



Board of Directors Meeting

March 28, 2023

2:15pm

BOARD OF DIRECTORS

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

DATE: **MARCH 28, 2023**

LOCATION: **Virtual Meeting via ZOOM**

TIME: **2:15 p.m.**

AGENDA

- 1. CALL TO ORDER**
- 2. AGENDA APPROVAL**
- 3. MINUTES OF PREVIOUS BOARD MEETING ON FEBRUARY 28, 2023**
- 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 Finance*
 - b. Staff Report on Operations*
 - c. Staff Report on Ongoing Projects*
 - d. Staff Report on Wholesale Metering*
 - e. Approval of Engineering Services – Moores Creek AWRRF Structural and Concrete Rehabilitation – Hazen and Sawyer Engineering*

9. OTHER BUSINESS

- a. Presentation and Approval: Introduction of FY 2023-2024 Budget and Approval of the Resolution to Adopt the Preliminary Rate Schedule*
Bill Mawyer, Executive Director

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

11. CLOSED MEETING

12. ADJOURNMENT

GUIDELINES FOR PUBLIC COMMENT AT RIVANNA BOARD OF DIRECTORS MEETINGS

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

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

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

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

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

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



RWSA BOARD OF DIRECTORS
Minutes of Regular Meeting
February 28, 2023

A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on Tuesday, February 28, 2023 at 2:15 p.m. in the Conference Room, Administration Building, 695 Moores Creek Lane, Charlottesville, Va.

Board Members Present: Michael Gaffney, Michael Rogers, Brian Pinkston, Ann Mallek, Lauren Hildebrand, Jeff Richardson, and Gary O'Connell.

Board Members Absent: None

Rivanna Staff Present: Bill Mawyer, Lonnie Wood, Deborah Anama, Betsy Nemeth, David Tungate, Victoria Fort, Michelle Simpson, Jennifer Whitaker.

Attorney(s) Present: Valerie Long.

1. CALL TO ORDER

Mr. Gaffney called the February 28, 2023, regular meeting of the Rivanna Water and Sewer Authority to order at 2:16p.m.

2. AGENDA APPROVAL

Mr. Gaffney asked if there were any comments or questions on the agenda from the Board members. Hearing none, he asked for a motion.

Ms. Mallek moved that the Board approve the agenda as presented. The motion was seconded by Mr. O'Connell and passed unanimously (7-0).

3. MINUTES OF PREVIOUS BOARD MEETING

a. Minutes of Regular Board Meeting on January 24, 2023

Mr. Gaffney asked if there were any comments, questions, or changes to the Board minutes.

Mr. Rogers moved that the Board approve the minutes of the January 24, 2023 meeting. The motion was seconded by Ms. Mallek and passed 6-0. (Mr. O'Connell abstained from the vote.)

4. RECOGNITIONS

There were no recognitions.

5. EXECUTIVE DIRECTOR'S REPORT

Mr. Mawyer stated that he had the opportunity to serve on a Utility Management Committee panel discussion, which met in Chesterfield earlier in the month, along with the Assistant Director of the Chesterfield Utilities Department and the Director of the Henrico Utilities Department. He stated that they had questions for the panelists to answer about topics including

47 the long-term water supply and what their thoughts were about the issue in the central Virginia
48 area, as well as regional partnerships, water reuse, emergency preparedness, workforce retention,
49 cybersecurity, and other topics. He stated that approximately 40 people attended the meeting as
50 well as many virtual attendees.

51
52 Mr. Mawyer stated that their insurance carrier, Virginia Risk Sharing Association, completed a
53 video that spotlighted Rivanna Authorities and how they had reduced reportable injuries by 82%
54 over the last three years. He stated that the video could be viewed online, with a part of the video
55 featuring our Safety Manager, Ms. Liz Coleman.

56
57 Mr. Mawyer stated that the Observatory Water Treatment Plant renovation continued to
58 progress. He stated that they closed around December 1, and it would likely be until April when
59 they were able to reopen the water treatment plant, but in the meantime, the South Rivanna and
60 North Rivanna Water Treatment Plants carried the load for the urban water system, including the
61 City and developed areas surrounding the City within the County.

62
63 Mr. Mawyer stated that they continued to work on major piping projects including the South
64 Rivanna Reservoir to Ragged Mountain Reservoir water line and the Ragged Mountain
65 Reservoir to Observatory Treatment Plant water line. He stated that Mr. Gaffney, some staff
66 members, and he were going to meet with the UVA Foundation on Friday to discuss the plans for
67 completing the acquisition of easements to get the pipes built.

68
69 Mr. Mawyer stated that the map displayed on the slide showed a black line of obtained
70 easements, and two remaining sections to be acquired from the UVA Foundation. He stated that
71 an acre of property would be acquired on Reservoir Road to build the pump station.

72
73 Mr. O'Connell asked what the orange section on the map indicated.

74
75 Mr. Mawyer stated that the orange section was UVA property.

76
77 Mr. O'Connell asked if there was more legal work to be done related to that.

78
79 Mr. Mawyer stated that our Senior Engineer, Ms. Victoria Fort, was working on the terms of the
80 easement with UVA. UVA wanted to confirm how wide the easement would be and to address
81 other issues such as trees that required protection along the way. He stated that the easement
82 extended from Fontaine Research Park to the Observatory WTP. He stated that there had been a
83 number of previous easements acquired from UVA, so it was not a new topic. He stated that with
84 the two new easements from UVAF and with easements from UVA, they would be fully able to
85 proceed into final design and construction.

86
87 Mr. Mawyer recognized Blake Shifflett and Maurice Whitlow, who both obtained their Class A
88 Commercial Driver's Licenses, which allowed them to operate large equipment on the public
89 roads. He stated that a team building event was held to celebrate the Super Bowl that went very
90 well, with Mr. David Jeffries winning the chili cook-off with his spicy beef chili. He stated that
91 thankfully, there were no outbreaks of Covid-19 after the event.

Mr. Mawyer noted that next month, the meetings for RWSA and for RSWA would be virtually held over Zoom.

Mr. Gaffney asked if a recording of the utility management committee meeting could be obtained.

Mr. Mawyer stated that he would make it available.

6. ITEMS FROM THE PUBLIC

Mr. Gaffney opened the meeting to the public. He asked speakers to identify their name and where they live, and to keep in mind the three-minute time limit.

Ms. Dede Smith thanked the Board for allowing virtual participation in the meeting and for publishing the meeting in the newspaper. She stated that on the agenda was the Capital Improvement Program for the next five years, which she was interested in. She stated that there was nearly quarter of a billion dollars in the urban system in the next five years, and she would like for a few questions to be answered.

Ms. Smith asked how many customers were in the urban area and whether or not there had been an observed increase in the overall drinking volume, which hovered around 10 million gallons per day, and had for the last 20 years. She stated that she wondered if there had been any rise yet, despite all of the population growth and development.

Mr. Gaffney closed items from the public.

7. RESPONSES TO PUBLIC COMMENT

Mr. Gaffney asked Mr. Mawyer if he had a response.

Mr. Mawyer stated that approximately 130,000 people were served in the urban system; the City had about 50,000 residents who were all included in the urban system, and about 80,000 people were served by the Albemarle County Service Authority in the urban system.

Mr. O'Connell stated that that number included Crozet. He stated that it was likely around 70,000 served by ACSA in the Urban water system.

Mr. Mawyer stated that there were then 120,000 people in total in the urban system. He stated that in regard to water use, it had been relatively constant, and they had not seen a major increase or decrease from the 10MGD usage.

Mr. Gaffney asked if they were only talking about residents, and not about businesses or people who did not reside in the area.

Mr. Mawyer stated that included residents and businesses.

Mr. O'Connell stated that he did not know how the University was counted, but other than the research parks, it was likely to be mostly residential customers.

Ms. Hildebrand stated that in the City there were about 95% residential customers.

Mr. Gaffney closed responses to public comment.

8. CONSENT AGENDA

a. Staff Report on Finance

b. Staff Report on Operations

c. Staff Report on Ongoing Projects

d. Staff Report on Wholesale Metering

e. Approval of Engineering Services – South Fork Rivanna Reservoir to Ragged Mountain Reservoir Pipeline Topographic Survey – Kimley-Horn

f. Approval of Betterment Agreement with Victorian Heights, LLC – South Rivanna Reservoir to Ragged Mountain Pipeline, Intake, & Facilities Project

g. Award of Term Contract for Geotechnical, Materials Testing, And Professional Engineering Services – Schnabel Engineering, LLC

Mr. Gaffney asked if there were any items a Board member wished to discuss or pull from the consent agenda. Hearing none, he asked if there was a motion.

Ms. Mallek moved that the Board approve the Consent Agenda. Mr. O’Connell seconded the motion, which passed unanimously (7-0).

9. OTHER BUSINESS

a. Presentation: Introduction of FY24-28 Capital Improvement Program
Bill Mawyer, Executive Director

Mr. Mawyer stated that a guiding principle of their strategic plan was to address evolving needs by planning, delivering, and maintaining dependable infrastructure and facilities in a financially responsible manner. He stated that the five-year CIP included 56 projects with a cost of \$326.1M over the five years.

Mr. Mawyer stated that the program was substantially driven by investment of \$210M in urban systems and major water piping projects, which made up 64% of the CIP. He stated that wastewater projects in the urban system totaled \$58.2M, and non-urban and shared water and wastewater projects that cost \$58.3M.

Mr. Mawyer stated that the non-urban category would include projects at the water treatment plants, water storage tanks, and reservoirs serving Crozet, Scottsville, and Red Hill areas of the

County. He stated that non-urban wastewater projects were those serving Scottsville, Glenmore, and Stone Robinson School. Non-urban water and wastewater projects were funded 100% by the Albemarle County Service Authority, so those were segregated in their funding and expenses. He stated that shared projects could include asset management and information technology projects. He stated that this year, a flood resilience study was being performed to prepare for changing climate conditions, since most sewer facilities were built near streams in low areas, where there may be more flooding in the future.

Mr. Pinkston asked what the differences between the completed versus available funding items were.

Mr. Mawyer stated that the completed funds were those that had already been paid toward projects that were currently active and included in the \$326.1M total. He stated that the available funding was from bonds or cash for these same projects but had not yet been spent.

Mr. Pinkston asked if completed funding included commitment or encumbered funds.

Mr. Mawyer stated that it was funding already paid for work in progress on projects that had not been completed and were still included in the \$326.1M. He stated that they did not operate on an annual appropriation basis, but rather if the project was still active, it was included in the five-year CIP, so some of the money included was for those ongoing projects. He stated that they had grants totaling \$20.6M and \$10.4M was planned to be used from reserves. He stated approximately \$94M needed to fund the CIP was already available, assuming they received the \$17M grant for the Beaver Creek Reservoir dam modification. He stated that new debt was estimated to be \$232M.

Mr. Mawyer stated that additional priorities of the FY24-28 CIP included completion of the South Fork Rivanna Reservoir to Ragged Mountain Reservoir Pipeline and Pumping project by 2030 rather than 2033. He stated that the reason for this was to enhance the capacity, reliability, and resiliency of our community's drinking water supply. Extended droughts and more intense storms were predicted and increasing the water storage capacity would optimize the infrastructure to mitigate this concern.

Mr. Mawyer stated that other priorities included provision of additional granular activated carbon treatment capacity at Crozet and Red Hill Water Treatment Plants to enhance drinking water quality and serve anticipated growth while utilizing grant funding from VDH, and leveraging of partnerships with the City, UVA, and VDOT on drinking water piping projects in Emmet Street in order to reduce costs and disruption to the public.

Mr. Pinkston asked if there were large water mains on that road and where they ran to and from.

Mr. Mawyer stated they were coming from the South Rivanna and Observatory Water Treatment Plants. He asked Ms. Whitaker if there were any other locations.

Ms. Whitaker stated that there were RWSA water lines from Observatory WTP heading north on Emmet Street past Lambeth Field Apartments, which turned into City water mains and that

section was not owned by Rivanna. At Hydraulic Road, the Rivanna water main picked back up. She stated that part of this project was filling in that gap in RWSA water lines in this corridor and replacing 50- or 60-year-old cast iron pipes.

Mr. Mawyer stated that the final priority of the CIP was to improve drinking water capacity and reliability in the Route 29 North area with additional river crossings at the South Rivanna and North Rivanna rivers, as well as construction of the Airport Pump station to strengthen infrastructure, support growth opportunities, and to allow decommissioning of the North Rivanna Water Treatment Plant.

Mr. Pinkston asked if this was reflective of the work the UVA Foundation was going to do near North Fork.

Mr. Mawyer stated that there was a phased plan for utility infrastructure to be built as construction at North Fork progressed, so they would coordinate with UVAF to bring capacity to them on these and other projects. He continued that the charge increases for the City would be 9.6% in FY24, 9.7% in FY25, 9.0% in FY26, 9.4% in FY27, and 10% in FY28. He stated that the charge increases for the ACSA would be 13.5% in FY24, 12.4% in FY25, 11.7% in FY26, 11.4% in FY28.

Mr. Mawyer stated that the charges included \$750,000 in grants awarded by Albemarle County in FY22, the VDH grant for GAC filters in FY23 for \$3.17M, with the FY23-26 grant awards pending, the Federal NRCS grant for BCR for the amount of \$17.4M, and the estimated annual increases in operating expenses. He stated that the rates given would not only support the CIP but the general operating expenses as well.

Mr. Richardson asked if the outyear increases included the expectation of achieving system redundancy and resiliency. He stated that much of the charge increases were associated with the aggressive and thoughtfully prepared CIP.

Mr. Mawyer stated that was correct. He stated that they had not yet fully completed the plan from 2002 to increase the water supply in the community, which was why they were proposing to build the Rivanna to Ragged Mountain pipeline as soon as possible to provide additional water for drought protection and future development. He stated that the community would have more capacity, resiliency, and opportunity for growth.

Mr. O'Connell stated that there were not many communities around the country that had the water supply that they were able to provide their customers, and doing so came at a large cost.

Mr. Mawyer stated that their water quality could be contributed to its source at the foot of the Blue Ridge Mountains. He continued that there was a significant increase to the five-year CIP from last year, in the amount of \$120.3M, which was driven in large part by inflation and scope increases on major projects.

Mr. Mawyer stated that \$75M of that was attributed to inflation and scope progression, and acceleration of three projects cost \$39.5M. He stated that 17 projects were moved into the FY24-

28 CIP, costing \$6.9M, and six new projects were added for a cost of \$7.7M. He added that six existing projects were completed, allowing for a decrease of \$8.8M.

Mr. Pinkston asked if the scope definition allowed for increased confidence in the costs.

Mr. Mawyer stated that estimates were often refined after receiving further involvement and detailed information.

Mr. Pinkston asked if there was a 30%-40% increase in the estimated cost of the Central Water Line project.

Mr. Mawyer stated that originally there was an estimate of \$14M which was updated to \$24M when the project was relocated from the southern loop area to the central area of the City, and going from preliminary engineering to detailed engineering, the cost increased to \$41M.

Mr. O'Connell asked if it had been bid yet.

Mr. Mawyer stated they expected to have construction bids by next year. He continued that the acceleration of the CIP over the 21-year history was affected in the most recent year by inflation and scope.

Mr. Gaffney stated that it would be informative to see how inflation over these same years was compared to the costs of the CIP.

Mr. Mawyer stated that it was estimated that general construction costs had risen by 20% in the last year, but it differed between projects. He stated that the long-range 15-year projection showed \$710M over that time, with the hope that grant amounts would bring the estimates down. He stated that they hoped to hear by the end of this calendar year about the \$50M in additional grants that had been applied for, and would continue to look for other grant opportunities.

Mr. Mawyer stated that in future years, they may need additional aeration basins at Moores Creek unless the issue could be solved in the community, because they had been receiving high-strength waste, which created a biological oxygen demand on the system. He stated that there was a regulation on how much of this waste could be released back into Moores Creek, and a study was being done to see what must be completed to minimize strong waste at the treatment plant.

Mr. Pinkston asked to see the previous slide. He asked if the hope was that this current CIP would be the peak.

Mr. Mawyer stated that that was the hope. He stated that 2020 was the Covid year when no projects were added in order to keep rates at a 0% increase. He reiterated that the current rate of increase was largely due to inflation and supply chain issues.

Mr. O'Connell stated that there had not been a period of significant increases since the years 2009 to 2013, which were largely driven by wastewater improvements.

321
322 Mr. O'Connell stated that this new increase was similar.
323

324 Mr. Mawyer stated that the CIP supported five water supply reservoirs totaling 3.3B gallons, six
325 water treatment plants with a capacity of 24 MGD, four wastewater treatment plants that
326 processed 15.59 MGD, seven wastewater pump stations, 11 water pump stations, 68 miles of
327 water distribution pipe, 117 valves, 44 miles of wastewater collection pipe, 717 manholes, and a
328 stormwater impoundment of the Lickinghole Creek Basin.
329

330 Mr. Mawyer stated that the major programs and projects included \$48M for upgrading water
331 treatment plants; \$100M for reliability and redundancy; \$30M for operations, maintenance, and
332 safety; \$43M for regulatory costs, and \$107M for capacity.
333

334 Mr. Mawyer stated that the South Rivanna and Observatory Water Treatment Plant renovations
335 would be completed in 2023 at a cost of \$43M, followed by the Ragged Mountain Reservoir to
336 Observatory Water Treatment Plant raw water pipe and pump station that cost \$44M over the
337 years 2024-2028, the Central Water Line at a cost of \$41M from 2024-2028, the South Rivanna
338 Reservoir to Ragged Mountain Reservoir raw water pipe proposed at \$80M for the years 2024-
339 2030, and the proposed raising of the Ragged Mountain Reservoir water level for \$2M over the
340 years 2028-2030.
341

342 Mr. Mawyer stated that the proposed timelines for raising the water level in Ragged Mountain
343 Reservoir would need discussion with the City, because the Agreement stated that they could not
344 raise that water level until 10 years before the demand equaled 85% of the supply, and they
345 estimated that would be the year 2035.
346

347 Mr. Pinkston asked why that was the case.
348

349 Mr. Mawyer stated that he understood there was concern over the destruction of the Ragged
350 Mountain nature area and the park that surrounded the reservoir, which was owned by the City.
351 He stated that his understanding was that the final agreement included that they could inundate
352 more land but not until it was absolutely necessary, defined by the demand equaling 85% of the
353 supply.
354

355 Mr. Pinkston asked what the 10 years was.
356

357 Mr. Mawyer stated that the Agreement allowed the project to raise the water level to begin 10
358 years before the demand equaled 85% of the supply.
359

360 Mr. Pinkston stated that they could be close to that now.
361

362 Ms. Mallek stated that 2025 was when they could be there.
363

364 Mr. Mawyer stated that demand was projected to be 85% of the supply in 2045, so 2035 would
365 give them that ten-year window to complete the infrastructure modifications and grading around
366 the reservoir necessary to raise the water.

367
368 Ms. Mallek stated that was true so long as it did not stop raining.
369

370 Mr. Rogers asked if there would be an escalation of funds required for that project to raise the
371 water level.
372

373 Mr. Mawyer stated that it would be in the amount of \$2M.
374

375 Mr. Gaffney stated that was the total project cost. He asked what that percentage was for the
376 City.
377

378 Mr. Mawyer stated that it was 20%. He stated that it included raising the water level in the
379 reservoir, but the pipeline to feed the reservoir was proposed to be accelerated, so the cashflow
380 could be required sooner. He stated that it did impact their charges, and the City shared 20% of
381 that cost.
382

383 Mr. O'Connell asked how much more capacity the 12-foot height increase would yield.
384

385 Mr. Mawyer stated that it would increase storage capacity 700MG, which was 50% more water
386 than what was currently held at Ragged Mountain.
387

388 Mr. O'Connell stated that the political agreement was to build the dam facility at the full height,
389 but they still had 12 more feet for water storage to be used at a later date. He stated that there was
390 an attempt to put in place a formula that would make it automatic, but given what had happened
391 over the last ten or 12 years, the formula would not work and the water level was not going to be
392 increased when this Ragged pipeline would be built. There was not a trigger for construction of
393 the pipeline in the Agreement, it would happen when the Rivanna Board approved the schedule.
394

395 Ms. Mallek stated that the cost escalation they were seeing would likely not decrease, so the
396 sooner the larger projects could be accomplished the better off they would all be.
397

398 Mr. Mawyer stated that as part of the climate action initiatives of the City and the County, it was
399 Rivanna's part to provide adequate water supply for the community.
400

401 Ms. Mallek stated that that element was not mentioned as much in 2009 as much as it should
402 have been.
403

404 Mr. Gaffney stated that a local photographer showed him a photograph of the Sugar Hollow
405 Reservoir in 1978, when it was just mud.
406

407 Mr. Mawyer asked if that was due to drought.
408

409 Mr. Gaffney stated yes.
410

411 Ms. Hildebrand stated that from a technical standpoint, it made sense to align raising the water
412 level as the pipeline was being finished.

Mr. O'Connell stated that the expansion of the Observatory Water Treatment Plant and connection to the Ragged Mountain Reservoir gave the ability to serve the entire urban system if the South Rivanna side failed, so there was ultimate redundancy for emergencies and droughts.

Mr. Pinkston stated that he would be interested in understanding more about raising the water level if it were time to consider it, and if there was an action by Council necessary, what would be involved. He stated that it was important to base these decisions on climate change, and if they were to have another drought of record when some of the larger projects had been completed, but they did not yet have more capacity at the Rivanna Reservoir and the upgrades to the Observatory, but did have the Ragged Mountain completed, he would like to know what their situation would be.

Mr. Mawyer stated that they had improved the water supply system by about 900MG, because Ragged Mountain Reservoir had increased in storage capacity from 500MG to 1.4BG and could increase to 2.1BG with the extra 700MG after raising the water level. He stated that based on 10MGD of typical usage, they have 90 additional days of supply now, and would have an additional 70 days of storage when the water level is raised. He stated that they could treat the additional water supply at Observatory, but they would have difficulty getting major amounts of water out of Observatory until the Central Water Line was constructed.

Mr. Pinkston stated that he applauded the attempt to bring forward the schedule by three years for the \$80M major connecting link. He stated that at the same time, he was concerned about the approximate 1/3 of the budget increase that was due to scope definition of existing projects as well as inflation, and with 10% year-over-year, that was exponential growth in rates.

Mr. Mawyer clarified that those rate increases were in the charges to the City and the ACSA, but may or may not be reflected in the charges to retail customers.

Mr. Pinkston stated that there was an actual escalation that they had to face of the projects that were already undergoing, versus the escalation of schedule acceleration of the South Rivanna to Ragged Mountain raw water pipe.

Mr. Gaffney stated that Mr. Pinkston had asked what would happen if they received another drought of record. He stated that the drought of record was a two-year period.

Mr. Gaffney stated that without a pipeline, they were currently structured so that they would use the South Fork Rivanna Reservoir until it got to a level at which they had to utilize Ragged Mountain. He stated that when South Fork did not refill because no water was coming in, but they were piping it from Sugar Hollow, resulting in Sugar Hollow getting low and subsequently Ragged Mountain going down. He stated that a six-inch rain would fill South Fork, and if they had the pipe, they could put 25MGD into Ragged to fill that reservoir instead of putting only 3MGD from Sugar Hollow.

Mr. Pinkston stated that he appreciated and understood the plan. He stated that his perspective was from risk management, which was that if they did not accelerate this at three years, they had

more of a chance of having water supply challenges, but on the other hand it was a significant expenditure on top of the other projects.

Mr. O'Connell stated that the same question was asked at the budget committee, and his conclusion was that it was a minimal increase because of the way that Rivanna funded their projects.

Mr. Gaffney stated that the project had begun in 2002 and was yet to be completed.

Ms. Mallek stated that although recent amounts of rain had been increasing, there had been notable periods of light rain or drought, which was concerning because people were not focused on conservation, assuming that the rain would come soon. Ms. Mallek stated that in the years preceding the 2002 drought of record the rainfall dropped from the typical 35-40 inches to 16-20 inches and then 11-12 inches in 2002. She stated that the County was 9 days away from stopping the issuance of building permits and UVA was 9 days away from sending students home, which would have been a dramatic impact on our local economy. She stated that the impacts on the economy of a critically low water supply would be as bad as the impacts of the worst of the Covid-19 pandemic. She stated that the impacts of population growth were not fully recognized in their discussions about water supply. Ms. Mallek stated that Rivanna has been thorough and thoughtful in their planning, and she was very supportive of the detail and direction of the plans so that people could continue to live in the County.

Mr. Mawyer stated they had calculated it would be a 0.6% increase in Rivanna's FY 24 charge to the City to accelerate the pipeline project.

Mr. Richardson asked if the acceleration was for three years.

Mr. Mawyer stated yes.

Mr. Richardson stated that there were capacity issues such as staff resources, undergoing multiple projects at the same time, and the optimal time to take on additional debt.

Mr. Mawyer stated that they would be taking on more debt sooner than initially planned, but that was weighed against the 25 years since the last drought, and wanted to maximize the infrastructure as planned.

Ms. Mallek stated that in the newspaper this week was information about the Roanoke Reservoir, specifically that the contamination they were dealing with used up the capacity of the GAC than they thought it would, so the amount of PFAS spiked to 35 parts per trillion. She asked if there may be a need to be speed up that regeneration in their own community.

Mr. Tungate stated that they managed their GAC inventory now focusing on organic carbon removal, so if their primary contaminant of concern transitioned to PFAS, they would have to come up with a new regeneration model.

Ms. Mallek asked if that would necessitate faster regeneration due to the increased use.

Mr. Tungate stated that was the current thought. He stated that they would have to come up with a model to transition and regenerate the GAC based on the rate of adsorption of the PFAS contaminant.

Mr. Mawyer stated that they regenerated the GAC media, which was a process to ship the media to a facility to have the contaminants removed and then the GAC was returned to be used again. He stated that they had to add some new GAC during this regeneration process.

Mr. Mawyer continued that in addition to the water projects, they were doing other related projects such as the Airport Road water pump station and piping, MC 5kv electrical upgrade system at Moores Creek, the South Fork Rivanna River crossing, the GAC filters for Crozet and Red Hill Water Treatment Plants, the renovation and addition to the administration building, and the Beaver Creek Dam, pump station, and piping modifications.

Mr. Mawyer stated that for Beaver Creek, they were to replace the spillway to meet Virginia dam safety standards, replace the raw water pump station, intake, and pipe to the Crozet Water Treatment Plant. He stated that the spillway was a proposed labyrinth spillway with a bridge.

Ms. Mallek asked how the spillway was oriented in relation to the dam water.

Ms. Whitaker stated that the water would be adjacent to the labyrinth, with the concrete spillway chute below the labyrinth. Our spillway chute would be straight and not angled as in the example shown.

Mr. Mawyer stated that the Emmet Street Water Line Betterment Program was another project to be completed in this CIP and included multiple piping projects to be completed in concert in order to reduce costs and impacts to the public.

Mr. Mawyer stated that the FY24-28 CIP supported the mission and goals of the RWSA. He concluded that the objectives of the CIP were to maintain their drinking water and wastewater infrastructure to provide reliable services which complied with or exceeded regulatory requirements and, to complete the Rivanna Reservoir to Ragged Mountain Reservoir Pipeline and pumping project by 2030 rather than 2033.

Mr. Mawyer stated that the other objectives were to provide additional GAC treatment capacity at Crozet and Red Hill WTPs, to leverage partnership with the City, UVA, and VDOT on drinking water piping projects located on Emmet Street, to improve drinking water capacity and reliability in the Route 29 North area, and to complete the CIP in an environmentally protective and financially responsible manner.

Mr. Mawyer concluded that the FY24-28 CIP contained 56 projects and a total of \$326.1M. He stated that they had drafted four or five CIPs to find the most optimal and affordable plan. He stated that the debt service was about 50% of their operating budget, which he would be presenting next month, and would result in an overall estimated charge increase to the City of 9.6% and to the ACSA of 13.5% in FY24. He stated that no action was requested of the Board

551 today, and this information would be presented in May after the public hearing as a request for
552 approval of the CIP and the operating budget.

553
554
555 *b. Presentation: Unregulated Contaminant Monitoring Rule 5 & Permanganate Update*
556 *David Tungate, Director of Operations*

557 Mr. Tungate, Director of Operations, stated that there are a series of steps to establishing new
558 National Primary Drinking Water Regulations. The first step is a requirement from the Safe
559 Drinking Water Act amendments of 1996 that the Environmental Protection Agency publishes a
560 Contaminant Candidate List (CCL). This list is published every five years and it is a list of
561 currently unregulated contaminants which may pose risks to human health in drinking water.

