRATEGIC PLAN PRIORITY: OPTIMIZATION AND RESILIENCY

Revenue Bond Issued

The bond issuance approved by the Board in July was successfully conducted on September 1, 2026. We received 8 bids ranging from 4.574% to 4.672%. The lowest bid was received from Bank of America Securities. The final true interest cost (TIC) after factoring in issuance costs for the bond issue was 4.585%. The refunding of one of our existing bonds was also successful. We were able to partially refund \$22.7 million of the remaining \$26.4 million balance of the 2015B Bond. This creates \$1.8 million in cash flow savings over the next 20-year period. Summary of the bond issue and refunding is shown below:

<u>Bond Issue Sources</u>		2026 Bond Issue Summary	
Total Par Value		\$	226,610,000
Premium received			9,458,400
	Total Received	\$	236,068,400
<u>Bond Funds Uses</u>			
Construction Fund		\$	212,400,000
Refunding Reserve (2015B Bond)			22,784,600
Issuance costs			883,800
	Total Uses	\$	236,068,400

<u>Key Data Points</u>			
True Interest Cost (TIC)			4.585%
Refund Cash Flow Savings		\$	1,784,200
Annual Average		\$	89,210
Net Present Value Saving on Refunding			4.7280%

STRATEGIC PLAN PRIORITY: PLANNING AND INFRASTRUCTURE

Information Meeting for Upcoming Projects

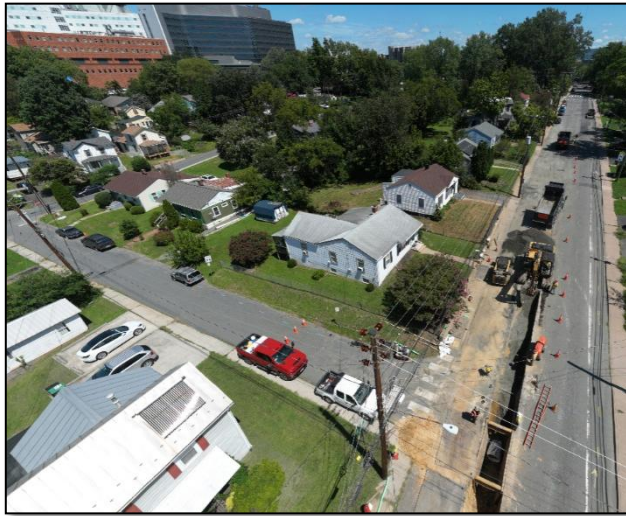
In an effort to promote interest and competitive bidding for our CIP projects, regional contractors were invited to attend our *Contractor Information Meeting* held on September 18th. Attendees heard about the scope of work and schedule for several of our major construction projects that will be advertised for bids in the next several months including:

1. Central Water Line – Phase II
2. Water Storage Tank, Airport Rd Pump Station
3. North Rivanna River Pipe Crossing and Replacement
4. Water Pump Station and Piping, Beaver Creek
5. Water Tank Repairs and Painting, Urban Area and Crozet
6. Dam Concrete and Steel Repairs
7. Moores Creek Pump Station Gate & Valve Repairs

Administration Building – September 16, 2026



Central Water Line – Phase 1 - Cherry Avenue - August 25, 2026



Cherry Avenue & Jones Street
Near Charlotteville Middle School



Cherry Avenue & Rainier Road
Near Tall Oaks Elementary

**Ragged Mtn Reservoir to Observatory WTP Pipe and Pump Station Project -
September 16, 2026**



South Rivanna Reservoir to Ragged Mtn Reservoir Water Line Project– Woodburn Road
August 25, 2026





MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY BOARD OF DIRECTORS

FROM: LEAH BEARD, DIRECTOR OF ADMINISTRATION & COMMUNICATIONS

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: ADMINISTRATION & COMMUNICATIONS REPORT

DATE: SEPTEMBER 22, 2026

Human Resources

The Authority's turnover rate for the current performance evaluation period, which began April 1, 2026, is 12.2%, exceeding our annual Strategic Plan goal of 10%.

Megan O'Donnell Shumate, *Human Resources Manager*, continues to focus on recruitment, retention, and workforce development initiatives. Recruitment efforts are underway for several positions, while HR is expanding partnerships with Virginia Works, CATEC, and PVCC to develop apprenticeship and workforce development opportunities. HR also continues to coordinate the Authority's Compensation & Classification Study and has begun evaluating options for a new Human Resources Information System (HRIS) to improve the efficiency and consistency of HR, payroll, and benefits processes.

Communications & Outreach

Our division responded to 26 FOIA requests in August. Westley Kern, *Communications & Outreach Coordinator*, continues to collaborate with community partners to increase awareness of Rivanna's operational initiatives and infrastructure investments. Following presentations to the Hydraulic and Pantops Community Advisory Committees in August, Rivanna Team Members are presenting to the Twenty-nine North Community Advisory Committee on September 10 and the Fifth Street & Avon Community Advisory Committee on September 17. These meetings provide opportunities to share information about major infrastructure projects and Authority initiatives with community members. Additional outreach continues through community tours, construction communications, media engagement, email subscriptions, and partnerships such as *Imagine a Day Without Water*.

Safety

George Cheape, *Safety Manager*, continues to provide safety oversight for the Authority's major capital construction projects, promoting safe working conditions for Rivanna employees, contractors, and community members. George is also coordinating additional safety training for Engineering Inspectors and working with community partners to strengthen emergency radio procedures and interagency communication. His article highlighting safety within Rivanna's Capital Improvement Program was recently published in the Summer 2026 edition of Tap into Virginia, a Virginia Section AWWA and Virginia Water Environment Association publication.

MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: AUSTIN MARRS, P.E., ENGINEERING MANAGER

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: CIP PROJECTS REPORT

DATE: SEPTEMBER 22, 2026

This memorandum reports on the status of the following major Capital Projects. *Recent significant budget, schedule, and project changes, if any, are highlighted in the project information below.*

For the current FY 27 – 31 CIP and additional project information, please visit:
[CIP- Adopted May 2026 WEB.pdf](#)

Summary

Under Construction – 20 Projects - \$345 M

	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 Waterline Crossing	December 2024	September 2027
4	RMR to OBWTP Raw Waterline and Pump Station	February 2025	June 2029
5	MC Building Upfits & Gravity Thickener Improvements	May 2025	May 2027
6	MC Structural and Concrete Rehabilitation	May 2025	May 2027
7	Crozet Pump Stations Rehabilitation	December 2025	July 2027
8	MC Administration Building Renovation and Addition	August 2025	December 2027
9	SVWRRF Permit Modification Upgrades	<i>December 2026</i>	June 2027
10	RMR Pool Raise	September 2025	December 2026
11	Sewer and Manhole Rehabilitation, Phase 2	December 2025	June 2027
12	CZWTP GAC Expansion, Phase 1	March 2026	May 2028
13	SVWRRF Generator Replacement	April 2026	June 2027
14	SRR to RMR Pipeline, Pump Station & Intake	March 2026	December 2030
15	Glenmore WRRF Upgrade, Phase 1	June 2026	August 2027
16	Sodium Hypochlorite Tank Replacement, OBWTP	September 2026	July 2027
17	MC UV Disinfection System Replacement	November 2026	June 2029

18	SRWTP – PAC System Replacement	January 2027	June 2027
19	ISWRC Sediment Basin Repairs (RSWA)	October 2026	December 2026
20	SRWTP Floc Basin Equipment Replacement	October 2027	May 2028

Design and Bidding – 24 Projects - \$200 M

21	Airport Rd Water Storage Tank and Pumps	March 2027	March 2029
22	Central Water Line, Phase 2	March 2027	December 2029
23	MC Pump Station Slide Gates, Valves, Bypass, and Septage Receiving Upgrades	March 2027	December 2028
24	Beaver Creek Raw Water Pump Station, Intake, & Piping	March 2027	December 2029
25	Beaver Creek Dam Spillway Modifications	January 2030	December 2032
26	Upper Schenks Branch Interceptor, Phase 2	2027	2029
27	Dam Concrete and Steel Repairs	March 2027	May 2028
28	NR River Crossing and Piping	September 2027	December 2030
29	MC Blower Ventilation Replacement	<i>September 2027</i>	<i>March 2029</i>
30	Woodburn, Pantops, and Observatory Water Tank Painting	<i>June 2027</i>	June 2030
31	SRWTP WW Connection	March 2028	June 2029
32	Albamarle Berkeley WWPS Replacement	September 2027	September 2029
33	Berkmar Drive Waterline	March 2028	March 2030
34	Emmet Street Waterline Betterment	April 2027	March 2030
35	Dam Public Safety Improvements	June 2027	December 2028
36	CZWTP Disinfection Improvements	June 2027	December 2028
37	Buck's Elbow Tank and Waterball Repairs and Painting	June 2027	<i>September 2029</i>
38	Northern Convenience Center (RSWA)	September 2027	June 2029
39	ISWRC Scale House Renovation (RSWA)	<i>July 2027</i>	<i>June 2028</i>
40	MC Security Improvements, Front Gate	April 2028	December 2029
41	NRWTP Decommissioning	July 2029	June 2031
42	Urban Water Storage Tank Improvements	June 2028	December 2030
43	Powell Creek Interceptor Upgrade (PC 1-5)	TBD	TBD
44	Northern Area Pressure Zone	TBD	TBD

Planning and Studies

- 45. Crozet Drinking Water Infrastructure Plan Update
- 46. Flood Protection Resiliency Study
- 47. ISWRC Site Improvements and Repairs (RSWA)

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:	30%
Base Construction Contract +	
Change Order to Date = Current Value:	\$47,450,000
Completion:	December 2029
Budget:	\$58 M

Current Status: Pipe installation by two crews continues on Cherry Avenue. One crew will move to Cleveland Avenue in September to begin installation of the City 8" water line.

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:	65%
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 GAC building has been constructed. Sidewalk construction around the new building is underway. Conduit installation is taking place inside the building.

3. South Fork Rivanna River Waterline Crossing

Design Engineer:	Michael Baker International (Baker)
Construction Contractor:	Faulconer (Charlottesville, VA)
Construction Start:	December 2024
Percent Complete:	70%
Base Construction Contract +	
Change Order to Date = Current Value:	\$4,916,940 + \$734,933 = \$5,651,873
Completion:	September 2027
Budget:	\$6.55 M

Current Status: Faulconer Construction terminated its contract with the tunnel drilling subcontractor and hired a second subcontractor to complete the tunnel under the river, anticipated to start again in October 2026.

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

Design Engineer:	Kimley-Horn
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Construction Contractor:	Thalle Construction (Hillsborough, NC)
Construction Start:	February 2025
Percent Complete:	45%
Base Construction Contract +	
Change Order to Date = Current Value:	$\$56,532,000 - \$2,779,390 + \$50,931 = \$53,803,541$
Completion:	June 2029
Budget:	\$61.5 M

Current Status: Pipe construction continues between RMR and the new pump station on Reservoir Road, as well as between the new pump station and Birdwood Golf Course on Foxhaven Farm. Masonry and roofing work continues for the exterior of the pump station. Installation of the raw water main under US-29 via jack and bore ran into very large boulders that impeded the work. Staff and the Contractor continue to assess the geotechnical conditions to determine a path forward.

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

Design Engineer:	Short Elliot Hendrickson (SEH)
Construction Contractor:	English Construction (Lynchburg, VA)
Construction Start:	May 2025
Percent Complete:	40%
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: Framing and utility installations continue in the Blower Building. In the Vehicle Maintenance Building, the walls are framed, insulated, and drywalled for the new office spaces. Demolition for the new oil storage room is on-going. Installation of the new sewer line is nearly complete for the Maintenance buildings.

6. **MC Structural and Concrete Rehabilitation**

Design Engineer:	Hazen and Sawyer (Hazen)
Construction Contractor:	WM Schlosser (Hyattsville, MD)
Construction Start:	May 2025
Percent Complete:	45%
Base Construction Contract+	
Change Order to Date = Current Value:	$\$12,967,500 + \$114,981 = \$13,082,481$
Completion:	May 2027
Budget:	\$15.5 M

Current Status: Blasting and priming of the steel on the South Maintenance Shed is ongoing. Clean-out of the west holding pond was completed and concrete repair work has begun. Primary Clarifier #1 repairs are complete and the clarifier will be placed back into service this month.

7. **Crozet Pump Stations Rehabilitation**

Design Engineer:	Wiley Wilson
Construction Contractor:	Waco, Inc. (Sandston, VA)
Construction Start:	December 2025

Percent Complete:	25%
Base Construction Contract+	
Change Order to Date = Current Value:	\$9,583,350
Completion:	July 2027
Budget:	\$12.35 M

Current Status: In Pump Station 2, bypass pumping has been installed and tested, and most of the electrical work has been completed. The new pumps and concrete pads have been placed. Pump header piping installation and pump testing should commence this month.

8. **MC Administration Building Renovation and Addition**

Design Engineer:	SEH
Construction Contractor	Martin Horn (Charlottesville, VA)
Construction Start:	August 2025
Percent Complete:	35%
Base Construction Contract+	
Change Order to Date = Current Value	\$22,094,000 + \$2.2 M
Completion:	December 2027
Budget:	\$29.6 M

Current Status: The second floor of the Existing structure was recently poured. Martin Horn is installing the roof of the addition and connecting it to the existing roof.

9. **SVWRRF Permit Modification Upgrades**

Design Engineer:	Short Elliot Hendrickson
Construction Contractor:	Orders Construction Co.
Construction Start:	<i>December</i> 2026
Percent Complete:	5%
Completion:	June 2027
Budget:	\$1.02 M

Current Status: Contractor is completing material submittals. They are scheduled to receive equipment and mobilize to the site in December.

10. **RMR Pool Raise**

Design Engineer:	Schnabel Engineering
Construction Contractor:	Faulconer Construction (Charlottesville, VA)
Construction Start:	September 2025
Percent Complete:	80%
Base Construction Contract+	
Change Order to Date = Current Value	\$12,329,000 - \$1,310,950 = \$11,018,050
Completion:	December 2026
Budget:	\$13.3 M

Current Status: Clean-up efforts for the fallen trees continue with anticipated completion in September. Construction of the expanded blanket drain system in the right abutment of the dam is in progress.

11. Sewer and Manhole Rehabilitation, Phase 2

Design Engineer:	CHA Consulting, Inc.
Construction Contractor:	Vortex Services, LLC (Chesapeake, VA)
Construction Start:	December 2025
Percent Complete:	85%
Base Construction Contract+	
Change Order to Date = Current Value	$\$1,439,440 + \$117,974 = 1,557,414$
Completion:	June 2027
Budget:	\$2.3 M

Current Status: Pipe rehabilitation continues along the Morey Creek Interceptor in Canterbury Road.

12. Crozet WTP GAC Expansion, Phase 1

Design Engineer:	SEH
Construction Contractor:	English Construction Company (Lynchburg, VA)
Construction Start:	March 2026
Percent Complete:	35%
Base Construction Contract +	
Change Orders to Date = Current Value	\$9,920,000
Completion:	May 2028
Budget:	\$12.2 M

Current Status: Concrete for the clearwell sump base slab was completed.

13. SVWRRF Generator Replacement

Design Engineer:	Wiley Wilson
Construction Contractor:	Carrick Contracting Corp. (Williamsburg, VA)
Construction Start:	April 2026
Percent Complete:	50%
Base Construction Contract +	
Change Orders to Date = Current Value	$\$825,245 - \$192,417 = \$632,828$
Completion:	June 2027
Budget:	\$1.36 M

Current Status: The duct bank and concrete pad have been completed. The generator is scheduled to arrive this month.

14. SRR to RMR Pipeline, Intake, and Facilities

Design Engineer:	Kimley Horn
Construction Contractor:	Garney Construction (Fairfax, VA)
Construction Start:	March 2026
Percent Complete:	25%
Completion:	December 2030
Base Construction Contract +	\$87,633,497
Change Orders to Date = Current Value	

Budget: \$107 M

Current Status: Pipe installation is nearing completion along Woodburn Road before transitioning to behind Greer Elementary School toward the end of September. Pipe installation along Colthurst Drive is ongoing. Construction of the new Permanganate Building at SRWTP continues.

15. Glenmore WRRF Upgrade, Phase 1

Design Engineer:	SEH
Construction Contractor:	Maverick Construction, LLC (Grasonville, MD)
Construction Start:	June 2026
Percent Complete:	75%
Base Construction Contract + Change Orders to Date = Current Value	\$1,067,125 + \$259,731 = \$1,326,856
Completion:	August 2027
Budget:	\$1.96 M

Current Status: Piping for the blower modifications and the Ultraviolet disinfection system have been completed. Start up and testing for the new blowers is underway.

16. OBWTP Sodium Hypochlorite Tanks Replacement

Design Engineer:	Short Elliott Hendrickson (SEH)
Construction Contractor:	Waco, Inc. (Sandston, VA)
Construction Start:	September 2026
Percent Complete:	10%
Base Construction Contract + Change Order to Date = Current Value:	\$227,000
Completion:	July 2027
Budget:	\$293,000

Current Status: Two hypochlorite tanks have been delivered. Due to drought conditions, construction is being pushed back 60 days to avoid the higher water demand conditions and ensure that the treatment plant remains at full capacity.

17. MC UV Disinfection System Replacement

Design Engineer:	RWSA Engineering
Construction Contractor:	RWSA Maintenance
Construction Start:	November 2026
Percent Complete:	0%
Completion:	June 2029
Budget:	\$1.98

Current Status: Project includes replacement of 8 ultraviolet disinfection light banks at MC which have reached the end of their useful service life. Staff will replace them over the next 3 fiscal years. Staff are obtaining manufacturer pricing and equipment lead times for the first set of UV banks. Slide gate repairs are needed in the UV channels before the new UV banks are installed.

18. SRWTP – PAC System Replacement

Design Engineer:	SEH
Construction Contractor	Waco, Inc (Sandston, VA)
Construction Start:	January 2027
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. Mobilization is anticipated in January 2027. The PAC silo is scheduled to be delivered in December 2026.

19. ISWRC Sediment Basin Repairs (RSWA)

Design Engineer:	SCS Engineering
Construction Contractor:	Ridgetop Excavating (Waynesboro, VA)
Construction Start:	October 2026
Percent Complete:	5%
Base Construction Contract +	
Change Orders to Date = Current Value	\$670,000
Completion:	December 2026
Budget:	\$1.05 M

Current Status: Work is anticipated to begin this month

20. SRWTP Flocc Basin Equipment Replacement

Design Engineer:	SEH
Project Start:	July 2025
Project Status:	Award
Construction Start:	January 2027
Completion:	June 2028
Budget:	\$2.9 M

Current Status: An award recommendation is included in this month's board packet.

Design and Bidding

21. Airport Rd Water Storage Tank and Pumps

Design Engineer:	SEH
Project Start:	December 2025
Project Status:	60% Design
Construction Start:	March 2027
Completion:	March 2029
Budget:	\$7.2 M

Current Status: Coordinating permits with Albemarle County staff for one 1 MG ground-level steel

water storage tank. Architectural Review Board approved the tank design. Completed geotechnical investigations. Preparing design documents and coordinating VDH Construction permit.