562
563 Mr. Tungate stated that the second step of the regulation process was that the EPA must choose
564 no fewer than five contaminants from the CCL to determine whether to regulate them with a
565 National Primary Drinking Water Regulation. The third step was the issuance from the EPA of
566 the list of no more than 30 unregulated contaminants to be monitored by Public Water Supplies
567 in the form of the Unregulated Contaminant Monitoring Rule (UCMR).

568
569 Mr. Tungate stated that the Contaminant Candidate List 5 was published in November 2022 with
570 66 individual chemicals, three groups of chemicals, and 12 microbes. The three chemical groups
571 were cyanotoxins, or chemicals produced by blue green algae; disinfection by-products (DBPs),
572 or chemicals produced during water treatment process when organic matter combined with a
573 disinfectant like chlorine; and per and poly fluoroalkyl substances (PFAS), or a class of synthetic
574 compounds used to make products resistant to water, heat, and stains. There are more than 4,000
575 PFAS compounds used since the 1940s.

576
577 Mr. Tungate stated that Chemical Contaminant Candidate List 5 included 23 unregulated DBPs
578 and PFAS contaminants that met certain carbon-fluoride structures, and 13 microbes. He stated
579 that RWSA will begin sampling for UCMR in May 2023.

580
581 Mr. Tungate stated that usually, these water quality monitoring rules systems only applied to
582 large public water systems because these large systems have the financial ability to pay for these
583 tests. However for UCMR5, the EPA would choose 800 randomly selected small public water
584 systems that served less than 3,000 people, all medium systems that serve between 3,300 and
585 10,000 people and all large water systems that service more than 10,000 people. This was done
586 in order to get a UCMR 5 samples from all sizes of public water systems, He stated that their
587 own systems were over 10,000 people except for the Red Hill and Scottsville systems.

588
589 Mr. Tungate stated that there were only two approved laboratory methods for PFAS analysis,
590 533 and 537.1. Together both of these methods will be able to test for 29 PFAS compounds. He
591 stated that out of the 30 contaminants allowed to be on the UCMR 5 list, 29 of them are PFAS
592 and the other contaminant is Lithium. He stated that the minimum reporting levels for PFAS
593 were 0.002 micrograms/L, or 2 parts per trillion.

594
595 Ms. Mallek asked if both tests could be used to accurately report the 29 PFAS.

596
597 Mr. Tungate stated that between both tests, all 29 would be able to be analyzed. He stated that
598 water samples were collected after the final step in the water treatment process, which was the
599 entry point to the distribution system. He stated that the samples were going to be collected
600 quarterly for one year at our five surface water treatment plants and every six months for one
601 year at Red Hill because it was a groundwater system. He stated that sampling analysis costs
602 were approximated to be \$23,000, and that Scottsville and Red Hill systems were included in the
603 sampling program for parity with all of our water treatment systems.

604
605 Mr. Tungate stated that due to the pervasive nature of PFASs, RWSA samplers must avoid
606 wearing clothing or boots containing Gore-Tex material or fabric softeners, avoid using
607 cosmetics, moisturizer, or insect repellants, and must use PFAS-free sunscreens. He stated that
608 this was meant to avoid potential contamination and subsequent false PFAS detections in the
609 water sample.

610
611 Mr. Tungate stated that the samplers must also only use ballpoint pens for labeling PFAS sample
612 bottles and must wash their hands and immediately put on nitrile gloves at each sampling
613 location. He stated that field reagent blanks were also provided to measure the PFAS
614 contribution from the sampling environment, personnel, and shipping conditions.

615
616 Mr. Tungate explained that the lab would submit PFAS-free water to each sampling site and it
617 would be used to create blanks at every sampling location. He displayed images of the sample
618 containers on the slide. He stated that there would be seven individual bottles for each sample
619 location. He summarized that the data gathered from the UCMR 5 would help EPA regulators
620 determine the prevalence of unregulated contaminants in drinking water, which may eventually
621 lead to additional National Primary Drinking Water Standards.

622
623 Mr. Tungate stated that establishing the presence and concentrations of these chemicals in public
624 water systems across the United States was one part of the process. The other part of the process
625 was establishing the concentration of the chemicals that causes adverse impact on humans. The
626 other consideration is the practical matters of how to treat the water to the new levels and how
627 public water systems can pay for it; not all systems were forward-thinking and had the resources
628 to treat the chemicals.

629
630 Mr. Pinkston clarified that the point of this testing was to see how much of the chemicals were
631 out in the environment.

632
633 Mr. Tungate stated yes. He stated that RWSA currently tests for PFAS in our water and
634 wastewater systems every six months, and they questioned each time if the contributions of
635 PFAS were from the environment or directly in the water. He stated that the EPA was trying to
636 determine what was a true positive sample and what was introduced from the environment after
637 the sample was taken.

638
639 Mr. Pinkston asked if these were possible carcinogenic materials.

640
641 Ms. Mallek stated that these had been officially declared carcinogenic chemicals.

642 Mr. Pinkston asked if this was the issue currently occurring in Roanoke.

643
644 Mr. Tungate stated that the area affected was Spring Hollow reservoir in the Western Virginia
645 Water Authority system.

646
647 Mr. Pinkston asked if there was a specific source of the PFAS.

648
649 Mr. Mawyer stated that the source was a business that cleaned industrial equipment, and their
650 rinse water was getting into the river which was pumped to the reservoir.

651
652 Mr. Gaffney asked if any of our raw water was tested by Rivanna.

653
654 Mr. Tungate stated that yes. We tested raw water as well as finished water for PFAS to assess
655 any contribution from internal operations. He stated that the UCMR 5 will require testing of only
656 finished water.

657
658 Mr. Gaffney asked if there had ever been a test performed at the landfill.

659
660 Mr. Mawyer stated that they tested their raw water, finished water, and landfill leachate as well.
661 He stated that the leachate that came out of the landfill cells was brought back to be treated at
662 Moores Creek, so if PFAS was going out of the treated wastewater, that was one of the potential
663 sources.

664
665 Ms. Hildebrand stated that in that case, it was not in their drinking water supply.

666
667 Mr. Mawyer stated that Moores Creek is not in our drinking water watershed, although the Ivy
668 MUC is within the watershed of the South Rivanna Reservoir.

669
670 Mr. Tungate stated that the next item he would discuss was the Carus Chemical's facility fire and
671 permanganate production status. He stated that Carus Chemical was the largest domestic
672 provider of potassium and sodium permanganate, providing more than 50% of the supply in the
673 United States. It is used as a strong oxidizer and a secondary water treatment chemical for the
674 removal of dissolved iron and manganese as well as taste and odors in drinking water. He
675 indicated the top righthand image on the slide of the immediate application of permanganate, and
676 the lower righthand image of 30 minutes after the application of permanganate, noting the color
677 change from pink to brown.

678
679 Mr. Tungate stated that on January 11, 2023, Carus Chemical had a fire at its permanganate
680 production facility, and due to the fire damage, the company was unable to fill any orders for 90
681 days, which had led to a national shortage of potassium permanganate and sodium
682 permanganate, and were expected to begin permanganate production again by April 1, 2023.

683
684 Mr. Tungate stated that the bulk sodium permanganate tank at South Rivanna held 5,500 gallons,
685 and their typical usage from January through April was 10 gallons per day, and May through
686 December had a usage of 30 gallons per day. He stated that the increased usage was due to the
687

warmer water in the summer that required more treatment.

Mr. Tungate stated that the current inventory was 5,000 gallons, equal to seven months of product. He stated that they had been successful in leveraging relationships with other wholesale permanganate suppliers to maintain the inventory. He showed an image of the four new GAC vessels added at the Observatory Water Treatment Plant.

Ms. Mallek stated that soot from large fires could be carried downwind into different states, and acid rain had been a historical problem in the area. She asked if there were tests available to test for constituents from the fires in Ohio and Illinois.

Mr. Tungate stated that they could test for those, as it was a simple process. He stated that the prevailing winds from Ohio could go north and not south toward Virginia.

Mr. Mawyer stated that part of the CIP included additional capacity of chemical products needed so that if a catastrophe arose, they would have adequate supplies and their facilities would not be under stress to have consistent product deliveries or from a lack of treatment availability.

Mr. Tungate stated that prior arrangements had not been efficient in regard to truck deliveries, but they now had much better supply systems.

Ms. Mallek stated that she appreciated planning ahead.

10. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA

Mr. Mawyer reminded the Board that the meeting next month would be held virtually.

11. CLOSED MEETING

There was no reason for a closed meeting.

12. ADJOURNMENT

At 3:41 p.m., Mr. Pinkston moved to adjourn the meeting of the Rivanna Water and Sewer Authority. Mr. Rogers seconded the motion, which passed unanimously.



MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: MARCH 28, 2023

STRATEGIC PLAN PRIORITY: WORKFORCE DEVELOPMENT

Recognitions

The professional credentials 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:

- Seth Marshall - Class 2 Water Operator
- Keith Covington - Class 1 Water Operator

STRATEGIC PLAN PRIORITY: PLANNING AND INFRASTRUCTURE

Observatory WTP Renovation

We will resume production of drinking water at the Observatory WTP later this spring/summer after all systems have been successfully completed and tested. The South Rivanna and North Rivanna WTPs will serve the Urban Water System (City and adjacent areas of the County) until that time.

Other Major Projects

1. We recently had productive meetings with UVA and UVAF to acquire final easements on the following major water piping projects:
 - S. F. Rivanna to Ragged Mtn Reservoir Water Pipe: 8 miles of 36" pipe
 - Ragged Mtn Reservoir to Observatory WTP Water Pipe and Pump Station: 5 miles of 36" pipe
2. After a detailed review by our City/ACSA/RWSA team, engineering plans and specifications are moving forward to the 60% completion stage for the Central Water Line project to be constructed along Cherry Avenue.

STRATEGIC PLAN PRIORITY: COMMUNICATION AND COLLABORATION

Fix A Leak Events

We are celebrating Fix A Leak Month in March along with the City and ACSA, hosting events to encourage our community to save water. Fix a Leak 2023 events include a Home Fix A Leak Scavenger Hunt and a Virtual Fix A Leak Family 5K. All events are free and open for participation by anyone in the City of Charlottesville and Albemarle County.



The poster is for "Fix A Leak Month Events" and is set within a dark blue rectangular border. At the top center, the text "SAVE THE DATE" is in a light blue, sans-serif font, followed by "FIX A LEAK MONTH EVENTS" in a larger, bold, blue font. Below this, "MARCH 1ST - 31ST" is written in a smaller, bold, blue font. A light blue rectangular box in the center contains the text "Fix a Leak Home Scavenger Hunt" and "Virtual Fix a Leak Family 5K" in a dark blue font. On the left and right sides of the poster are two cartoon water drop characters. The one on the left is wearing a brown trench coat and a magnifying glass. The one on the right is wearing a blue cap and holding a wrench. At the bottom of the poster, there are three logos: "Fix a Leak Week" (March 20-26, 2023), "Albemarle County Service Authority" (Stronger Community), and "RIVANNA WATER & SEWER AUTHORITY". Below the logos, a paragraph of text states: "All events are FREE and open to the Charlottesville and Albemarle County community to participate! When you submit your scavenger hunt or sign up and run the 5K by March 31st, you will be entered to win special PRIZES!". At the very bottom, a dark blue banner contains the website "Charlottesville.gov/FixALeak" in white text.

SAVE THE DATE
FIX A LEAK MONTH EVENTS
MARCH 1ST - 31ST

Fix a Leak Home Scavenger Hunt
Virtual Fix a Leak Family 5K

 March 20-26, 2023
 **Albemarle County Service Authority**
 **RIVANNA**
WATER & SEWER AUTHORITY

All events are FREE and open to the Charlottesville and Albemarle County community to participate! When you submit your scavenger hunt or sign up and run the 5K by March 31st, you will be entered to win special PRIZES!

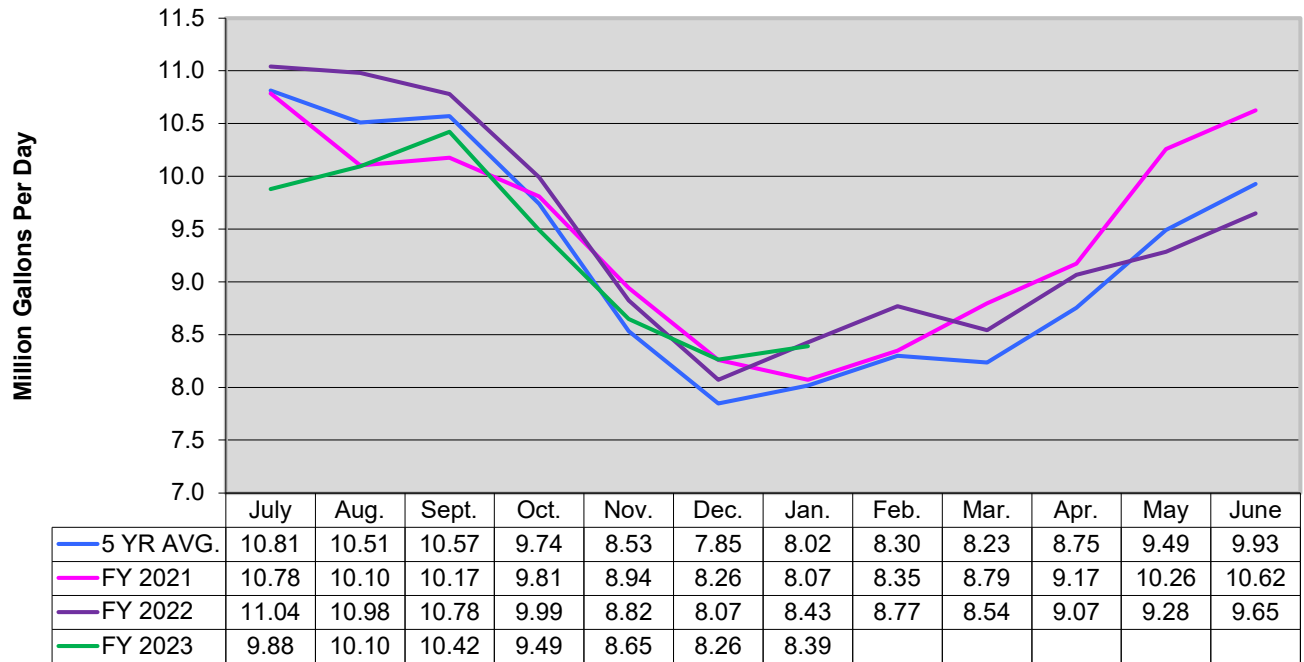
Charlottesville.gov/FixALeak

Remembering Ken Boyd

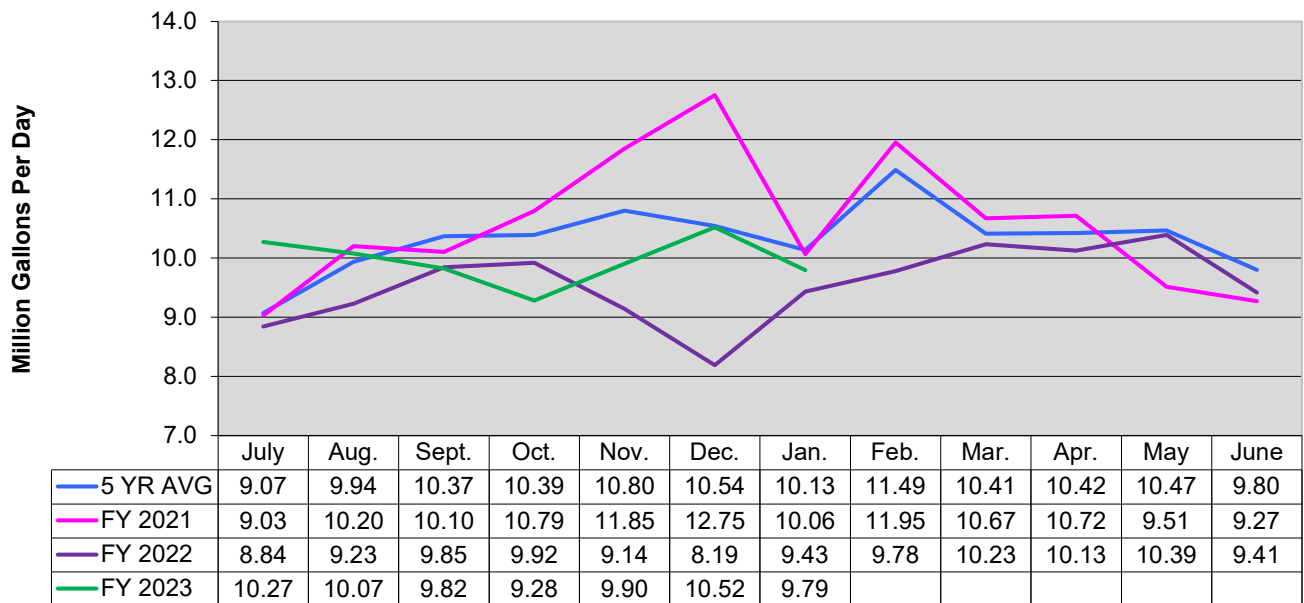
Mr. Ken Boyd, former member of the Board of Supervisors of Albemarle County and Rivanna Authorities Board member, passed away of February 21, 2023. Mr. Boyd was passionate about serving the community and supported both authorities from January 2010 through December 2015.

**Rivanna Water and Sewer Authority
Flow Graphs**

Urban Water Flows



Urban Wastewater Flows



MEMORANDUM

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

FROM: LONNIE WOOD, DIRECTOR OF FINANCE AND ADMINISTRATION

REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: JANUARY 2023 MONTHLY FINANCIAL SUMMARY – FY 2023

DATE: MARCH 28, 2023

Financial Snapshot

January ended with an overall net deficit of \$57,600. Operating rate revenues for the first seven months of the fiscal year are above average, and we received the annual payment from the County for the septage receiving support agreement. However, operating expenses are currently over the prorated annual budget. Total revenues are \$1.168 million over budget estimates, and total expenses are \$1.226 million over budget. Revenues and expenses are summarized in the table below:

	Urban Water	Urban Wastewater	Total Other Rate Centers	Total Authority
Operations				
Revenues	\$ 5,493,778	\$ 6,127,238	\$ 1,522,423	\$ 13,143,439
Expenses	(5,514,830)	(6,259,579)	(1,554,811)	(13,329,220)
Surplus (deficit)	\$ (21,052)	\$ (132,341)	\$ (32,388)	\$ (185,781)
Debt Service				
Revenues	\$ 5,091,189	\$ 5,547,138	\$ 1,389,991	\$ 12,028,318
Expenses	(5,060,644)	(5,457,308)	(1,382,192)	(11,900,144)
Surplus (deficit)	\$ 30,545	\$ 89,830	\$ 7,799	\$ 128,174
Total				
Revenues	\$ 10,584,967	\$ 11,674,376	\$ 2,912,414	\$ 25,171,757
Expenses	(10,575,474)	(11,716,887)	(2,937,003)	(25,229,364)
Surplus (deficit)	\$ 9,493	\$ (42,511)	\$ (24,589)	\$ (57,607)

A more detailed financial analysis is in the following monthly report which reviews more closely actual financial performance compared to budgeted estimates. There are comments listed that 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 Authority's actual operating revenues through January are \$632,000 over the prorated annual budget estimates, and operating expenses exceed budget by \$817,000. The following comments help explain most of the other budget vs. actual variances.

- A. Annual and Quarterly Transactions - Some revenues and expenses are over the prorated year-to-date budget due to one-time receipts of revenues for the year and quarterly or annual payments of expenses. These transactions appear to be significant impacts on the budget vs. actual monthly comparisons but 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 for leases, health savings account contributions, and certain maintenance agreements. Insurance premiums are paid quarterly.
- B. Personnel Costs (Urban Wastewater – page 5) – Urban Wastewater salaries are higher than budget due to salary overlap in one position and payout of accumulated leave upon leaving employment.
- C. Professional Services (Urban Wastewater, Glenmore Wastewater, Administration – pages 5, 6, 8) – Urban Wastewater and Glenmore Wastewater spent \$10,000 and \$15,000, respectively, on unbudgeted engineering and technical services for various surveys and studies. The Administration department incurred \$62,000 of unbudgeted engineering and technical services for grant program strategy and application development.
- D. Other Services & Charges (Urban Water, Crozet Water, Urban Wastewater – pages 2, 3, 5) – Urban Water paid some annual watershed management costs, as budgeted, and utilities are running high. Some of Urban Wastewater's costs in this category are running higher than originally estimated, such as odor control chemical costs for the Crozet Pump Station, the cost of sludge hauling for composting, permit costs, and utilities.
- E. Information Technology (Urban Water, Urban Wastewater, Administration – pages 2, 5, 8) – Urban Water incurred some unbudgeted computer hardware purchases. The Administration department has spent \$79,800 more than its annual budget in this category for computer hardware and software costs. Urban Wastewater is over budget on SCADA Standard Graphics Rollout costs.
- F. Communication (Administration – page 8) – The Administration department switched to a new telephone system which was not included in the budget.
- G. Operations and Maintenance (Scottsville Water, Urban Wastewater, Maintenance, Lab – pages 4, 5, 9, 10) – Scottsville Water is over the prorated budget for chemicals due to a \$19,000 carbon exchange. Urban Wastewater paid \$86,000 for an annual equipment maintenance contract, and its chemical costs are running higher than originally estimated. The Maintenance department is slightly over the prorated budget on supplies and fuel costs. The Lab is also over budget on supplies.

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023
Fiscal Year 2023

Consolidated
Revenues and Expenses Summary

<i>Budget</i>	<i>Budget</i>	<i>Actual</i>	<i>Budget</i>	<i>Variance</i>
<i>FY 2023</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		\$ 20,614,425	\$ 12,025,081	\$ 12,507,678	\$ 482,597	4.01%
Lease Revenue		85,000	49,583	68,714	19,131	38.58%
Admin., Maint. & Engineering Revenue		656,000	382,667	409,983	27,317	7.14%
Other Revenues		639,036	372,771	405,498	32,727	8.78%
Use of Reserves-GAC		150,000	87,500	102,400	14,900	17.03%
Interest Allocation		7,170	4,183	59,148	54,965	1314.17%
Total Operating Revenues		\$ 22,151,631	\$ 12,921,785	\$ 13,553,422	\$ 631,637	4.89%

Expenses

Personnel Cost	B	\$ 10,494,727	\$ 6,121,924	\$ 6,155,625	\$ (33,701)	-0.55%
Professional Services	C	629,900	367,442	462,450	(95,008)	-25.86%
Other Services & Charges	A, D	3,427,460	1,999,352	2,191,831	(192,479)	-9.63%
Communications	F	200,342	116,866	150,516	(33,649)	-28.79%
Information Technology	E	816,626	476,365	794,209	(317,844)	-66.72%
Supplies		39,950	23,304	30,308	(7,004)	-30.05%
Operations & Maintenance	A, G	5,222,531	3,046,476	3,284,850	(238,374)	-7.82%
Equipment Purchases		420,100	245,058	144,415	100,643	41.07%
Depreciation		900,000	525,000	525,000	-	0.00%
Total Operating Expenses		\$ 22,151,636	\$ 12,921,788	\$ 13,739,203	\$ (817,415)	-6.33%
Operating Surplus/(Deficit)		\$ (5)	\$ (3)	\$ (185,782)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue		\$ 19,522,929	\$ 11,388,375	\$ 11,388,377	\$ 2	0.00%
Septage Receiving Support - County	A	109,440	63,840	109,440	45,600	71.43%
Buck Mountain Lease Revenue		1,600	933	1,480	546	58.52%
Trust Fund Interest		990	578	82,603	82,026	14203.58%
Reserve Fund Interest		64,230	37,468	446,419	408,951	1091.48%
Total Debt Service Revenues		\$ 19,699,189	\$ 11,491,194	\$ 12,028,318	\$ 537,125	4.67%

Debt Service Costs

Total Principal & Interest		\$ 16,165,241	\$ 9,429,724	\$ 9,429,724	\$ -	0.00%
Reserve Additions-Interest		64,230	37,468	446,419	(408,951)	-1091.48%
Debt Service Ratio Charge		725,000	422,917	422,917	-	0.00%
Reserve Additions-CIP Growth		2,744,717	1,601,085	1,601,085	-	0.00%
Total Debt Service Costs		\$ 19,699,188	\$ 11,491,193	\$ 11,900,144	\$ (408,951)	-3.56%
Debt Service Surplus/(Deficit)		\$ 1	\$ 1	\$ 128,174		

Summary

Total Revenues	\$ 41,850,820	\$ 24,412,978	\$ 25,581,740	\$ 1,168,762	4.79%
Total Expenses	41,850,824	24,412,981	25,639,347	(1,226,367)	-5.02%
Surplus/(Deficit)	\$ (4)	\$ (2)	\$ (57,607)		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Urban Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2023</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
---------------------------	--------------------------------	--------------------------------	------------------------------	--------------------------------

Operating Budget vs. Actual

Notes

Revenues

Operations Rate Revenue	\$ 9,014,863	\$ 5,258,670	\$ 5,310,322	\$ 51,652	0.98%
Lease Revenue	60,000	35,000	50,164	15,164	43.33%
Miscellaneous	-	-	6,405	6,405	
Use of Reserves-GAC	150,000	87,500	102,400	14,900	17.03%
Interest Allocation	3,000	1,750	24,487	22,737	1299.27%
Total Operating Revenues	\$ 9,227,863	\$ 5,382,920	\$ 5,493,778	\$ 110,858	2.06%

Expenses

Personnel Cost	\$ 2,234,714	\$ 1,303,583	\$ 1,297,962	\$ 5,621	0.43%
Professional Services	222,000	129,500	115,939	13,561	10.47%
Other Services & Charges	716,300	417,842	512,520	(94,678)	-22.66%
Communications	100,920	58,870	61,433	(2,563)	-4.35%
Information Technology	104,950	61,221	70,850	(9,629)	-15.73%
Supplies	5,400	3,150	5,195	(2,045)	-64.93%
Operations & Maintenance	2,511,396	1,464,981	1,428,558	36,423	2.49%
Equipment Purchases	16,000	9,333	10,951	(1,618)	-17.34%
Depreciation	300,000	175,000	175,000	-	0.00%
Subtotal Before Allocations	\$ 6,211,680	\$ 3,623,480	\$ 3,678,408	\$ (54,928)	-1.52%
Allocation of Support Departments	3,016,183	1,759,440	1,836,422	(76,982)	-4.38%
Total Operating Expenses	\$ 9,227,863	\$ 5,382,920	\$ 5,514,830	\$ (131,910)	-2.45%
Operating Surplus/(Deficit)	\$ (0)	\$ (0)	\$ (21,052)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 8,302,224	\$ 4,842,964	\$ 4,842,964	\$ -	0.00%
Trust Fund Interest	400	233	30,233	29,999	12856.90%
Reserve Fund Interest	31,000	18,083	216,513	198,430	1097.31%
Lease Revenue	1,600	933	1,480	546	58.52%
Total Debt Service Revenues	\$ 8,335,224	\$ 4,862,214	\$ 5,091,189	\$ 228,975	4.71%

Debt Service Costs

Total Principal & Interest	\$ 6,964,724	\$ 4,062,756	\$ 4,062,756	\$ -	0.00%
Reserve Additions-Interest	31,000	18,083	216,513	(198,430)	-1097.31%
Debt Service Ratio Charge	400,000	233,333	233,333	-	0.00%
Reserve Additions-CIP Growth	939,500	548,042	548,042	-	0.00%
Total Debt Service Costs	\$ 8,335,224	\$ 4,862,214	\$ 5,060,644	\$ (198,430)	-4.08%
Debt Service Surplus/(Deficit)	\$ -	\$ -	\$ 30,546		

Rate Center Summary

Total Revenues	\$ 17,563,087	\$ 10,245,134	\$ 10,584,967	\$ 339,833	3.32%
Total Expenses	17,563,087	10,245,134	10,575,474	(330,340)	-3.22%
Surplus/(Deficit)	\$ (0)	\$ (0)	\$ 9,493		
Costs per 1000 Gallons Operating and DS	\$ 2.72		\$ 2.76		
	\$ 5.17		\$ 5.28		
Thousand Gallons Treated or Flow (MGD)	3,397,700	1,981,992	2,001,628	19,636	0.99%
	9.309		9.310		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Crozet Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2023</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	\$ 1,197,084	\$ 698,299	\$ 698,299	\$ -	0.00%
Lease Revenues	25,000	14,583	18,550	3,966	27.20%
Interest Allocation	400	233	3,312	3,079	1319.54%
Total Operating Revenues	\$ 1,222,484	\$ 713,116	\$ 720,161	\$ 7,045	0.99%