22. Central Water Line, Phase 2

Design Engineer:	Michael Baker International (Baker)
Project Start:	July 2024
Project Status:	90% Design
Construction Start:	March 2027
Completion:	December 2029
Budget:	\$21 M

Current Status: Resolving final site plan comments with the City. Easements on two City parcels will be requested from City Council.

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

Design Engineer:	Hazen
Project Start:	June 2023
Project Status:	100% Design
Construction Start:	March 2027
Completion:	December 2028
Budget:	\$10.2 M

Current Status: Design documents have been completed. Acquisition of a small parcel outside the MC fence line is needed for construction. Negotiations are underway.

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

Design Engineer:	Hazen
Project Start:	February 2018
Project Status:	100% Design
Construction Start:	March 2027
Completion:	December 2029
Budget:	\$39 M

Current Status: Final Plans and Specifications have been completed and are ready for advertisement this fall. Discussions with the County are underway regarding a lease for the Pump Station property. Easement acquisition for the raw water main from the pump station to the Crozet WTP is nearly complete with a “friendly” condemnation of the last remaining easement approved by the Board in June 2026. As requested by the Board, an archaeological survey of this easement will be completed in September/October prior to filing the Certificate of Take.

25. Beaver Creek Dam Spillway Modifications

Design Engineer:	Schnabel Engineering
Project Start:	February 2018
Project Status:	80% Design
Construction Start:	January 2030
Completion:	December 2032
Budget:	\$33.5 M

Current Status: Final design of the dam spillway upgrades is ongoing with efforts focusing on primary spillway riser modifications and changes to the spillway bridge design based on feedback from VDOT. A significant (\$20 M) construction grant from the NRCS is anticipated. Construction on this project will begin when the new Pump Station has been completed.

26. Upper Schenks Branch Interceptor, Phase 2

Design Engineer:	CHA Consulting
Project Start:	July 2021
Project Status:	Design
Construction Start:	2027
Completion:	2029
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.

27. Dam Concrete and Steel Repairs

Design Engineer:	GAI Consultants
Project Start:	January 2025
Project Status:	100% Design
Construction Start:	March 2027
Completion:	May 2028
Budget:	\$2.8 M

Current Status: Final Design Drawings are being completed for bid advertisement.

28. NR River Crossing and Piping

Design Engineer:	Kimley-Horn
Project Start:	December 2025
Project Status:	PER
Construction Start:	September 2027
Completion:	December 2030
Budget:	\$16.4 M

Current Status: Completed survey and utility designations. Began detailed layout for river crossing. Conducted permitting and design coordination meetings with VDOT. Developing conceptual layout for pipe route. Wetland delineation is proceeding. Completing final modeling to determine pipe diameter and total length determinations.

29. MC Blower Building Ventilation Replacement

Design Engineer:	Hazen
Project Start:	October 2025
Project Status:	PER
Construction Start:	<i>September 2027</i>
Completion:	<i>March 2029</i>
Budget:	\$1.13 M

Current Status: Hazen has received data on the existing blowers and will provide a preliminary engineering report on the necessary replacements.

30. Woodburn, Pantops, and Observatory Water Tank Painting

Design Engineer:	Whitman Requardt & Associates, LLP (WRA)
Project Start:	July 2026
Project Status:	PER
Construction Start:	<i>June 2027</i>
Completion:	June 2030
Budget:	\$6.12 M

Current Status: This month's board packet includes a request to authorize execution of a Service Authorization with WRA.

31. SRWTP Wastewater Connection

Design Engineer:	HDR
Project Start:	July 2026
Project Status:	PER
Construction Start:	March 2028
Completion:	June 2029
Budget:	\$1.1 M

Current Status: Project includes construction of a small-diameter sanitary sewer main that will allow disposal of residual sludge from the treatment process into the sanitary sewer in lieu of utilizing the belt press and hauling sludge off site. Preliminary engineering is underway.

32. Albemarle Berkeley WWPS Replacement

Design Engineer:	Wiley Wilson
Project Start:	July 2026
Project Status:	PER
Construction Start:	September 2027
Completion:	September 2029
Budget:	\$1.33 M

Current Status: Preliminary engineering is underway to replace the 1970s-vintage wastewater pump station. Relocation of the station may be required in collaboration with the ACPS Lambs Lane Master Plan. Staff are meeting this month with ACPS to discuss the project.

33. Berkmar Drive Waterline Betterment

Design Engineer:	Kimley-Horn
Project Start:	August 2024
Project Status:	70% Design
Construction Start:	March 2028
Completion:	March 2030
Budget:	\$1.76 M

Current Status: VDOT is acquiring right-of-way for the roadway extension and will advertise for bids in 2028. RWSA waterlines will be completed concurrently with the roadway project. RWSA is requesting VDOT to install two waterlines north of the Airport Road Pump Station based on Northern Area Modeling.

34. Emmet Street Waterline Betterment

Design Engineer:	Whitman, Requardt & Associates, LLP (RWSA) Clark Nexsen (City)
Project Start:	2019
Project Status:	100% Design
Construction Start:	April 2027
Completion:	March 2030
Budget:	\$7.4 M

Current Status: Staff are reviewing 100% design drawings for a water main that will be installed as part of the City's Emmet Streetscape project, with advertisement anticipated in late 2026. Permitting efforts with VDH and CSX Railroad are underway.

35. Dam Public Safety Improvements

Design Engineer:	Hazen
Project Start:	July 2025
Project Status:	PER
Construction Start:	June 2027
Completion:	December 2028
Budget:	\$3.85 M

Current Status: Project includes sirens, signage, boat barriers, and other public safety features at Sugar Hollow, South Rivanna, and Ragged Mtn reservoir dams. Preliminary engineering is underway.

36. CZWTP Disinfection Improvements

Design Engineer:	SEH
Project Start:	July 2025
Project Status:	30% Design
Construction Start:	June 2027
Completion:	December 2028
Budget:	\$1 M

Current Status: Design for two UV disinfection units is underway.

37. Buck's Elbow and Waterball Tank Repairs and Painting

Design Engineer:	Whitman, Requardt & Associates, LLP
Project Start:	July 2026
Project Status:	PER
Construction Start:	June 2027
Completion:	<i>September 2029</i>
Budget:	\$1.99 M

Current Status: This month's board packet includes a request to authorize execution of a Service Authorization with WRA.

38. Northern Convenience Center (RSWA)

Design Engineer:	TRC Companies Inc.
Project Start:	August 2024
Project Status:	100% Design
Construction Start:	September 2027
Completion:	June 2029
Budget:	\$1.8 M

Current Status: Design drawings have been completed. The Water Protection Ordinance (WPO) plan is currently under County review.

39. ISWRC Scale House Renovation (RSWA)

Design Engineer:	Train Architects
Project Start:	February 2026
Project Status:	Final Design/Planning
Construction Start:	<i>July 2027</i>
Completion:	<i>June 2028</i>
Budget:	TBD

Current Status: The design has been completed and a cost proposal has been requested from our On-Call Construction Contractor.

40. MC Security Improvements - Front Gate

Design Engineer:	Hazen
Project Start:	2021
Project Status:	99% Design
Construction Start:	April 2028
Completion:	December 2029
Budget:	\$0.72 M

Current Status: Project includes additional security gates, card access, and other security features at the entrance to MC to prevent unauthorized traffic from entering the facility. Design for this work is complete, and work will begin once the current construction projects at MC are completed due to the number of contractors that are passing through the existing gates daily.

41. North Rivanna Water Treatment Plant Decommissioning

Design Engineer:	SEH
Project Start:	July 2024
Project Status:	90% Design
Construction Start:	July 2029
Completion:	June 2031
Budget:	\$3.5 M

Current Status: Demolition plans for the North Rivanna WTP are 90% complete with further design on hold pending completion of northern area projects. Design for removal of the North Rivanna low head dam is underway with grant funds anticipated from the US Fish and Wildlife Service.

42. Urban Water Storage Tank Improvements

Design Engineer:	SEH
Project Start:	July 2026
Project Status:	PER
Construction Start:	June 2028
Completion:	December 2030
Budget:	\$5.5 M

Current Status: Project will evaluate RWSA's finished water storage capacity to determine where additional tanks may be needed to improve operations. Construction of up to two water tanks is included in this project.

43. Powell Creek Interceptor Upgrade (PC 1- 5)

Design Engineer:	Hazen
Project Start:	December 2025
Project Status:	PER
Construction Start:	TBD
Completion:	TBD
Budget:	\$16.4 M

Current Status: Developing scope of work to replace certain sections of this sewer pipe.

44. Northern Area Pressure Zone

Design Engineer:	TBD
Project Start:	TBD
Project Status:	TBD
Construction Start:	June 2028
Completion:	December 2031
Budget:	\$8 M

Current Status: Developing a scope of work.

Planning and Studies

45. Crozet Drinking Water Infrastructure Plan Update

Design Engineer:	Hazen
Project Start:	September 2025
Project Status:	99%
Completion:	October 2026
Budget:	\$450,000

Current Status: The Crozet Area Demand Forecast report is complete. The full Drinking Water Infrastructure Plan Update Report is anticipated by October.

46. Flood Protection Resiliency Study

Design Engineer:	Hazen
Project Start:	August 2024
Project Status:	Preliminary Engineering/Study
Completion:	June 2026 (MC)
Budget:	\$500,000

Current Status: This project identified flood mitigation measures for various facilities to increase their resiliency from a 1% (100-year) to a 0.2% (500-year) flooding event and is initially focusing on facilities located at Moores Creek. Hazen completed the draft report that details and recommends methods of floodproofing. Staff met with Hazen to discuss the report and edits are being finalized. This project received \$248,708.80 in grant funding from FEMA and VDEM. As the study for MC is being completed, a study is being scoped for additional RWSA facilities, including GWRRF, SVWRRF, CZWWPS2, and the Crozet FET.

47. ISWRC Site Improvements and Repairs (RSA)

Design Engineer:	SCS Engineering
Project Start:	July 2026
Project Status:	Preliminary Design
Construction Start:	TBD
Completion:	TBD
Budget:	\$250,000

Current Status: This project will include preliminary evaluation of several improvements at the Ivy Solid Waste and Recycling Center including a new road to the transfer station, improvements to the Ivy Convenience Center, landfill cap repairs, and closure of the existing leachate pond.



TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: BETHANY HOUCHENS, WATER RESOURCES COORDINATOR

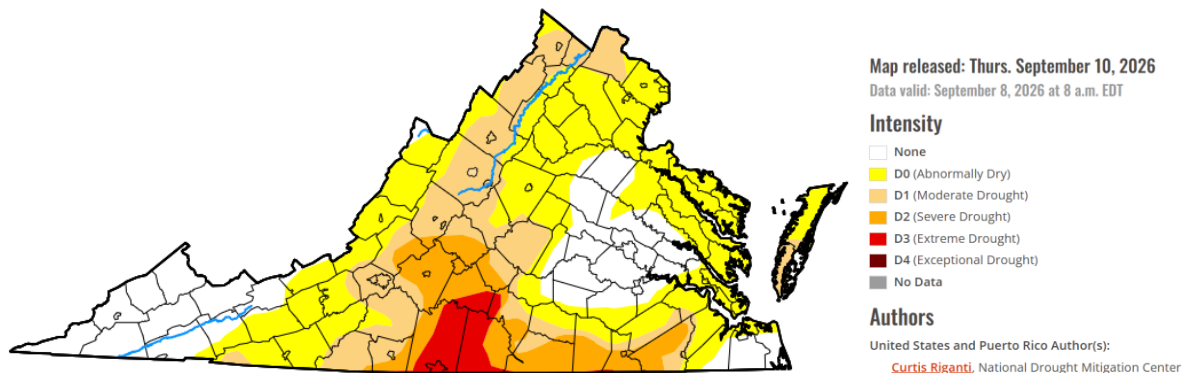
REVIEWED: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: DROUGHT MONITORING REPORT

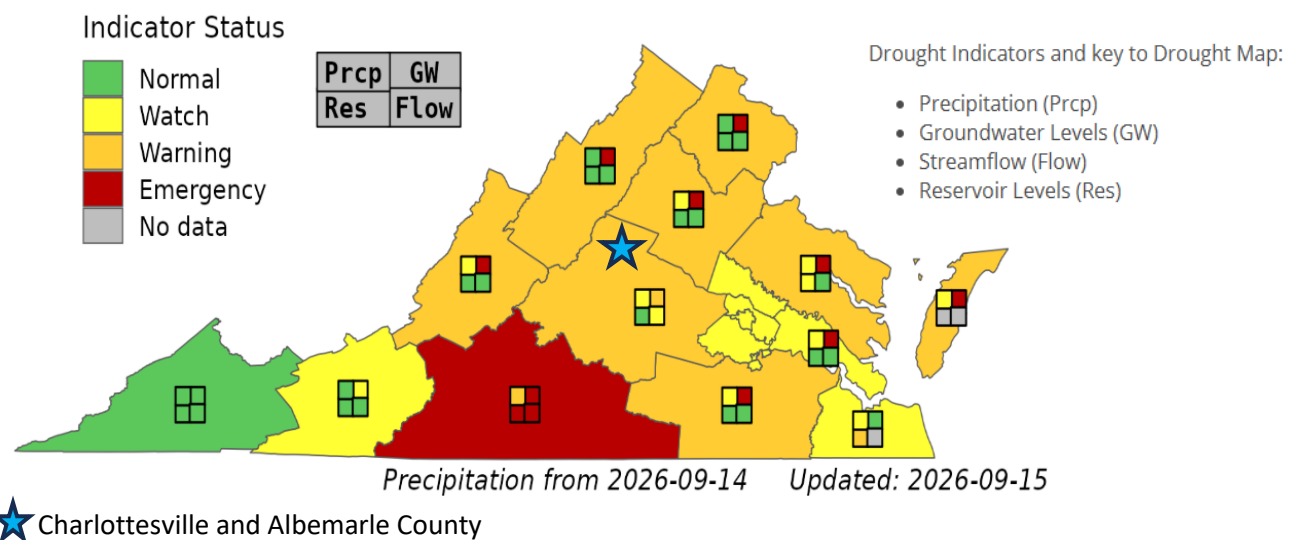
DATE: SEPTEMBER 22, 2026

State and Federal Drought Monitoring as of September 16, 2026:

- U.S. Drought Monitoring Report: Indicates Albemarle County and the City of Charlottesville are in abnormally dry conditions.



- VDEQ Drought Status Report: Our Middle James region is listed as having “Normal” reservoir levels. Precipitation and Stream Flow levels are in a “Watch” status and Groundwater level is in a “Warning” status.



Precipitation & Stream Flows

Local Precipitation					
Year	Month	Observed (in.)	Normal (in.)	Departure (in.)	Comparison to Normal (%)
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 - Dec	32.59	41.61	-9.02	-22
2026	Jan – Aug	25.59	27.94	-2.35	-8

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

Local Precipitation Summary				
4.5 Year Period	Observed (in.)	Normal (in.)	Departure (in.)	Comparison to Normal (%)
Jan 2022 – Aug 2026	168.22	194.25	-26.03	-14%

USGS Stream Gaging Station Near the Urban Area (Sept 5- Sept 11)				
Gage Name	Current		2022-2025	
	Rolling 7-day Avg. Stream Flow		Mean Streamflow	
	cfs	mgd	cfs	mgd
Mechums River	17.3	11.2	115.8	100.7
Moormans River	5.5	3.6	49.5	32
NF Rivanna River	17.3	11.2	55.4	35.8
SF Rivanna River	18.2	11.8	196.8	127.2

Status of Reservoirs as of September 14, 2026

- Urban Reservoirs are 91% of Useable Capacity
- Beaver Creek Reservoir (Crozet) is 86% of Useable Capacity
- Totier Creek Reservoir (Scottsville) is 100% of Useable Capacity

Drought History in Central Virginia

- Severe: 1838, 1930, 1941, 1966, 1979, 2002, 2026
- 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: LONNIE WOOD, DIRECTOR OF FINANCE

REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: JULY MONTHLY FINANCIAL SUMMARY – FY 2027

DATE: SEPTEMBER 22, 2026

Financial Snapshot

The Authority's actual operating revenues for July are \$239,000 over the prorated annual budget estimates, and operating expenses are \$431,000 over the prorated budget, resulting in an operating deficit of \$192,000. Urban Water flows and operating rate revenue for this month are 28% over budget estimates. Urban Wastewater flows and operating rate revenue are 10% under budget. Revenues and expenses are summarized in the table below:

July 2026 Year-to-Date Budget vs Actual Results:

	Budget	Actual	Variance
Operations			
Revenues	\$ 2,755,744	\$ 2,995,074	\$ 239,330
Expenses	2,755,744	3,186,788	(431,044)
Surplus (deficit)	<u>\$ -</u>	<u>\$ (191,714)</u>	<u>\$ (191,714)</u>
Debt Service			
Revenues	\$ 3,255,547	\$ 3,346,267	\$ 90,720
Expenses	3,255,547	3,223,928	31,619
Surplus (deficit)	<u>\$ -</u>	<u>\$ 122,339</u>	<u>\$ 122,339</u>
Total			
Revenues	\$ 6,011,291	\$ 6,341,341	\$ 330,050
Expenses	6,011,291	6,410,716	(399,425)
Surplus (deficit)	<u>\$ -</u>	<u>\$ (69,375)</u>	<u>\$ (69,375)</u>

A more detailed financial analysis is in the following monthly report and reviews more closely actual financial performance compared to budgeted estimates. There are comments listed that will reference the applicable line items in the financial statement for each rate center and each support department in the following pages. Please refer to the Budget vs Actual financial statements when reviewing these comments.

Detailed Financials

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

- A. Annual and Quarterly Transactions - Some revenues and expenses exceed the prorated annual budget due to up-front annual receipts of revenue and quarterly or annual payments of expenses. These transactions appear to significantly impact the budget vs. actual monthly comparisons, but they usually even out as the year progresses. Septage receiving support revenue of \$109,440 is billed to the County annually in July. Annual payments are made in July for certain maintenance agreements and for employer contributions to employees' health savings accounts. The annual payment to UVA for the Observatory WTP lease (\$175,000) was recorded in July. Insurance premiums are generally paid at the beginning of each quarter.
- B. Personnel Costs – (all departments) - The prorated budget for salaries through July are calculated as 1/12 (or 8.3%) of the annual budget on these financial statements. However, actual payroll is paid biweekly, and there have been 3 out of 26 total pay periods through July (or 11.5%). This 3.2% difference affects the comparison of budget vs. actual payroll costs. For several departments, salaries are over the prorated budget, but those overages are reduced by health insurance premium rebates. The Lab Department is also over the prorated budget for salaries due to the final leave payout to the lab manager upon retirement.
- C. Other Services and Charges (Urban Wastewater – page 5) – Urban Wastewater is currently \$20,000 over the prorated budget in this category due to the July payment of quarterly insurance premium as reference in A. above.
- D. Communication – (Finance – page 9) – The Finance department appears to be \$13,000 over the prorated budget and 9,000 over the annual budget for telephone and data service costs while the Information Technology department is under budget by \$6,000 due to a classification error that will be corrected to be more in line with the budget.
- E. Information Technology (Information Technology – page 12) – The IT department is over the prorated budget due to a large computer hardware purchase.
- F. Operations and Maintenance (Urban Water, Urban Wastewater – pages 2, 5) – Urban Water is currently over the prorated budget due to the annual payment this month to UVA for the Observatory WTP lease, as noted in paragraph A. higher than estimated line break repairs and other equipment maintenance and repair costs. Urban Wastewater is over the prorated budget due to a large purchase of chemicals.

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026
Fiscal Year 2027

Consolidated
Revenues and Expenses Summary

<i>Budget</i>	<i>Budget</i>	<i>Actual</i>	<i>Budget</i>	<i>Variance</i>
<i>FY 2027</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	\$	30,752,928	\$	2,562,744	\$	2,764,996	\$	202,252	7.89%
Lease Revenue		120,000		10,000		10,514		514	5.14%
Admin, Finance, Maint, Eng, and IT Revenue		1,276,700		106,392		116,000		9,609	9.03%
Other Revenues		673,602		56,134		64,540		8,407	14.98%
Interest Allocation		245,700		20,475		39,024		18,549	90.59%
Total Operating Revenues	\$	33,068,930	\$	2,755,744	\$	2,995,074	\$	239,330	8.68%

Expenses

Personnel Cost	B	\$	15,354,152	\$	1,279,513	\$	1,773,418	\$	(493,905)	-38.60%
Professional Services			859,500		71,625		54,331		17,294	24.14%
Other Services & Charges	A,C		5,011,402		417,617		400,742		16,875	4.04%
Communication	D		362,456		30,205		33,742		(3,538)	-11.71%
Information Technology	E		2,590,579		215,882		207,070		8,812	4.08%
Supplies			55,669		4,639		3,363		1,276	27.51%
Operations & Maintenance	A,F		6,790,751		565,896		591,969		(26,073)	-4.61%
Equipment Purchases			1,009,431		84,119		35,903		48,216	57.32%
Depreciation			1,035,000		86,250		86,250		-	0.00%
Total Operating Expenses		\$	33,068,940	\$	2,755,745	\$	3,186,788	\$	(431,043)	-15.64%
Operating Surplus/(Deficit)		\$	(10)	\$	(1)	\$	(191,714)			

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$	36,983,319	\$	3,081,943	\$	3,081,944	\$	1	0.00%
Septage Receiving Support - County		109,440		9,120		109,440		100,320	1100.00%
Buck Mountain Lease Revenue		10,000		833		-		(833)	-100.00%
Trust Fund Interest		355,207		29,601		24,002		(5,599)	-18.92%
Reserve Fund Interest		1,608,600		134,050		130,881		(3,169)	-2.36%
Total Debt Service Revenues	\$	39,066,566	\$	3,255,547	\$	3,346,267	\$	90,720	2.79%

Debt Service Costs

Total Principal & Interest	\$	21,162,463	\$	1,763,539	\$	1,763,539	\$	-	0.00%
Reserve Additions-Interest		1,950,000		162,500		130,881		31,619	19.46%
Debt Service Ratio Charge		1,505,000		125,417		125,417		-	0.00%
Reserve Additions-CIP Growth		14,449,100		1,204,092		1,204,092		-	0.00%
Total Debt Service Costs	\$	39,066,563	\$	3,255,547	\$	3,223,928	\$	31,619	0.97%
Debt Service Surplus/(Deficit)	\$	3	\$	0	\$	122,339			

Summary

Total Revenues	\$	72,135,496	\$	6,011,291	\$	6,341,341	\$	330,050	5.49%
Total Expenses		72,135,503		6,011,292		6,410,717		(399,425)	-6.64%
Surplus/(Deficit)	\$	(7)	\$	(1)	\$	(69,375)			

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Urban Water Rate Center
Revenues and Expenses Summary

Budget FY 2027	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		\$	13,393,013	\$	1,116,084	\$	1,428,837	\$	312,753	28.02%
Lease Revenue			90,000		7,500		7,594		94	1.26%
Grants			-		-		-		-	
Other Revenue			-		-		-		-	
Interest Allocation			104,300		8,692		16,546		7,854	90.37%
Total Operating Revenues		\$	13,587,313	\$	1,132,276	\$	1,452,977	\$	320,701	28.32%
Expenses										
Personnel Cost	B	\$	2,815,331	\$	234,611	\$	357,978	\$	(123,367)	-52.58%
Professional Services			234,500		19,542		9,419		10,123	51.80%
Other Services & Charges			1,178,826		98,236		82,954		15,282	15.56%
Communications			104,600		8,717		8,666		51	0.59%
Information Technology			156,437		13,036		11,503		1,534	11.76%
Supplies			10,500		875		187		688	78.59%
Operations & Maintenance	A,F		3,459,123		288,260		347,702		(59,442)	-20.62%
Equipment Purchases			33,100		2,758		2,758		0	0.00%
Depreciation			325,000		27,083		27,083		0	0.00%
Subtotal Before Allocations		\$	8,317,417	\$	693,118	\$	848,250	\$	(155,132)	-22.38%
Allocation of Support Departments			5,269,896		439,158		552,592		(113,434)	-25.83%
Total Operating Expenses		\$	13,587,313	\$	1,132,276	\$	1,400,841	\$	(268,565)	-23.72%
Operating Surplus/(Deficit)		\$	(0)	\$	(0)	\$	52,136			

Debt Service Budget vs. Actual

Revenues									
Debt Service Rate Revenue	\$	19,204,672	\$	1,600,389	\$	1,600,390	\$	1	0.00%
Trust Fund Interest		149,000		12,417		10,059		(2,358)	-18.99%
Reserve Fund Interest		829,200		69,100		67,404		(1,696)	-2.45%
Lease Revenue		10,000		833		-		(833)	-100.00%
Total Debt Service Revenues		\$ 20,192,872		\$ 1,682,739		\$ 1,677,853		\$ (4,886)	-0.29%
Debt Service Costs									
Total Principal & Interest	\$	8,898,121	\$	741,510	\$	741,510	\$	-	0.00%
Reserve Additions-Interest		829,200		69,100		67,404		1,696	2.45%
Debt Service Ratio Charge		760,000		63,333		63,333		-	0.00%
Est. New Debt Service - CIP Growth		9,705,550		808,796		808,796		-	0.00%
Total Debt Service Costs		\$ 20,192,871		\$ 1,682,739		\$ 1,681,043		\$ 1,696	0.10%
Debt Service Surplus/(Deficit)		\$ 1		\$ 0		\$ (3,190)			

Rate Center Summary

Total Revenues	\$	33,780,185	\$	2,815,015	\$	3,130,830	\$	315,815	11.22%
Total Expenses		33,780,184		2,815,015		3,081,885		(266,869)	-9.48%
Surplus/(Deficit)		\$ 1		\$ 0		\$ 48,946			
Costs per 1000 Gallons	\$	4.00			\$	3.86			
Operating and DS	\$	9.94			\$	8.50			
Thousand Gallons Treated		3,397,700		283,142		362,464		79,322	28.02%
or									
Flow (MGD)		9.309				11.692			

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Crozet Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2027</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	\$ 1,696,632	\$ 141,386	\$ 141,386	\$ -	0.00%
Lease Revenue	30,000	2,500	2,920	420	16.78%
Other Revenue	-	-	-	-	
Interest Allocation	13,300	1,108	2,107	999	90.13%
Total Operating Revenues	\$ 1,739,932	\$ 144,994	\$ 146,413	\$ 1,418	0.98%

Expenses

Personnel Cost	B \$ 394,763	\$ 32,897	\$ 50,247	\$ (17,350)	-52.74%
Professional Services	30,000	2,500	749	1,751	70.03%
Other Services & Charges	163,296	13,608	2,587	11,021	80.99%
Communications	18,000	1,500	1,200	300	19.98%
Information Technology	69,400	5,783	-	5,783	100.00%
Supplies	3,000	250	131	119	47.75%
Operations & Maintenance	510,305	42,525	27,214	15,312	36.01%
Equipment Purchases	3,800	317	317	(0)	0.00%
Depreciation	65,000	5,417	5,417	(0)	0.00%
Subtotal Before Allocations	\$ 1,257,564	\$ 104,797	\$ 87,860	\$ 16,937	16.16%
Allocation of Support Departments	482,367	40,197	50,324	(10,127)	-25.19%
Total Operating Expenses	\$ 1,739,931	\$ 144,994	\$ 138,184	\$ 6,810	4.70%
Operating Surplus/(Deficit)	\$ 1	\$ 0	\$ 8,228		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 3,753,660	\$ 312,805	\$ 312,805	\$ -	0.00%
Trust Fund Interest	18,800	1,567	1,272	(295)	-18.80%
Reserve Fund Interest	159,100	13,258	12,957	(301)	-2.27%
Total Debt Service Revenues	\$ 3,931,560	\$ 327,630	\$ 327,034	\$ (596)	-0.18%

Debt Service Costs

Total Principal & Interest	\$ 1,126,956	\$ 93,913	\$ 93,913	\$ -	0.00%
Reserve Additions-Interest	159,100	13,258	12,957	301	2.27%
Estimated New Principal & Interest	2,645,500	220,458	220,458	-	0.00%
Total Debt Service Costs	\$ 3,931,556	\$ 327,630	\$ 327,329	\$ 301	0.09%
Debt Service Surplus/(Deficit)	\$ 4	\$ 0	\$ (294)		

Rate Center Summary

Total Revenues	\$ 5,671,492	\$ 472,624	\$ 473,447	\$ 823	0.17%
Total Expenses	5,671,487	472,624	465,513	7,111	1.50%
Surplus/(Deficit)	\$ 5	\$ 0	\$ 7,934		
Costs per 1000 Gallons	\$ 7.47		\$ 6.20		
Operating and DS	\$ 24.34		\$ 20.89		
Thousand Gallons Treated	233,042	19,420	22,287	2,867	14.76%
Flow (MGD)	0.638		0.719		

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Scottsville Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2027</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	\$	1,065,564	\$	88,797	\$	88,797	\$	-	0.00%
Other Revenue		-		-		-		-	
Interest Allocation		7,100		592		1,132		540	91.27%
Total Operating Revenues	\$	1,072,664	\$	89,389	\$	89,929	\$	540	0.60%

Expenses

Personnel Cost	B	\$	258,463	\$	21,539	\$	32,972	\$	(11,433)	-53.08%
Professional Services			15,000		1,250		694		556	44.51%
Other Services & Charges			62,632		5,219		2,551		2,668	51.11%
Communications			27,400		2,283		2,451		(168)	-7.35%
Information Technology			67,700		5,642		-		5,642	100.00%
Supplies			2,169		181		54		126	69.96%
Operations & Maintenance			195,896		16,325		4,316		12,008	73.56%
Equipment Purchases			112,400		9,367		372		8,995	96.03%
Depreciation			45,000		3,750		3,750		-	0.00%
Subtotal Before Allocations		\$	786,660	\$	65,555	\$	47,160	\$	18,395	28.06%
Allocation of Support Departments			286,007		23,834		29,165		(5,332)	-22.37%
Total Operating Expenses		\$	1,072,668	\$	89,389	\$	76,326	\$	13,063	14.61%
Operating Surplus/(Deficit)		\$	(4)	\$	(0)	\$	13,603			

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$	396,492	\$	33,041	\$	33,041	\$	-	0.00%
Trust Fund Interest		2,500		208		168		(40)	-19.36%
Reserve Fund Interest		4,300		358		393		34	9.58%
Total Debt Service Revenues	\$	403,292	\$	33,608	\$	33,602	\$	(6)	-0.02%

Debt Service Costs

Total Principal & Interest	\$	148,196	\$	12,350	\$	12,350	\$	-	0.00%
Reserve Additions-Interest		250,800		20,900		393		20,507	98.12%
Estimated New Principal & Interest		4,300		358		358		-	0.00%
Total Debt Service Costs	\$	403,296	\$	33,608	\$	13,101	\$	20,507	61.02%
Debt Service Surplus/(Deficit)	\$	(4)	\$	(0)	\$	20,501			

Rate Center Summary

Total Revenues	\$	1,475,956	\$	122,996	\$	123,530	\$	534	0.43%
Total Expenses		1,475,964		122,997		89,426		33,571	27.29%
Surplus/(Deficit)	\$	(8)	\$	(1)	\$	34,104			
Costs per 1000 Gallons	\$	54.38			\$	29.39			
Operating and DS	\$	74.82			\$	34.43			
Thousand Gallons Treated		19,726		1,644		2,597		953	57.98%
or									
Flow (MGD)		0.054				0.084			

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Urban Wastewater Rate Center
Revenues and Expenses Summary

Budget FY 2027	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	\$ 13,293,067	\$ 1,107,756	\$ 997,255	\$ (110,500)	-9.98%
Stone Robinson WWTP	23,602	1,967	1,396	(571)	-29.02%
Septage Acceptance	600,000	50,000	63,144	13,144	26.29%
Nutrient Credits	50,000	4,167	-	(4,167)	-100.00%
Miscellaneous Revenue	-	-	-	-	
Interest Allocation	111,300	9,275	17,678	8,403	90.60%
Total Operating Revenues	\$ 14,077,969	\$ 1,173,164	\$ 1,079,473	\$ (93,691)	-7.99%

Expenses

Personnel Cost	B	\$ 1,815,234	\$ 151,269	\$ 200,908	\$ (49,638)	-32.81%
Professional Services		205,000	17,083	22,522	(5,439)	-31.84%
Other Services & Charges	A,C	3,152,566	262,714	280,005	(17,291)	-6.58%
Communications		21,600	1,800	234	1,566	86.99%
Information Technology		184,672	15,389	5,056	10,334	67.15%
Supplies		-	-	56	(56)	#DIV/0!
Operations & Maintenance	F	1,888,996	157,416	181,421	(24,004)	-15.25%
Equipment Purchases		405,241	33,770	10,338	23,432	69.39%
Depreciation		495,000	41,250	41,250	-	0.00%
Subtotal Before Allocations		\$ 8,168,309	\$ 680,692	\$ 741,790	\$ (61,097)	-8.98%
Allocation of Support Departments		5,909,661	492,472	611,242	(118,770)	-24.12%
Total Operating Expenses		\$ 14,077,970	\$ 1,173,164	\$ 1,353,031	\$ (179,867)	-15.33%
Operating Surplus/(Deficit)		\$ (1)	\$ (0)	\$ (273,558)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 13,240,667	\$ 1,103,389	\$ 1,103,389	\$ 0	0.00%
Septage Receiving Support - County	109,440	9,120	109,440	100,320	1100.00%
Trust Fund Interest	184,500	15,375	12,474	(2,901)	-18.87%
Reserve Fund Interest	612,200	51,017	49,866	(1,151)	-2.26%
Total Debt Service Revenues	\$ 14,146,807	\$ 1,178,901	\$ 1,275,168	\$ 96,268	8.17%

Debt Service Costs

Total Principal & Interest	\$ 10,963,959	\$ 913,663	\$ 913,663	\$ -	0.00%
Reserve Additions-Interest	612,200	51,017	49,866	1,151	2.26%
Debt Service Ratio Charge	745,000	62,083	62,083	-	0.00%
Est. New Debt Service - CIP Growth	1,825,650	152,138	152,138	-	0.00%
Total Debt Service Costs	\$ 14,146,809	\$ 1,178,901	\$ 1,177,750	\$ 1,151	0.10%
Debt Service Surplus/(Deficit)	\$ (2)	\$ (0)	\$ 97,419		

Rate Center Summary

Total Revenues	\$ 28,224,776	\$ 2,352,065	\$ 2,354,642	\$ 2,577	0.11%
Total Expenses	28,224,779	2,352,065	2,530,781	(178,716)	-7.60%
Surplus/(Deficit)	\$ (3)	\$ (0)	\$ (176,139)		
Costs per 1000 Gallons	\$ 4.15		\$ 5.32		
Operating and DS	\$ 8.32		\$ 9.95		
Thousand Gallons Treated	3,390,400	282,533	254,337	(28,196)	-9.98%
or					
Flow (MGD)	9.289		8.204		

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Glenmore Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2027</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	\$ 745,380	\$ 62,115	\$ 62,115	\$ -	0.00%
Interest Allocation	5,600	467	898	431	92.33%
Total Operating Revenues	\$ 750,980	\$ 62,582	\$ 63,013	\$ 431	0.69%

Expenses

Personnel Cost	\$ 151,487	\$ 12,624	\$ 16,549	\$ (3,925)	-31.09%
Professional Services	10,000	833	42	792	95.00%
Other Services & Charges	46,313	3,859	3,844	15	0.40%
Communications	23,400	1,950	1,801	149	7.64%
Information Technology	65,286	5,441	-	5,441	100.00%
Supplies	-	-	-	-	-
Operations & Maintenance	148,836	12,403	5,284	7,119	57.39%
Equipment Purchases	3,550	296	296	0	0.00%
Depreciation	80,000	6,667	6,667	(0)	0.00%
Subtotal Before Allocations	\$ 528,872	\$ 44,073	\$ 34,482	\$ 9,590	21.76%
Allocation of Support Departments	222,114	18,509	22,261	(3,751)	-20.27%
Total Operating Expenses	\$ 750,986	\$ 62,582	\$ 56,743	\$ 5,839	9.33%
Operating Surplus/(Deficit)	\$ (6)	\$ (0)	\$ 6,269		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 282,696	\$ 23,558	\$ 23,558	\$ -	0.00%
Trust Fund Interest	307	26	22	(4)	-15.57%
Reserve Fund Interest	-	-	-	-	-
Total Debt Service Revenues	\$ 283,003	\$ 23,584	\$ 23,580	\$ (4)	-0.02%

Debt Service Costs

Total Principal & Interest	\$ 18,701	\$ 1,558	\$ 1,558	\$ -	0.00%
Estimated New Principal & Interest	264,300	22,025	22,025	-	0.00%
Reserve Additions-Interest	-	-	-	-	-
Total Debt Service Costs	\$ 283,001	\$ 23,583	\$ 23,583	\$ -	0.00%
Debt Service Surplus/(Deficit)	\$ 2	\$ 0	\$ (4)		

Rate Center Summary

Total Revenues	\$ 1,033,983	\$ 86,165	\$ 86,592	\$ 427	0.50%
Total Expenses	1,033,987	86,166	80,327	5,839	6.78%
Surplus/(Deficit)	\$ (4)	\$ (0)	\$ 6,265		
Costs per 1000 Gallons	\$ 17.41		\$ 12.73		
Operating and DS	\$ 23.97		\$ 18.01		
Thousand Gallons Treated or Flow (MGD)	43,136	3,595	4,459	864	24.04%
	0.118		0.144		

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Scottsville Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2027</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	\$ 559,272	\$ 46,606	\$ 46,606	\$ -	0.00%
Interest Allocation	4,100	342	663	322	94.17%
Total Operating Revenues	\$ 563,372	\$ 46,948	\$ 47,269	\$ 322	0.69%