Expenses

Personnel Cost	\$ 352,559	\$ 205,660	\$ 206,136	\$ (476)	-0.23%
Professional Services	22,900	13,358	3,662	9,696	72.59%
Other Services & Charges	118,700	69,242	80,748	(11,506)	-16.62%
Communications	17,600	10,267	11,884	(1,617)	-15.75%
Information Technology	4,950	2,888	6,281	(3,394)	-117.53%
Supplies	1,500	875	754	121	13.80%
Operations & Maintenance	358,500	209,125	162,719	46,406	22.19%
Equipment Purchases	3,000	1,750	1,750	-	0.00%
Depreciation	60,000	35,000	35,000	-	0.00%
Subtotal Before Allocations	\$ 939,709	\$ 548,164	\$ 508,934	\$ 39,230	7.16%
Allocation of Support Departments	282,780	164,955	171,639	(6,684)	-4.05%
Total Operating Expenses	\$ 1,222,489	\$ 713,119	\$ 680,573	\$ 32,546	4.56%
Operating Surplus/(Deficit)	\$ (5)	\$ (3)	\$ 39,588		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 2,161,704	\$ 1,260,994	\$ 1,260,994	\$ -	0.00%
Trust Fund Interest	80	47	7,021	6,975	14945.56%
Reserve Fund Interest	1,200	700	8,482	7,782	1111.70%
Total Debt Service Revenues	\$ 2,162,984	\$ 1,261,741	\$ 1,276,497	\$ 14,757	1.17%

Debt Service Costs

Total Principal & Interest	\$ 1,217,280	\$ 710,080	\$ 710,080	\$ -	0.00%
Reserve Additions-Interest	1,200	700	8,482	(7,782)	-1111.70%
Reserve Additions-CIP Growth	944,500	550,958	550,958	-	0.00%
Total Debt Service Costs	\$ 2,162,980	\$ 1,261,738	\$ 1,269,520	\$ (7,782)	-0.62%
Debt Service Surplus/(Deficit)	\$ 4	\$ 2	\$ 6,977		

Rate Center Summary

Total Revenues	\$ 3,385,468	\$ 1,974,856	\$ 1,996,658	\$ 21,802	1.10%
Total Expenses	3,385,469	1,974,857	1,950,093	24,764	1.25%
Surplus/(Deficit)	\$ (1)	\$ (1)	\$ 46,565		
Costs per 1000 Gallons	\$ 6.03		\$ 5.26		
Operating and DS	\$ 16.70		\$ 15.06		
Thousand Gallons Treated	202,697	118,240	129,480	11,240	9.51%
Flow (MGD)	0.555		0.602		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Scottsville Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2023</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	\$ 569,556	\$ 332,241	\$ 332,241	\$ -	0.00%
Interest Allocation	200	117	1,538	1,421	1218.17%
Total Operating Revenues	\$ 569,756	\$ 332,358	\$ 333,779	\$ 1,421	0.43%

Expenses

Personnel Cost	\$ 212,797	\$ 124,132	\$ 125,620	\$ (1,488)	-1.20%
Professional Services	5,000	2,917	8,558	(5,641)	-193.42%
Other Services & Charges	27,100	15,808	21,589	(5,780)	-36.57%
Communications	6,400	3,733	4,044	(310)	-8.31%
Information Technology	4,400	2,567	5,373	(2,806)	-109.33%
Supplies	100	58	138	(79)	-135.75%
Operations & Maintenance	97,925	57,123	77,282	(20,159)	-35.29%
Equipment Purchases	1,600	933	1,922	(989)	-105.96%
Depreciation	40,000	23,333	23,333	0	0.00%
Subtotal Before Allocations	\$ 395,322	\$ 230,605	\$ 267,858	\$ (37,253)	-16.15%
Allocation of Support Departments	174,433	101,753	103,843	(2,090)	-2.05%
Total Operating Expenses	\$ 569,755	\$ 332,357	\$ 371,701	\$ (39,343)	-11.84%
Operating Surplus/(Deficit)	\$ 1	\$ 0	\$ (37,922)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 150,300	\$ 87,675	\$ 87,675	\$ -	0.00%
Trust Fund Interest	10	6	743	738	12644.34%
Reserve Fund Interest	850	496	5,803	5,308	1070.44%
Total Debt Service Revenues	\$ 151,160	\$ 88,177	\$ 94,222	\$ 6,045	6.86%

Debt Service Costs

Total Principal & Interest	\$ 148,726	\$ 86,757	\$ 86,757	\$ -	0.00%
Reserve Additions-Interest	850	496	5,803	(5,308)	
Reserve Additions-CIP Growth	1,589	927	927	-	
Total Debt Service Costs	\$ 151,165	\$ 88,180	\$ 93,487	\$ (5,308)	-6.02%
Debt Service Surplus/(Deficit)	\$ (5)	\$ (3)	\$ 735		

Rate Center Summary

Total Revenues	\$ 720,916	\$ 420,534	\$ 428,001	\$ 7,466	1.78%
Total Expenses	720,920	420,537	465,188	(44,651)	-10.62%
Surplus/(Deficit)	\$ (4)	\$ (3)	\$ (37,187)		
Costs per 1000 Gallons	\$ 33.07		\$ 30.40		
Operating and DS	\$ 41.84		\$ 38.05		
Thousand Gallons Treated	17,230	10,051	12,225	2,174	21.63%
or					
Flow (MGD)	0.047		0.057		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Urban Wastewater Rate Center
Revenues and Expenses Summary

Budget FY 2023	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	\$ 9,033,662	\$ 5,269,636	\$ 5,700,582	\$ 430,946	8.18%
Stone Robinson WWTP	39,036	22,771	11,437	(11,334)	-49.77%
Septage Acceptance	500,000	291,667	348,528	56,861	19.50%
Nutrient Credits	100,000	58,333	39,129	(19,205)	-32.92%
Miscellaneous Revenue	-	-	-	-	
Interest Allocation	3,300	1,925	27,563	25,638	1331.84%
Total Operating Revenues	\$ 9,675,998	\$ 5,644,332	\$ 6,127,238	\$ 482,905	8.56%

Expenses

Personnel Cost	B	\$ 1,325,384	\$ 773,140	\$ 871,891	\$ (98,751)	-12.77%
Professional Services	C	75,000	43,750	86,121	(42,371)	-96.85%
Other Services & Charges	A, D	2,276,980	1,328,238	1,423,413	(95,174)	-7.17%
Communications		1,900	1,108	7,358	(6,250)	-563.91%
Information Technology	E	110,400	64,400	109,623	(45,223)	-70.22%
Supplies		1,200	700	357	343	48.98%
Operations & Maintenance	A, G	1,698,660	990,885	1,299,679	(308,794)	-31.16%
Equipment Purchases		143,000	83,417	29,167	54,250	65.03%
Depreciation		470,000	274,167	274,167	(0)	0.00%
Subtotal Before Allocations		\$ 6,102,524	\$ 3,559,805	\$ 4,101,776	\$ (541,970)	-15.22%
Allocation of Support Departments		3,573,476	2,084,527	2,157,804	(73,276)	-3.52%
Total Operating Expenses		\$ 9,675,999	\$ 5,644,333	\$ 6,259,579	\$ (615,246)	-10.90%
Operating Surplus/(Deficit)		\$ (1)	\$ (1)	\$ (132,342)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue		\$ 8,878,107	\$ 5,178,896	\$ 5,178,894	\$ (2)	0.00%
Septage Receiving Support - County	A	109,440	63,840	109,440	45,600	71.43%
Trust Fund Interest		500	292	44,523	44,231	15165.07%
Reserve Fund Interest		31,000	18,083	214,281	196,198	1084.96%
Total Debt Service Revenues		\$ 9,019,047	\$ 5,261,111	\$ 5,547,138	\$ 286,027	5.44%

Debt Service Costs

Total Principal & Interest	\$ 7,808,347	\$ 4,554,869	\$ 4,554,869	\$ -	0.00%
Reserve Additions-Interest	31,000	18,083	214,281	(196,198)	-1084.96%
Debt Service Ratio Charge	325,000	189,583	189,583	-	0.00%
Reserve Additions-CIP Growth	854,700	498,575	498,575	-	0.00%
Total Debt Service Costs	\$ 9,019,047	\$ 5,261,111	\$ 5,457,308	\$ (196,198)	-3.73%
Debt Service Surplus/(Deficit)	\$ -	\$ -	\$ 89,830		

Rate Center Summary

Total Revenues	\$ 18,695,045	\$ 10,905,443	\$ 11,674,376	\$ 768,933	7.05%
Total Expenses	18,695,046	10,905,444	11,716,888	(811,444)	-7.44%
Surplus/(Deficit)	\$ (1)	\$ (1)	\$ (42,512)		
Costs per 1000 Gallons	\$ 2.85		\$ 2.93		
Operating and DS	\$ 5.51		\$ 5.48		
Thousand Gallons Treated or Flow (MGD)	3,390,400	1,977,733	2,139,858	162,125	8.20%
	9.289		9.953		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Glenmore Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2023</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	\$ 443,640	\$ 258,790	\$ 258,790	\$ -	0.00%
Interest Allocation	150	88	1,242	1,155	1319.55%
<i>Total Operating Revenues</i>	\$ 443,790	\$ 258,878	\$ 260,032	\$ 1,155	0.45%

Expenses

Personnel Cost	\$ 115,815	\$ 67,559	\$ 76,542	\$ (8,983)	-13.30%
Professional Services	5,000	2,917	20,082	(17,165)	-588.51%
Other Services & Charges	35,750	20,854	25,018	(4,164)	-19.96%
Communications	-	-	1,758	(1,758)	
Information Technology	4,425	2,581	7,715	(5,134)	-198.89%
Supplies	-	-	-	-	
Operations & Maintenance	134,950	78,721	67,526	11,195	14.22%
Equipment Purchases	3,800	2,217	2,217	(0)	0.00%
Depreciation	10,000	5,833	5,833	0	0.00%
<i>Subtotal Before Allocations</i>	\$ 309,740	\$ 180,682	\$ 206,691	\$ (26,009)	-14.39%
Allocation of Support Departments	134,045	78,193	77,582	611	0.78%
<i>Total Operating Expenses</i>	\$ 443,785	\$ 258,875	\$ 284,273	\$ (25,398)	-9.81%
<i>Operating Surplus/(Deficit)</i>	\$ 5	\$ 3	\$ (24,241)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 20,484	\$ 11,949	\$ 11,949	\$ -	0.00%
Trust Fund Interest	-	-	-	-	
Reserve Fund Interest	80	47	446	400	856.53%
<i>Total Debt Service Revenues</i>	\$ 20,564	\$ 11,996	\$ 12,395	\$ -	0.00%

Debt Service Costs

Total Principal & Interest	\$ 18,717	\$ 10,918	\$ 10,918	\$ -	0.00%
Reserve Additions-CIP Growth	1,761	1,027	1,027	-	0.00%
Reserve Additions-Interest	80	47	446	(400)	-856.53%
<i>Total Debt Service Costs</i>	\$ 20,558	\$ 11,992	\$ 12,392	\$ (400)	-3.33%
<i>Debt Service Surplus/(Deficit)</i>	\$ 6	\$ 4	\$ 4		

Rate Center Summary

Total Revenues	\$ 464,354	\$ 270,873	\$ 272,427	\$ 1,554	0.57%
Total Expenses	464,343	270,867	296,665	(25,798)	-9.52%
Surplus/(Deficit)	\$ 11	\$ 6	\$ (24,237)		
Costs per 1000 Gallons	\$ 10.72		\$ 12.25		
Operating and DS	\$ 11.22		\$ 12.79		
Thousand Gallons Treated or Flow (MGD)	41,401	24,151	23,204	(947)	-3.92%
	0.113		0.108		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Scottsville Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2023</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	\$ 355,620	\$ 207,445	\$ 207,445	\$ -	0.00%
Interest Allocation	120	70	1,006	936	1336.46%
Total Operating Revenues	\$ 355,740	\$ 207,515	\$ 208,451	\$ 936	0.45%

Expenses

Personnel Cost	\$ 115,795	\$ 67,547	\$ 76,542	\$ (8,995)	-13.32%
Professional Services	5,000	2,917	2,878	39	1.33%
Other Services & Charges	26,650	15,546	17,447	(1,901)	-12.23%
Communications	3,770	2,199	2,192	7	0.33%
Information Technology	4,125	2,406	9,514	(7,107)	-295.37%
Supplies	-	-	-	-	
Operations & Maintenance	52,000	30,333	23,375	6,958	22.94%
Equipment Purchases	3,800	2,217	2,217	(0)	0.00%
Depreciation	20,000	11,667	11,667	(0)	0.00%
Subtotal Before Allocations	\$ 231,140	\$ 134,832	\$ 145,831	\$ (10,999)	-8.16%
Allocation of Support Departments	124,604	72,686	72,432	253	0.35%
Total Operating Expenses	\$ 355,744	\$ 207,517	\$ 218,264	\$ (10,746)	-5.18%
Operating Surplus/(Deficit)	\$ (4)	\$ (2)	\$ (9,813)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 10,110	\$ 5,898	\$ 5,901	\$ 4	0.06%
Trust Fund Interest	-	-	83	83	
Reserve Fund Interest	100	58	893	835	1430.77%
Total Debt Service Revenues	\$ 10,210	\$ 5,956	\$ 6,877	\$ 921	15.46%

Debt Service Costs

Total Principal & Interest	\$ 7,447	\$ 4,344	\$ 4,344	\$ -	0.00%
Reserve Additions-Interest	100	58	893	(835)	-1430.77%
Estimated New Principal & Interest	2,667	1,556	1,556	-	0.00%
Total Debt Service Costs	\$ 10,214	\$ 5,958	\$ 6,793	\$ (835)	-14.01%
Debt Service Surplus/(Deficit)	\$ (4)	\$ (2)	\$ 84		

Rate Center Summary

Total Revenues	\$ 365,950	\$ 213,471	\$ 215,327	\$ 1,856	0.87%
Total Expenses	365,958	213,476	225,056	(11,581)	-5.42%
Surplus/(Deficit)	\$ (8)	\$ (5)	\$ (9,729)		
Costs per 1000 Gallons	\$ 15.05		\$ 19.58		
Operating and DS	\$ 15.48		\$ 20.19		
Thousand Gallons Treated	23,643	13,792	11,147	(2,645)	-19.18%
or					
Flow (MGD)	0.065		0.052		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Administration

<i>Budget FY 2023</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
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Operating Budget vs. Actual**Revenues** Notes

Payment for Services SWA	\$ 654,000	\$ 381,500	\$ 381,500	\$ -	0.00%
Bond Proceeds Funding Bond Issuance Costs	-	-	-	-	
Miscellaneous Revenue	2,000	1,167	9,034	7,867	674.35%
Total Operating Revenues	\$ 656,000	\$ 382,667	\$ 390,534	\$ 7,867	2.06%

Expenses

Personnel Cost	\$ 2,450,092	\$ 1,429,220	\$ 1,379,838	\$ 49,382	3.46%
Professional Services	170,000	99,167	181,703	(82,537)	-83.23%
Other Services & Charges	162,600	94,850	95,854	(1,004)	-1.06%
Communications	24,780	14,455	47,827	(33,372)	-230.87%
Information Technology	404,876	236,178	484,652	(248,474)	-105.21%
Supplies	23,000	13,417	19,200	(5,783)	-43.10%
Operations & Maintenance	67,850	39,579	36,214	3,365	8.50%
Equipment Purchases	13,100	7,642	7,642	(0)	0.00%
Depreciation	-	-	-	-	
Total Operating Expenses	\$ 3,316,298	\$ 1,934,507	\$ 2,252,929	\$ (318,421)	-16.46%

Department Summary

Net Costs Allocable to Rate Centers		\$ (2,660,298)	\$ (1,551,841)	\$ (1,862,395)	\$ 310,554	-20.01%
<u>Allocations to the Rate Centers</u>						
Urban Water	44.00%	\$ 1,170,531	\$ 682,810	\$ 819,454	\$ (136,644)	
Crozet Water	4.00%	\$ 106,412	\$ 62,074	\$ 74,496	\$ (12,422)	
Scottsville Water	2.00%	\$ 53,206	\$ 31,037	\$ 37,248	\$ (6,211)	
Urban Wastewater	48.00%	\$ 1,276,943	\$ 744,884	\$ 893,949	\$ (149,066)	
Glenmore Wastewater	1.00%	\$ 26,603	\$ 15,518	\$ 18,624	\$ (3,106)	
Scottsville Wastewater	1.00%	\$ 26,603	\$ 15,518	\$ 18,624	\$ (3,106)	
	100.00%	\$ 2,660,298	\$ 1,551,841	\$ 1,862,395	\$ (310,554)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Maintenance

<i>Budget FY 2023</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		-		-		880		880
<i>Total Operating Revenues</i>	\$	-	\$	-	\$	880	\$	880

Expenses

Personnel Cost	\$	1,477,565	\$	861,913	\$	836,768	\$	25,145	2.92%
Professional Services		-		-		4,132		(4,132)	
Other Services & Charges		33,600		19,600		9,767		9,833	50.17%
Communications		24,500		14,292		7,874		6,418	44.91%
Information Technology		32,500		18,958		16,977		1,981	10.45%
Supplies		2,500		1,458		657		801	54.92%
Operations & Maintenance	G	104,900		61,192		79,588		(18,396)	-30.06%
Equipment Purchases		212,600		124,017		75,017		49,000	39.51%
Depreciation		-		-		-		-	
<i>Total Operating Expenses</i>		\$ 1,888,165		\$ 1,101,430		\$ 1,030,780		\$ 70,650	6.41%

Department Summary

Net Costs Allocable to Rate Centers		\$ (1,888,165)	\$ (1,101,430)	\$ (1,029,900)	\$ (69,770)	6.33%
<u>Allocations to the Rate Centers</u>						
Urban Water	30.00%	\$ 566,450	\$ 330,429	\$ 308,970	\$ 21,459	
Crozet Water	3.50%	66,086	38,550	36,047	2,504	
Scottsville Water	3.50%	66,086	38,550	36,047	2,504	
Urban Wastewater	56.50%	1,066,814	622,308	581,894	40,414	
Glenmore Wastewater	3.50%	66,086	38,550	36,047	2,504	
Scottsville Wastewater	3.00%	56,645	33,043	30,897	2,146	
	100.00%	\$ 1,888,165	\$ 1,101,430	\$ 1,029,900	\$ 71,530	

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Laboratory

Budget FY 2023	Budget Year-to-Date	Actual Year-to-Date	Budget vs. Actual	Variance Percentage
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Operating Budget vs. Actual

Notes

Revenues

N/A

Expenses

Personnel Cost	\$	415,324	\$	242,273	\$	239,430	\$	2,842	1.17%
Professional Services		-		-		-		-	
Other Services & Charges		11,780		6,872		569		6,303	91.72%
Communications		1,700		992		643		348	35.12%
Information Technology		1,000		583		-		583	100.00%
Supplies		1,250		729		1,267		(537)	-73.71%
Operations & Maintenance	G	121,050		70,613		86,844		(16,231)	-22.99%
Equipment Purchases		1,700		992		992		(0)	0.00%
Depreciation		-		-		-		-	
Total Operating Expenses		\$ 553,804		\$ 323,053		\$ 329,745		\$ (6,692)	-2.07%

Department Summary

Net Costs Allocable to Rate Centers		\$ (553,804)	\$ (323,053)	\$ (329,745)	\$ 6,692	-2.07%
<u>Allocations to the Rate Centers</u>						
Urban Water	44.00%	\$ 243,674	\$ 142,143	\$ 145,088	\$ (2,945)	
Crozet Water	4.00%	22,152	12,922	13,190	(268)	
Scottsville Water	2.00%	11,076	6,461	6,595	(134)	
Urban Wastewater	47.00%	260,288	151,835	154,980	(3,145)	
Glenmore Wastewater	1.50%	8,307	4,846	4,946	(100)	
Scottsville Wastewater	1.50%	8,307	4,846	4,946	(100)	
	100.00%	\$ 553,804	\$ 323,053	\$ 329,745	\$ (6,692)	

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2023

Engineering

<i>Budget FY 2023</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

Total Operating Revenues

\$ -	\$ -	\$ 18,570	\$ 18,570	
\$ -	\$ -	\$ 18,570	\$ 18,570	

Expenses

Personnel Cost

Professional Services

Other Services & Charges

Communications

Information Technology

Supplies

Operations & Maintenance

Equipment Purchases

Depreciation

Total Operating Expenses

\$ 1,794,680	\$ 1,046,897	\$ 1,044,896	\$ 2,001	0.19%
125,000	72,917	39,374	33,543	46.00%
18,000	10,500	4,909	5,591	53.25%
18,772	10,950	5,502	5,448	49.75%
145,000	84,583	83,225	1,359	1.61%
5,000	2,917	2,740	176	6.05%
75,300	43,925	23,065	20,860	47.49%
21,500	12,542	12,542	0	0.00%
-	-	-	-	
\$ 2,203,252	\$ 1,285,230	\$ 1,216,252	\$ 68,978	5.37%

Department Summary

Net Costs Allocable to Rate Centers

\$ (2,203,252)	\$ (1,285,230)	\$ (1,197,683)	\$ (50,409)	3.92%
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Allocations to the Rate Centers

Urban Water

Crozet Water

Scottsville Water

Urban Wastewater

Glenmore Wastewater

Scottsville Wastewater

47.00%	\$ 1,035,528	\$ 604,058	\$ 562,911	\$ 41,147
4.00%	88,130	51,409	47,907	3,502
2.00%	44,065	25,705	23,954	1,751
44.00%	969,431	565,501	526,980	38,521
1.50%	33,049	19,278	17,965	1,313
1.50%	33,049	19,278	17,965	1,313
100.00%	\$ 2,203,252	\$ 1,285,230	\$ 1,197,683	\$ 87,548

MEMORANDUM

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

FROM: DAVE TUNGATE, DIRECTOR OF OPERATIONS

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: OPERATIONS REPORT FOR FEBRUARY 2023

DATE: MARCH 28, 2023

WATER OPERATIONS:

The average and maximum daily water volumes produced in February 2023 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	8.43	9.21 (2/6/2023)
Observatory	0.00	0.00 (All Month)
North Rivanna	<u>0.41</u>	<u>0.56 (2/6/2023)</u>
Urban Total	8.84	9.76 (2/6/2023)
Crozet	0.53	0.58 (2/20/2023)
Scottsville	0.04	0.066 (2/27/2023)
Red Hill	<u>0.0020</u>	0.003 (2/3/2023)
RWSA Total	9.41	-

- All RWSA water treatment facilities were in regulatory compliance during the month of February.
- Observatory Water Treatment Plant has been off-line for the renovation project since 12/01/2022.

Status of Reservoirs (as of March 21, 2023):

- Urban Reservoirs are 100% of Total Useable Capacity
 - Ragged Mountain Reservoir is 100% full
 - Sugar Hollow Reservoir is 100% full
 - South Rivanna Reservoir is 100% full
- Beaver Creek Reservoir (Crozet) is 100% full
- Totier Creek Reservoir (Scottsville) is 100% full

WASTEWATER OPERATIONS:

All RWSA Water Resource Recovery Facilities (WRRFs) were in regulatory compliance with their effluent limitations during February 2023. Performance of the WRRFs in February was as follows compared to the respective VDEQ permit limits:

WRRF	<i>Average Daily Effluent Flow (MGD)</i>	<i>Average CBOD₅ (ppm)</i>		<i>Average Total Suspended Solids (ppm)</i>		<i>Average Ammonia (ppm)</i>	
		<i>RESULT</i>	<i>LIMIT</i>	<i>RESULT</i>	<i>LIMIT</i>	<i>RESULT</i>	<i>LIMIT</i>
Moore's Creek	10.6	<QL	9	<QL	22	0.19	2.2
Glenmore	0.116	2.5	15	3.9	30	NR	NL
Scottsville	0.08	2.3	25	7.6	30	NR	NL
Stone Robinson	0.001	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 February 2023.

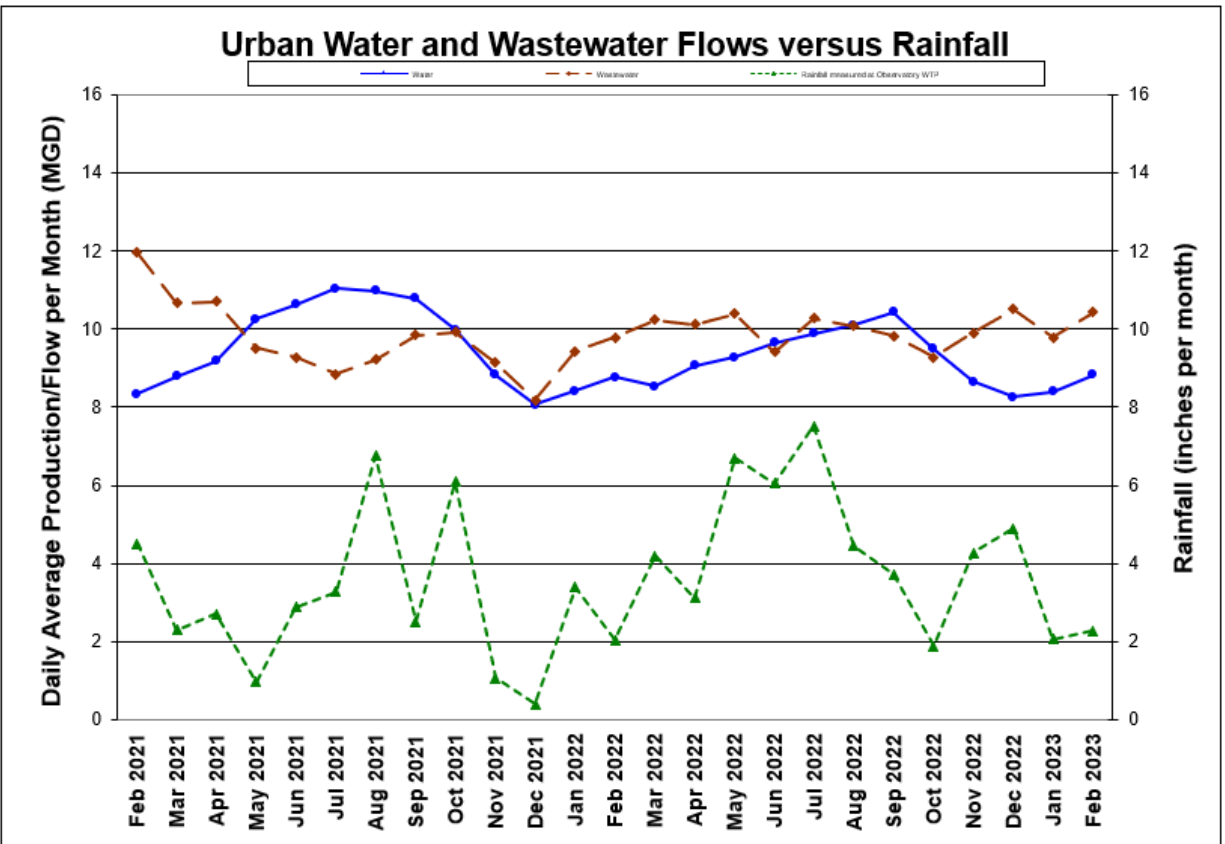
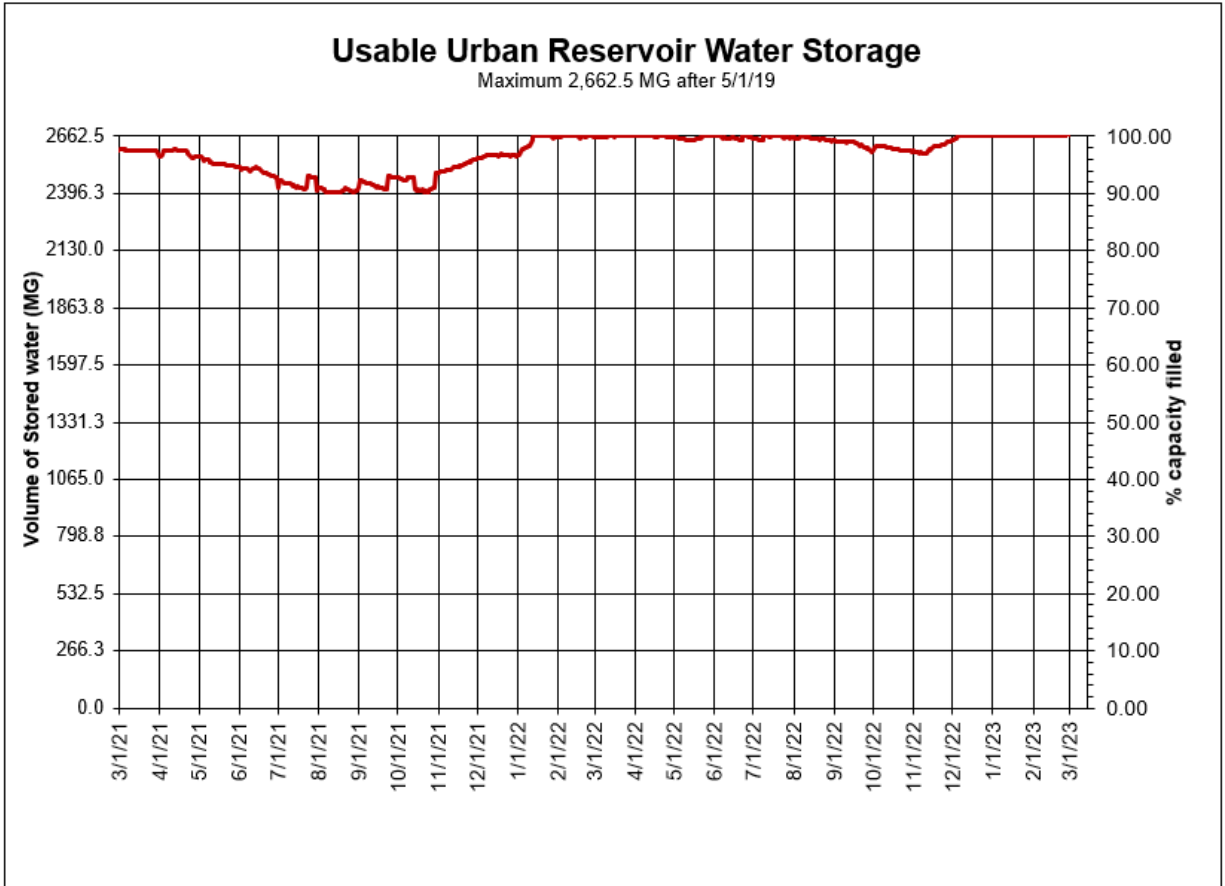
<i>State Annual Allocation (lb./yr.) Permit</i>		<i>Average Monthly Allocation (lb./mo.) *</i>	<i>Moore's Creek Discharge February (lb./mo.)</i>	<i>Performance as % of monthly average Allocation*</i>	<i>Year to Date Performance as % of annual allocation</i>
Nitrogen	282,994	23,583	11,062	47%	7%
Phosphorous	18,525	1,544	161	10%	2%

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

WATER AND WASTEWATER DATA:

The following graphs are provided for review:

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



MEMORANDUM

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

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

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: STATUS REPORT: ONGOING PROJECTS

DATE: MARCH 28, 2023

This memorandum reports on the status of the following Capital Projects as well as other significant operating, maintenance, and planning projects.