Expenses

Personnel Cost	\$ 151,160	\$ 12,597	\$ 16,549	\$ (3,952)	-31.37%
Professional Services	5,000	417	42	375	90.01%
Other Services & Charges	32,314	2,693	2,092	601	22.31%
Communications	7,400	617	3	614	99.53%
Information Technology	25,036	2,086	-	2,086	100.00%
Supplies	-	-	-	-	
Operations & Maintenance	104,606	8,717	3,480	5,237	60.08%
Equipment Purchases	3,550	296	296	0	0.00%
Depreciation	25,000	2,083	2,083	0	0.00%
Subtotal Before Allocations	\$ 354,066	\$ 29,505	\$ 24,545	\$ 4,961	16.81%
Allocation of Support Departments	209,307	17,442	21,117	(3,675)	-21.07%
Total Operating Expenses	\$ 563,372	\$ 46,948	\$ 45,662	\$ 1,286	2.74%
Operating Surplus/(Deficit)	\$ (0)	\$ (0)	\$ 1,607		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 105,132	\$ 8,761	\$ 8,761	\$ -	0.00%
Trust Fund Interest	100	8	7	(1)	-13.60%
Reserve Fund Interest	3,800	317	262	(55)	-17.34%
Total Debt Service Revenues	\$ 109,032	\$ 9,086	\$ 9,030	\$ (56)	-0.62%

Debt Service Costs

Total Principal & Interest	\$ 6,530	\$ 544	\$ 544	\$ -	0.00%
Reserve Additions-Interest	98,700	8,225	262	7,963	96.82%
Estimated New Principal & Interest	3,800	317	317	-	0.00%
Total Debt Service Costs	\$ 109,030	\$ 9,086	\$ 1,123	\$ 7,963	87.64%
Debt Service Surplus/(Deficit)	\$ 2	\$ 0	\$ 7,907		

Rate Center Summary

Total Revenues	\$ 672,404	\$ 56,034	\$ 56,299	\$ 266	0.47%
Total Expenses	672,402	56,034	46,785	9,249	16.51%
Surplus/(Deficit)	\$ 2	\$ 0	\$ 9,515		
Costs per 1000 Gallons	\$ 25.22		\$ 31.64		
Operating and DS	\$ 30.10		\$ 32.42		
Thousand Gallons Treated or Flow (MGD)	22,337	1,861	1,443	(418)	-22.48%
	0.061		0.047		

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Administration and Communication

<i>Budget FY 2027</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	\$	444,400	\$	37,033	\$	37,285	\$	252	0.68%
Grants						-		-	
Miscellaneous Revenue		-		-		-		-	
Total Operating Revenues	\$	444,400	\$	37,033	\$	37,285	\$	252	0.68%

Expenses

Personnel Cost	B	\$	1,869,274	\$	155,773	\$	202,218	\$	(46,445)	-29.82%
Professional Services			124,000		10,333		3,147		7,187	69.55%
Other Services & Charges			227,805		18,984		13,359		5,625	29.63%
Communications			8,200		683		264		419	61.35%
Information Technology			23,000		1,917		2,292		(375)	-19.58%
Supplies			15,500		1,292		733		559	43.29%
Operations & Maintenance			70,500		5,875		3,747		2,128	36.23%
Equipment Purchases			18,150		1,513		1,513		-	0.00%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	2,356,429	\$	196,369	\$	227,271	\$	(30,902)	-15.74%

Department Summary

Net Costs Allocable to Rate Centers		\$	(1,912,029)	\$	(159,336)	\$	(189,986)	\$	(30,650)	19.24%
<u>Allocations to the Rate Centers</u>										
Urban Water	44.00%	\$	841,293	\$	70,108	\$	83,594	\$	(13,486)	
Crozet Water	4.00%	\$	76,481		6,373		7,599		(1,226)	
Scottsville Water	2.00%	\$	38,241		3,187		3,800		(613)	
Urban Wastewater	48.00%	\$	917,774		76,481		91,193		(14,712)	
Glenmore Wastewater	1.00%	\$	19,120		1,593		1,900		(307)	
Scottsville Wastewater	1.00%	\$	19,120		1,593		1,900		(307)	
	100.00%	\$	1,912,029	\$	159,336	\$	189,986	\$	(30,650)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Finance

<i>Budget FY 2027</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	\$	314,400	\$	26,200	\$	26,200	\$	-	0.00%
Bond Proceeds Funding Bond Issuance Costs		-		-		-		-	
Miscellaneous Revenue		-		-		37		37	
Total Operating Revenues	\$	314,400	\$	26,200	\$	26,237	\$	37	0.14%

Expenses

Personnel Cost	B	\$	1,135,507	\$	94,626	\$	132,807	\$	(38,181)	-40.35%
Professional Services			126,000		10,500		8,430		2,070	19.71%
Other Services & Charges			52,850		4,404		2,931		1,473	33.45%
Communication	D		4,000		333		13,019		(12,685)	-3805.60%
Information Technology			30,000		2,500		1,410		1,090	43.61%
Supplies			11,000		917		613		304	33.16%
Operations & Maintenance			3,750		313		-		313	100.00%
Equipment Purchases			-		-		-		-	#DIV/0!
Depreciation			-		-		-		-	
Total Operating Expenses		\$	1,363,107	\$	113,592	\$	159,209	\$	(45,617)	-40.16%

Department Summary

Net Costs Allocable to Rate Centers		\$	(1,048,707)	\$	(87,392)	\$	(132,972)	\$	(45,580)	52.16%
<u>Allocations to the Rate Centers</u>										
Urban Water	44.00%	\$	461,431	\$	38,453	\$	58,508	\$	(20,055)	
Crozet Water	4.00%	\$	41,948		3,496		5,319		(1,823)	
Scottsville Water	2.00%	\$	20,974		1,748		2,659		(912)	
Urban Wastewater	48.00%	\$	503,379		41,948		63,827		(21,878)	
Glenmore Wastewater	1.00%	\$	10,487		874		1,330		(456)	
Scottsville Wastewater	1.00%	\$	10,487		874		1,330		(456)	
	100.00%	\$	1,048,707	\$	87,392	\$	132,972	\$	(45,580)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Maintenance

<i>Budget FY 2027</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		-		-		2,745		2,745
Total Operating Revenues	\$	-	\$	-	\$	2,745	\$	2,745

Expenses

Personnel Cost	B	\$	1,933,113	\$	161,093	\$	197,800	\$	(36,707)	-22.79%
Professional Services			10,000		833		-		833	100.00%
Other Services & Charges			59,300		4,942		4,760		181	3.67%
Communications			34,700		2,892		5,015		(2,123)	-73.42%
Information Technology			25,838		2,153		187		1,966	91.29%
Supplies			3,500		292		51		240	82.37%
Operations & Maintenance			152,659		12,722		6,843		5,879	46.21%
Equipment Purchases			342,240		28,520		16,850		11,670	40.92%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	2,561,350	\$	213,446	\$	231,507	\$	(18,061)	-8.46%

Department Summary

Net Costs Allocable to Rate Centers		\$	(2,561,350)	\$	(213,446)	\$	(228,762)	\$	(15,316)	7.18%
<u>Allocations to the Rate Centers</u>										
Urban Water	30.00%	\$	768,405	\$	64,034	\$	68,629	\$	(4,595)	
Crozet Water	3.50%		89,647		7,471		8,007		(536)	
Scottsville Water	3.50%		89,647		7,471		8,007		(536)	
Urban Wastewater	56.50%		1,447,163		120,597		129,250		(8,654)	
Glenmore Wastewater	3.50%		89,647		7,471		8,007		(536)	
Scottsville Wastewater	3.00%		76,840		6,403		6,863		(459)	
	100.00%	\$	2,561,350	\$	213,446	\$	228,762	\$	(15,316)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Laboratory

<i>Budget FY 2027</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	B	\$ 554,030	\$ 46,169	\$ 109,424	\$ (63,255)	-137.01%
Professional Services		-	-	-	-	
Other Services & Charges		3,950	329	2,872	(2,543)	-772.52%
Communications		1,500	125	999	(874)	-699.20%
Information Technology		28,772	2,398	-	2,398	
Supplies		2,300	192	139	53	27.61%
Operations & Maintenance		156,475	13,040	5,183	7,857	60.25%
Equipment Purchases		57,900	4,825	706	4,119	85.37%
Depreciation		-	-	-	-	
Total Operating Expenses		\$ 804,927	\$ 67,077	\$ 119,322	\$ (52,245)	-77.89%

Department Summary

Net Costs Allocable to Rate Centers		\$ (804,927)	\$ (67,077)	\$ (119,322)	\$ 52,245	-77.89%
<u>Allocations to the Rate Centers</u>						
Urban Water	44.00%	\$ 354,168	\$ 29,514	\$ 52,502	\$ (22,988)	
Crozet Water	4.00%	32,197	2,683	4,773	(2,090)	
Scottsville Water	2.00%	16,099	1,342	2,386	(1,045)	
Urban Wastewater	47.00%	378,316	31,526	56,082	(24,555)	
Glenmore Wastewater	1.50%	12,074	1,006	1,790	(784)	
Scottsville Wastewater	1.50%	12,074	1,006	1,790	(784)	
	100.00%	\$ 804,927	\$ 67,077	\$ 119,322	\$ (52,245)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Engineering

<i>Budget FY 2027</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		-		-		-	
Northern Area Engineering Services - ACSA		255,600		21,300		21,300	-
<i>Total Operating Revenues</i>	\$	255,600	\$	21,300	\$	21,300	\$ -

Expenses

Personnel Cost	B	\$	2,452,791	\$	204,399	\$	259,033	\$	(54,634)	-26.73%
Professional Services			100,000		8,333		9,288		(954)	-11.45%
Other Services & Charges			28,650		2,388		2,616		(228)	-9.57%
Communications			35,656		2,971		89		2,882	96.99%
Information Technology			78,838		6,570		251		6,319	96.18%
Supplies			7,700		642		589		52	8.13%
Operations & Maintenance			95,605		7,967		6,500		1,467	18.42%
Equipment Purchases			21,500		1,792		1,792		0	0.00%
Depreciation			-		-		-		-	
<i>Total Operating Expenses</i>		\$	2,820,740	\$	235,062	\$	280,158	\$	(45,096)	-19.18%

Department Summary

Net Costs Allocable to Rate Centers		\$	(2,565,140)	\$	(213,762)	\$	(258,858)	\$	45,096	-21.10%
<u>Allocations to the Rate Centers</u>										
Urban Water	47.00%	\$	1,205,616	\$	100,468	\$	121,663	\$	(21,195)	
Crozet Water	4.00%		102,606		8,550		10,354		(1,804)	
Scottsville Water	2.00%		51,303		4,275		5,177		(902)	
Urban Wastewater	44.00%		1,128,661		94,055		113,897		(19,842)	
Glenmore Wastewater	1.50%		38,477		3,206		3,883		(676)	
Scottsville Wastewater	1.50%		38,477		3,206		3,883		(676)	
	100.00%	\$	2,565,140	\$	213,762	\$	258,858	\$	(45,096)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - July 2026

Information Technology

<i>Budget FY 2027</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	\$	262,300	\$	21,858	\$	28,433	\$	6,575	
Miscellaneous Revenue		-		-		-		-	
Total Operating Revenues	\$	262,300	\$	21,858	\$	28,433	\$	6,575	

Expenses

Personnel Cost	B	\$	1,823,000		151,917	\$	196,935	\$	(45,019)	-29.63%
Professional Services			-		-		-		-	#DIV/0!
Other Services & Charges			2,900		242		171		70	29.17%
Communications			76,000		6,333		1		6,332	99.98%
Information Technology	E		1,835,600		152,967		186,371		(33,404)	-21.84%
Supplies			-		-		810		(810)	#DIV/0!
Operations & Maintenance			4,000		333		280		53	15.99%
Equipment Purchases			8,000		667		667		0	0.00%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	3,749,500	\$	312,458	\$	385,235	\$	(72,776)	-23.29%

Department Summary

Net Costs Allocable to Rate Centers		\$	(3,487,200)	\$	(290,600)	\$	(356,801)	\$	(66,201)	22.78%
<u>Allocations to the Rate Centers</u>										
Urban Water	47.00%	\$	1,638,984	\$	136,582	\$	167,697	\$	(31,115)	
Crozet Water	4.00%		139,488		11,624		14,272		(2,648)	
Scottsville Water	2.00%		69,744		5,812		7,136		(1,324)	
Urban Wastewater	44.00%		1,534,368		127,864		156,993		(29,129)	
Glenmore Wastewater	1.50%		52,308		4,359		5,352		(993)	
Scottsville Wastewater	1.50%		52,308		4,359		5,352		(993)	
	100.00%	\$	3,487,200	\$	290,600	\$	356,801	\$	(66,201)	

MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: BRIAN AYALA, DIRECTOR OF INFORMATION & OPERATIONAL
TECHNOLOGY

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

SUBJECT: AUGUST 2026 INFORMATION TECHNOLOGY REPORT

DATE: SEPTEMBER 22, 2026

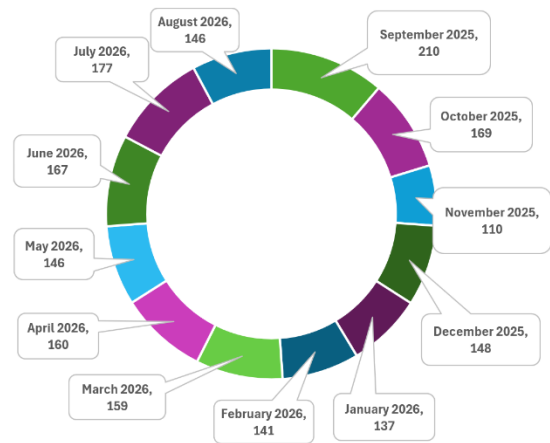
INFRASTRUCTURE – CORE SYSTEMS

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

August 2026 the team:

- Resolved **146** Service Desk Tickets

Service Desk Ticket Comparison



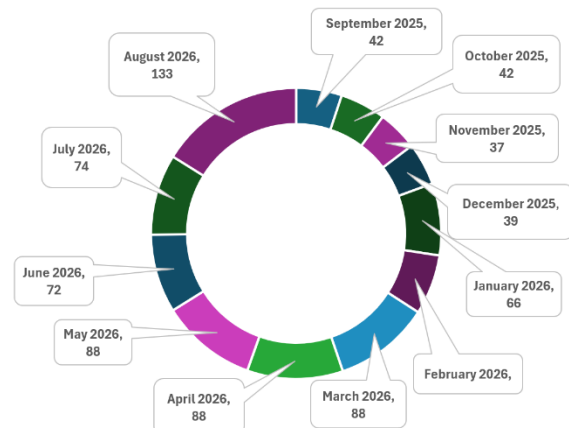
SCADA / OPERATIONAL SYSTEMS (SUPERVISORY CONTROLS AND DATA ACQUISITION)

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

August 2026 the team:

- Resolved **133** SCADA Service Desk Tickets

Service Desk Ticket Comparison SCADA



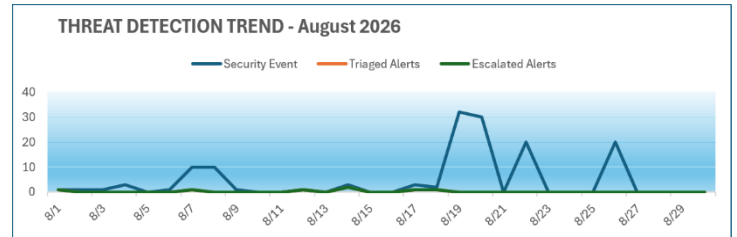
DIGITAL & PHYSICAL SECURITY -

Background: Network Firewall Security for **28** Devices

August 2026 there were:

- **1.0 B** Security logs Analyzed for suspicious network traffic
- **71 M** blocked connections
- **139** blocked threat detections

Spikes were from Malicious Websites & Phishing Campaigns on RWSA workstations



Service Desk Ticket Comparison GIS

GIS (GEOGRAPHICAL INFORMATION SYSTEMS)

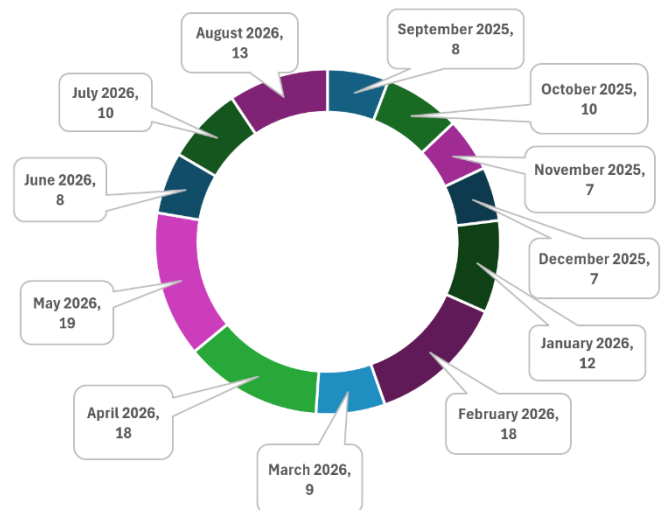
Background: Strategic data system that collects, processes, manages, and displays spatial data that supports engineering and maintenance workflows.

August 2026 statistics

- * Completed **13** Service Desk tickets
- * Completed **165** Daily inspection reports (for CIPs)
- * Processed **179** Sewer Inspections
- * Processed **24** Water inspections
- * Processed **29** MISS Utility reports
- * Digitalized **30** lines and **29** points from GPSing
- * Completed **15** Internal map requests

Major Projects

- * Created new database for RWSA's Cityworks
- * Updated Licensing for ArcPro Enterprise system



Information & Operational Technology Department Board Update

Infrastructure, Enterprise Systems & SCADA

During August 2026, the I & OT Division maintained its focus on infrastructure efficiency, resiliency, and modernization across Authority facilities. The Infrastructure team began planning the implementation of satellite network redundancies at all critical infrastructure locations to strengthen connectivity resilience, while continuing to replace aging network systems as part of the Authority's ongoing modernization and lifecycle efforts. The SCADA team continued progress on aging system replacements while maintaining daily operational support and advancing ongoing CIP construction projects. The Enterprise Systems team has multiple initiatives underway this month, including the transition and upgrade from Cityworks to Trimble Unity, migration from Wasteworks to Paradigm's WeighStation to move the Solid Waste Authority onto a modern platform, installation of modern fuel tracking at the ISWRC facility to improve fuel tracking efficiency, and continued collaboration with Maintenance and Operations to improve data quality within our Cityworks asset management system.

Cybersecurity

The I & OT Division continues to strengthen the Authority's cybersecurity posture in response to the evolving threat landscape facing water and wastewater utilities. Staff are actively addressing recently identified gaps in network segmentation to further align with regulatory guidance, a priority sharpened by recent threats targeting the sector. The team is planning the Authority's annual IT penetration testing and is providing annual cybersecurity awareness training for all staff. These efforts reflect the Authority's continued commitment to a proactive security posture — anticipating and addressing risk before it materializes rather than responding. Additionally, members of RWSA attended the Central Virginia National Security Alliance's Critical Infrastructure Protection Forum, gleaned valuable insights from regulatory representatives and fellow SLTT (State, Local, Tribal, and Territorial) attendees as the Authority continues working collectively with regional partners to strengthen critical infrastructure security efforts.

MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: STEVEN MINNIS, SR., MAINTENANCE MANAGER

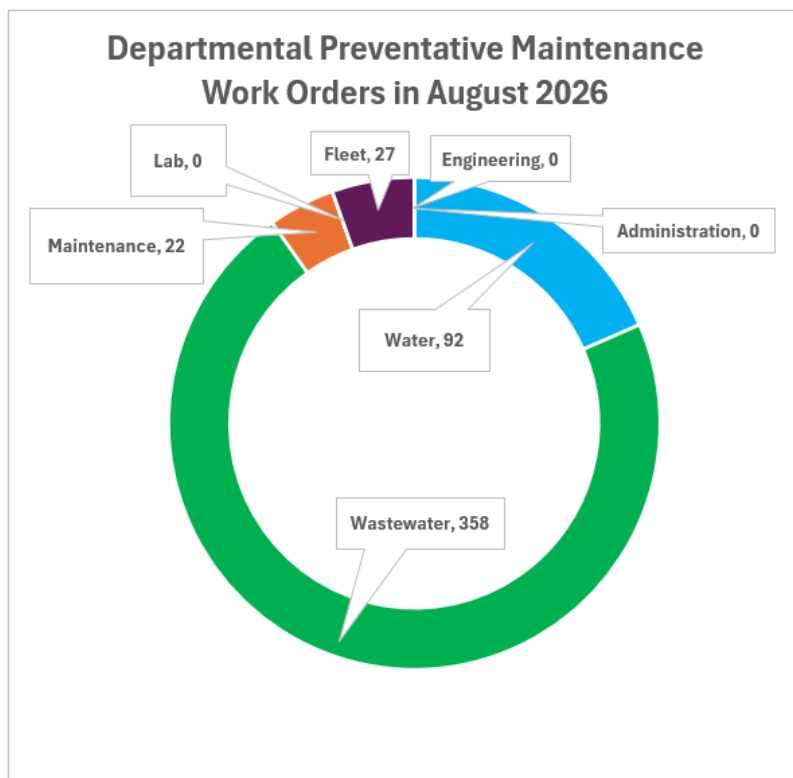
REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: MAINTENANCE REPORT FOR AUGUST 2026

DATE: SEPTEMBER 22, 2026

The Maintenance Department is responsible for more than 9,306 pieces of equipment in the Cityworks asset management system. The graphs below were generated from the data pulled from Cityworks.

SCHEDULED MONTHLY WORK ORDERS BY DEPARTMENT



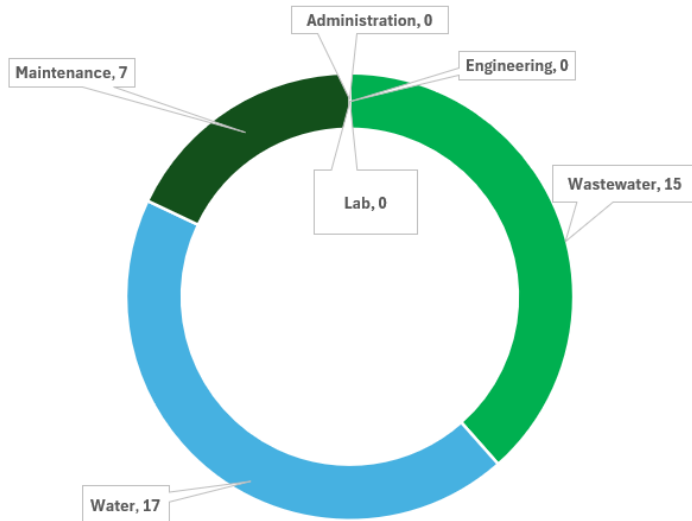
499 SCHEDULED MONTHLY WORK ORDERS BY DEPARTMENT IN AUGUST 2026

Background:

- Preventative work orders are on a 30, 90, 180, 365 day, 3 year and 5 year schedule depending on the asset and the manufacturer's recommendations.

AUGUST 2026 REPAIR REQUESTS

August 2026 Repair
Requests by Department

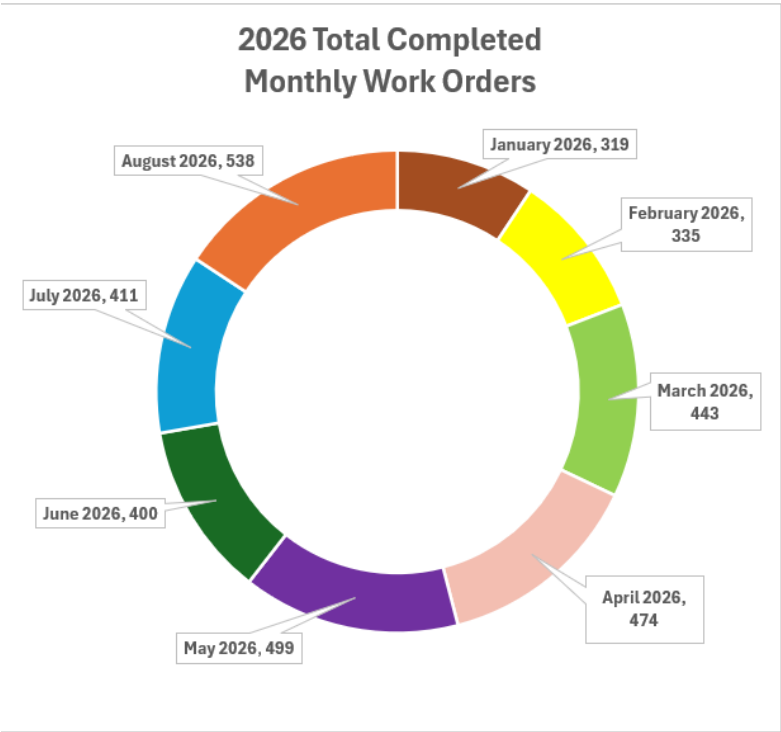


39 REPAIR REQUESTS IN AUGUST 2026

Background:

- These requests are unplanned
- Some examples of these requests in August 2026 :
 - **Scottsville WTP Pre soda ash feed auger** was not operable. Maintenance found the sprocket for the hopper vibrator was no longer attached to the lobe. Maintenance brought parts back to the shop for repairs. Parts were reinstalled and equipment was placed back in service.
 - **Scottsville WTP Filter 1 waste valve** would not open. Operations and maintenance worked together to drain the water down enough to remove the old valve to install a new one.
 - **MCAWRRF gas purifier hatch seal was leaking.** Maintenance isolated the purifier and allowed the gas to bleed off overnight. The next morning they were able to remove the hatch and replace the gasket.
 - **Glenmore Water RRF pH probe.** The pH probe could not be removed from service for maintenance because a solenoid valve would not close. Maintenance took apart the solenoid valve and removed debris to allow it to close. It was returned to service.
 - **South Rivanna WTP sludge removal equipment in sed basins 5 and 6 inoperable.** Maintenance found a fuse blown in the control panel. Once the fuse was replaced the sludge removal equipment was operable.
 - **Rivanna Pump Station pump 6 lost SCADA control.** A wiring issue was found on the surge protector which did not allow the pump to run. Once the wire was repaired, the pump was operational.
 - **Moore's Creek AWWRF Blower Building PLC** lost communication with the blowers in the aeration basins. OT reset the PLC and communication was restored and blowers were in normal operation.

COMPLETED WORK ORDERS BY MONTH IN 2026

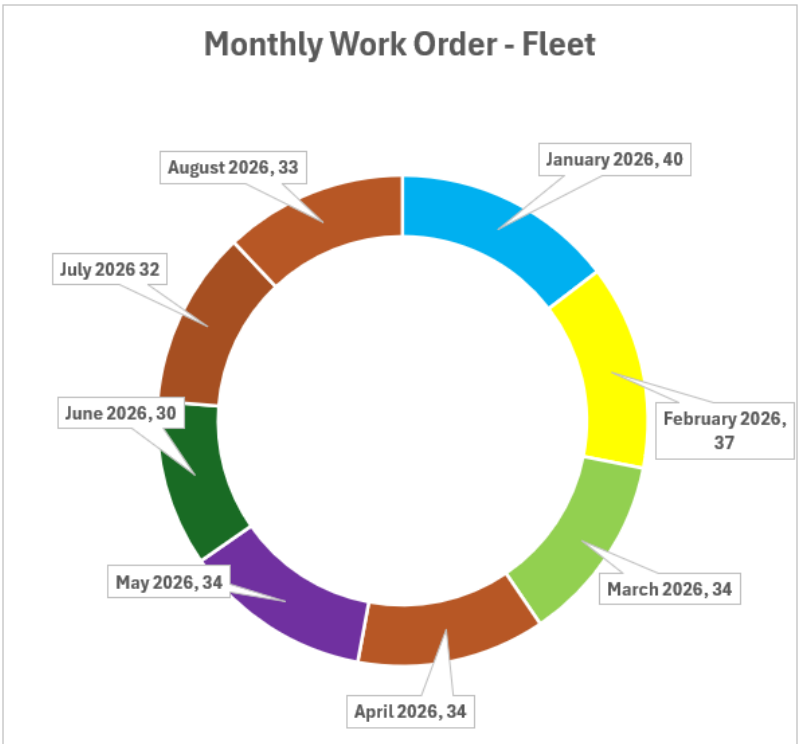


538 WORK ORDERS COMPLETED IN AUGUST 2026

Background:

- This is the total of all work orders completed by the Maintenance Department for 2026 by month.
- This includes all of the preventative and repair request work orders for each month.

MONTHLY FLEET WORK ORDERS

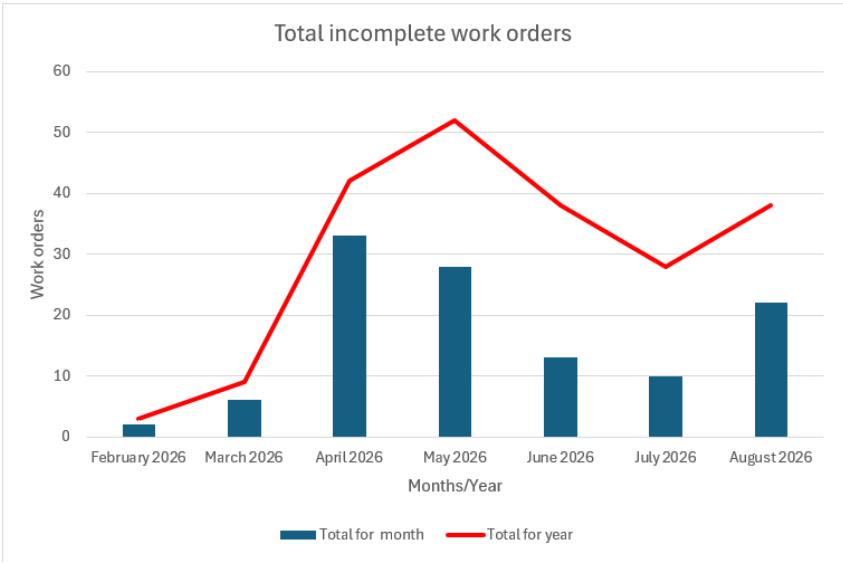


33 MONTHLY FLEET WORK ORDERS IN AUGUST 2026

Background:

- Fleet work orders consist of the following:
- 5,000 Mile Vehicle Service
- 7,500 Mile Vehicle Service
- 25,000 Mile Vehicle Service
- 90-Day Vehicle Service
- 180 Day Trailer Service
- 5-Year Battery Service
- Annual State Inspection.

TOTAL INCOMPLETE WORK ORDERS BY MONTH



22 OPEN WORK ORDERS IN AUGUST 2026

Background:

- Maintenance cleared 7 of the past due work orders from July 2026
- 2 work orders cannot be completed due to accessibility concerns.
- 4 work orders were not completed due to staff being redirected to electrical work related to August storm events.
- The remaining work orders are waiting on additional components, final meter calibration reports to close out the work orders, or a contractor for repair. The oldest work order in the system is July 2026.

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 AUGUST 2026

DATE: SEPTEMBER 22, 2026

WATER OPERATIONS:

The average and maximum daily water volumes produced in August 2026 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	8.90	9.99 (8/6/2026)
Observatory	1.72	4.34 (8/2/2026)
North Rivanna	<u>0.03</u>	<u>0.25 (8/20/2026)</u>
<i>Urban Total</i>	10.65	12.68 (8/31/2026)
Crozet	0.66	0.84 (8/27/2026)
Scottsville	0.07	0.11 (8/6/2026)
Red Hill	<u>0.003</u>	0.004 (8/14/2026)
<i>RWSA Total</i>	11.38	-

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

Status of Reservoirs (as of September 14, 2026):

- Urban Reservoirs are 91% of Total Useable Capacity
 - South Rivanna Reservoir is 100% full
 - Ragged Mountain Reservoir is 85% full
- Sugar Hollow Reservoir is 96% full
- Beaver Creek Reservoir (Crozet) is 86% 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 August 2026. Performance of the WRRFs in August 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	9.26	<QL	9	<QL	22	<QL	2.2
Glenmore	0.163	4	15	5.9	30	NR	NL
Scottsville	0.041	<QL	15	2.0	30	<QL	1.9
Stone Robinson	0	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 August 2026.

<i>State Annual Allocation (lb./yr.) Permit</i>		<i>Average Monthly Allocation (lb./mo.) *</i>	<i>Moore's Creek Discharge August (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	6,922	29%	24%
Phosphorous	18,525	1,636	248	15%	9%

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

LABORATORY OPERATIONS:

The RWSA Laboratory completed the following number of analyses in August 2026:

<i><u>Purpose</u></i>	<i><u>Water</u></i>	<i><u>Wastewater</u></i>
<i>Compliance (VDH, VaDEQ*)</i>	445	122
<i>Non-Compliance (Treatment Process Monitoring)</i>	482	122

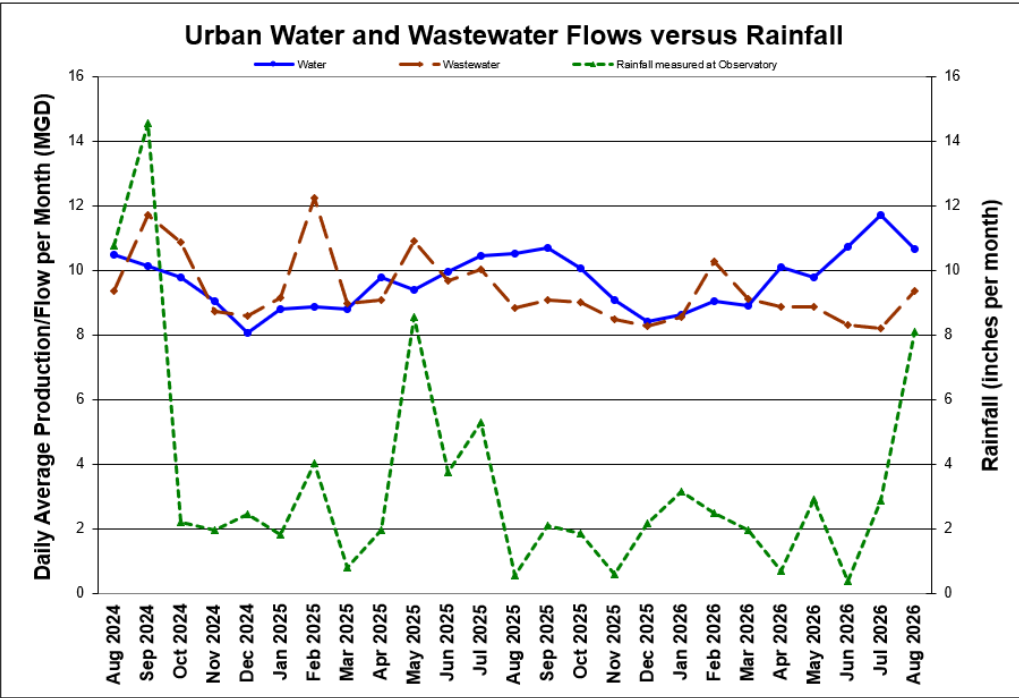
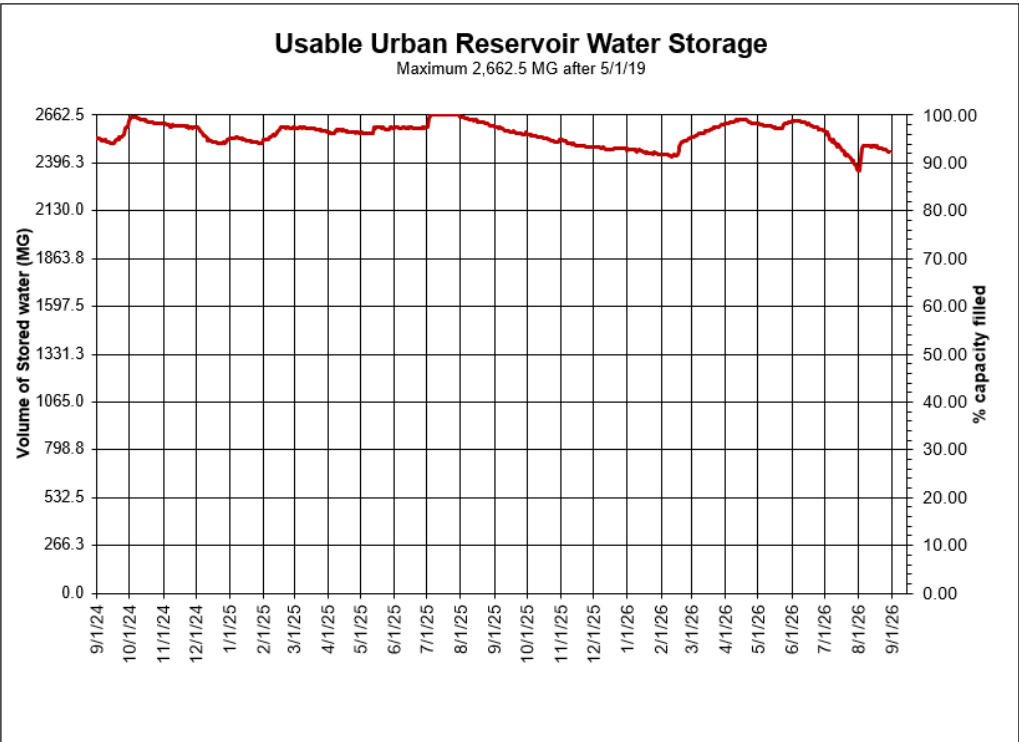
* VDH – Virginia Department of Health for drinking water

VaDEQ – Virginia Department of Environmental of Environmental Quality for wastewater

WATER AND WASTEWATER DATA:

The following graphs are provided for review:

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



MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: WHOLESALE METERING REPORT FOR AUGUST 2026

DATE: SEPTEMBER 22, 2026

The monthly and average daily Urban water system usages by the City and the ACSA for August 2026 were as follows:

		<i>Month</i>	<i>Daily Average</i>	
City Usage (gal)		159,383,261	5,141,396	48.3%
ACSA Usage (gal)		170,422,044	5,497,485	51.7%
Total (gal)		329,805,305	10,638,881	

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 its allocation, a financial true-up would be required for the debt service charges related to the Ragged Mountain Dam and the SFRR-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 September 2025), and the usage relative to the maximum allocation for each party (6.71 MGD for the City and 11.99 MGD for ACSA). Completed in 2019 for a cost of about \$3.2 M, our Wholesale Metering Program consists of 25 remote meter locations around the City boundary and 3 finished water flow meters at treatment plants.