For the current, approved CIP, please visit: <https://www.rivanna.org/wp-content/uploads/2022/06/Final-2023-2027-CIP.pdf>

Summary Table

	Project	Bid Advertise Date	Construction Complete Date
1	SRWTP and OBWTP Renovations	November 2019	October 2023
2	Airport Rd. Water Pump Station and Piping	September 2021	September 2024
3	MC 5kV Electrical System Upgrades	December 2021	December 2024
4	RMR to OBWTP Raw Water Line and Pump Station	April 2024	December 2028
6	Beaver Creek Dam, Pump Station and Piping	April 2025	June 2028
7	South Fork Rivanna River Crossing	September 2023	September 2025
8	Central Water Line	December 2023	December 2028
9	MC Administration Building Renovation and Addition	January 2024	June 2026
10	Upper Schenks Branch Interceptor, Phase II	TBD	TBD
11	Red Hill Water Treatment Plant Upgrades	September 2023	November 2024
12	Emmet Street Water Line Betterment	Varies	July 2036
13	Scottsville WRRF Whole Plant Generator and ATS	December 2023	June 2025
14	Crozet Pump Stations Rehabilitation	November 2024	December 2026
15	MC Structural and Concrete Rehabilitation	September 2024	June 2026
16	MC Building Upfits and Gravity Thickener Improvements	April 2024	December 2025

Under Construction

1. South Rivanna and Observatory Water Treatment Plant Renovations
2. Airport Road Water Pump Station and Piping
3. MC 5kV Electrical System Upgrades

Design and Bidding

4. Ragged Mtn Reservoir to Observatory WTP Raw Water Line and Pump Station
5. South Fork Rivanna to Ragged Mtn. Raw Water Line – Birdwood to Old Garth
6. Beaver Creek Dam, Pump Station and Piping Improvements
7. South Fork Rivanna River Crossing
8. Central Water Line
9. Moores Creek Administration Building Renovation and Addition
10. Upper Schenks Branch Interceptor, Phase II
11. Red Hill Water Treatment Plant Upgrades
12. Emmet Street Water Line Betterment
13. Scottsville WRRF Whole Plant Generator and ATS
14. Crozet Pump Stations Rehabilitation
15. MCAWRRF Structural and Concrete Rehabilitation
16. MCAWRRF Building Upfits and Gravity Thickener Improvements

Planning and Studies

17. S. F. Rivanna Reservoir to Ragged Mtn Reservoir Water Line Right-of-Way
18. Asset Management Plan
19. SFRR to RMR Pipeline – Pretreatment Pilot Study
20. MCAWRRF Biogas Upgrades

Other Significant Projects

21. Urgent and Emergency Repairs
22. Security Enhancements

Under Construction

1. South Rivanna and Observatory Water Treatment Plant Renovations

Design Engineer:	Short Elliot Hendrickson, Inc. (SEH)
Construction Contractor:	English Construction Company (Lynchburg, VA)
Construction Start:	May 2020
Percent Complete:	83%
Base Construction Contract +	
Change Orders to Date = Current Value:	\$36,748,500 + \$1,141,441 = \$37,889,941
Completion:	October 2023
Budget:	\$43,000,000

Current Status: Lead paint abatement activities in the SR Filter Building continue, with only one phase of work left to be completed. Work at the OBWTP includes the new Chemical Storage Building, GAC Building expansion, a large retaining wall, Intermediate Pump Station improvements, installation of a new settled water flume, filter rebuilds and installation of a sludge control vault. Shutdown of the OBWTP was planned for December 5, 2022 – March 12, 2023; however, unforeseen conditions have

delayed the work and the shutdown is now anticipated to end by mid- April 2, 2023.

2. Airport Road Water Pump Station and Piping

Design Engineer:	Short Elliot Hendrickson (SEH)
Construction Contractor:	Anderson Construction, Inc. (ACI) (Lynchburg, VA)
Construction Start:	December 2021
Percent Complete:	37%
Base Construction Contract + Change Order to Date = Current Value:	\$8,520,312
Completion:	September 2024
Budget:	\$10,000,000

Current Status: Completion of site piping and the concrete pour for pump station footings is anticipated this month. Installation of two parallel water lines is on-going along Berkmar Drive between the pump station site and Timberwood Blvd, however, production has been slow due to the amount of rock encountered.

3. MCAWRRF 5kV Electrical System Upgrades

Design Engineer:	Hazen and Sawyer (Hazen)
Construction Contractor:	Pyramid Electrical Contractors (Richmond, VA)
Construction Start:	May 2022
Percent Complete:	15%
Base Construction Contract + Change Order to Date = Current Value:	\$5,180,000 - \$970,000 + \$78,812 = \$4,288,812
Completion:	December 2024
Budget:	\$5,050,000

Current Status: Ductbank installation continues at the site. This portion of the work will connect the new switchgear to the existing ductbank network, allowing the necessary cable replacements to take place later in the project. This portion of the work will be completed this month, with installation of the equipment pad for the new switchgear building to follow.

Design and Bidding

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

Design Engineer:	Kimley-Horn
Project Start:	August 2018
Project Status:	Design (55%)
Construction Start:	2024
Completion:	December 2028
Budget:	\$44,000,000

Current Status: Preparation of engineering plans and specifications continues as well as easement and property negotiations with UVA and the UVA Foundation. Most of the focus continues to be on the pump station site, however, design work is underway for portions of the pipeline on UVA Foundation property and the remainder of the pipeline is progressing towards 90% design. Geotechnical borings and utility test holes are starting this month.

5. S. F. Rivanna Reservoir to Ragged Mtn. Reservoir Raw Water Line – Birdwood to Old Garth

Design Engineer:	Kimley-Horn
Project Start:	June 2021
Project Status:	90% Design
Construction Start:	June 2023
Completion:	June 2024
Budget:	\$4,000,000

Current Status: Engineering plans and specifications are substantially complete for a 0.25-mile section of this 36” raw water pipe from Birdwood to Old Garth Road. One remaining easement is under negotiation with the UVA Foundation for this phase of the project. Acquisition of the railroad permit is pending. The WPO/VESCP permit application was submitted to the County in January 2023 and initial comments have been received.

6. Beaver Creek Dam, Pump Station and Piping Improvements

Design Engineer:	Schnabel Engineering (Dam)
Design Engineer:	Hazen & Sawyer (Pump Station)
Project Start:	February 2018
Project Status:	95% NRCS Planning Process
Construction Start:	2024
Completion:	June 2028
Budget:	\$43,000,000

Current Status: A Joint Permit Application and supporting documents were submitted to VDEQ in October 2022, and are under review. The revised Plan-Environmental Assessment was approved by the NRCS National Water Management Center on October 18, 2022, and the Draft Report was posted for public comment from November 4-December 19, 2022. The final report is under review by NRCS with approval anticipated by the end of April 2023. A funding request for final design of the spillway upgrades is under review by NRCS. Construction funds will be requested near the end of the design phase. Staff is working with Hazen and Sawyer to develop a scope and fee for design of the new raw water pump station, intake, and hypolimnetic oxygenation system (HLOS). Preliminary design work is expected to begin in spring 2023.

7. S. F. Rivanna River Crossing

Design Engineer:	Michael Baker International (Baker)
Project Start:	November 2020
Project Status:	80% Design
Construction Start:	Fall 2023
Completion:	September 2025

Budget: \$7,000,000

Current Status: One easement has been signed and the remaining easement acquisition work is on-going. A draft easement package for the work in Brookhill Park will be sent to the County this month. A required easement on the south side of the river is on a remnant property from the VDOT Berkmar Bridge project and we cannot finalize that easement until the property transfer back to the original property owner is complete. Submission of the Joint Permit Application was completed prior to Thanksgiving and RWSA was issued a VMRC permit at the end of December 2022.

8. Central Water Line

Design Engineer:	Michael Baker International (Baker)
Project Start:	July 2021
Project Status:	33% Design
Construction Start:	2024
Completion:	December 2028
Budget:	\$41,000,000

Current Status: Baker's 30% design submittal was distributed to the City and ACSA for review in early February 2023. A stakeholder design workshop was completed on March 16, 2023.

9. Moore's Creek Administration Building Renovation and Addition

Design Engineer:	SEH
Project Start:	October 2022
Project Status:	10% Design
Construction Start:	March 2024
Completion:	June 2026
Budget:	\$10,000,000

Current Status: Revised conceptual layouts were completed resented in early March. Comments are being incorporated into finalized layouts. Miss utility marking has been completed and survey work has begun. Geotechnical borings are scheduled for the end of March.

10. Upper Schenks Branch Interceptor, Phase II

Design Engineer:	Frazier Engineering, P.A.
Project Start:	July 2021
Project Status:	Design
Construction Start:	TBD
Completion:	TBD
Budget:	\$4,725,000

Current Status: Project, easement and valuation information was submitted to the County for review. The County has provided some initial comments related to tree protection which are being evaluated for project impacts. A regional coordination meeting to discuss the project has been scheduled for May 10, 2023.

11. Red Hill Water Treatment Plant Upgrades

Design Engineer:	Short Elliot Hendrickson (SEH)
Project Start:	July 2022
Project Status:	95% Design
Construction Start:	September 2023
Completion:	November 2024
Budget:	\$450,000

Current Status: The addition of granular activated carbon (GAC) contactors and inspection of the existing hydropneumatics tank are being considered for incorporation into the design. This project was selected by Albemarle County to receive ARPA grant funding.

12. Emmet Street Water Line Betterment

Design Engineer:	Whitman, Requardt & Associates (WRA)
Project Start:	September 2021
Project Status:	Ivy Corridor Public Realm – Complete Contemplative Commons – Complete Emmet Streetscape – Preliminary Design Hydraulic/29 – Preliminary Scoping
Completion:	July 2036
Budget:	\$2,900,000

Current Status: WRA and RWSA are developing a scope of work for design of a 24-30” water main in Emmet Street as part of the City’s Emmet Streetscape Phase I project. RWSA has initiated discussion with VDOT on potential pipe routing in the upcoming design-build Hydraulic/29 project.

13. Scottsville WRRF Whole Plant Generator and ATS

Design Engineer:	Wiley Wilson
Project Start:	December 2021
Project Status:	75% Design
Completion:	June 2025
Budget:	\$520,000

Current Status: The 90% design submission and subsequent review have occurred. The design engineer is currently addressing review comments and associated action items. A grant application has been submitted to VDEM, and incorporation of the timeline associated with grant review, approval and award may delay the start of construction until the end of this calendar year.

14. Crozet Pump Stations Rehabilitation

Design Engineer:	Wiley Wilson
Project Start:	Fall 2022
Project Status:	Work Authorization Development
Completion:	December 2026
Budget:	\$1,004,400

Current Status: A work authorization has been developed for completion of this project. Project funds

required for design have been included in the proposed FY24 CIP and as a result, a request to the Board for approval to proceed will coincide with adaption of the proposed FY24 to FY28 CIP in May 2023.

15. MCAWRRF Structural and Concrete Rehabilitation

Design Engineer:	Hazen and Sawyer (Hazen)
Project Start:	Spring 2023
Project Status:	Work Authorization Development
Completion:	June 2026
Budget:	\$13,550,000

Current Status: A scoping meeting was held with Hazen and work authorization development is underway.

16. MCAWRRF Building Upfits and Gravity Thickener Improvements

Design Engineer:	Short Elliot Hendrickson (SEH)
Project Start:	Spring 2023
Project Status:	Work Authorization Development
Completion:	December 2025
Budget:	\$5,000,000

Current Status: A scoping meeting was held with SEH and work authorization development is underway.

Planning and Studies

17. S. F. Rivanna Reservoir to Ragged Mtn. Reservoir Water Line Right-of-Way

Design Engineer:	Michael Baker International (Baker)
Project Start:	October 2017
Project Status:	Easement Acquisition
Completion:	2023
Budget:	\$2,295,000

Current Status: Progress continues in our efforts to acquire 8 miles of easements and agreements (with VDOT) for this 36" water line. Discussions continue for remaining easements with the UVA Foundation.

18. Asset Management Plan

Design Engineer:	GHD, Inc.
Project Start:	July 2018
Project Status:	CMMS Implementation – 92% Complete AMP Implementation – 28% Complete

Completion: CMMS Implementation – April 2023
AMP Implementation – 2024
Budget: \$1,180,000

Current Status: For implementation of the new Computerized Maintenance Management System (CMMS), GHD has completed updates to our facility geodatabase and is continuing the software configuration process. A recent software update has complicated the process, but GHD and RWSA staff worked with Cityworks to resolve it. Cityworks training begins this month in preparation for going live with the software later this spring. Work continues to fully implement the Asset Management program across all applicable Authority facilities with development of management strategy group assignments and attributes for both vertical and horizontal assets and preparation for condition assessments.

19. SFRR to RMR Pipeline – Pretreatment Pilot Study

Design Consultant: SEH/DiNatale
Project Start: August 2020
Project Status: 100% Complete (Phase 2), 0% Phase 3
Completion: December 2023
Budget: \$116,401 (Phase 2), TBD Phase 3

Current Status: Final efforts by the consultant to better clarify operations of the raw water transfer system and associated reservoir levels during drought conditions have been completed. The next phase of the study is being planned, which will include installation of nutrient monitoring/measuring equipment, as well as a summary write-up detailing the effectiveness of the equipment.

20. MCAWRRF Biogas Upgrades

Design Engineer: SEH
Project Start: October 2021
Project Status: Preliminary Engineering/Study (99%)
Completion: December 2024
Budget: \$2,145,000

Current Status: This project now includes the Methane Sphere Rehabilitation, in addition to the Cogeneration Upgrades. Manufacturers and stakeholders in the Biogas Industry are being interviewed and additional data needs are being analyzed to determine next steps for the overall project.

Other Significant Projects

21. Urgent and Emergency Repairs

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

Project No.	Project Description	Approx. Cost
2022-09	CZI Force Main ARV Replacements	\$300,000

2022-02/05/12	Miscellaneous MCI/PCI/RVI MH Repairs	\$70,000
2023-01	Finished Water System ARV Repairs	TBD
2023-02	WWM 32-02 Valve Replacement	\$40,000
2023-03	Crozet Waterball Drain Line Leak	\$20,000
2023-05	MCI-MH-16 Repair	\$10,000

- CZI Force Main ARV Replacements: Over the past several years, staff have been monitoring the condition of the air release valves (ARVs) up and down the force main portions of the Crozet Interceptor, as they have been continuing to degrade. These valves are 1980s-vintage, and while they have been serviced and partially rebuilt over the years by the RWSA Maintenance Department, replacement of the tapping saddle and corporation stop has not been possible, since shutdown of the force main is required. Historically, it has taken several hours to drain the force main to allow for the work to take place, and by the time that has occurred, the upstream pump stations need to turn on to prevent overflow. Now with the Flow Equalization Tank complete, this work can take place with the force main offline for up to a 24-hr period. All materials for the job arrived near the end of January, and the work started on March 6th. One ARV replacement was completed during this week, with the goal to replace 2 – 3 more by the end of the month. The overall scope of work is anticipated to take approximately 8 – 10 weeks to complete.
- Miscellaneous MCI/PCI/RVI MH Repairs: Over the past several months, staff have identified issues with various manholes on the Moores Creek, Powell Creek, and Rivanna Interceptors (MCI, PCI, and RVI, respectively). These include one manhole on MCI that needs to be raised, as it was historically buried but found in Summer 2021 by the RWSA Maintenance & Engineering Departments, one manhole on RVI that needs a failing HDPE liner to be removed and cementitious mortar to be installed, and one manhole each on PCI and MCI that need to be coated with cementitious mortar due to root intrusion and groundwater infiltration. This work will be performed through the On-Call Maintenance contract with Digs, and staff visited the site with the Contractor on July 15th. The appropriate MH on MCI was raised on November 1st, 2022. The remaining coating efforts were completed during the week of January 30th. Two additional small MH repairs are being planned for the spring, including one additional MH coating and height adjustment of one MH.
- RWSA Finished Water ARV Repairs: RWSA Engineering staff recently met with Maintenance staff, to identify a list of Air Release Valves (ARVs) that need to be repaired, replaced, or abandoned. Several of these locations will require involvements of RWSA On-Call Maintenance Contractors, due to the complexity of the sites (proximity to roadways, depth, etc.). The initial round will include six (6) sites, all along the South Rivanna Waterline, and will be completed starting in April-May, following the Observatory Shutdown.
- WWM 32-02 Replacement: An 8” gate valve at RWSA’s Wholesale Water Meter site 32 was identified as defective during a recent meter calibration effort. Staff is coordinating the replacement efforts for this valve for after the Observatory WTP shutdown with its On-Call Maintenance Contractor, as well as ACSA and the RWSA Water & Maintenance Departments.
- Crozet Waterball Drain Line Leak: A small leak was identified during the week of January 30th coming into the valve vault at RWSA’s Crozet Waterball tank, on the Crozet WTP site. Upon excavating down to the drain pipe, staff found a cracked pipe just outside the vault, causing the leak. The RWSA Maintenance Department repaired this leak with all-new piping, as well as a drain valve while the work was underway. Staff is also making repairs to the outlet of the drain line, as the current outlet is buried below grade. This work was completed during the week of February 20th.

- MCI-MH-16 Repair: On March 13th, during a routine inspection, RWSA Maintenance found that MCI-MH-16, located near Monticello Avenue, appeared to have been struck by a piece of construction equipment, causing damage to the MH. Repairs are currently underway and are anticipated to be completed by the end of the week of 3/13. Repairs will include installation of a new MH cone and pouring a concrete collar to reseal the cone to the original 1950s-vintage brick structure.

22. Security Enhancements

Design Engineer:	Hazen & Sawyer
Construction Contractor:	Security 101 (Richmond, VA)
Construction Start:	March 2020
Percent Complete:	95% (WA5), 0% (WA6), 0% (WA7)
Based Construction Contract +	
Change Orders to Date = Current Value:	\$718,428 (WA1) + \$611,764 (WA2-7)
Completion:	October 2022 (WA5), May 2023 (WA6)
Budget:	\$2,810,000

Current Status: WA5, which authorizes card access installation at Glenmore Water Resource Recovery Facility (GWRRF), Scottsville Water Resource Recovery Facility (SVWRRF), and Red Hill Water Treatment Plant (RHWTP), began during the week of June 20th. Conduit and cable pulling is complete at all facilities covered in the WA, and the only work that remains is programming work at each site, likely to be completed by this Spring. WA6 will include card access installation at RWSA's remote sites, including all dams and pump stations. This work was authorized in early August, with completion scheduled for May 2023. WA7, which includes a pilot of a program that will test electronic padlocks at several RWSA facilities, has been authorized. These electronic padlocks have the potential to add an extra layer of security to unmanned facilities such as tanks, dams, and other facilities. If the pilot is successful, wide scale implementation of this technology is possible. Staff has also kicked off final design of a project with Hazen & Sawyer to improve the front entrance of MCAWRRF and install additional fencing, gates, and card access. This will allow staff to better control access to the facility and provide staff with the means to vet access by visitors, vendors, consultants, and contractors. Design is underway, with discussions with Dominion Energy also ongoing, as relocation of existing electrical infrastructure will be required. This relocation process will need to be finalized prior to the project proceeding to the permitting phase.

MEMORANDUM

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

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

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: WHOLESALE METERING REPORT FOR FEBRUARY 2023

DATE: MARCH 28, 2023

The monthly and average daily Urban water system usages by the City and the ACSA for February 2023 were as follows:

	<i>Month</i>	<i>Daily Average</i>	
City Usage (gal)	124,713,427	4,454,051	50.4%
ACSA Usage (gal)	122,721,113	4,382,897	49.6%
Total (gal)	247,434,540	8,836,948	

The *RWSA Wholesale Metering Administrative and Implementation Policy* requires that water use be measured based upon the annual average daily water demand of the City and ACSA over the trailing twelve (12) consecutive month period. The *Water Cost Allocation Agreement (2012)* established a maximum water allocation for each party. If the annual average water usage of either party exceeds this value, a financial true-up would be required for the debt service charges related to the Ragged Mountain Dam and the SRR-RMR Pipeline projects. Below are graphs showing the calculated monthly water usage by each party, the trailing twelve-month average (extended back to March 2022), and that usage relative to the maximum allocation for each party (6.71 MGD for the City and 11.99 MGD for ACSA). Completed in 2019 for a cost of about \$3.2 M, our Wholesale Metering Program consists of 25 remote meter locations around the City boundary and 3 finished water flow meters at treatment plants.

Figure 1: City of Charlottesville Monthly Water Usage and Allocation

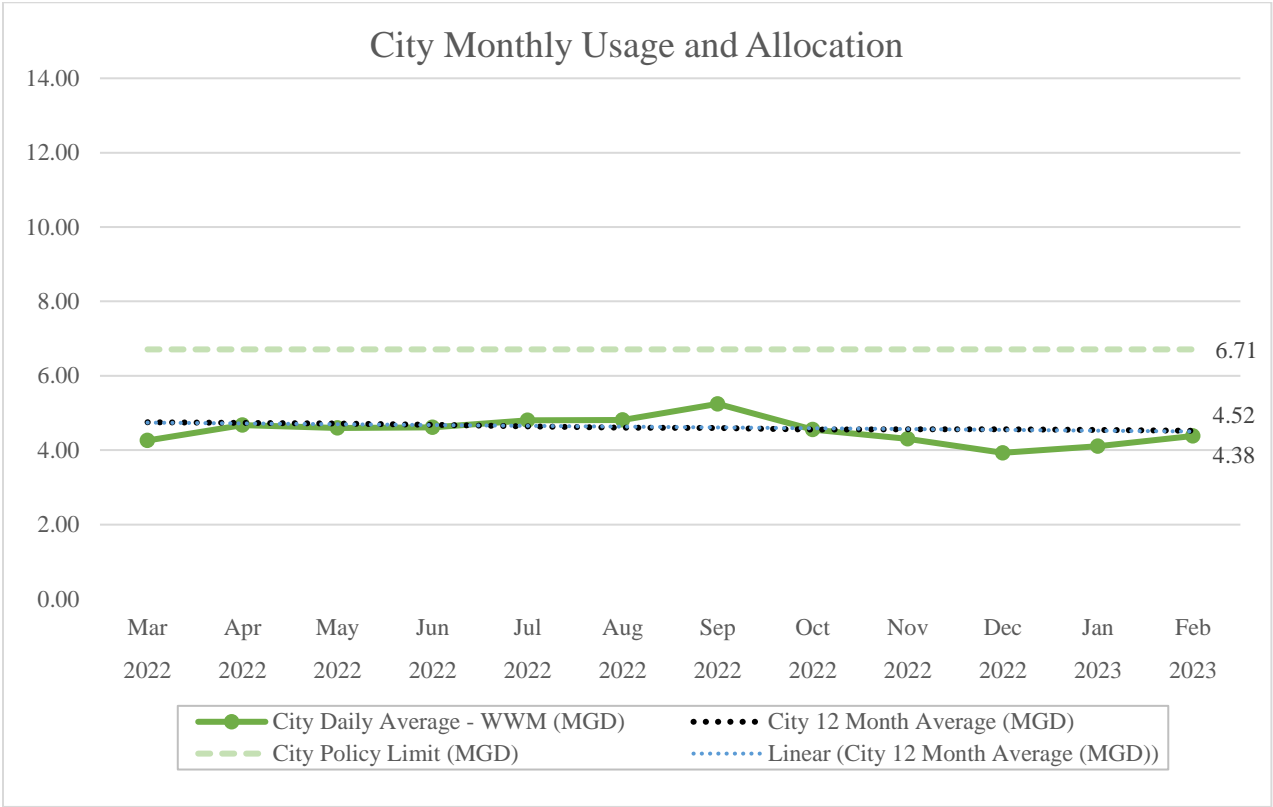
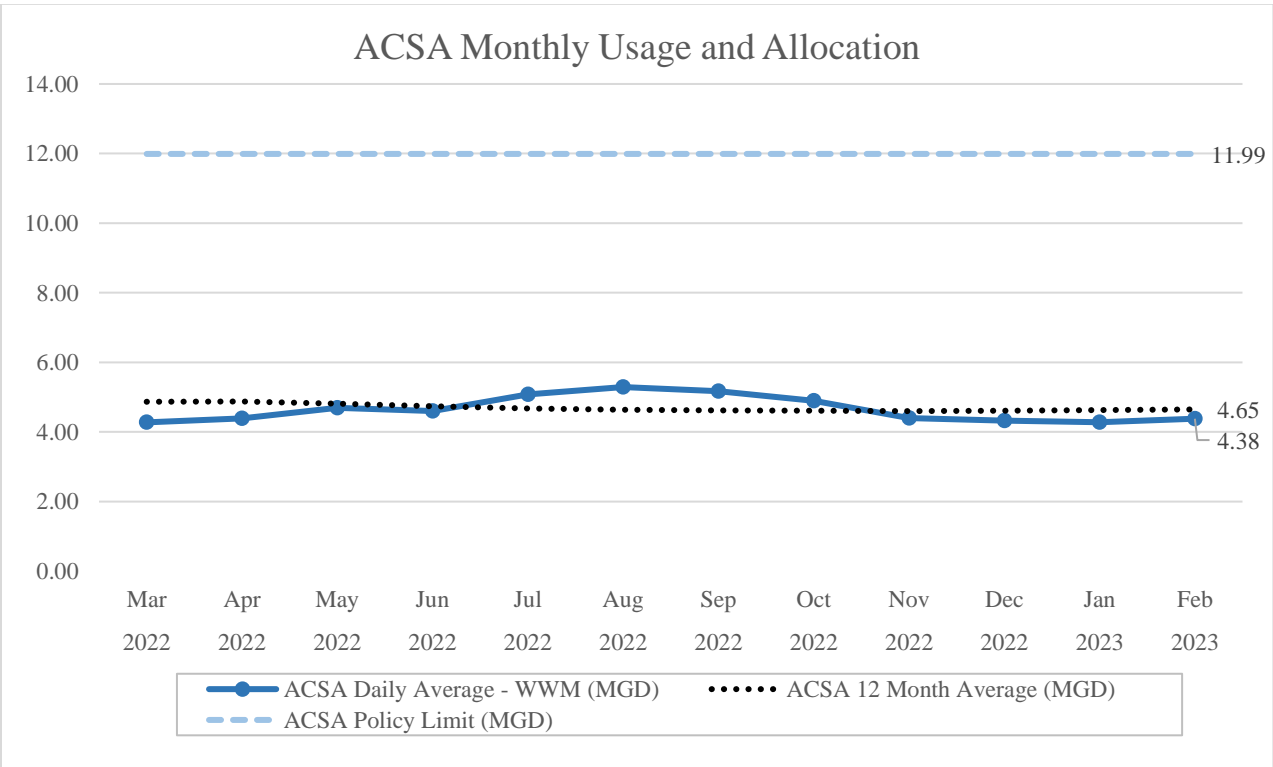


Figure 2: Albemarle County Service Authority Monthly Water Usage and Allocation



Meter Locations for the Wholesale Water Metering Project



Miles
0 0.25 0.5

Date: 4/21/2017



695 Moores Creek Lane
Charlotteville, VA 22902
p.434-977-2970
www.rivanna.org
www.rivannagis.org

Meter Site Locations - WWMP

- 01, Pepsi Place
- 02, Michael Pl / Wilson Ct
- 03, Wilder Dr
- 06, Long St / River Rd

- 08, Franklin St / Carlton Ave / Broadway St
- 09, Moores Creek Ln
- 11, Avon St
- 12, Loma Ln / Harris Rd
- 14, Old Lynchburg Rd
- 15, Ivy Rd / Colonnade Dr

- 16, Ricky Rd / Barracks Rd
- 17, Ricky Rd (near Wayne Ave)
- 18, North Berkshire Rd
- 19, Hydraulic Rd / Inglewood Dr
- 20, Trader Joes
- 22, Rio Rd @ Church of Our Savior

- 23, Greenbrier Dr / Rio Rd
- 24, Greenbrier Ter
- 25, University Heights Apts
- 26, Seminole Trl
- 28, Rio Rd / Melbourne Rd
- 29, Pen Park Ln

- 30, Darden Towle Park
- 31, Stribling Ave
- 32, Fontaine Ave



MEMORANDUM

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

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

REVIEWED BY: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: APPROVAL OF ENGINEERING SERVICES – MOORES CREEK
AWRRF STRUCTURAL AND CONCRETE REHABILITATION –
HAZEN AND SAWYER ENGINEERING**

DATE: MARCH 28, 2023

This request is to authorize the Executive Director to execute a work authorization with Hazen and Sawyer totaling \$856,055 to provide design and construction administration services to complete the MCAWRRF Structural and Concrete Rehabilitation project.

Background

Staff recently combined several smaller projects for the repair/rehabilitation of multiple facilities at the Moores Creek Advanced Water Resource Recovery Facility (MCAWRRF). This work includes concrete and steel repairs, rehabilitation, modifications and/or additions to the Primary Clarifiers, Primary Clarifier Splitter Box, Equalization Basins, Aeration Basins, Holding Ponds, Rivanna Pump Station, Digesters, and Compost Yard Pre-Engineered Metal Sheds. Some of the proposed work has been investigated as part of previous work performed under the MCAWRRF Master Plan, while components of other CIP areas are ready to develop design documents and move forward with the repairs. The combination of these various work efforts allows for more efficient resource allocations and a single set of bid documents, including sequencing, to limit outages and maintain operations during construction while increasing overall market competitiveness for the larger construction project.

RWSA entered into a term agreement with Hazen and Sawyer on March 4, 2019 for Professional Engineering Services. Under this contract, Hazen and Sawyer will provide engineering services for the MCAWRRF Structural and Concrete Rehabilitation project to include design, permitting, bidding, construction administration and management services. A determination will be made during the preliminary engineering phase on the extent of the design efforts associated with the digester rehabilitation and roof membrane work, which may necessitate a future amendment beyond the base level of design effort assumed within this current scope of work.

Engineering staff has negotiated an initial scope of work to include:

- A programming review of digester options and further evaluation

- Schematic design to confirm options and layouts
- Detailed design and regulatory permitting
- Site plan development and assistance through the Albemarle County approval process
- Development of construction documents and bidding assistance
- Construction administration services

Board Action Requested:

Authorize the Executive Director to execute a work authorization with Hazen and Sawyer for professional services to complete the MCAWRRF Structural and Concrete Rehabilitation project totaling \$856,055 and any further amendments needed to complete the tasks identified above, not to exceed 25% of the original contract amount, provided the resulting total cost is within the approved CIP project budget.



MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: INTRODUCTION OF FISCAL YEAR 2023-2024 BUDGET AND APPROVAL OF
THE RESOLUTION TO ADOPT THE PRELIMINARY RATE SCHEDULE**

DATE: MARCH 28, 2023

I am pleased to present the proposed FY 2023-2024 budget totaling \$47,698,000 for your consideration. This budget includes \$24,406,000 for Operating expenses and \$23,291,000 for capital Debt Service charges, and represents a 13.9% increase above the current budget. The proposed budget includes resources required to improve our water supply and water treatment infrastructure, meet debt service obligations, comply with regulatory mandates, and invest in our workforce. Through these resources, wholesale water and wastewater services will be provided to the City of Charlottesville and the Albemarle County Service Authority (ACSA) in a collaborative, effective, and fiscally responsible manner.

The proposed budget includes a \$2.2 million increase in Operating expenses primarily due to inflationary cost increases for water and wastewater treatment chemicals; licensing and enhancements for our information technology systems; and support for our workforce. Debt Service costs will increase \$3.6 million due to inflationary cost increases for our capital projects; a three-year acceleration of a major water supply project (SFRR – RMR Pipeline); increased GAC treatment facilities at our Crozet and Red Hill WTPs; improvements to the Beaver Creek Dam; as well as to leverage local partnerships and complete water line projects in the Emmet Street corridor in a cost effective manner. Charges will increase 9.3% for the City and 13.4% for the ACSA to support these essential projects and services.

The Board will be asked at this meeting to approve the Resolution to Adopt the attached Preliminary Rate Schedule, which sets a public hearing on the proposed budget for Tuesday, May 23, 2023, and authorizes staff to advertise the attached Public Notice showing the proposed wholesale rates required to support the proposed budget. As required by Virginia law, staff will advertise the Public Notice twice in the local newspaper followed by a minimum 14-day period in advance of the scheduled public hearing. Adoption of the Preliminary Rate Schedule does not prejudice final Board actions on the budget, including amendments or changes to the proposed budget the Board may want to consider later. The Board's final actions on the budget will be requested after the public hearing.

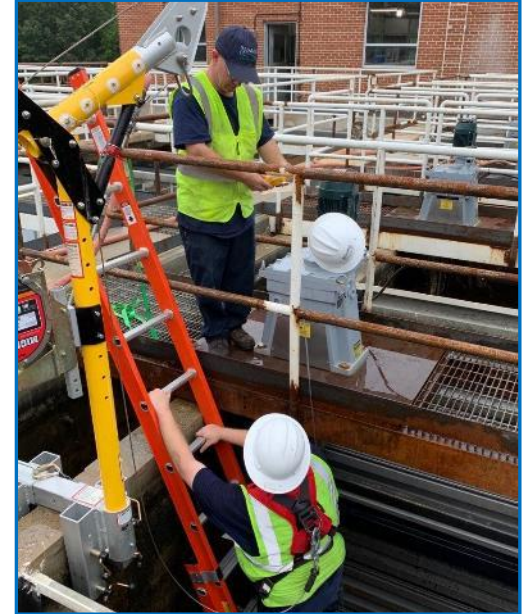
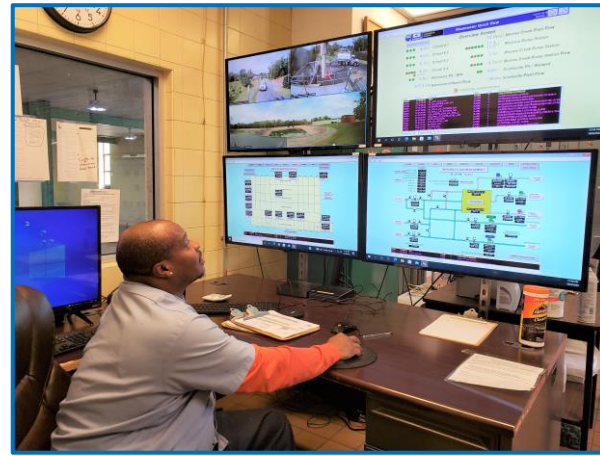
Board Action Requested:

Approve the Resolution to Adopt the attached Preliminary Rate Schedule and authorize advertisement for a public hearing during the Board's regular meeting on May 23, 2023.

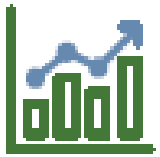
Attachments

Proposed Budget FY 2023 - 2024

PRESENTED TO THE BOARD OF DIRECTORS
BY BILL MAWYER, EXECUTIVE DIRECTOR
MARCH 28, 2023



Guided by the Priorities of Our Strategic Plan 2023-2028



OPTIMIZATION AND RESILIENCY

To empower a culture of innovative and collaborative thinking that advances efficient operational processes, technology modernization, and risk mitigation.



ENVIRONMENTAL STEWARDSHIP

To demonstrate and promote best practices in sustainability, resources conservation, and environmental education.



WORKFORCE DEVELOPMENT

To attract, develop, and retain a professional, highly skilled, engaged, and diverse team.



COMMUNICATION AND COLLABORATION

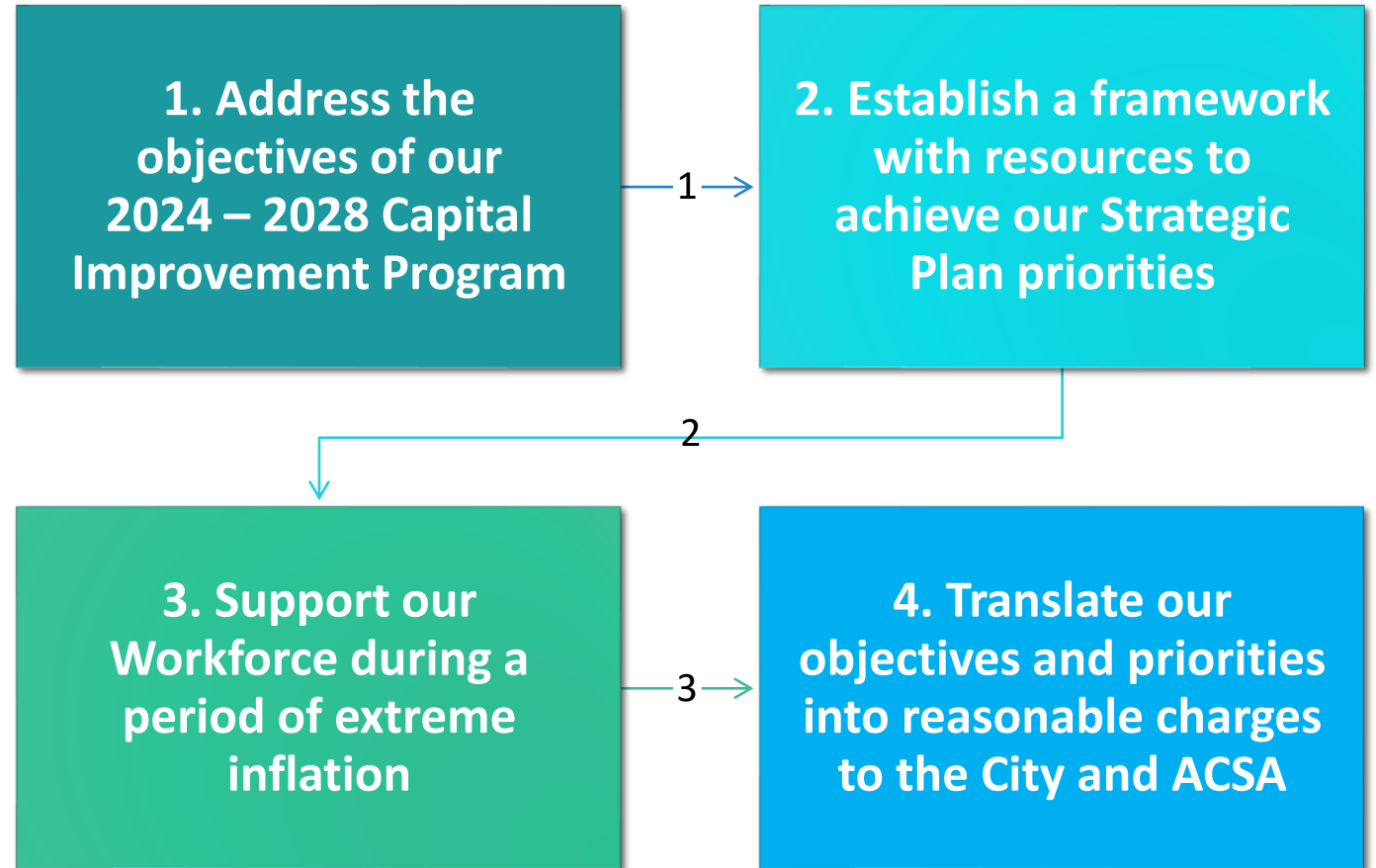
To elevate awareness of the Authorities' impact and value through proactive communication, effective partnerships, and community involvement.



PLANNING AND INFRASTRUCTURE

To address evolving needs by planning, delivering, and maintaining dependable infrastructure and facilities in a financially responsible manner.

Focus of the FY 2023 – 2024 Budget



Objectives of our FY 24 – 28 CIP

➤ ***Complete the South Fork Rivanna Reservoir to Ragged Mtn Reservoir Pipeline and Pumping project by 2030 rather than 2033.***

- Accelerating this project will enhance the capacity, reliability and resiliency of our community's drinking water supply. Extended droughts and more intense storms are predicted. Completing this pipeline and increasing the water storage capacity in RMR by 700 MG will optimize our infrastructure and mitigate this concern.

➤ ***Provide additional Granular Activated Carbon treatment capacity at Crozet and Red Hill WTPs.***

- Additional GAC facilities will enhance drinking water quality and serve anticipated growth while utilizing grant funding from VDH (currently \$3.17 M of \$5M budgeted).

➤ ***Leverage partnerships with the City, UVA and VDOT on drinking water piping projects in Emmet Street.***

- To reduce costs and disruption to the public in the Emmet Street corridor.

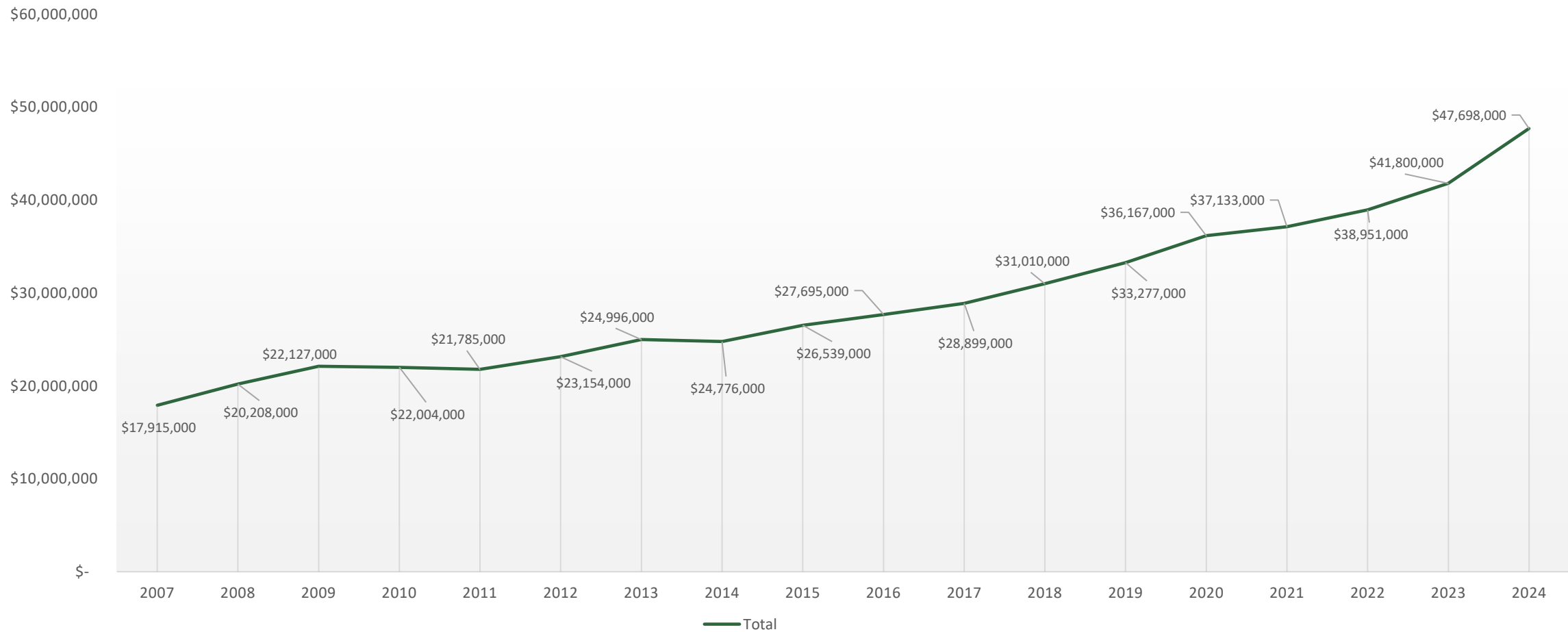
➤ ***Improve drinking water capacity and reliability in the Rt. 29 North area.***

- Additional river crossings and the Airport Pump Station will strengthen our drinking water infrastructure, support growth opportunities, and allow decommissioning of the North Rivanna WTP.

Budget Summary

FY 2023 – 2024

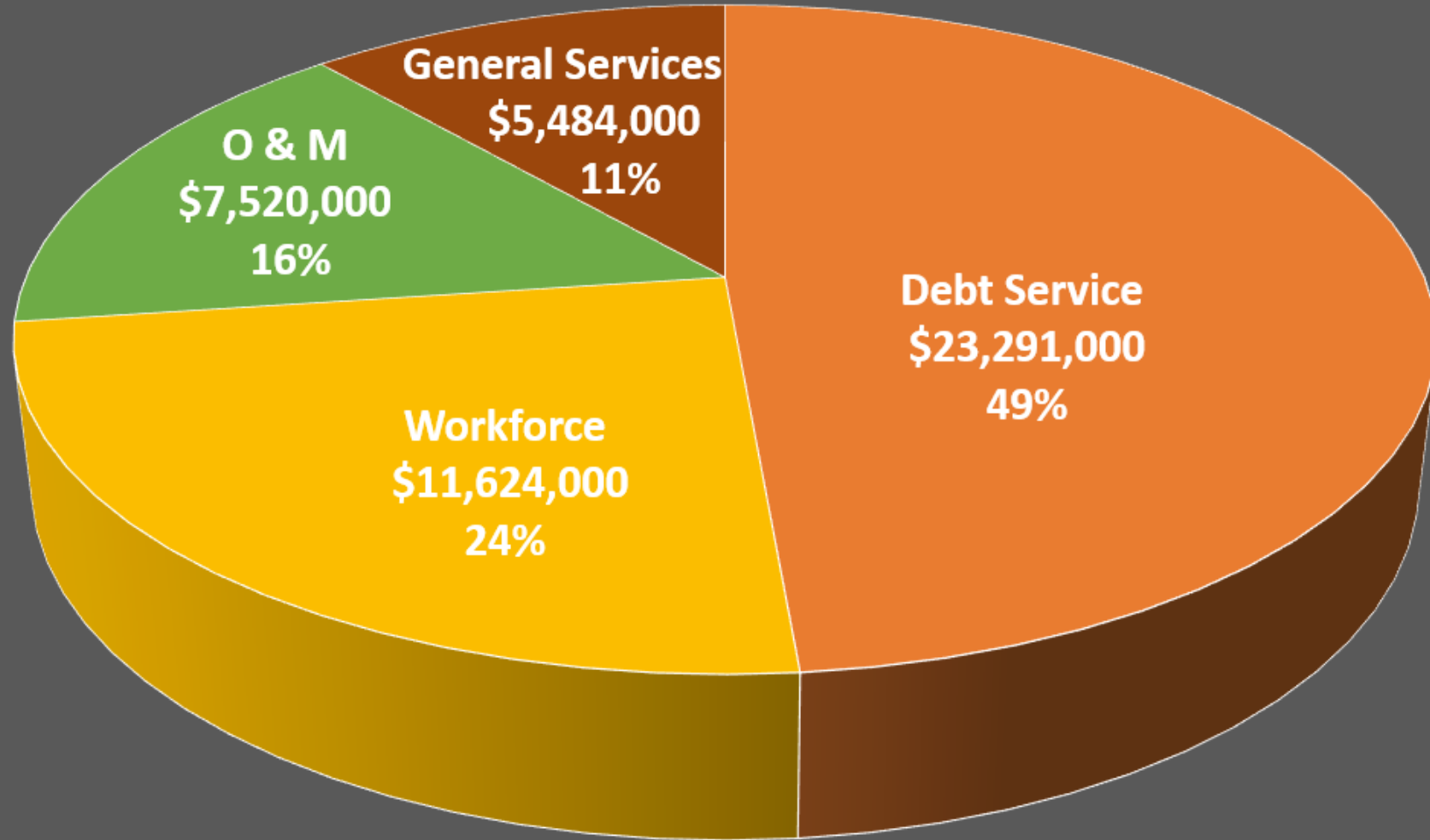
➤ Total Budget	\$47.7 m	\$5.8 m increase = 13.9%
1. Debt Service	\$23.3 m	\$3.6 m increase = 18.2%
2. Operations	\$24.4 m	\$2.2 m increase = 10.1%
➤ City Charges	\$17.8 m	\$1.5 m increase = 9.3 %
➤ ACSA Charges	\$27.0 m	\$3.2 m increase = 13.4 %

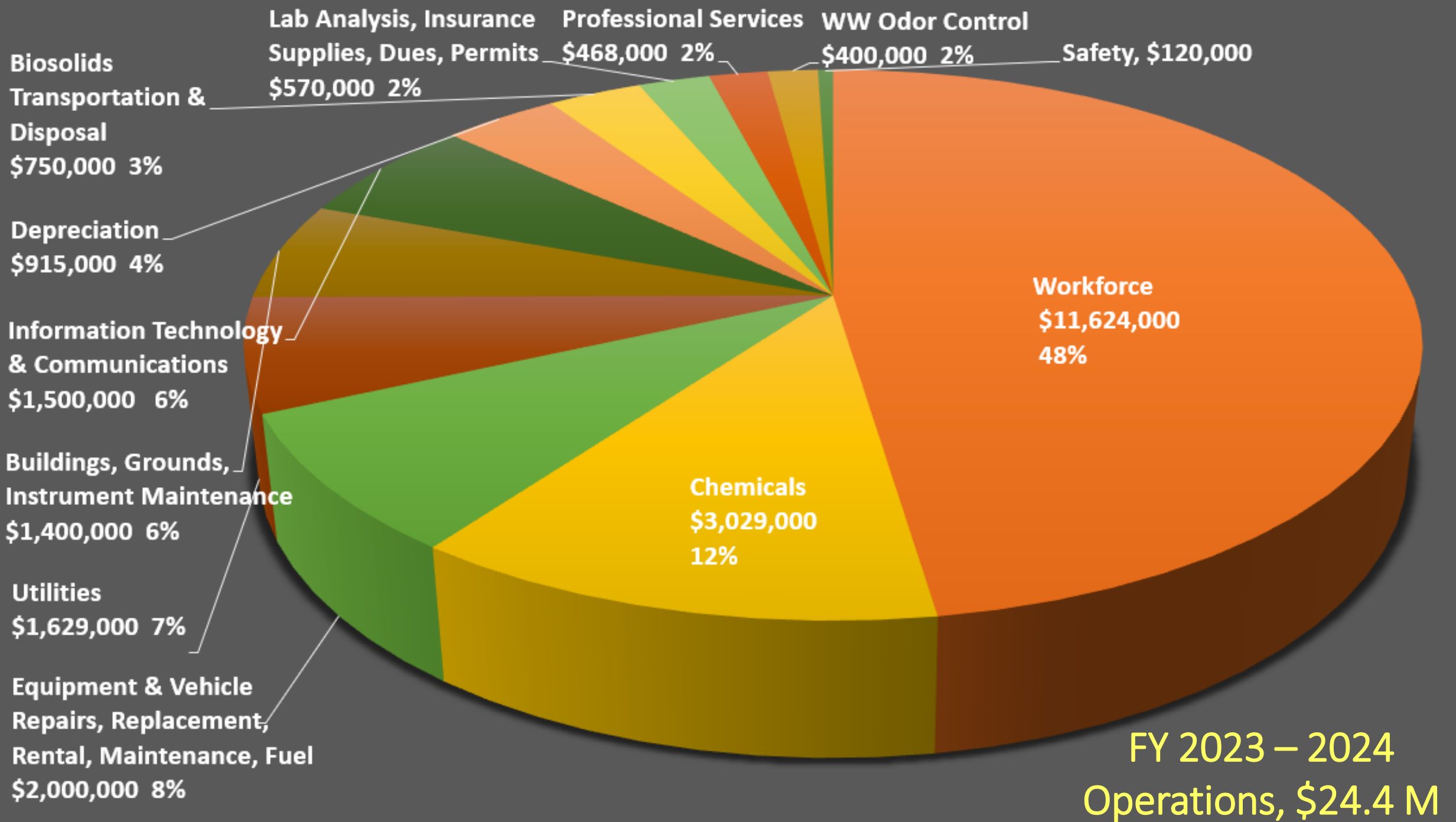


18 Year Budget History

FY 2023– 2024 Budget

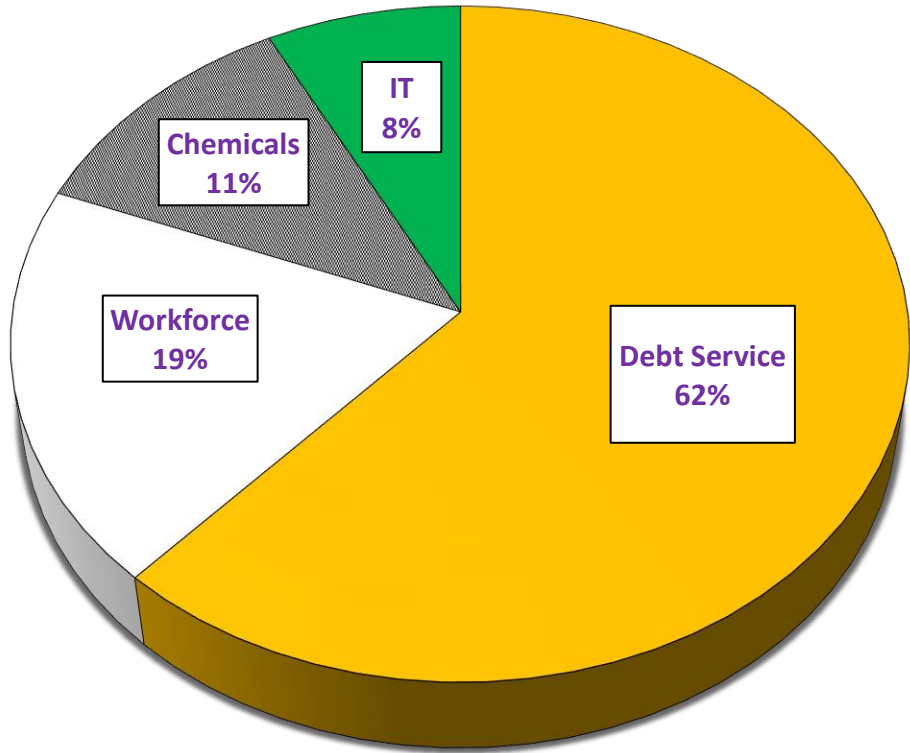
\$47.7 M





Cost Increases

FY 2024 vs 2023



Debt Service	\$3,592,000	62%
Workforce	\$1,130,000	19%
Chemicals	\$680,000	11%
Information Technology	<u>\$453,000</u>	8%
Total Increase	\$5.8 million	