[illegible][illegible]



MEMORANDUM

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

FROM: AUSTIN MARRS, ENGINEERING MANAGER

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

**SUBJECT: APPROVAL OF PROFESSIONAL ENGINEERING SERVICE
AUTHORIZATION FOR REHABILITATION OF WOODBURN,
BUCKS ELBOW, CROZET WATERBALL, PANTOPS, AND
OBSERVATORY WATER STORAGE TANKS (RFP# 25-11) -
WHITMAN, REQUARDT AND ASSOCIATES, LLP**

DATE: SEPTEMBER 22, 2026

This request is to authorize the Executive Director to execute a Professional Engineering Service Authorization with Whitman, Requardt and Associates, LLP (WRA) to provide engineering design, bidding and construction phase services for interior and exterior rehabilitation of the Woodburn, Bucks Elbow, Crozet Waterball, Pantops, and Observatory water storage tanks. Based on the hourly rates and costs negotiated by staff, fees for the services will total \$828,000 and are included in the CIP budget totaling \$6.5 M.

Background

The Woodburn, Pantops and Observatory Storage Tanks have volumes of 1, 3, and 5 MG respectively, and are located within the Urban Pressure Band of RWSA's Finished Water Distribution System. The Woodburn tank serves as filter backwash storage at the South Rivanna WTP. The tanks play a pivotal role in maintaining system pressures and providing increased flow during fires and other system emergencies. The 2 MG Buck's Elbow Ground Storage Tank provides finished water storage for the Crozet Area while the 50,000-gallon Crozet Waterball Tank serves as filter backwash storage for the Crozet Water Treatment Plant.

An inspection of the interior and exterior of these tanks is completed every 5 years in accordance with AWWA guidelines. For each of the five tanks, the coating system has met or outlived its useful service life of 20 years and needs to be replaced. This project will include full recoating of the interior and exterior of each tank, as well as additional minor repairs to address safety and/or operational deficiencies where needed (such as ladder improvements, foundation repairs, etc.). RWSA will work with its design engineer, WRA, as well as the City and ACSA, to coordinate the sequencing of the tank rehabilitations so that hydraulic impacts on the water system are minimized.

Board Action Requested:

Authorize the Executive Director to execute a Professional Engineering Services Agreement with Whitman, Requardt and Associates, LLP to provide engineering design, bidding and construction administration services for rehabilitation of the Woodburn, Bucks Elbow, Crozet Waterball, Pantops, and Observatory water storage tanks for a fee totaling \$828,000, and any Amendments up to 25% of the original Service Authorization amount.



695 Moores Creek Lane | Charlottesville, Virginia 22902-9016

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www.rivanna.org

MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: JENNIFER WHITAKER, DIRECTOR OF ENGINEERING AND
MAINTENANCE

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: APPROVAL TO AMEND CAPITAL IMPROVEMENT PLAN
AND INCREASE CONSTRUCTION CONTINGENCY –
RED HILL WATER TREATMENT PLANT UPGRADE

DATE: SEPTEMBER 22, 2026

This request is to increase the adopted FY 27-31 CIP budget for the Red Hill WTP Upgrade Project by \$100,000 to a revised total of \$2.25 M and increase the construction contingency authorization from 10% to 20% of the \$1.7 M contract amount due to change orders required to address unforeseen conditions regarding recoating the existing hydropneumatic tank and access to unload chemicals into the building.

Background:

The RHWTP consists of a submersible well pump and hydropneumatic water storage and pressure tank system. The plant receives its water supply from a ground water well and provides onsite treatment of about 1,800 gallons per day to serve 15 customers along Red Hill Road and Red Hill Elementary School. The plant provides treated water to the distribution system from a 10,000-gallon hydropneumatic tank, which is attached to a small operations building that houses chemicals, sampling, and analysis equipment. Granular activated carbon treatment is being added to the plant.

After construction began, unforeseen changed conditions were encountered which required recoating of the interior of the tank and access improvements to unload chemicals into the new building.

Board Action Requested:

1. Amend the FY 2027-31 CIP to increase the project budget by \$100,000 to a revised total project budget of \$2.25 M.
2. Authorize the Executive Director to execute construction contract Change Orders up to 20% of the original contract value.



MEMORANDUM

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

FROM: AUSTIN MARRS, P.E. ENGINEERING MANAGER

REVIEWED BY: BILL MAWYER, P.E. EXECUTIVE DIRECTOR

**SUBJECT: APPROVAL TO AMEND CAPITAL IMPROVEMENT PLAN AND
INCREASE CONSTRUCTION CONTINGENCY – INTERCEPTOR
SEWER AND MANHOLE REPAIR (PHASE 2)**

DATE: SEPTEMBER 22, 2026

This request is to increase the adopted FY 27 - 31 CIP budget for this project by \$125,000 to a revised total of \$2.4 M and increase the construction contingency authorization from 10% to 20% of the original \$1.4 M construction contract amount due to unforeseen repairs required for additional existing wastewater manholes.

Background

The Sanitary Sewer Rehabilitation program is an ongoing effort by RWSA to rehabilitate deteriorated manholes and sewer lines that have critical defects or have reached the end of their service life. The work is integral to protecting RWSA's wastewater infrastructure and reducing inflow and infiltration into the sanitary sewer collection system. Excessive inflow and infiltration can overwhelm wastewater facilities which increase the risk of sanitary sewer overflows and flooding at pump stations and downstream treatment facilities.

For this phase of the Sanitary Sewer Rehabilitation Program, additional manholes were required to be rehabilitated as unforeseen defects and access issues were discovered by RWSA's design engineer after construction began. To provide these additional repairs, we are requesting an increase to the adopted FY27-31 CIP for this project of \$125,000 from \$2,285,000 to \$2,410,000. In addition, we are also requesting to increase the construction contingency authorization from 10% to 20% of the original construction contract amount of \$1,439,440.

Board Action Requested:

1. Amend the adopted FY27-31 CIP Budget for the Interceptor Sewer and Manhole Repair (Phase 2) Project with an increase of \$125,000 from \$2,285,000 to \$2,410,000.
2. Authorize the Executive Director to execute construction contract Change Orders up to 20% of the original construction contract amount of 1,439,440.



MEMORANDUM

TO: RIVANNA WATER & SEWER AUTHORITY
BOARD OF DIRECTORS

FROM: AUSTIN MARRS, P.E. , ENGINEERING MANAGER

REVIEWED BY: DAVE TUNGATE, DEPUTY EXECUTIVE DIRECTOR
BILL MAWYER, P.E. EXECUTIVE DIRECTOR

SUBJECT: APPROVAL OF CONSTRUCTION CONTRACT AWARD–
FLOCCULATOR REPLACEMENTS, SOUTH RIVANNA WATER
TREATMENT PLANT (IFB# 446) - J.S. HAREN COMPANY

DATE: SEPTEMBER 22, 2026

This request is to authorize award of a construction contract to J.S. Haren Company, from Athens, Tennessee, for \$1,206,000 to replace three Flocculator Systems at the SRWTP. Construction is expected to begin in the fall 2027 and be completed in the spring 2028.

Background

The SRWTP provides treatment and distribution of potable water to Albemarle County and the City of Charlottesville. Flocculation is one of the first steps in the water treatment process. Coagulants are added to the water to help suspended particles clump together to form heavier particles called “floc” which sink to the bottom of the sedimentation basins.

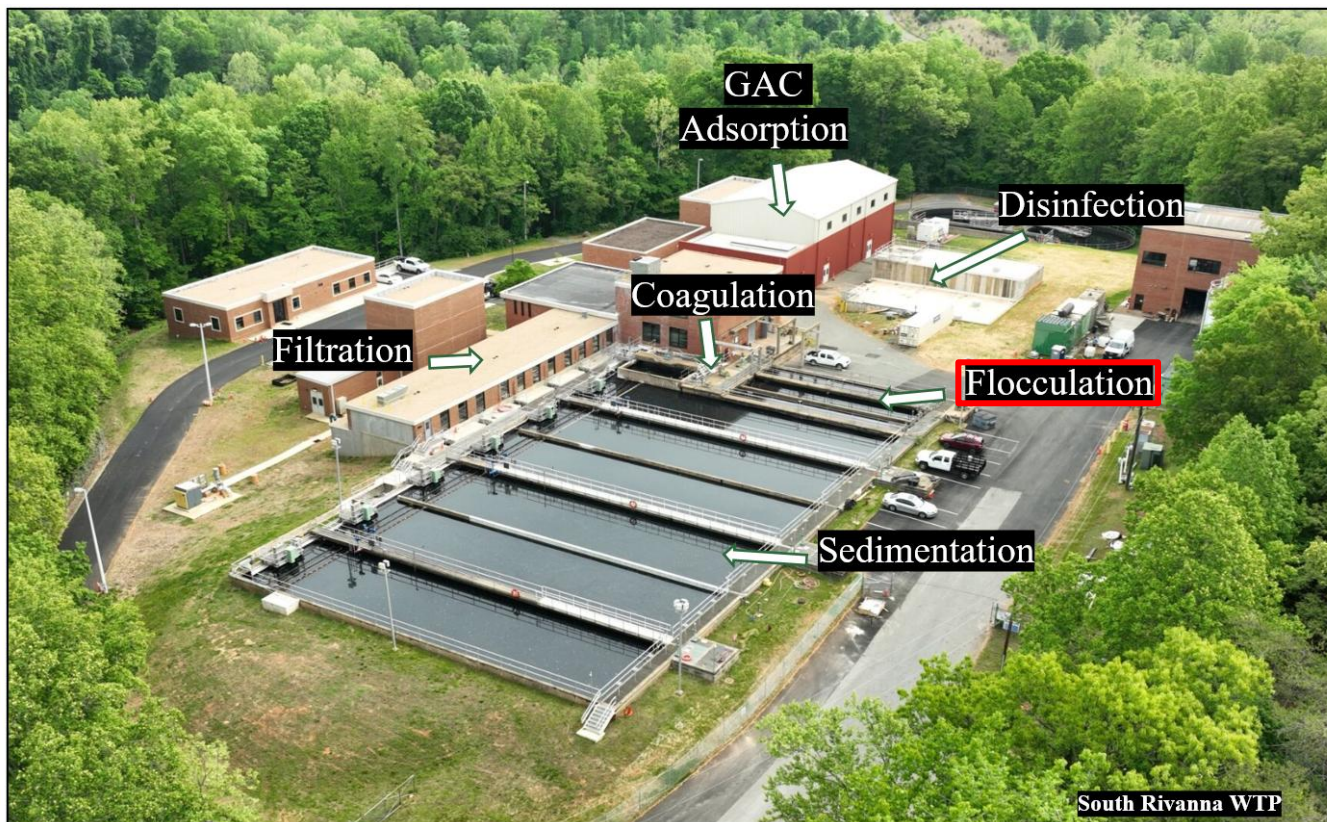
This project will replace equipment in 3 flocculation basins that has reached the end of its useful service life including motors, variable frequency motor drives, gearboxes, chains, and sprockets along with concrete supports in the basins and integration of the equipment into our automated treatment process control (SCADA) system.

An Invitation for Bids (IFB #446) to complete the work was issued on July 31, 2026. A pre-bid conference was held on August 12, 2026. Construction bids were opened on August 11, 2026, and five competitive bids were received totaling \$2,193,730, \$2,070,000, \$1,973,000, \$1,708,000, and \$1,206,000. The apparent low bidder was J.S. Haren of Athens, Tennessee with a lump sum bid of \$1,206,000.

Staff and our consultant engineer, SEH, have reviewed the bid documents submitted by J.S. Haren and verified that the bid and attached documents are both responsive and responsible. Based on J.S. Haren’s experience working in and around treatment plants, RWSA recommends them for award.

Board Action Requested:

Authorize the Executive Director to execute a construction contract with J.S. Haren Company to replace Flocculation Systems at the SRWTP for a total amount of \$1,206,000 and to approve any change orders to the construction contract necessary for completion of the work not to exceed 15% of the original construction contract amount.



South Rivanna Water Treatment Plant Flocculator Replacements, Construction Contract Award

David White III, Project Engineer
Board of Directors Meeting
September 22, 2026



PROJECT SCOPE OF WORK

- Mechanical equipment in three SRWTP Flocculator Systems has reached the end of its 20-year service life.
- The following equipment will be replaced:
 - Paddles and shafts
 - Motors
 - Variable Frequency Motor Drives
 - Gear boxes
 - Sprockets



Broken flocculator shaft



Flocculated particles entering sedimentation basins

PROJECT BUDGET AND SCHEDULE

- 5 Bids Received:

- \$1,206,000 (J.S. Haren Company)
- \$1,708,000
- \$1,973,000
- \$2,070,000
- \$2,193,730

- Contract Award recommended:

- J.S. Haren Company, Athens, TN
- \$1,206,000

- Construction: Fall 2027 – Spring 2028

- *Peak demand dictates when construction can begin*

CIP Budget	
Engineering (Design/Bid/CA)	\$ 374,000
Construction	\$ 1,206,000
15% Contingency	\$ 180,000
Project Budget	\$ 1,760,000
FY 27-31 CIP Budget	\$ 2,900,000

QUESTIONS?

Board Action Requested:

Authorize the Executive Director to execute a construction contract with J.S. Haren company for \$1,206,000 and to approve any change orders to the construction contract necessary for completion of the work not to exceed 15% of the original construction contract award.



MC Administration Building

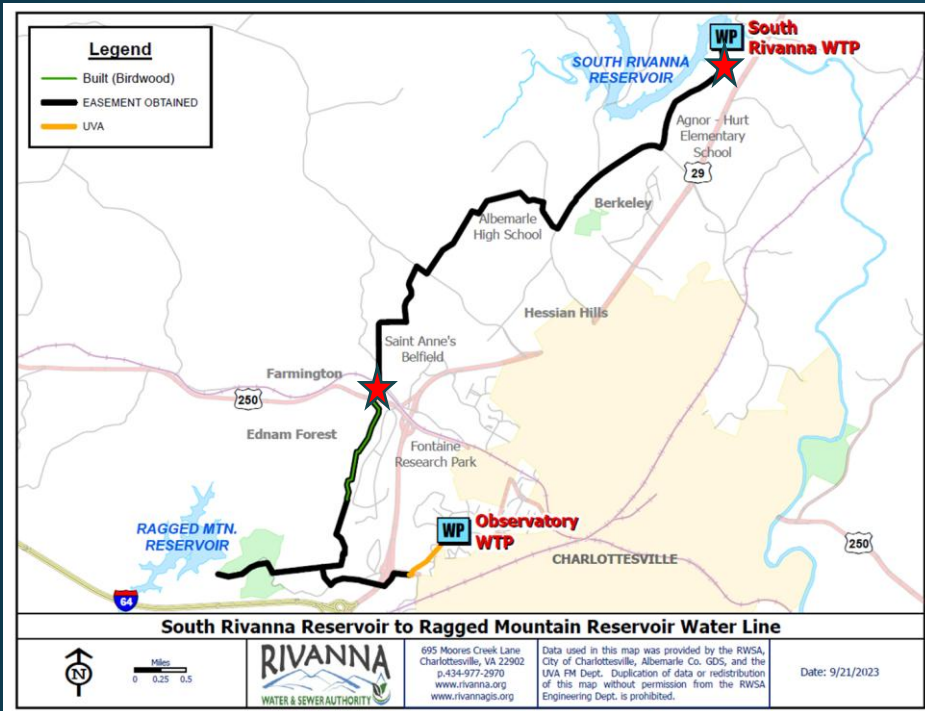


Major Capital Projects Update

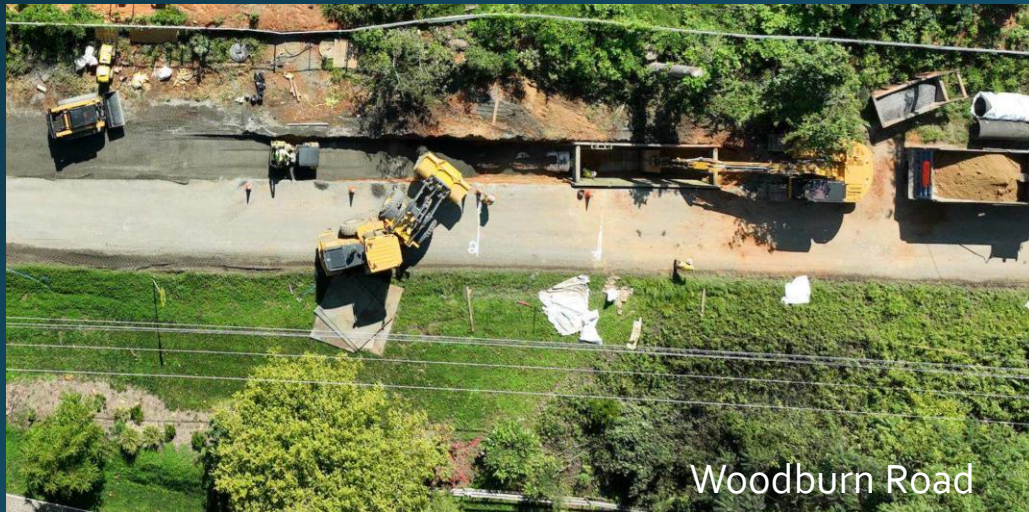
Presented to the Board of Directors
By Austin Marrs, P.E., Engineering Manager
September 22, 2026

Under Construction

SRR to RMR Pipeline, Intake, and Facilities

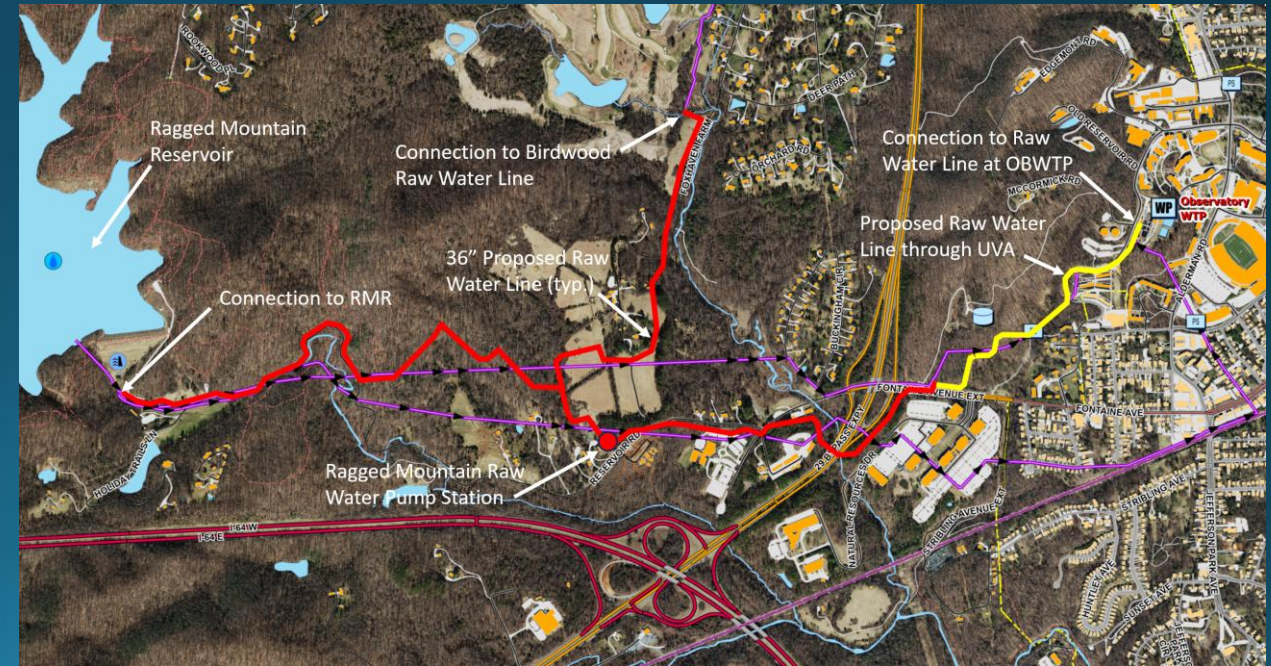


- 6.5 miles of 36" raw water pipeline from SFRR to Birdwood
- 41 mgd raw water pump station and intake on SRR
- Replace sodium permanganate building
- Pipeline construction 20% complete
- Garney Construction
- Construction: February 2026 – Dec 2030
- Budget \$107 M