Strategic Plan Priority

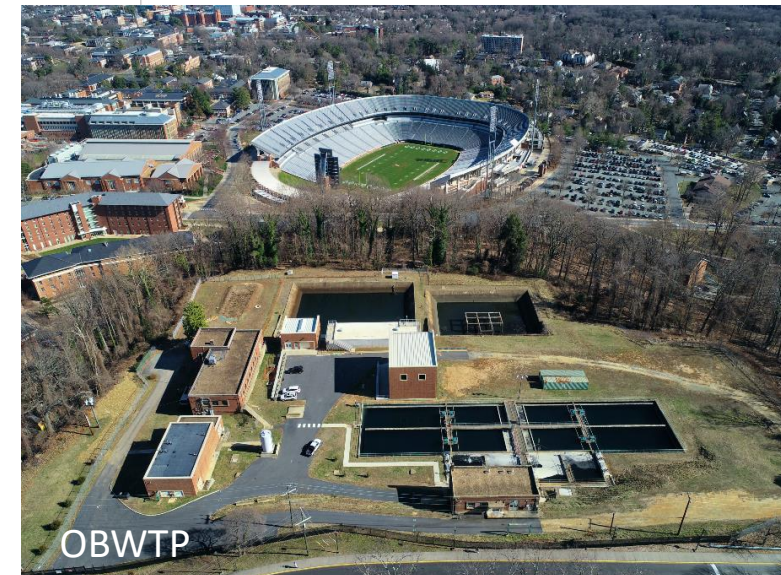
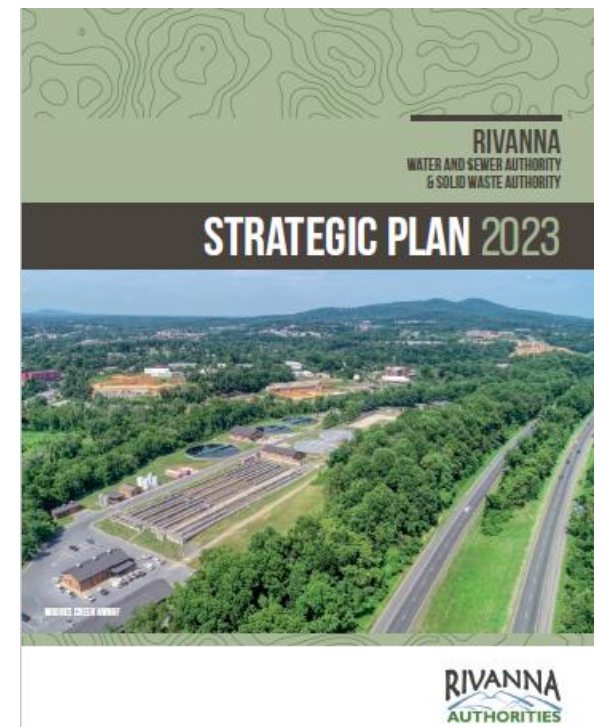
Operational Optimization Savings

- Advance efficient operational processes, technology modernization, and risk management

System	Savings
Provide In-house Covid Testing	\$40,000
Transition to Liquid Lime from Dry Chemical	\$37,000
Use TOC Analyzer for Real Time GAC Adjustment, SRWTP	\$30,000
Purchased high quality used in lieu of new lab equipment	\$20,000
Reduced cost of Micro C chemical through contracting strategy	\$17,000
Use Meter to Optimize Alum Dosing, SRWTP	\$16,000
Use SCADA to Optimize Alum Dosing, Moores Creek	\$15,000
Change coagulant from PACL to Alum, OBWTP	\$11,000
Reduce Advertising frequency in newspaper	\$1,000
Total Estimated Annual Savings	\$187,000

Major Achievements in FY 2023

- Completed Strategic Plan 2023
- Completed Major Water Treatment Plant Renovations
 - S. Rivanna and Observatory
- Increased the number of Water and Wastewater Operators licensed as Class I and Class II by 24%
 - Water: 24 of 25 = 96% Wastewater: 12 of 16 = 75%
- Reduced staff turnover from 15% in FY 2022 to 5% in FY 2023
- Implemented new Human Resources Information System
 - On-line management of Payroll, Annual and Sick Leave, Training
- Crafted a “Lease and Sale Procedure” for Buck Mtn properties
 - Completed sale of the Elliot house.
- Reduced reportable safety incidents by 82% since 2019
- Produced over 3.5 BG of High-Quality Drinking Water
- Processed over 3.5 BG of Wastewater



Major Programs in FY 2024

➤ In Construction:

- Airport Rd Water Pump Station*
- MC 5kv Electrical Upgrade **
- S. Rivanna River Crossing*
- RMR – OBWTP Pipeline & Pump Station **
- Central Water Line**
- Red Hill WTP Upgrades and GAC*
- Scottsville WRRF Emergency Power Generator*
- MC Admin Building Renovation & Addition **

➤ In Design:

- SFRR – RMR Pipeline ***
- Beaver Creek Dam, Pump Station & Piping *
- Crozet WTP GAC Systems *

*100% ACSA; ** 52% ACSA/48% City; *** 80% ACSA/20% City;

➤ New Administration & Communications Division



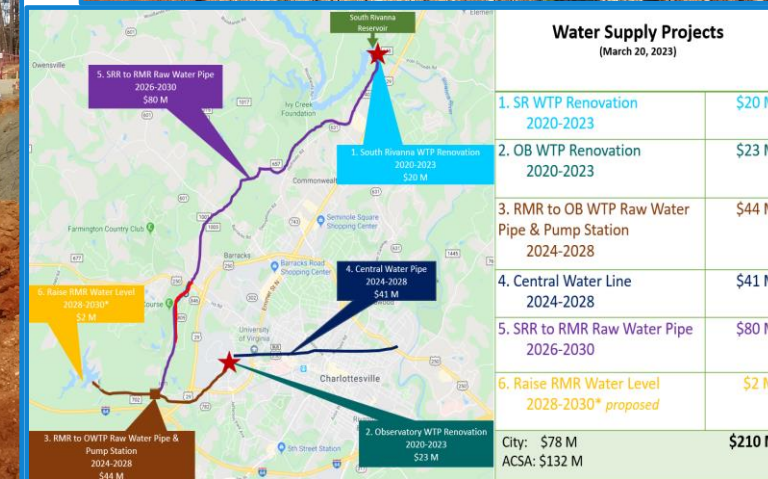
Airport Rd WPS – Vertical Turbine Pumps



Airport Rd WPS- Vertical Turbine Pump Cans



24" Pipe



Beaver Creek Reservoir

Expansive Water & Wastewater Chemicals Network

Water Treatment Chemicals

Aluminum Sulfate	1
Corrosion Inhibitor	2
Fluoride	4
Granular Activated Carbon	5
Lime Slurry	6
Polyaluminum Chloride	8
Polymer	9
Potassium Permanganate	11
Powdered Activated Carbon	12
Soda Ash	13
Sodium Fluoride	14
Sodium Hypochlorite	16
Sodium Permanganate	17

Wastewater Treatment Chemicals

Aluminum Sulfate	1
Ferric Chloride	3
MicroC	7
Polymer	10
Sodium Hydroxide (caustic soda)	15
Sodium Hypochlorite	16

- Transport Biosolids to Waverly, VA
540 trips/yr = 125k miles



Assessment of Workforce Compensation

for FY 2024

- Turnover Rate: *Strategic Plan, “Workforce Development” goal is less than 10% turnover*
 - FY 18 – 22, avg. 15% for RWSA and 19% for RSWA (40% in FY 22)
 - FY 23, July thru Feb 2023, reduced to 5% for RWSA and 8% for RSWA
 - attributed to 10% cola/merit increase in CY 23, with no increase in health insurance premiums
- Inflation since the last cola increase approved in January 2022
 - 6.9%, Feb 2022 – Feb 2023, may be higher by July 2023
- Market survey of 9 W&S Utilities in central Va
 - Proposed increases ranging from 4 – 10%, avg. 7.1% in July 2023
- Consumer Price Index, 12 month rolling average
 - 6.0%, March 2022 – Feb 2023
- Local proposals
 - County = 4% + compensation study results: City = 6% + compensation study results
- Social Security Administration
 - 8.7% for CY 2023

Expense Increases

~Inflation and Investment~

Workforce:

\$1.1 m

- Cola (6%); Merit (2%)
- VRS, Taxes, Health/Life Insur
- 4 Additional Positions*
 1. Director Admin & Communications:
 2. Financial Manager:
 3. IT Technician- Cyber Security:
 4. Engineering Inspector Supervisor:

\$601 k

\$274 k

\$255 k

1st quarter

2nd quarter

2nd quarter

2nd quarter

*Eliminated 0.4 position; net 3.6 additional positions

- Adjust payscale 10%:

\$12 k

- Safety Training

2700 hours

Operations and Maintenance: \$1.1 m

- Chemicals
- Technology & Communications

\$680 k

\$453 k

~Licenses & Support Services for SCADA, Security, HRIS~

- Equipment Maintenance

\$200 k

- Biosolids Centrifuge Service (1 of 2)
- WW Ultraviolet Disinfection Lamps

~replace 108 of 864 UV lamps~

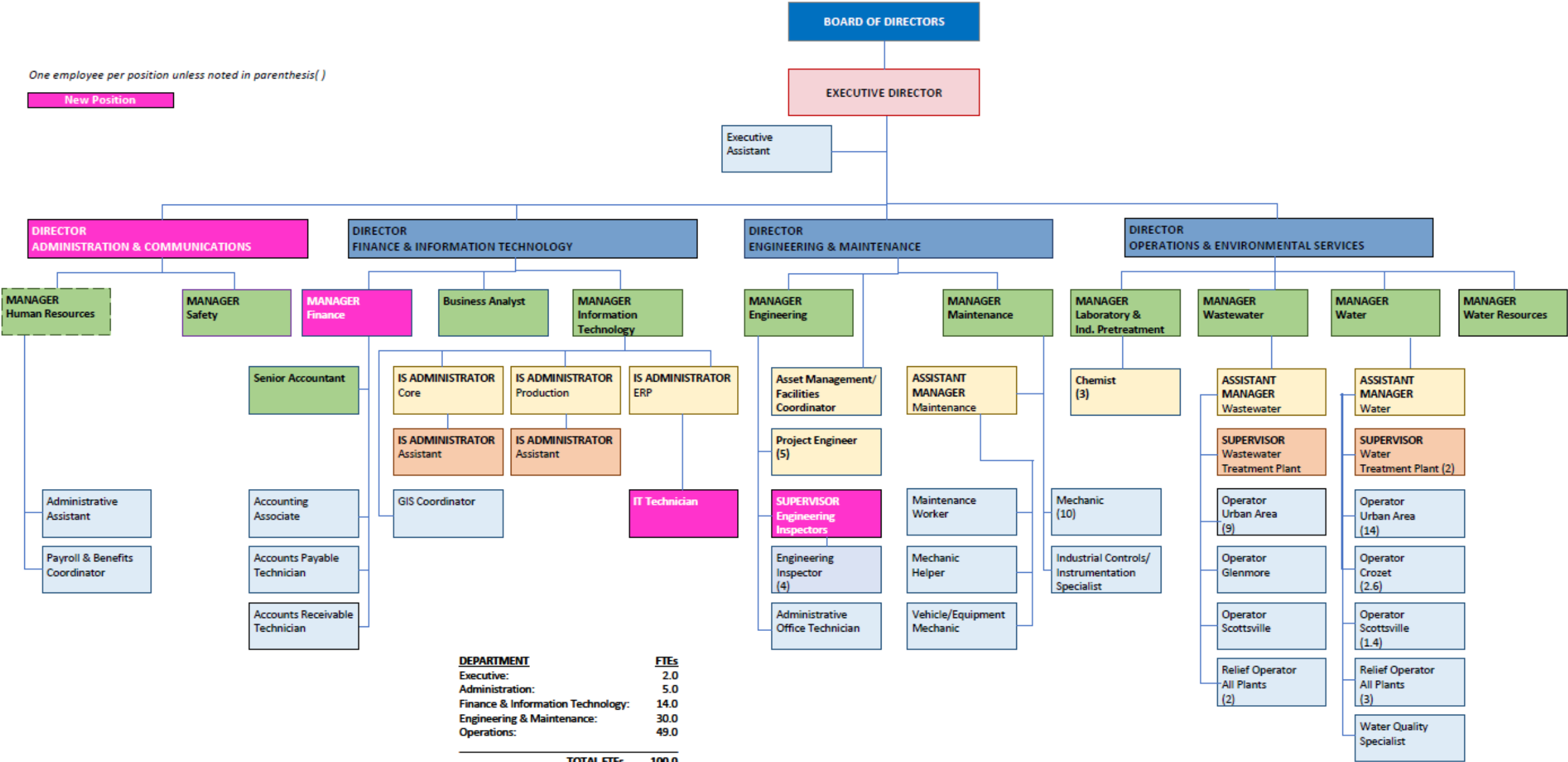
- Professional & Other Services reduction <\$160 k>

RIVANNA WATER & SEWER AUTHORITY
Organizational Chart

FY 2023 – 2024 Proposed Budget

One employee per position unless noted in parenthesis()

New Position



New Administration & Communications Division

Responsibilities will include:

➤ *Managing Human Resource programs*

- *recruiting, hiring, payroll and benefits*
- *personnel management and training*
- *leadership development*
- *compensation and classification studies*
- *new Human Resources Information System*

➤ *Designing, implementing and managing our Strategic Plan initiatives*

- *developing a public-facing brand identity in our community.*
- *promoting our services to the community thru educational outreach and partnerships.*
- *increasing recruitment and retention of women and minority candidates in support of our DEI initiative.*
- *enhancing our web page and social media sources to make them more impactful, communicative, and user friendly.*
- *creating educational videos and notices to the media/public to highlight improvements and achievements; support the ACSA and City in their efforts to communicate with their customers to explain cost increases.*

➤ *Managing continued enhancements of our Safety Program*

Additional Positions

1. Director of Administration and Communications:

- manage Human Resources services – recruiting, hiring, personnel topics, new Human Resources Information System (HRIS); Safety Program; initiatives prioritized by our Strategic Plan.*

2. Finance Manager:

- supervise staff and become proficient with all Finance programs of the RWSA and RSWA including budgets, accounts payable/ receivable, bonds, rate models, and procurement; make presentations to the Executive Management Team and the Rivanna Boards; serve as a backup to the Division Director.*

3. Information Technology Technician:

- support systems including cybersecurity, SCADA, Asset Management (Cityworks), HRIS.*

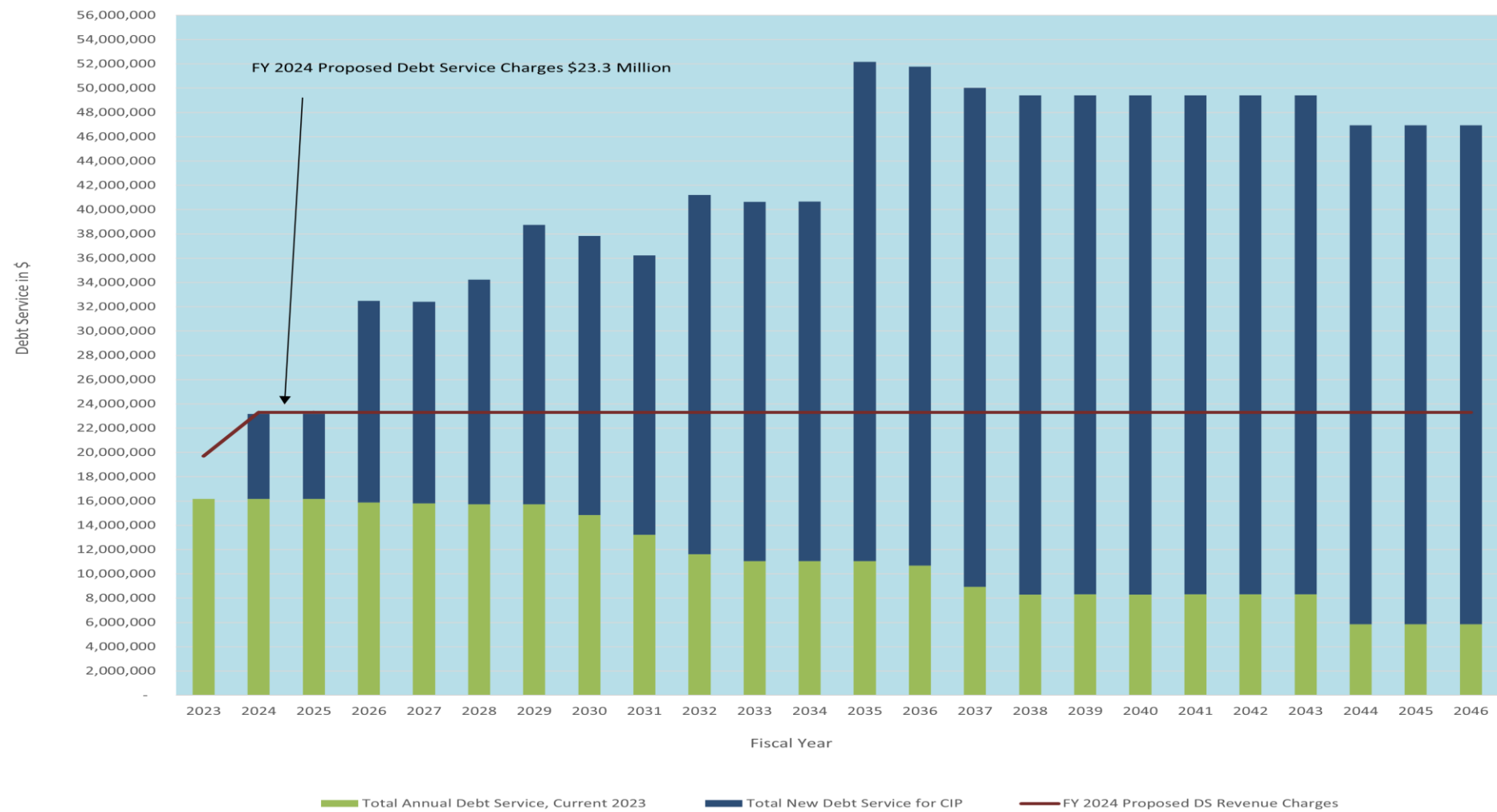
4. Supervisory Engineering Inspector:

- supervise and manage the work programs for our 4 Engineering Inspectors, as well as our consultant inspectors, while also providing field inspections as needed. Manage inspection services for the significant large piping and building projects scheduled to begin construction in CY 2024. This position will be somewhat self-funding by avoiding costly consultant inspection expenses.*

Financial Forecast

•RWSA Charge Increase (%):	<u>FY</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>
• City		9.3	9.7	9.0	9.4	10.0
• ACSA		13.4	12.4	11.7	11.6	11.4
•FY 24 Capital Budget		\$34.3 m				
•FY 24-28 CIP		\$326.1 m, less Grants of \$20.5 m				
•New CIP Debt Anticipated		\$232 m				

Note: Actual Urban water and wastewater flows in FY 2022 and terms of the Northern Area Drinking Water Agreement resulted in a \$480,000 shift in operating costs = 2.9% decrease for City and 2.0% increase for ACSA



Debt Service Profile FY 2024 - 2046

Budget Summary

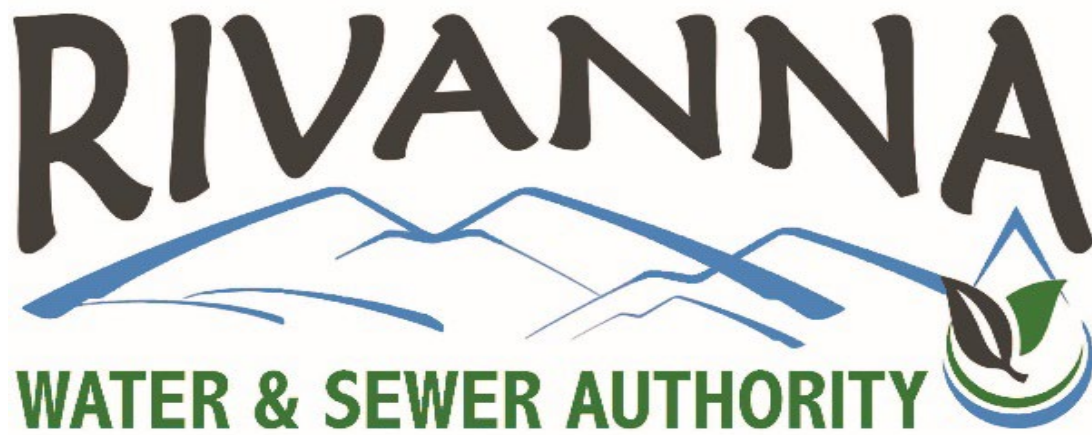
FY 2023 – 2024

➤ Total Budget	\$47.7 m	\$5.8 m increase = 13.9%
1. Debt Service	\$23.3 m	\$3.6 m increase = 18.2%
2. Expenses	\$24.4 m	\$2.2 m increase = 10.1%
➤ City Charges	\$17.8 m	\$1.5 m increase = 9.3 %
➤ ACSA Charges	\$27.0 m	\$3.2 m increase = 13.4%

Questions?

Action Requested by the Board:

Approval of the Resolution to Adopt the Preliminary Rate Schedule including authorization to advertise the Preliminary Rate Schedule for a Public Hearing to be held during the regular meeting of the Board of Directors on May 23, 2023.



VALUES

The Rivanna Authorities are committed to the following values:

- Integrity
- Teamwork
- Respect
- Quality

FY 2023 – 2024
Proposed Budget
March 28, 2023



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RIVANNA WATER & SEWER AUTHORITY

FY 2024 Draft Budget

Prepared: **March 10, 2023**
Draft 8, 3 rounds of cuts, several add backs, Option 3 CII

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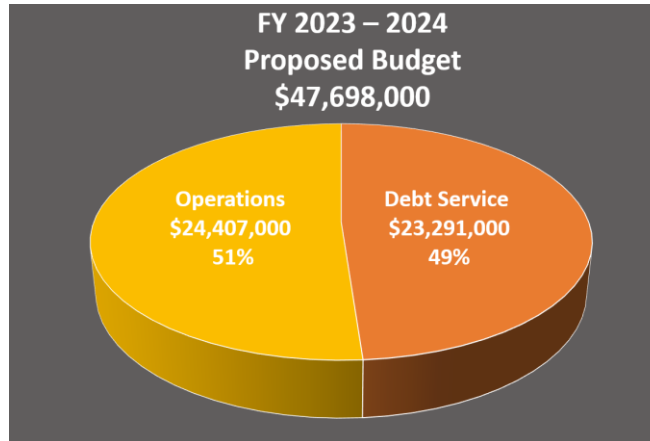
Budget Highlights

- Executive Summary Narrative

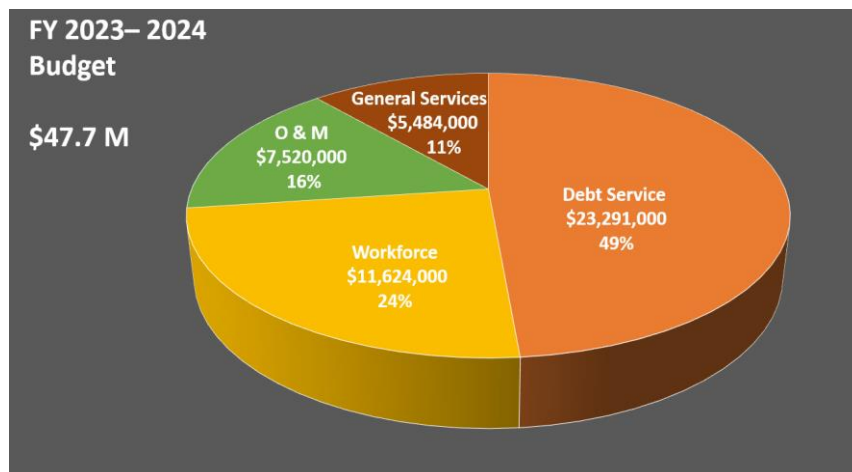
Rivanna Water and Sewer Authority
Proposed
FY 2023-2024 Budget

Budget Overview

The Rivanna Water and Sewer Authority provides wholesale drinking water and wastewater treatment services for the City of Charlottesville and the Albemarle County Service Authority (ACSA). An FY 2023-2024 budget of \$47,698,000 is proposed to support the quality of life and economic development desired by both localities. The proposed budget was developed to strategically provide these water and wastewater services for our community in a reliable, regulatory compliant, environmentally protective and financially responsible manner.

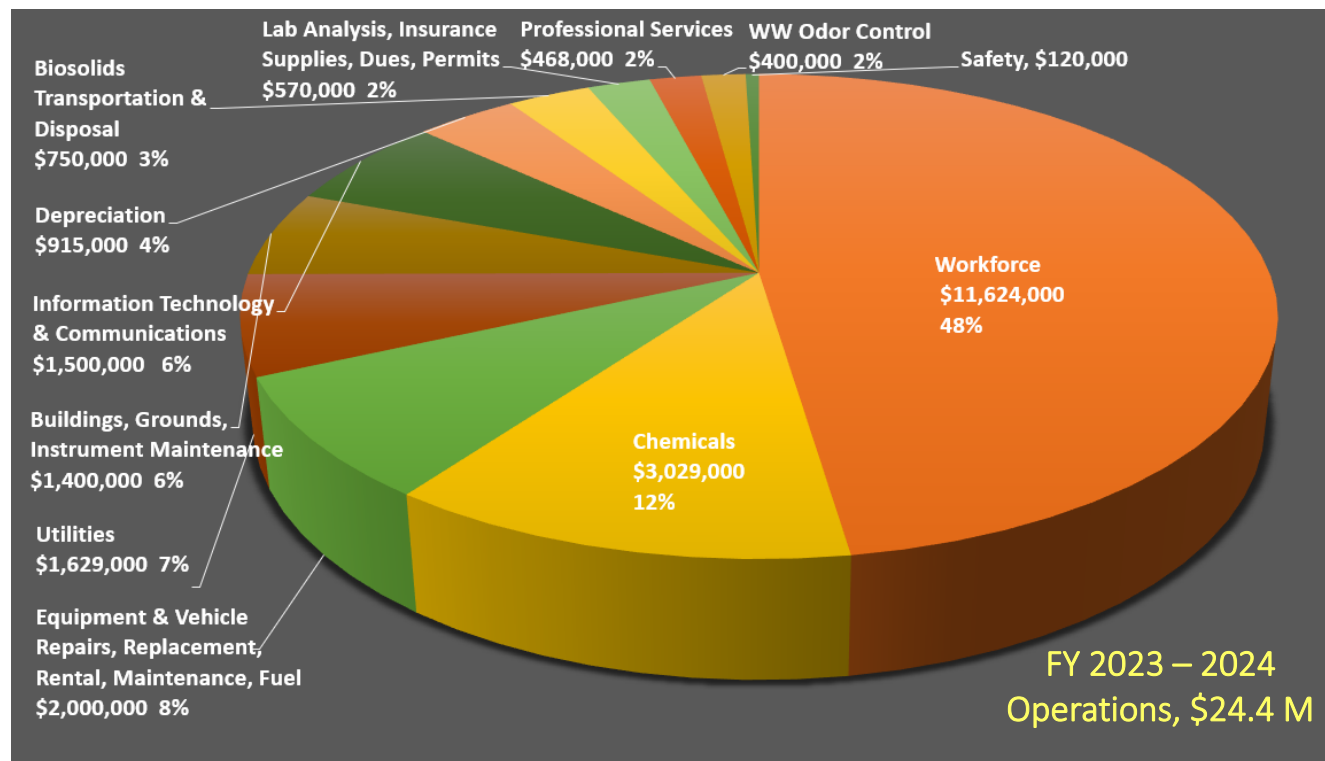


To provide the capacity and reliability needed to appropriately serve our customers, we are guided by our Strategic Plan priorities of Optimization and Resiliency, Workforce Development, Communication and Collaboration, Planning and Infrastructure, and Environmental Stewardship. The proposed budget includes \$24,407,000 for Operating expenses and \$23,291,000 for Debt Service charges, including a total budget increase of \$5,847,000, or 13.9%. Operating expenses include Workforce (salaries; benefits; training; and uniforms), General Services (professional and nonprofessional contract services; utilities; biosolids transportation and disposal; odor control; information technology; insurance; permits; and communications), and Operation and Maintenance (chemicals; repairs and maintenance for buildings, vehicles, and equipment; fuel; and depreciation). Debt Service charges represent 49% of our budget and provide funding to construct and renew our major infrastructure including water and wastewater treatment plants, pumping stations, piping systems and reservoir facilities.