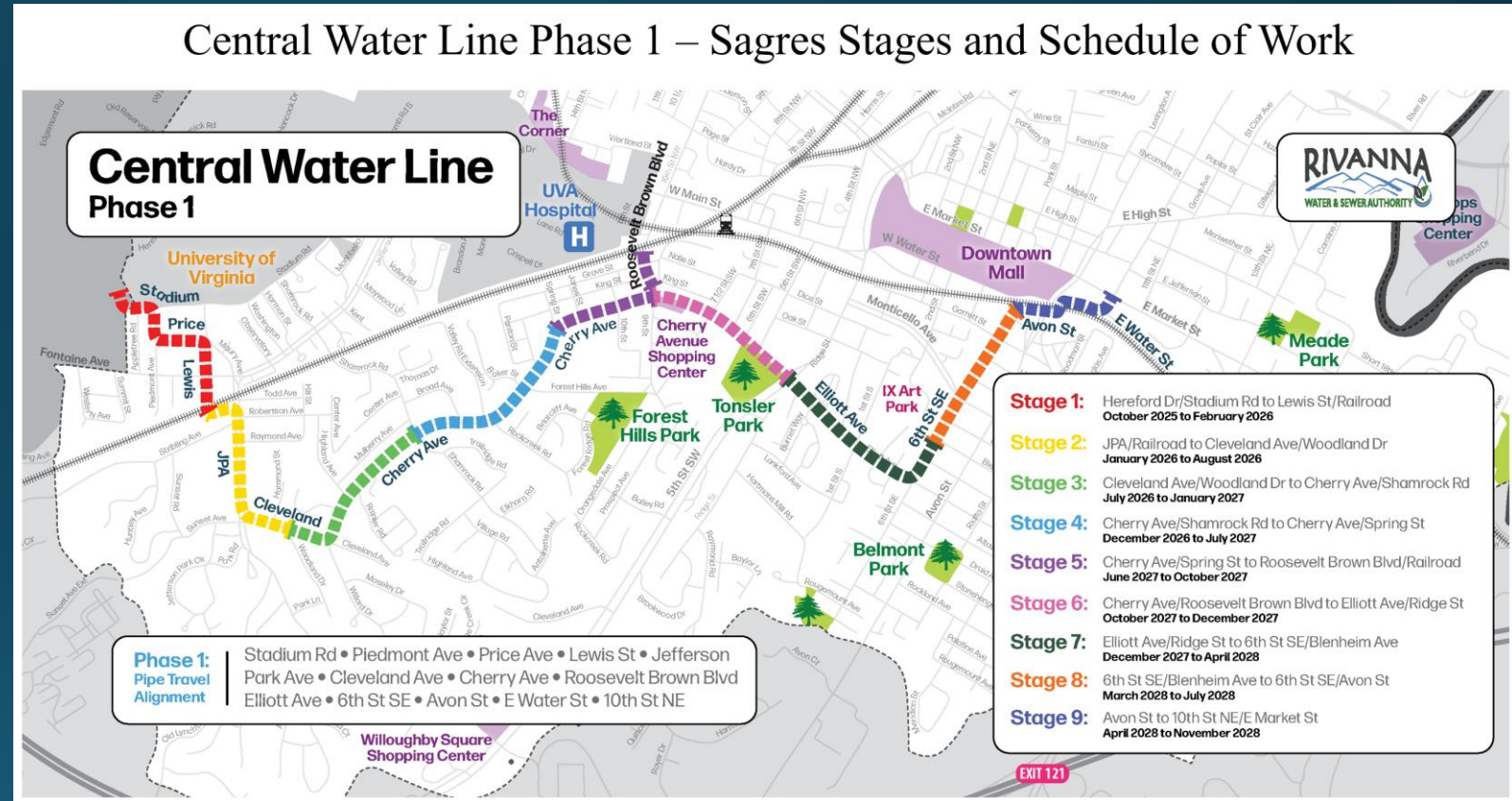
Ragged Mtn Reservoir to OBWTP – Raw Water Line and Pump Station

- Replaces outdated infrastructure – 40- and 70-year-old pump stations (2) and 70–110-year-old water lines; improves raw water capacity and reliability to OBWTP
- 4 miles of 36" pipe; 10 mgd raw water pump station
- Thalle Construction
- Construction: February 2025 – June 2029
- Budget \$61.5 M



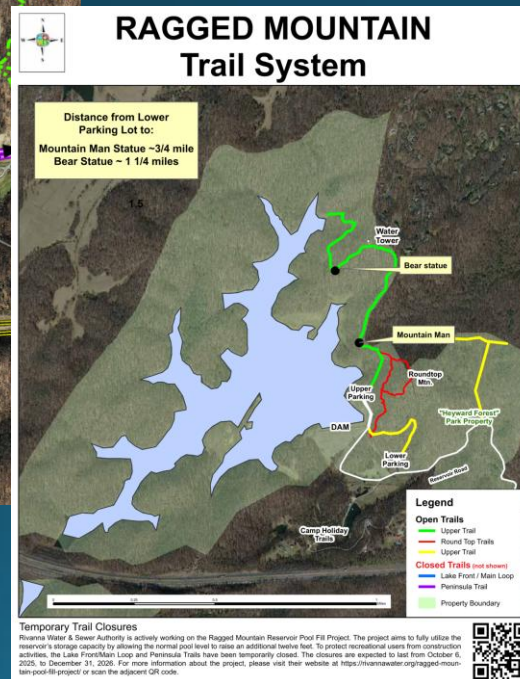
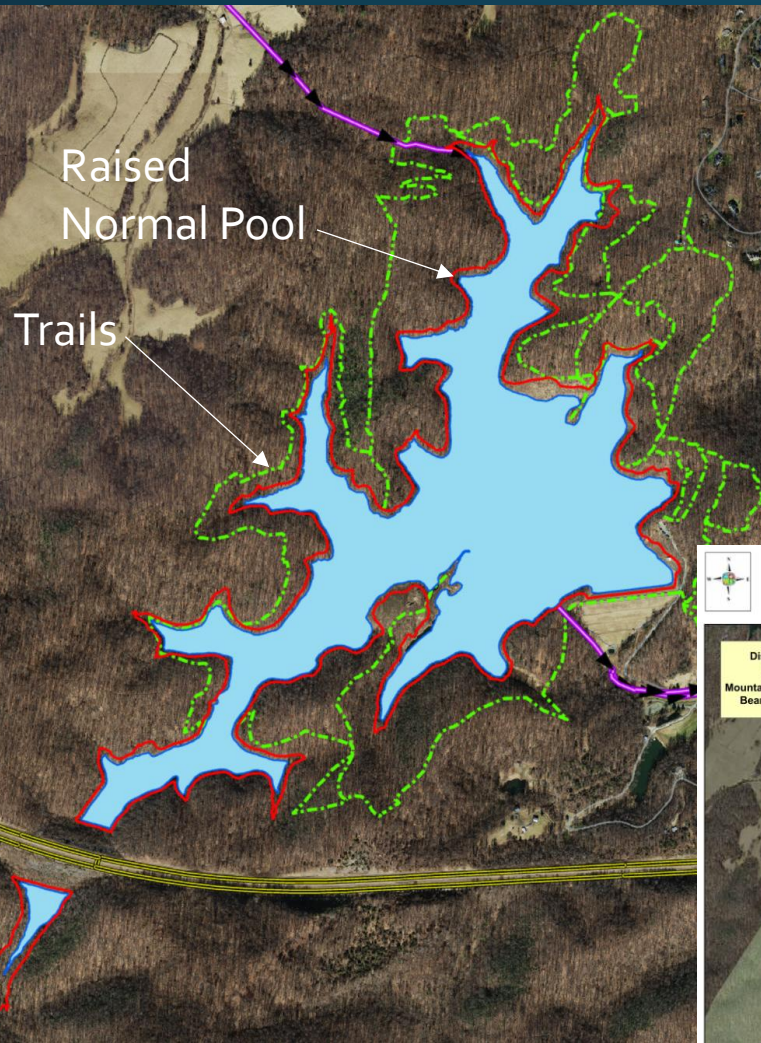
Central Water Line – Phase 1

- Improve water flow, pressure, redundancy in Urban System
- 5 miles of 24 & 30" pipe; 2 crossings under railroad
- Pipeline construction 25% complete
- Sagres Construction
- Construction for Phase 1:
October 2025 – December 2029
- Budget \$58 M



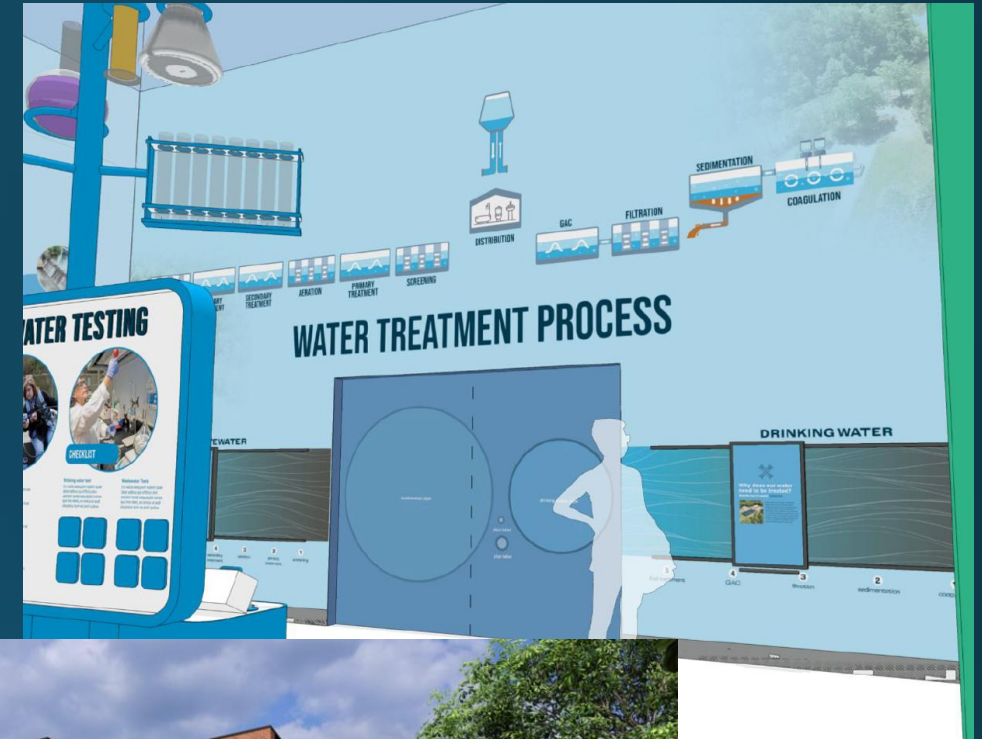
Ragged Mountain Reservoir Pool Raise

- Raises normal pool 12', from El. 671 to El. 683
- Clearing around the reservoir, modifications to intake tower, and installation of a blanket drain in the dam
- Clearing around reservoir complete
- Blanket drain construction underway
- Falconer Construction
- Construction: September 2025 – December 2026
- Budget \$13.3 M



MC Administration Building Renovation and Addition

- Original building constructed in 1980's
- Renovate interior and expand
- Includes new board room, education center, and updated lab space
- Electrical conduit, HVAC ductwork, metal framing, and roofing installation underway
- Martin Horn
- Construction: August 2025 - December 2027
- Budget \$29.6M



MC Structural and Concrete Rehabilitation

- Repairs throughout plant including holding ponds, EQ basins, primary clarifiers, digesters, and equipment shed roof
- Improves pump removal from Aeration Basins
- W.M. Schlosser Company
- Construction: May 2025 – May 2027
- Budget \$15.5 M



Primary Clarifier Repairs



MC Building Upfits

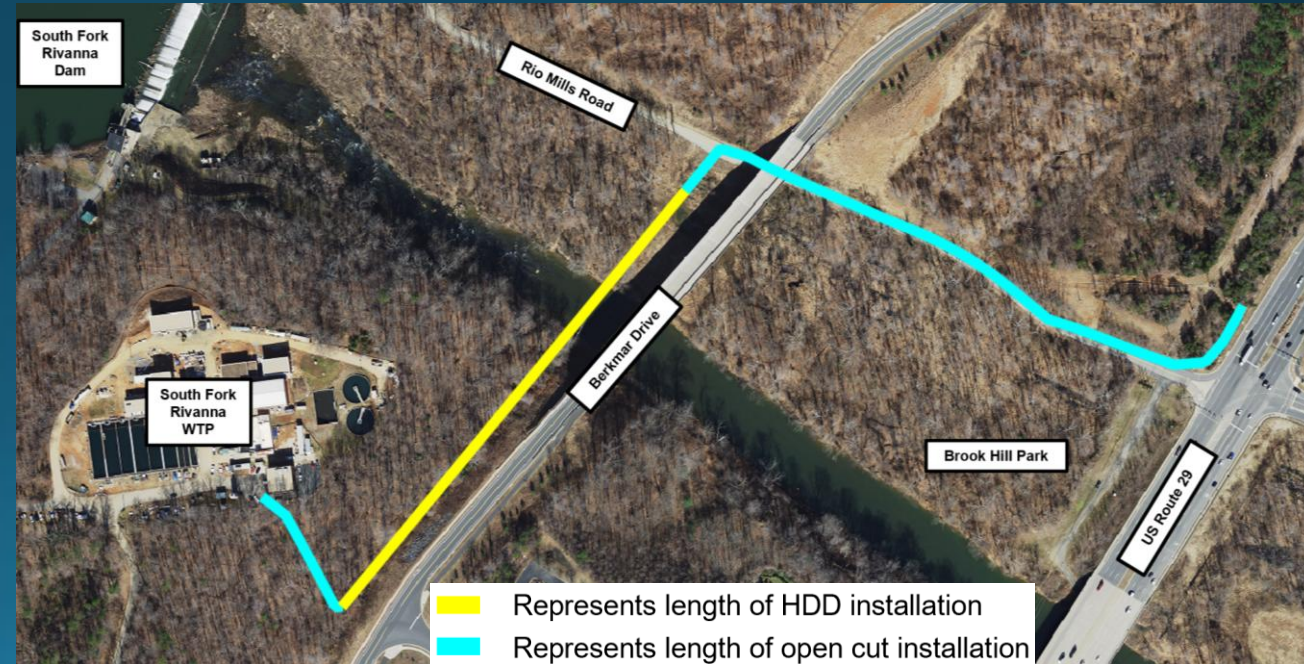
- Renovation of WW Operations and Maintenance buildings
- Original structures are 40 years old and no longer meet current staffing and operational needs
- Includes gravity thickener improvements – chemical feed and sludge line clean-outs
- English Construction
- Construction: May 2025 – May 2027
- Budget \$12 M



South Rivanna River Crossing

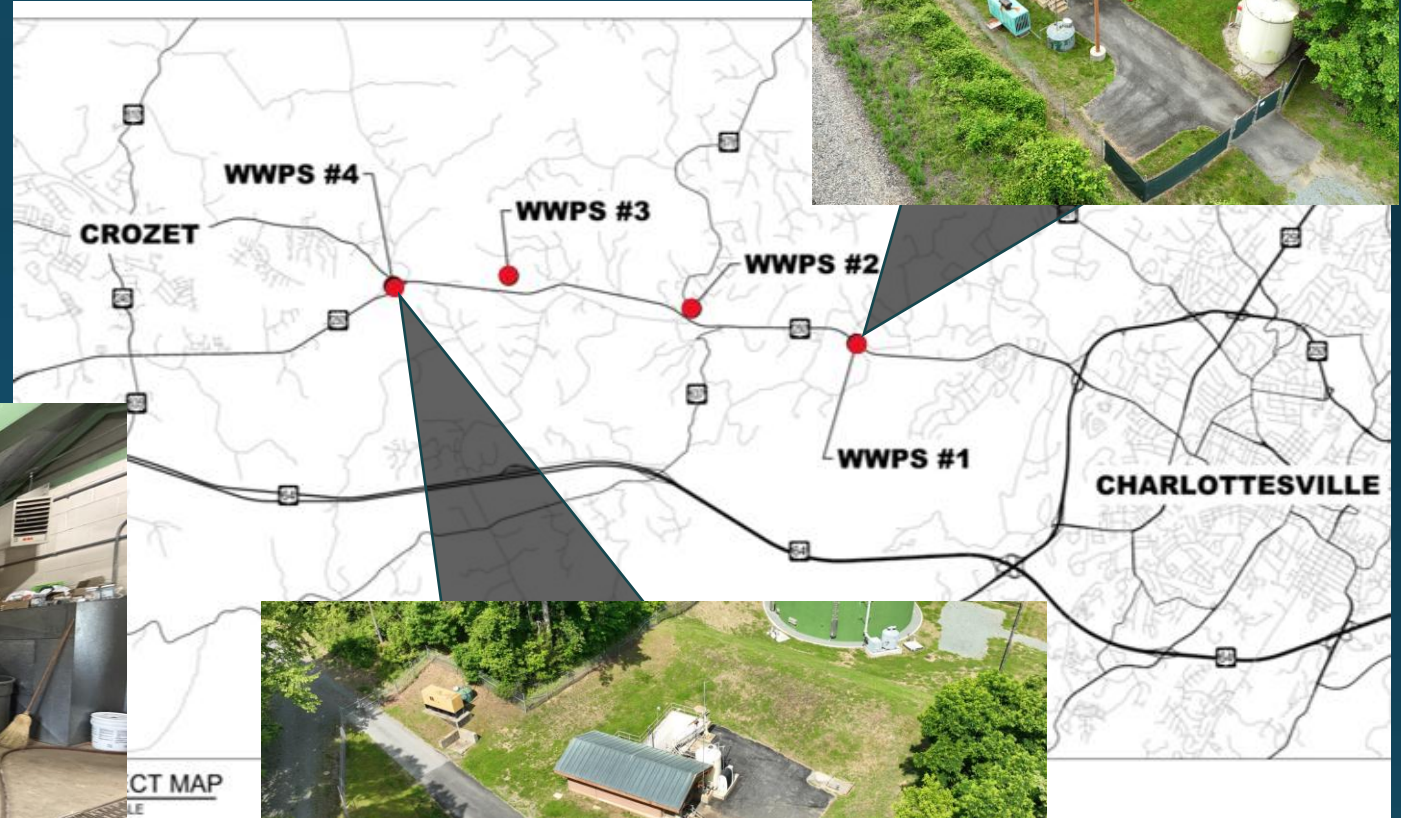


- Second pipe, high density polyethylene, drilled under the South Rivanna River
- Original drilling subcontractor was unable to complete work, GC hired another subcontractor
- Falconer Construction
- Construction: December 2024 - September 2027
- Budget \$6.55M



Crozet Pump Stations Rehabilitation

- Repair 4 wastewater pump stations constructed in 1980's; convey ww from CZ to MC
- Replace pumps, valves, roofs, motor control centers, generators, automatic transfer switches, PLCs and other architectural improvements
- Waco, Inc.
- Electrical work and pump replacements ongoing at PS #2
- Construction: December 2025 – July 2027
- Budget \$12.4 M



Replace Pumps



New Motor Control Center



Granular Activated Carbon Expansion - Crozet WTP



Excavation for new GAC Building and Clearwell

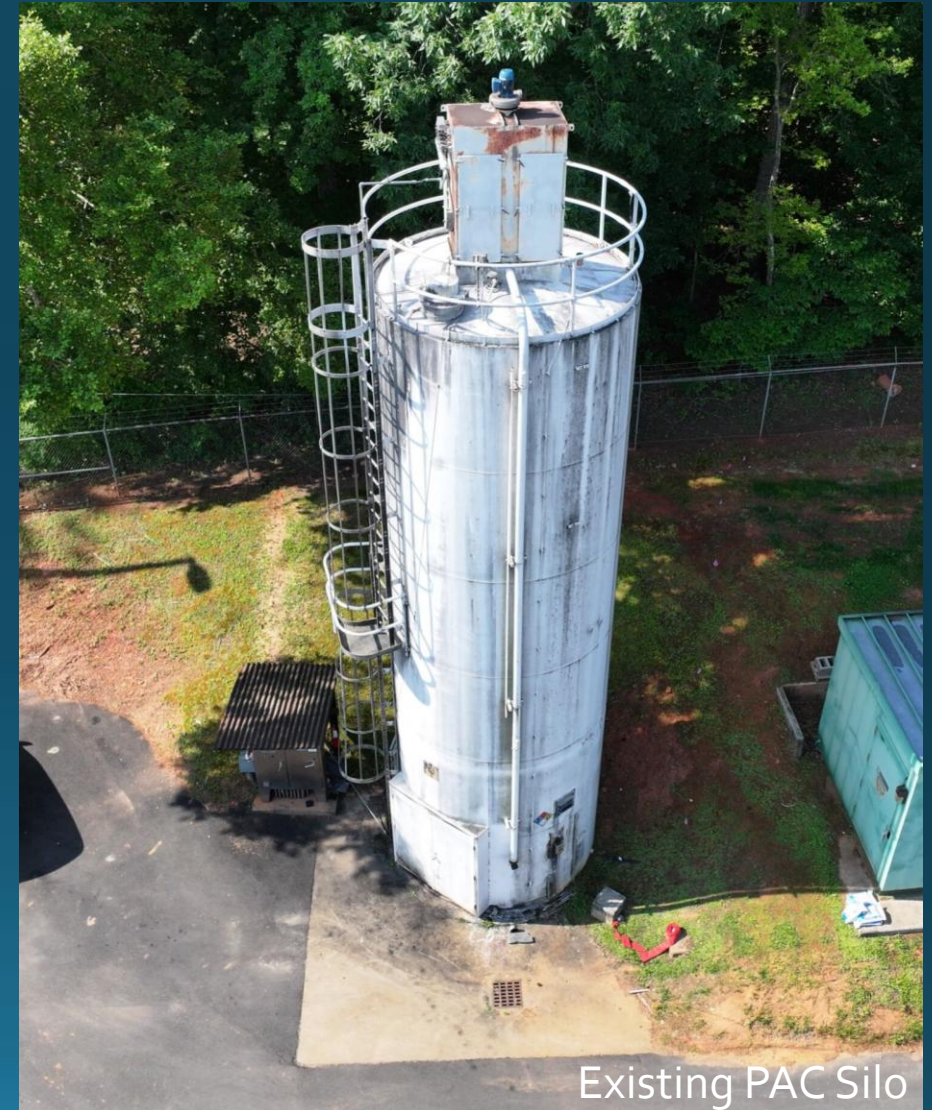
- Additional GAC building and equipment to increase GAC treatment capacity from 1 to 2 MGD
- Sitework ongoing
- English Construction
- Construction: March 2026 – May 2028
- Received \$7.24 M grant funds from VDH
- Budget \$12.2 M



GAC Vessels at Crozet WTP

SRWTP – Powdered Activated Carbon Upgrades

- Replace PAC silo and feed pumps
 - Existing silo was a repurposed lime silo
- Waco, Inc.
- Construction: November 2025 – June 2027
- Budget \$2 M



Sanitary Sewer Rehabilitation, Phase 2

- Cured in Place Pipe lining of sewers with defects (inflow, infiltration, cracking, etc.).
- Manhole coatings and repairs to reduce inflow and infiltration (I/I).
- Vortex Services, LLC
- Construction: December 2025 – June 2027
- Budget \$2.3M

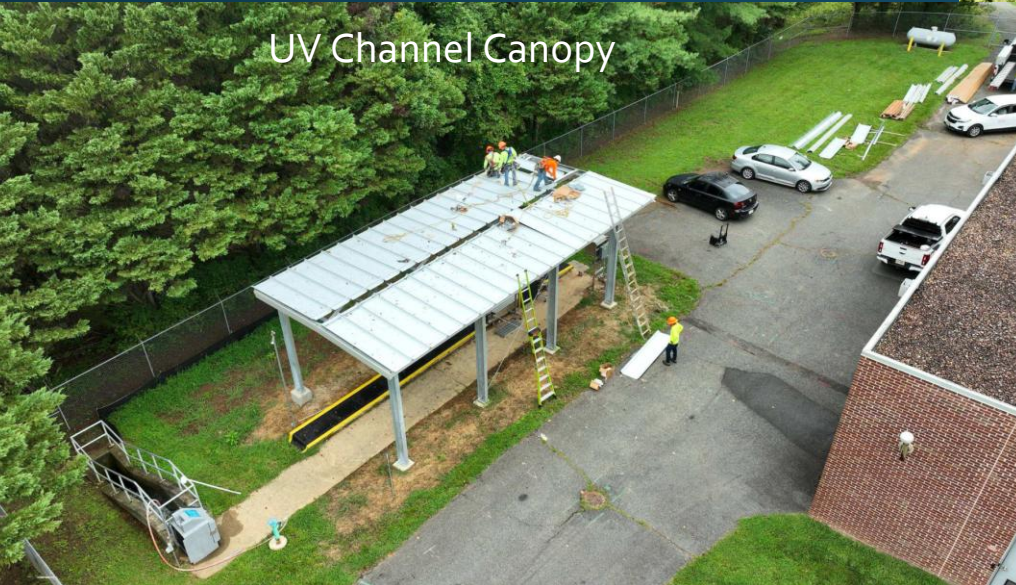


Coated Manhole



CIPP Lining

Glenmore Wastewater Plant Repairs – Phase 1



- Replace equipment at end of useful life (UV System and blowers; addresses noise issues with existing blowers)
- Blower and UV Canopy installation underway
- Maverick Construction
- Construction: June 2026 – August 2027
- Budget \$2 M

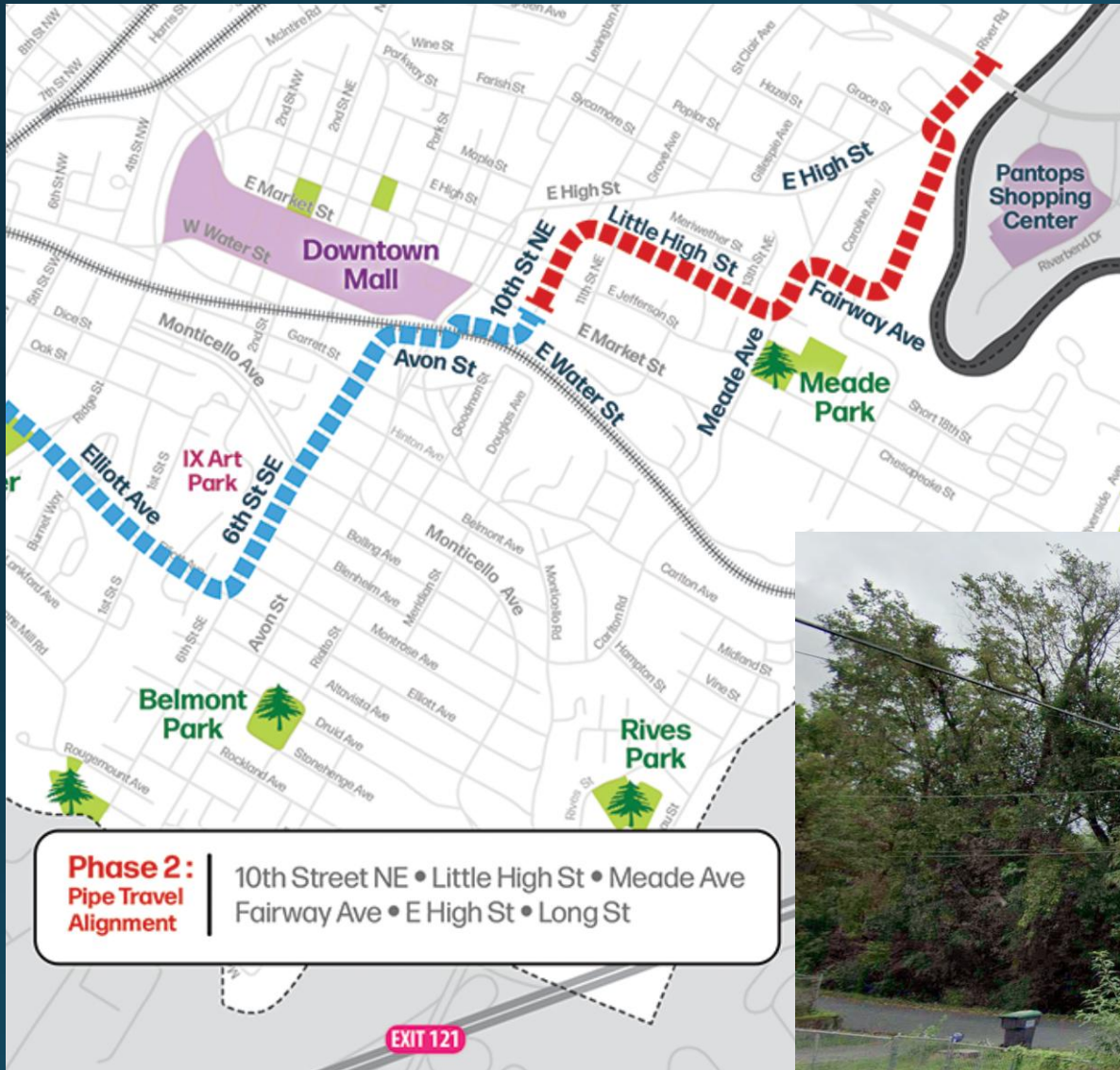
Scottsville Emergency Power Generator

- Replaces 1980s generator at SV Wastewater Plant
- Concrete ductbank and generator pad have been completed
- Carrick Construction
- Construction: April 2026 – June 2027
- Budget \$1.36M



Design Phase and Upcoming Construction Projects

Central Water Line – Phase 2



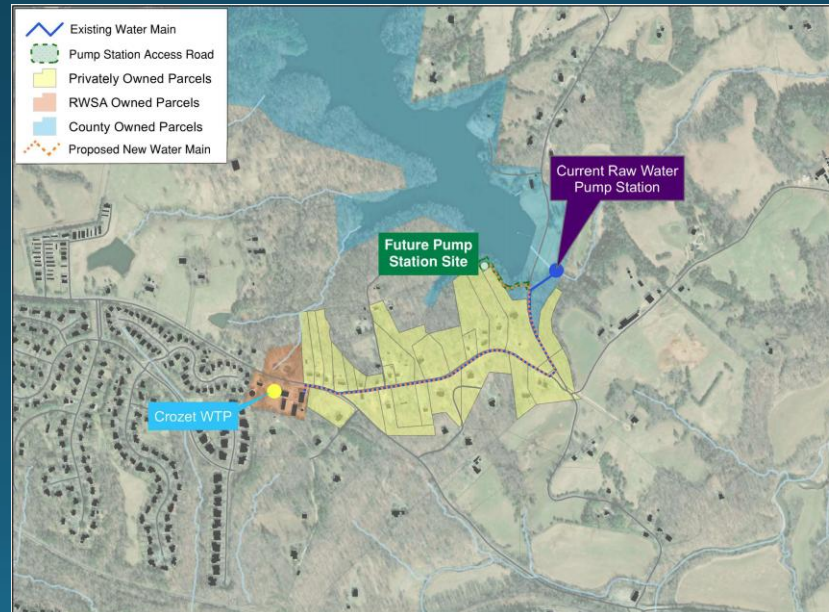
- Completes CWL, E. Market Street to Long Street
- Finalizing easement acquisition process and permits
- Construction for Phase 2:
March 2027 – December 2029
- Budget \$21 M



Intersection of Fairway Ave. and Caroline Ave.

Beaver Creek Pump Station, Piping & Dam Modifications

- Replace the raw water pump station, reservoir intake, and pipe to the Crozet WTP
- Replace the spillway to meet DCR dam safety standards
- Coordinate Brown's Gap bridge design with VDOT
- Complete pump station before starting dam modifications
- Construction:
 - Pump Station: March 2027 – December 2029
 - Dam: January 2030 – December 2032
- Budget \$72.5 M, anticipating \$20 M grant from NRCS



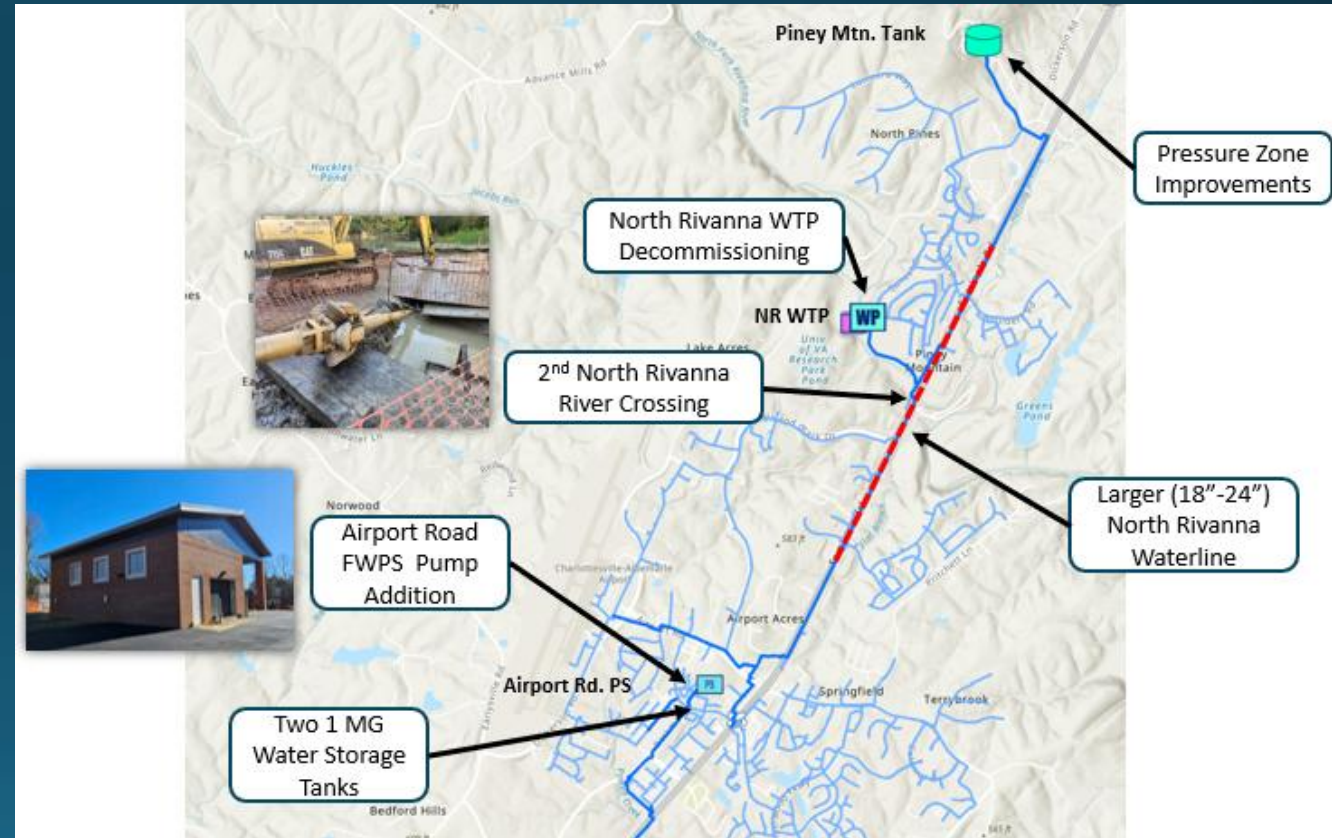
Airport Road Water Storage Tanks and Pumps

- 1 M gallon welded steel tank
- 2 additional 2.5 mgd pumps
- Construction:
March 2027 – March 2029
- Budget: \$7.2M



North Rivanna River Crossing and Piping

- 24" polyethylene pipe crossing under the river
- 2 miles of 24" ductile iron pipe to replace existing 12" cast iron
- Construction:
September 2027 – December 2030
- Budget: \$33M



Dam Concrete and Steel Repairs

- Concrete and steel repairs at the Lickinghole Creek, Totier Creek, South Rivanna, and Sugar Hollow Dams
- Concrete Injection Grouting
- Concrete Surface Repairs
- Steel hoist beam recoating
- Construction:
March 2027 – May 2028
- Budget: \$3 M



South Fork Rivanna Reservoir Dam

Water Tank Repairs and Painting

- Steel Repairs and Recoating of Tanks:
 - Buck's Elbow
 - Crozet Waterball
 - Woodburn Elevated
 - Pantops Ground Storage
 - Observatory Ground Storage
- Construction:
March 2027 – June 2030
- Budget: \$6.5 M



Woodburn Tank

Dam Public Safety Improvements

- Sirens, signage, boat barriers at Sugar Hollow, South Rivanna and Ragged Mountain Reservoirs
- Completion:
July 2027 – Dec 2028
- Budget: \$4 M



Sugar Hollow Siren



South Rivanna Reservoir



Ragged Mountain Reservoir