Rivanna Water and Sewer Authority
Proposed
FY 2023-2024 Budget

A new Division of Administration and Communications is requested, along with four additional positions, as we expand our organizational structure and staffing to strengthen our focus on Strategic Plan priorities including brand identity, community outreach, diversity in our workforce, and leadership development. The proposed budget includes a 6% cost-of-living and 2% merit pool for staff salary increases to retain and attract qualified staff to provide our essential services. A detailed outline of our Operating expenses is shown below:



To support our Operational, Capital and Strategic Plan goals, the FY 2023-2024 budget proposes an increase of \$2,255,000 in Operating expenses and an increase of \$3,592,000 in Debt Service charges for a total budget increase of \$5,847,000. Rates in the Urban Rate Centers are proposed to increase:

- \$0.296 per 1000 gallons = 11.1% for water
- \$0.258 per 1000 gallons = 9.6% for wastewater

Monthly Debt Service charges to the City will increase:

- \$57,703 = 23.1% for Urban water
- \$10,253 = 2.6% for Urban wastewater

Monthly Debt Service charges to the ACSA will increase:

- \$99,927 = 22.5% for Urban water
- \$28,198 = 7.9% for Urban wastewater
- \$39,549 = 9.6% for non-Urban water and wastewater

Rivanna Water and Sewer Authority
Proposed
FY 2023-2024 Budget

Actual Water and Wastewater Flows

Actual FY 2021-2022 water and wastewater retail flows reported by the City and ACSA are used to allocate the Urban Area operating rates and charges, in accordance with the “Working Agreement on Urban Area Wholesale Flow Allocation and Billing Methodology” (1983). Based on the actual retail flows reported, the allocation of costs resulted in a \$215,600 charge increase for the ACSA and a \$215,600 charge decrease for the City.

Allocation of flows (based on retail flows):

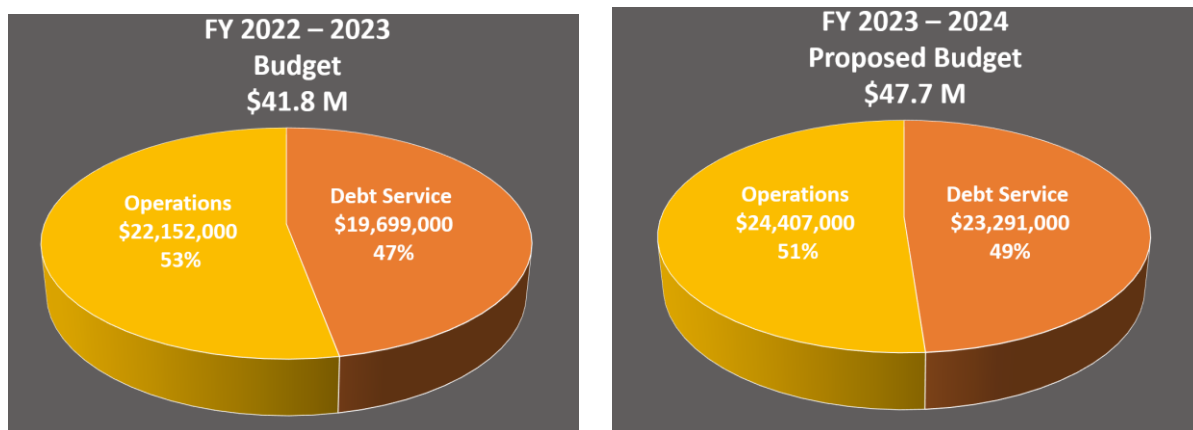
	<u>FY 2023</u>	<u>FY 2024</u>
City Water	49%	48%
ACSA Water	51%	52%
City Wastewater	47%	46%
ACSA Wastewater	53%	54%

A brief description of proposed budget investments includes:

A. Increase in Operating Expenses:	\$2,255,000
1. Personnel:	\$1,130,800
a. 6% cola + 2% merit	\$601,600
b. VRS, Taxes, Health and Life Insurance	\$274,200
c. Additional positions	\$255,000
▪ Director of Administration and Communications	
▪ Finance Manager	
▪ Information Technology Technician – Cyber Security	
▪ Engineering Inspector Supervisor	
2. Water and Wastewater Programs, net increase:	\$1,124,200
a. Water and Wastewater Chemicals	\$680,000
b. Technology, Security, SCADA	\$453,000
c. Wastewater Equipment Repairs	\$200,000
d. Professional & Other Services – cost reduction	<\$208,800>
B. Increase in Debt Service Charges:	\$3,592,000

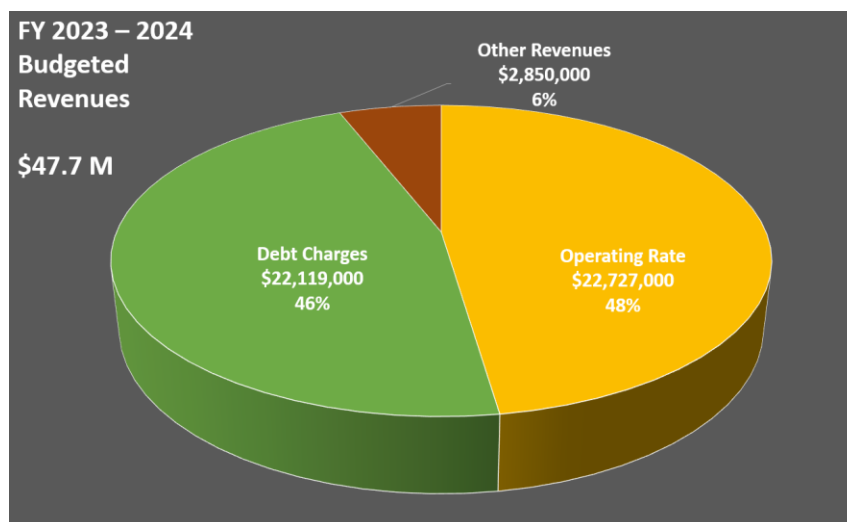
Rivanna Water and Sewer Authority
Proposed
FY 2023-2024 Budget

Debt Service costs of \$23,291,000 represent the largest component of our budget (49%). These debt costs are estimated to increase \$3,592,000 to support major projects in our FY 24 – 28 CIP including the Airport Road Water Pump Station, Central Water Line, Ragged Mtn Reservoir to Observatory WTP Water Line, South Fork Rivanna Reservoir to Ragged Mtn. Reservoir Water Line, and the Beaver Creek Reservoir Dam and Pump Station Improvements. The Authority's overall ratio of Operating expenses and Debt Service costs is moving closer to equal allocations with Operating expenses representing 51% of the total budget and Debt Service costs being 49% of the total budget, as shown below in comparison to FY 2022-2023:



Revenues

Revenues for FY 2023 - 2024 are based upon estimated Operating Rate revenues of \$22,727,000, Debt Service charges of \$22,119,000, other non-customer revenues of \$2,850,000 (RSWA allocation, septage receiving, nutrient credits, County septage station support, use of reserves, and interest income), as shown below:



A summary of the major inflation and investment-driven budget increases follows, and a detailed line-by-line comparison is provided in **Appendix 8** for the Authority as a whole.

Rivanna Water and Sewer Authority
Proposed
FY 2023-2024 Budget

Summary of Budget Expenses
FY 2024

Significant Line - item increases

	<u>Line Item</u>	<u>Notable Items</u>	<u>Budget Change over Prior year</u>
<u>Personnel cost in general</u>			
• Salary Adjustment 6% COLA & 2% Merit increase	11000	601,600	
• New Positions (Admin Director, IT, Finance Manager, Eng. Tech)	11000	255,000	
• Personnel costs related changes (VRS, Taxes, Life Ins., Health)	12XXX	274,200	
<i>Total change in personnel and benefit costs</i>			\$ 1,130,800
<u>General overall changes</u>			
<u>Urban Water</u>			
• Chemicals	41450		\$ 376,400
• Watershed Mgt - mitigation monitoring and maintenance	41550		\$ 21,000
<u>Urban Wastewater</u>			
• Insurance - General property values went up	21100		\$ 23,200
• Chemicals	41450		\$ 303,900
• Equipment - UV Bulbs change out, Centrifuge major service required	21420		\$ 150,000
• Instrumentation - Service agreement equipment increased	41600		\$ 27,100
• Vehicle Replacement Depreciation (new trailer and switcher truck)	41700		\$ 23,500
<u>All other Dept and Rate Centers</u>			
• Admin - IT - Subscriptions, new security services	31XXX		\$ 353,500
• Admin - General other service - HRIS system	41420		\$ 42,500
• SCADA Screen reconfigurations for uniformity - all rate centers	31150		\$ 40,000
• IT Hardware, switches replacement			\$ 105,500
• Reduction in Engineering consultant services	20300		\$ (150,000)
• Equipment over \$10,000	81250		\$ (80,000)
• All other changes			\$ (112,500)
FY 2024 Total increases in estimated operating expenses			\$ 2,254,900

Rivanna Water and Sewer Authority
Proposed
FY 2023-2024 Budget

Debt Service & Capital Improvements

Debt service requirements for the Capital Improvement Plan (CIP) are included in the budget request. The FY 24-28 CIP totals \$326.1 M, a net increase of \$121 M as compared to the FY 23-27 CIP. A budget increase of \$75 M is included in the five-year CIP for inflation and scope revisions to existing projects, three projects totaling \$39 M were accelerated, six projects totaling \$7.7 M were added, and projects totaling \$7 M transitioned into FY 2028. More detailed information on the proposed FY 2024 – 2028 CIP can be found at <http://www.rivanna.org/financials-and-procurement/>.

The table below shows the changes in estimated project costs reflected in the CIP:

Project Cost	2023-2027 Adopted CIP	Projects Completed	New or Additional Project Costs	2024-2028 Draft CIP	Change \$	Change %
Urban Water Projects	\$ 122,465,000	\$ -	\$ 87,125,000	\$ 209,590,000	\$ 87,125,000	71%
Urban Wastewater Projects	44,370,000	(7,230,000)	21,080,000	58,220,000	13,850,000	24%
Shared Projects	5,190,000	(600,000)	394,000	4,984,000	(206,000)	-4%
Non-Urban Projects	33,095,000	(910,000)	21,146,000	53,331,000	20,236,000	38%
Total Project Cost Estimates	\$ 205,120,000	\$ (8,740,000)	\$ 129,745,000	\$ 326,125,000	\$ 121,005,000	37%

The Authority has programmed into the FY 2023-2024 budget charges that fund the additional debt service anticipated by the proposed CIP. Cumulatively, the Authority has built 33.2% of future debt service costs into the rates and charges for all rate centers in FY 2023-2024. This is done by using the CIP as a guide for future debt needs, and including an average charge increase over that five-year period. This proactive approach prevents large spikes in charges for any given year in which new debt is actually issued - effectively leveling the impact on charges.

For example, current Urban Water charges have 27% (\$2.9 M) of the needed future debt service revenues already built into the charges to cover the total funding needed for the next five years, which is \$10.78 M. This will require the remaining \$7.9 M to be included in the future debt service charge as an annual increase over the next four years to fund the Water projects within the CIP.

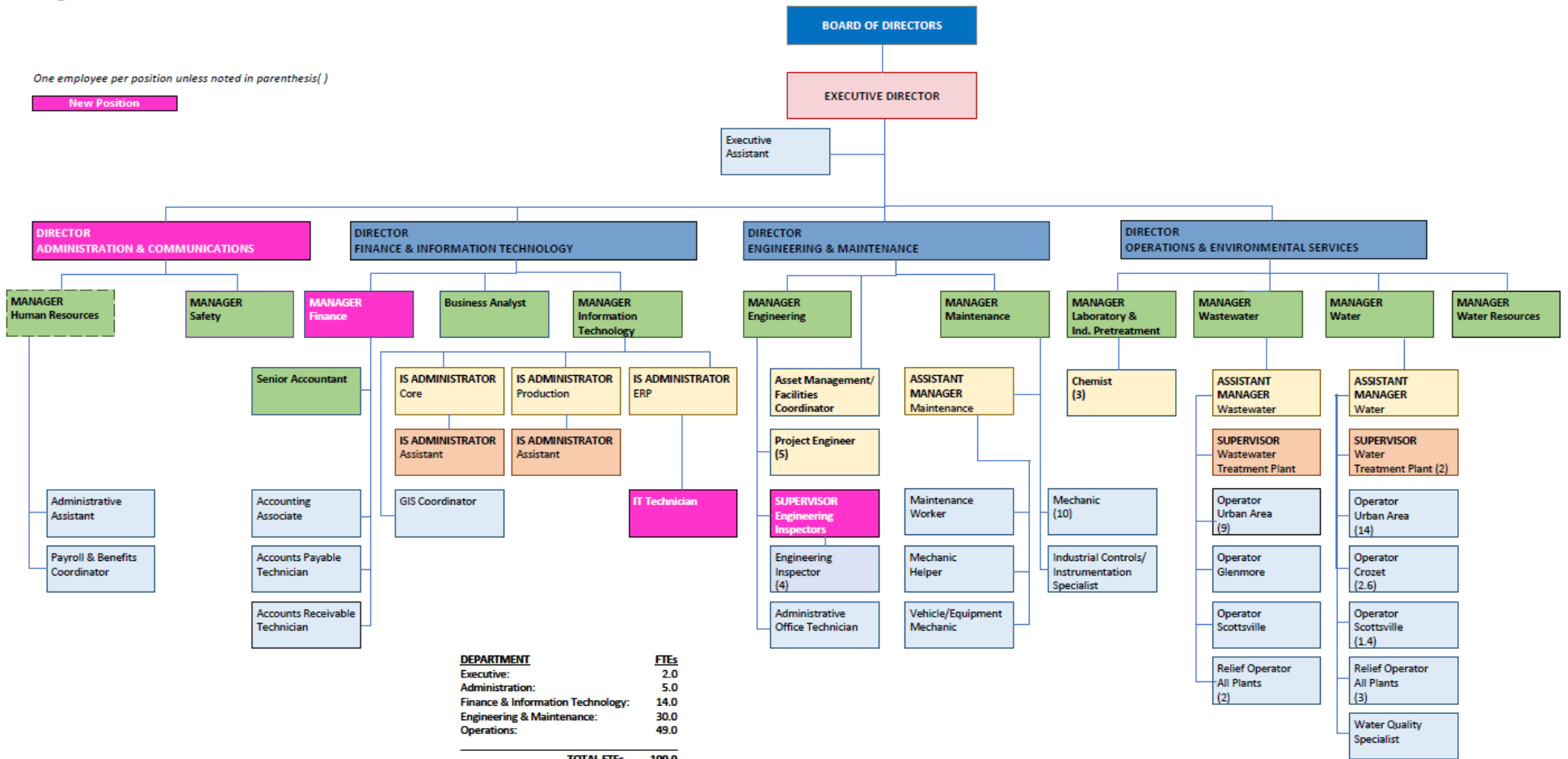
Next Five Years				
	Annual Estimated NEW Debt Service related to 5-year CIP <u>New Debt</u>	New Debt Service Cost built into <u>FY 2024 Rates</u>	Percentage of Debt Service in <u>FY 2023 Rates</u>	
Urban Water	\$ 10,782,300	\$ 2,908,100	27.0%	
Urban Wastewater	3,574,200	1,398,597	39.1%	
Non-Urban Rate Centers	2,244,500	1,209,300	53.9%	
	\$ 16,601,000	\$ 5,515,997	33.2%	

Rivanna Water and Sewer Authority

Proposed FY 2023-2024 Budget

RIVANNA WATER & SEWER AUTHORITY Organizational Chart

FY 2023 – 2024 Proposed Budget



Budget Details

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Departmental Summary of Revenues and Expenses

Summary of Revenues

	FY 2023	FY 2024	\$ Change	% Change
Operations Revenues				
Urban Water	\$ 9,228,000	\$ 10,230,000	1,002,000	10.86%
Crozet Water	1,222,000	1,269,000	47,000	3.85%
Scottsville Water	570,000	659,000	89,000	15.61%
Urban Wastewater	9,676,000	10,559,000	883,000	9.13%
Glenmore Wastewater	444,000	524,000	80,000	18.02%
Scottsville Wastewater	356,000	385,000	29,000	8.15%
Administration	656,000	781,000	125,000	19.05%
Maintenance	-	-	-	-
Lab	-	-	-	-
Engineering	-	-	-	-
Total	\$ 22,152,000	\$ 24,407,000	\$ 2,255,000	10.18%
Debt Service Revenues				
Urban Water	\$ 8,335,000	\$ 10,696,000	2,361,000	28.33%
Crozet Water	2,163,000	2,434,000	271,000	12.53%
Scottsville Water	151,000	171,000	20,000	13.25%
Urban Wastewater	9,019,000	9,946,000	927,000	10.28%
Glenmore Wastewater	21,000	23,000	2,000	9.52%
Scottsville Wastewater	10,000	21,000	11,000	110.00%
Total	\$ 19,699,000	\$ 23,291,000	\$ 3,592,000	18.23%
Total Revenues	\$ 41,851,000	\$ 47,698,000	\$ 5,847,000	13.97%

Summary of Expenses

	FY 2023	FY 2024	\$ Change	% Change
Operations Expenses				
Urban Water	\$ 6,212,000	\$ 6,795,000	583,000	9.39%
Crozet Water	940,000	948,000	8,000	0.85%
Scottsville Water	395,000	464,000	69,000	17.47%
Urban Wastewater	6,103,000	6,524,000	421,000	6.90%
Glenmore Wastewater	310,000	377,000	67,000	21.61%
Scottsville Wastewater	231,000	249,000	18,000	7.79%
Administration	3,315,000	4,131,000	816,000	24.62%
Maintenance	1,888,000	1,963,000	75,000	3.97%
Lab	554,000	591,000	37,000	6.68%
Engineering	2,203,000	2,365,000	162,000	7.35%
Total	\$ 22,152,000	\$ 24,408,000	\$ 2,256,000	10.18%
Debt Service Expenses				
Urban Water	\$ 8,335,000	\$ 10,696,000	2,361,000	28.33%
Crozet Water	2,163,000	2,434,000	271,000	12.53%
Scottsville Water	151,000	171,000	20,000	13.25%
Urban Wastewater	9,019,000	9,946,000	927,000	10.28%
Glenmore Wastewater	21,000	23,000	2,000	9.52%
Scottsville Wastewater	10,000	21,000	11,000	110.00%
Total	\$ 19,699,000	\$ 23,291,000	\$ 3,592,000	18.23%
Total Expenses	\$ 41,851,000	\$ 47,699,000	\$ 5,848,000	13.97%

Total Budgetary Surplus/ (Deficit)	\$	-	\$	(1,000)	\$	(1,000)
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These figures are rounded from the detail pages of this budget model and some immaterial differences will be present.

Summary of Itemized Rates

URBAN RATE CENTERS			FY 2023	FY 2024	\$ Change	% Change
<u>Operating Rates</u> (\$ per 1,000 Gallons)						
	Operations	Water	\$ 2.653	\$ 2.949	\$ 0.296	11.16%
	Operations	Wastewater	2.664	2.922	0.258	9.68%
<u>Debt Service Charges</u> (\$ Monthly Charge)						
<u>Water</u>						
	Debt Service	CITY	\$ 249,497	\$ 307,200	\$ 57,703	23.13%
	Debt Service	ACSA	442,355	542,282	99,927	22.59%
<u>Wastewater</u>						
	Debt Service	CITY *	\$ 384,637	\$ 394,890	\$ 10,253	2.67%
	Debt Service	ACSA *	355,205	383,403	28,198	7.94%
OTHER RATE CENTERS (Monthly)			FY 2023	FY 2024	\$ Change	% Change
<u>Crozet Water</u>						
	Operations		\$ 99,757	\$ 102,896	\$ 3,139	3.15%
	Debt Service		180,142	198,810	18,668	10.36%
<u>Scottsville Water</u>						
	Operations		\$ 47,463	\$ 54,705	\$ 7,242	15.26%
	Debt Service		12,525	13,228	703	5.61%
	Water Total		\$ 339,887	\$ 369,639	\$ 29,752	8.75%
<u>Glenmore Wastewater</u>						
	Operations		\$ 36,970	\$ 43,493	\$ 6,523	17.64%
	Debt Service		1,707	1,890	183	10.72%
<u>Scottsville Wastewater</u>						
	Operations		\$ 29,635	\$ 32,016	\$ 2,381	8.03%
	Debt Service		843	1,553	710	84.22%
	Wastewater Total		\$ 69,155	\$ 78,952	\$ 9,797	14.17%
Total Monthly Other Rate Center Charges - ACSA			\$ 409,042	\$ 448,591	\$ 39,549	9.67%

Summary of Charges to Customers

* - FY 2023 Budget reflects mid-year rate change

	<u>FY 2023</u>	<u>FY 2024</u>	<u>Change</u> <u>\$</u>	<u>Change</u> <u>%</u>
<u>City - Charges From RWSA</u>				
Urban Water				
Operating Rate Charges	\$ 4,417,300	\$ 4,810,300	\$ 393,000	8.9%
Debt Service Charges	* 2,994,000	3,686,400	692,400	23.1%
	<u>\$ 7,411,300</u>	<u>\$ 8,496,700</u>	<u>\$ 1,085,400</u>	<u>14.6%</u>
Urban Wastewater				
Operating Rate Charges	\$ 4,245,800	\$ 4,557,800	\$ 312,000	7.3%
Debt Service Charges	4,615,700	4,738,800	123,100	2.7%
	<u>\$ 8,861,500</u>	<u>\$ 9,296,600</u>	<u>\$ 435,100</u>	<u>4.9%</u>
Total City Charges	<u>\$ 16,272,800</u>	<u>\$ 17,793,300</u>	<u>\$ 1,520,500</u>	<u>9.3%</u>

<u>ACSA - Charges From RWSA</u>				
Urban Water				
Operating Rate Charges	\$ 4,597,600	\$ 5,211,100	\$ 613,500	13.3%
Debt Service Charges	* 5,308,300	6,507,400	1,199,100	22.6%
	<u>\$ 9,905,900</u>	<u>\$ 11,718,500</u>	<u>\$ 1,812,600</u>	<u>18.3%</u>
Urban Wastewater				
Operating Rate Charges	\$ 4,787,800	\$ 5,350,500	\$ 562,700	11.8%
Debt Service Charges	4,262,500	4,600,800	338,300	7.9%
	<u>\$ 9,050,300</u>	<u>\$ 9,951,300</u>	<u>\$ 901,000</u>	<u>10.0%</u>
Other Rate Centers				
Operating Rate Charges	\$ 2,565,900	\$ 2,797,300	\$ 231,400	9.0%
Debt Service Charges	2,342,600	2,585,800	243,200	10.4%
	<u>\$ 4,908,500</u>	<u>\$ 5,383,100</u>	<u>\$ 474,600</u>	<u>9.7%</u>
Total ACSA Charges	<u>\$ 23,864,700</u>	<u>\$ 27,052,900</u>	<u>\$ 3,188,200</u>	<u>13.4%</u>

<u>RWSA Customer Revenue Charges</u>				
Operating Rate Revenues				
Urban Water	\$ 9,014,900	\$ 10,021,400	\$ 1,006,500	11.2%
Urban Wastewater	9,033,600	9,908,300	874,700	9.7%
Other Rate Centers	2,565,900	2,797,300	231,400	9.0%
	<u>\$ 20,614,400</u>	<u>\$ 22,727,000</u>	<u>\$ 2,112,600</u>	<u>10.2%</u>
Debt Service Rate Revenues				
Urban Water	\$ 8,302,300	\$ 10,193,800	\$ 1,891,500	22.8%
Urban Wastewater	8,878,200	9,339,600	461,400	5.2%
Other Rate Centers	2,342,600	2,585,800	243,200	10.4%
	<u>\$ 19,523,100</u>	<u>\$ 22,119,200</u>	<u>\$ 2,596,100</u>	<u>13.3%</u>
Total RWSA Customer Revenues	<u>\$ 40,137,500</u>	<u>\$ 44,846,200</u>	<u>\$ 4,708,700</u>	<u>11.7%</u>

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Water Rate Centers

Rivanna Water and Sewer Authority

Fiscal Year 2023-2024

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Urban Water Summary

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	
Projected Flow (MGD)	9.309		9.309	0.00%

Operations Budget

Projected Revenues

Operations Rate	\$	2.653			\$	2.949	11.16%
Revenue	\$	9,014,863	\$ 4,620,438	\$ 9,240,876	\$	10,021,362	11.16%
Lease Revenues		60,000	42,383	84,766		94,000	56.67%
Use of Reserves (Water Resources Fund)		150,000	102,400	-		80,000	-46.67%
Miscellaneous		-	6,405	6,405		-	
Interest Allocation		3,000	18,825	37,650		34,200	1040.00%
Total Operations Revenues	\$	9,227,863	\$ 4,790,451	\$ 9,369,697	\$	10,229,562	10.86%

Projected Expenses

Personnel Cost	\$	2,234,714	\$ 1,109,215	\$ 2,208,215	\$	2,384,332	6.70%
Professional Services		222,000	100,477	200,954		178,500	-19.59%
Other Services and Charges		716,300	426,425	840,727		769,233	7.39%
Communications		100,920	51,881	103,762		103,200	2.26%
Information Technology		104,950	67,815	135,630		127,650	21.63%
Supplies		5,400	4,133	8,266		7,000	29.63%
Operations and Maintenance		2,511,396	1,333,918	3,109,434		2,905,068	15.68%
Equipment Purchases		16,000	9,618	19,236		20,100	25.63%
Depreciation & Reserves		300,000	150,000	300,000		300,000	0.00%
Subtotal Before Allocations	\$	6,211,680	\$ 3,253,482	\$ 6,926,224	\$	6,795,083	9.39%
Allocation of Support Departments		3,016,183	1,579,021	3,127,141		3,434,479	13.87%
Total Operations Expenses	\$	9,227,863	\$ 4,832,503	\$ 10,053,365	\$	10,229,562	10.86%

Operations Cost per 1,000 gallons	\$2.716	\$3.011	10.86%
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Debt Service Budget

Projected Revenue

Debt Service Rates	CITY	\$	249,497			\$	307,200	23.13%
	ACSA	\$	442,355			\$	542,282	22.59%
Debt Service Rate Revenue - CITY		\$	2,993,964	\$ 1,496,982	\$ 2,993,964	\$	3,686,400	23.13%
Debt Service Rate Revenue - ACSA			5,308,260	2,654,130	5,308,260		6,507,379	22.59%
Trust Fund Interest			400	23,953	47,906		77,500	19275.00%
Reserve Fund Interest			31,000	161,062	322,124		423,100	1264.84%
Lease Revenue			1,600	1,480	2,960		1,600	0.00%
Total Debt Service Revenue		\$	8,335,224	\$ 4,337,607	\$ 8,675,214	\$	10,695,979	28.32%

Principal, Interest & Reserves

Total Principal & Interest	\$	6,964,724	\$ 3,482,362	\$ 6,964,724	\$	6,964,779	0.00%
Reserve Additions - Interest		31,000	161,062	322,124		423,100	1264.84%
Debt Service Ratio Charge		400,000	200,000	400,000		400,000	0.00%
Est. New Debt Service - CIP Growth		939,500	469,750	939,500		2,908,100	209.54%
Total Debt Principal and Interest	\$	8,335,224	\$ 4,313,174	\$ 8,626,348	\$	10,695,979	28.32%

Rate Center Summary

Total Revenues	\$	17,563,087	\$ 9,128,058	\$ 18,044,911	\$	20,925,541	19.15%
Total Expenses		17,563,087	9,145,677	18,679,713		20,925,541	19.15%
Surplus/(Deficit)	\$	-	\$ (17,619)	\$ (634,802)	\$	-	

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Urban Water

		Current Year Activity				2023	2023
		Adopted Budget	Six Month Actual	Projected Year end	Proposed Budget	vs. 2024 Variance	vs. 2024 Variance
Object Code	Line Item	FY 2022-2023	12/31/2022	6/30/2023	FY 2023-2024	\$	%
10000	Salaries & Benefits						
11000	Salaries	\$ 1,414,600	\$ 738,518	\$ 1,477,036	\$ 1,580,700	\$ 166,100	11.74%
11010	Overtime & Holiday Pay	169,650	76,277	152,554	135,000	(34,650)	-20.42%
12010	FICA	121,195	60,749	121,498	131,251	10,056	8.30%
12020	Health Insurance	321,000	120,907	241,814	315,400	(5,600)	-1.74%
12026	Employee Assistance Program	350	180	360	350	-	0.00%
12030	Retirement	118,685	60,154	120,308	132,621	13,936	11.74%
12040	Life Insurance	16,834	9,224	18,448	18,810	1,976	11.74%
12050	Fitness Program	3,000	1,412	2,824	2,000	(1,000)	-33.33%
12060	Worker's Comp Insurance	27,300	19,532	26,043	27,300	-	0.00%
	Subtotal	\$ 2,192,614	\$ 1,086,953	\$ 2,160,885	\$ 2,343,432	\$ 150,818	6.88%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 4,000	\$ 597	\$ 4,000	\$ 4,000	\$ -	0.00%
13150	Education & Training	10,100	9,525	19,050	10,100	-	0.00%
13200	Travel & Lodging	2,500	473	946	1,800	(700)	-28.00%
13250	Uniforms	23,000	10,769	21,538	23,000	-	0.00%
13325	Recruiting & Medical Testing	1,500	489	978	1,000	(500)	-33.33%
13350	Other	1,000	409	818	1,000	-	0.00%
	Subtotal	\$ 42,100	\$ 22,262	\$ 47,330	\$ 40,900	\$ (1,200)	-2.85%
20100	Professional Services						
20200	Legal Fees	\$ 10,000	\$ 11,436	\$ 22,872	\$ 1,500	\$ (8,500)	-85.00%
20200	Financial & Admin. Services	-	300	600	5,000	5,000	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	212,000	88,741	177,482	172,000	(40,000)	-18.87%
	Subtotal	\$ 222,000	\$ 100,477	\$ 200,954	\$ 178,500	\$ (43,500)	-19.59%
21100	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 34,400	\$ 30,184	\$ 40,245	\$ 44,900	\$ 10,500	30.52%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	50,000	38,134	76,268	71,000	21,000	42.00%
21253	Safety Programs/Supplies	28,200	16,265	32,530	28,200	-	0.00%
21300	Authority Dues/Permits/Fees	7,000	-	8,000	8,000	1,000	14.29%
21350	Laboratory Analysis	36,700	23,395	46,790	40,133	3,433	9.35%
21400	Utilities	520,000	295,271	590,542	525,000	5,000	0.96%
21420	General Other Services	40,000	23,176	46,352	52,000	12,000	30.00%
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 716,300	\$ 426,425	\$ 840,727	\$ 769,233	\$ 52,933	7.39%
22000	Communication						
22100	Radio	\$ 4,000	\$ 11,381	\$ 22,762	\$ 3,200	\$ (800)	-20.00%
22150	Telephone & Data Service	86,000	36,383	72,766	90,000	4,000	4.65%
22200	Cell Phones, Wireless data	10,920	4,117	8,234	10,000	(920)	-8.42%
	Subtotal	\$ 100,920	\$ 51,881	\$ 103,762	\$ 103,200	\$ 2,280	2.26%
31000	Information Technology						
31100	Computer Hardware	\$ 10,000	\$ 18,039	\$ 36,078	\$ 10,000	\$ -	0.00%
31150	SCADA Maint. & Support	79,150	45,278	90,556	101,150	22,000	27.80%
31200	Maintenance & Support Services	3,150	3,472	6,944	500	(2,650)	-84.13%
31250	Software & Subscriptions	-	1,026	2,052	-	-	
31300	Security Systems	8,650	-	8,000	16,000	7,350	
31325	Asset Mgt / Project Mgt Systems	4,000	-	-	-	(4,000)	
	Subtotal	\$ 104,950	\$ 67,815	\$ 135,630	\$ 127,650	\$ 22,700	21.63%
33000	Supplies						
33100	Office Supplies	\$ 3,000	\$ 1,362	\$ 2,724	\$ 2,000	\$ (1,000)	-33.33%
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	2,400	2,771	5,542	5,000	2,600	108.33%
	Subtotal	\$ 5,400	\$ 4,133	\$ 8,266	\$ 7,000	\$ 1,600	29.63%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 224,400	\$ 51,701	\$ 200,000	\$ 241,500	\$ 17,100	7.62%
41150	Building/land Lease, Rental	175,000	175,000	175,000	175,000	-	0.00%
41300	Dam Maintenance	123,700	60,833	121,666	95,200	(28,500)	-23.04%
41350	Pipeline/Appurtenances	75,000	24,932	49,864	62,500	(12,500)	-16.67%
41400	Materials, Supplies & Tools	40,000	44,242	88,484	40,000	-	0.00%
41450	Chemicals	1,343,671	760,070	1,960,140	1,720,088	376,417	28.01%
41500	Vehicle Maintenance	10,000	2,601	5,202	10,000	-	0.00%
41550	Equipment Repair, Replace, Maint.	233,000	139,066	278,132	261,000	28,000	12.02%
41600	Instrumentation & Metering	171,625	33,690	147,380	189,775	18,150	10.58%
41650	Fuel & Lubricants	25,000	19,136	38,272	29,000	4,000	16.00%
41700	General Other Maintenance	90,000	22,647	45,294	81,005	(8,995)	-9.99%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Urban Water

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
	<i>Subtotal</i>	\$ 2,511,396	\$ 1,333,918	\$ 3,109,434	\$ 2,905,068	\$ 393,672	15.68%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ 1,618	\$ 3,236		\$ -	0.00%
81250	Equipment (over \$10,000)	-	-	-		-	0.00%
81300	Vehicle Replacement Fund	16,000	8,000	16,000	20,100	4,100	25.63%
	<i>Subtotal</i>	\$ 16,000	\$ 9,618	\$ 19,236	\$ 20,100	\$ 4,100	25.63%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ 1,170,531	\$ 694,909	\$ 1,368,444	\$ 1,473,920	\$ 303,389	25.92%
95300	Engineering Allocation	1,035,528	496,076	991,236	1,111,646	76,118	7.35%
95150	Maintenance Allocation	566,450	266,156	525,347	588,769	22,319	3.94%
95200	Laboratory Allocation	243,674	121,880	242,114	260,144	16,470	6.76%
	<i>Subtotal</i>	\$ 3,016,183	\$ 1,579,021	\$ 3,127,141	\$ 3,434,479	\$ 418,296	13.87%
	Depreciation	\$ 300,000	\$ 150,000	\$ 300,000	\$ 300,000	\$ -	0.00%
	<i>Subtotal</i>	\$ 300,000	\$ 150,000	\$ 300,000	\$ 300,000	\$ -	0.00%
	Total	\$ 9,227,863	\$ 4,832,503	\$ 10,053,365	\$ 10,229,562	\$ 1,001,699	10.86%

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Crozet Water Summary

Projected Flow (MGD)

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	
0.555			0.555	0.00%

Operations Budget

Projected Revenues

Operations Rate (monthly)

Revenue	\$ 1,197,084	\$ 598,542	\$ 1,197,084	\$ 1,234,752	3.15%
Leases	25,000	15,881	31,762	30,000	20.00%
Interest Allocation	400	2,546	5,092	4,600	1050.00%
Total Operations Revenues	\$ 1,222,484	\$ 616,969	\$ 1,233,938	\$ 1,269,352	3.83%

Projected Expenses

Personnel Cost	\$ 352,559	\$ 176,260	\$ 350,561	\$ 341,691	-3.08%
Professional Services	22,900	2,698	5,396	22,900	0.00%
Other Services and Charges	118,700	66,539	131,733	133,426	12.41%
Communications	17,600	10,192	20,384	17,600	0.00%
Information Technology	4,950	6,281	12,562	32,400	554.55%
Supplies	1,500	702	1,404	1,500	0.00%
Operations and Maintenance	358,500	139,911	336,822	335,700	-6.36%
Equipment Purchases	3,000	1,500	3,000	3,200	6.67%
Depreciation	60,000	30,000	60,000	60,000	0.00%
Subtotal Before Allocations	\$ 939,709	\$ 434,083	\$ 921,862	\$ 948,417	0.93%
Allocations of Support Departments	282,780	147,525	292,064	320,940	13.49%
Total Operations Expenses	\$ 1,222,489	\$ 581,608	\$ 1,213,926	\$ 1,269,357	3.83%

Operations Cost per 1,000 gallons

\$6.035	\$6.266	3.83%
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Debt Service Budget

Projected Revenue

Debt Service Rates (monthly)

Debt Service Rate Revenue - ACSA	\$ 2,161,704	\$ 1,080,852	\$ 2,161,704	\$ 2,385,720	10.36%
Trust Fund Interest	80	5,563	11,126	13,500	16775.00%
Use of Reserves	-	-	-	-	
Reserve Fund Interest	1,200	6,310	12,620	34,500	2775.00%
Total Debt Service Revenue	\$ 2,162,984	\$ 1,092,725	\$ 2,185,450	\$ 2,433,720	12.52%

Principal, Interest & Reserves

Total Principal & Interest - Existing	\$ 1,217,280	\$ 608,640	\$ 1,217,280	\$ 1,216,725	-0.05%
Estimated New Principal & Interest	944,500	472,250	944,500	1,182,500	25.20%
Reserve Additions - Interest	1,200	6,310	12,620	34,500	2775.00%
Total Debt Principal and Interest	\$ 2,162,980	\$ 1,087,200	\$ 2,174,400	\$ 2,433,725	12.52%

Rate Center Summary

Total Revenues	\$ 3,385,468	\$ 1,709,694	\$ 3,419,388	\$ 3,703,072	9.38%
Total Expenses	3,385,469	1,668,808	3,388,326	3,703,082	9.38%
Surplus/(Deficit)	\$ (1)	\$ 40,886	\$ 31,062	\$ (10)	
Rates - (Monthly)					
ACSA	\$ 279,899			\$ 301,706	7.79%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Crozet Water

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023 vs. 2024 Variance \$	2023 vs. 2024 Variance %
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023			
10000	Salaries & Benefits						
11000	Salaries	\$ 224,300	\$ 117,216	\$ 234,432	\$ 221,000	\$ (3,300)	-1.47%
11010	Overtime & Holiday Pay	25,000	12,424	24,848	25,000	-	0.00%
12010	FICA	19,071	9,684	19,368	18,819	(252)	-1.32%
12020	Health Insurance	51,700	19,371	38,742	44,700	(7,000)	-13.54%
12026	Employee Assistance Program	50	29	58	50	-	0.00%
12030	Retirement	18,819	9,556	19,112	18,542	(277)	-1.47%
12040	Life Insurance	2,669	1,464	2,928	2,630	(39)	-1.46%
12050	Fitness Program	400	224	448	300	(100)	-25.00%
12060	Worker's Comp Insurance	4,300	2,938	3,917	4,300	-	0.00%
	Subtotal	\$ 346,309	\$ 172,906	\$ 343,853	\$ 335,341	\$ (10,968)	-3.17%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 250	\$ 87	\$ 174	\$ 250	\$ -	0.00%
13150	Education & Training	1,200	1,343	2,686	2,000	800	66.67%
13200	Travel & Lodging	400	27	54	200	(200)	-50.00%
13250	Uniforms	3,700	1,754	3,508	3,500	(200)	-5.41%
13325	Recruiting & Medical Testing	200	80	160	200	-	0.00%
13350	Other	500	63	126	200	(300)	-60.00%
	Subtotal	\$ 6,250	\$ 3,354	\$ 6,708	\$ 6,350	\$ 100	1.60%
	Professional Services						
20100	Legal Fees	\$ -	\$ -	\$ -	\$ -	\$ -	
20200	Financial & Admin. Services	-	-	-	-	-	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	22,900	2,698	5,396	22,900	-	0.00%
	Subtotal	\$ 22,900	\$ 2,698	\$ 5,396	\$ 22,900	\$ -	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 2,300	\$ 2,018	\$ 2,691	\$ 2,900	\$ 600	26.09%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	7,700	2,781	5,562	7,700	-	0.00%
21300	Authority Dues/Permits/Fees	1,700	-	-	1,200	(500)	-29.41%
21350	Laboratory Analysis	21,000	11,282	22,564	21,626	626	2.98%
21400	Utilities	86,000	50,458	100,916	100,000	14,000	16.28%
21420	General Other Services	-	-	-	-	-	
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 118,700	\$ 66,539	\$ 131,733	\$ 133,426	\$ 14,726	12.41%
22000	Communication						
22100	Radio	\$ 400	\$ 303	\$ 606	\$ 400	\$ -	0.00%
22150	Telephone & Data Service	16,000	9,382	18,764	16,000	-	0.00%
22200	Cell Phones, Wireless data	1,200	507	1,014	1,200	-	0.00%
	Subtotal	\$ 17,600	\$ 10,192	\$ 20,384	\$ 17,600	\$ -	0.00%
31000	Information Technology						
31100	Computer Hardware	\$ 1,250	\$ 3,334	\$ 6,668	\$ 5,000	\$ 3,750	300.00%
31150	SCADA Maint. & Support	1,500	2,860	5,720	24,000	22,500	1500.00%
31200	Maintenance & Support Services	-	-	-	-	-	
31250	Software & Subscriptions	-	87	174	-	-	
31300	Security Systems	2,200	-	-	3,400	1,200	
31325	Asset Mgt / Project Mgt Systems	-	-	-	-	-	
	Subtotal	\$ 4,950	\$ 6,281	\$ 12,562	\$ 32,400	\$ 27,450	554.55%
33000	Supplies						
33100	Office Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	1,500	702	1,404	1,500	-	0.00%
	Subtotal	\$ 1,500	\$ 702	\$ 1,404	\$ 1,500	\$ -	0.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 24,200	\$ 18,998	\$ 37,996	\$ 26,000	\$ 1,800	7.44%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	2,000	-	-	2,000	-	0.00%
41400	Materials, Supplies & Tools	5,000	6,446	12,892	5,000	-	0.00%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Crozet Water

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
41450	Chemicals	223,300	84,643	209,286	212,400	(10,900)	-4.88%
41500	Vehicle Maintenance	1,000	326	652	1,000	-	0.00%
41550	Equipment Repair, Replace, Maint.	40,000	15,893	31,786	40,000	-	0.00%
41600	Instrumentation & Metering	28,000	2,921	22,842	34,300	6,300	22.50%
41650	Fuel & Lubricants	5,000	2,004	4,008	5,000	-	0.00%
41700	General Other Maintenance	30,000	8,680	17,360	10,000	(20,000)	-66.67%
Subtotal		\$ 358,500	\$ 139,911	\$ 336,822	\$ 335,700	\$ (22,800)	-6.36%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	
81250	Equipment (over \$10,000)	-	-	-	-	-	
81300	Vehicle Replacement Fund	3,000	1,500	3,000	3,200	200	6.67%
Subtotal		\$ 3,000	\$ 1,500	\$ 3,000	\$ 3,200	\$ 200	6.67%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ 106,412	\$ 63,174	\$ 124,404	\$ 133,993	\$ 27,581	25.92%
95300	Engineering Allocation	88,130	42,219	84,360	94,608	6,478	7.35%
95150	Maintenance Allocation	66,086	31,052	61,290	68,690	2,604	3.94%
95200	Laboratory Allocation	22,152	11,080	22,010	23,649	1,497	6.76%
Subtotal		\$ 282,780	\$ 147,525	\$ 292,064	\$ 320,940	\$ 38,160	13.49%
Depreciation		\$ 60,000	\$ 30,000	\$ 60,000	\$ 60,000	\$ -	0.00%
Subtotal		\$ 60,000	\$ 30,000	\$ 60,000	\$ 60,000	\$ -	0.00%
Total		\$ 1,222,489	\$ 581,608	\$ 1,213,926	\$ 1,269,357	\$ 46,868	3.83%

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Scottsville Water Summary

Projected Flow (MGD)

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	
0.047			0.047	0.00%

Operations Budget

Projected Revenues

Operations Rate (monthly)

Revenue	\$ 569,556	\$ 284,778	\$ 569,556	\$ 656,460	15.26%
Interest Allocation	200	1,182	2,364	2,150	975.00%
Total Operations Revenues	\$ 569,756	\$ 285,960	\$ 571,920	\$ 658,610	15.60%

Projected Expenses

Personnel Cost	\$ 212,797	\$ 107,398	\$ 213,623	\$ 223,641	5.10%
Professional Services	5,000	6,932	13,864	5,000	0.00%
Other Services and Charges	27,100	17,314	34,101	31,800	17.34%
Communications	6,400	3,342	6,684	6,750	5.47%
Information Technology	4,400	3,856	7,712	19,700	347.73%
Supplies	100	138	276	100	0.00%
Operations and Maintenance	97,925	61,337	122,674	134,800	37.66%
Equipment Purchases	1,600	1,703	3,406	2,000	25.00%
Depreciation	40,000	20,000	40,000	40,000	0.00%
Subtotal Before Allocations	\$ 395,322	\$ 222,020	\$ 442,340	\$ 463,791	17.32%
Allocations of Support Departments	174,433	89,289	176,677	194,815	11.68%
Total Operations Expenses	\$ 569,755	\$ 311,309	\$ 619,017	\$ 658,606	15.59%

Operations Cost per 1,000 gallons	\$33.212	\$38.391	15.59%
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Debt Service Budget

Projected Revenue

Debt Service Rates - Monthly

Debt Service Rate Revenue - ACSA	\$ 150,300	\$ 75,150	\$ 150,300	\$ 158,736	5.61%
Trust Fund Interest	10	589	1,178	1,650	16400.00%
Reserve Fund Interest	850	4,317	8,634	10,300	1111.76%
Total Debt Service Revenue	\$ 151,160	\$ 80,056	\$ 160,112	\$ 170,686	12.92%

Principal, Interest & Reserves

Total Principal & Interest	\$ 148,726	\$ 74,363	\$ 148,726	\$ 148,991	0.18%
Estimated New Principal & Interest	1,589	795	1,590	11,400	617.43%
Reserve Additions-Interest	850	4,317	8,634	10,300	1111.76%
Total Debt Principal and Interest	\$ 151,165	\$ 79,475	\$ 158,950	\$ 170,691	12.92%

Rate Center Summary

Total Revenues	\$ 720,916	\$ 366,016	\$ 732,032	\$ 829,296	15.03%
Total Expenses	720,920	390,784	777,967	829,297	15.03%
Surplus/ (Deficit)	\$ (4)	\$ (24,768)	\$ (45,935)	\$ (1)	
Rates - Monthly					
ACSA	\$ 59,988			\$ 67,933	13.24%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Scottsville Water

Expense Detail						2023		2023	
Rate Center: Scottsville Water						vs.		vs.	
		Adopted Budget		Current Year Activity		Proposed Budget			
Object Code	Line Item	FY 2022-2023		Six Month Actual 12/31/2022	Projected Year end 6/30/2023	FY 2023-2024	2024 Variance \$	2024 Variance %	
Salaries & Benefits									
10000									
11000	Salaries	\$ 137,800	\$	71,406	\$ 142,812	\$ 146,200	\$ 8,400	6.10%	
11010	Overtime & Holiday Pay	13,000		7,608	15,216	14,000	1,000	7.69%	
12010	FICA	11,536		5,904	11,808	12,255	719	6.23%	
12020	Health Insurance	31,800		11,823	23,646	30,000	(1,800)	-5.66%	
12026	Employee Assistance Program	30		18	36	30	-	0.00%	
12030	Retirement	11,561		5,823	11,646	12,266	705	6.10%	
12040	Life Insurance	1,640		892	1,784	1,740	100	6.10%	
12050	Fitness Program	200		136	272	200	-	0.00%	
12060	Worker's Comp Insurance	2,600		1,759	2,345	2,600	-	0.00%	
Subtotal		\$ 210,167	\$	105,369	\$ 209,565	\$ 219,291	\$ 9,124	4.34%	
Other Personnel Costs									
13000									
13100	Employee Dues & Licenses	\$ 180	\$	53	\$ 106	\$ 400	\$ 220	122.22%	
13150	Education & Training	400		801	1,602	2,000	1,600	400.00%	
13200	Travel & Lodging	200		14	28	100	(100)	-50.00%	
13250	Uniforms	1,400		1,074	2,148	1,600	200	14.29%	
13325	Recruiting & Medical Testing	150		49	98	150	-	0.00%	
13350	Other	300		38	76	100	(200)	-66.67%	
Subtotal		\$ 2,630	\$	2,029	\$ 4,058	\$ 4,350	\$ 1,720	65.40%	
Professional Services									
20100	Legal Fees		\$	-	\$ -	\$ -	\$ -		
20200	Financial & Admin. Services			-	-	-	-		
20250	Bond Issue Costs			-	-	-	-		
20300	Engineering & Technical Services	5,000		6,932	13,864	5,000	-	0.00%	
Subtotal		\$ 5,000	\$	6,932	\$ 13,864	\$ 5,000	\$ -		
Other Services and Charges									
21100	General Liability/Property Ins.	\$ 900	\$	790	\$ 1,053	\$ 1,100	\$ 200	22.22%	
21150	Advertising & Communication			-	-	-	-		
21250	Watershed Management			-	-	-	-		
21253	Safety Programs/Supplies	4,200		1,764	3,528	4,200	-	0.00%	
21300	Authority Dues/Permits/Fees	500		-	-	1,200	700	140.00%	
21350	Laboratory Analysis	5,500		4,992	9,984	6,300	800	14.55%	
21400	Utilities	16,000		9,768	19,536	19,000	3,000	18.75%	
21420	General Other Services	-		-	-	-	-	#DIV/0!	
21430	Governance & Strategic Support			-	-	-	-		
21450	Bad Debt			-	-	-	-		
Subtotal		\$ 27,100	\$	17,314	\$ 34,101	\$ 31,800	\$ 4,700	17.34%	
Communication									
22000									
22100	Radio	\$ 400	\$	103	\$ 206	\$ 250	\$ (150)	-37.50%	
22150	Telephone & Data Service	5,000		2,867	5,734	5,500	500	10.00%	
22200	Cell Phones, Wireless data	1,000		372	744	1,000	-	0.00%	
Subtotal		\$ 6,400	\$	3,342	\$ 6,684	\$ 6,750	\$ 350	5.47%	
Information Technology									
31000									
31100	Computer Hardware	\$ 1,250	\$	-	\$ -	\$ 5,000	\$ 3,750	300.00%	
31150	SCADA Maint. & Support	1,300		3,812	7,624	13,500	12,200	938.46%	
31200	Maintenance & Support Services			-	-	-	-		
31250	Software & Subscriptions			44	88	-	-	0.00%	
31300	Security Systems	1,850		-	-	1,200	(650)		
31325	Asset Mgt / Project Mgt Systems	-		-	-	-	-		
Subtotal		\$ 4,400	\$	3,856	\$ 7,712	\$ 19,700	\$ 15,300	347.73%	
Supplies									
33000									
33100	Office Supplies		\$	-	\$ -	\$ -	\$ -		
33150	Subscriptions/Reference Material			-	-	-	-		
33350	Postage & Delivery	100		138	276	100	-	0.00%	
Subtotal		\$ 100	\$	138	\$ 276	\$ 100	\$ -	0.00%	
Operation & Maintenance									
41000									
41100	Building & Grounds	\$ 16,800	\$	8,085	\$ 16,170	\$ 20,800	\$ 4,000	23.81%	
41150	Building/land Lease, Rental	-		-	-	-	-		
41300	Dam Maintenance	1,500		-	-	-	(1,500)	-100.00%	
41350	Pipeline/Appurtenances	-		-	-	-	-		
41400	Materials, Supplies & Tools	2,500		4,675	9,350	2,500	-	0.00%	
41450	Chemicals	31,025		27,755	55,510	49,600	18,575	59.87%	
41500	Vehicle Maintenance	800		374	748	800	-	0.00%	

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Scottsville Water

Expense Detail						2023	2023
Rate Center: Scottsville Water			Current Year Activity			vs.	vs.
Object Code	Line Item	Adopted Budget FY 2022-2023	Six Month Actual 12/31/2022	Projected Year end 6/30/2023	Proposed Budget FY 2023-2024	2024 Variance \$	2024 Variance %
41550	Equipment Repair, Replace, Maint.	25,800	13,388	26,776	25,000	(800)	-3.10%
41600	Instrumentation & Metering	10,000	2,750	5,500	26,200	16,200	162.00%
41650	Fuel & Lubricants	1,000	1,110	2,220	2,400	1,400	140.00%
41700	General Other Maintenance	8,500	3,200	6,400	7,500	(1,000)	-11.76%
Subtotal		\$ 97,925	\$ 61,337	\$ 122,674	\$ 134,800	\$ 36,875	37.66%
81000	Equipment Purchases						
81200	Rental & Leases		\$ 903	\$ 1,806	\$ -	-	
81250	Equipment (over \$10,000)		-	-	-	-	
81300	Vehicle Replacement Fund	1,600	800	1,600	2,000	400	25.00%
Subtotal		\$ 1,600	\$ 1,703	\$ 3,406	\$ 2,000	\$ 400	25.00%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ 53,206	\$ 31,587	\$ 62,202	\$ 66,996	\$ 13,790	25.92%
95300	Engineering Allocation	44,065	21,110	42,180	47,304	3,239	7.35%
95150	Maintenance Allocation	66,086	31,052	61,290	68,690	2,604	3.94%
95200	Laboratory Allocation	11,076	5,540	11,005	11,825	749	6.76%
Subtotal		\$ 174,433	\$ 89,289	\$ 176,677	\$ 194,815	\$ 20,382	11.68%
Depreciation		\$ 40,000	\$ 20,000	\$ 40,000	\$ 40,000	\$ -	0.00%
Subtotal		\$ 40,000	\$ 20,000	\$ 40,000	\$ 40,000	\$ -	0.00%
Total		\$ 569,755	\$ 311,309	\$ 619,017	\$ 658,606	\$ 88,851	15.59%

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Wastewater Rate Centers

Rivanna Water and Sewer Authority

Fiscal Year 2023-2024

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Urban Wastewater Summary

Projected Flow (MGD)

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	
9.289			9.289	0.00%

Operations Budget

Projected Revenues

Operations Rate	\$ 2.664			\$ 2.922	9.68%
Revenue	\$ 9,033,662	\$ 4,891,711	\$ 9,783,422	\$ 9,908,321	9.68%
Stone Robinson WWTP	39,036	9,904	19,808	17,267	-55.77%
Septage Acceptance	500,000	297,250	594,500	550,000	10.00%
Nutrient Credits	100,000	39,129	78,258	80,000	-20.00%
Interest Allocation	3,300	21,189	42,378	3,300	0.00%
Total Operations Revenues	\$ 9,675,998	\$ 5,259,183	\$ 10,518,366	\$ 10,558,888	9.12%

Projected Expenses

Personnel Cost	\$ 1,325,384	\$ 734,936	\$ 1,463,944	\$ 1,458,300	10.03%
Professional Services	75,000	84,671	169,342	40,000	-46.67%
Other Services and Charges	2,276,980	1,261,806	2,394,489	2,271,556	-0.24%
Communications	1,900	5,535	11,070	11,600	510.53%
Information Technology	110,400	72,205	144,410	110,600	0.18%
Supplies	1,200	284	568	1,200	0.00%
Operations and Maintenance	1,698,660	1,061,852	2,261,834	2,086,800	22.85%
Equipment Purchases	143,000	25,000	50,000	73,500	-48.60%
Depreciation & Reserves	470,000	235,000	470,000	470,000	0.00%
Subtotal before allocations	\$ 6,102,524	\$ 3,481,289	\$ 6,965,657	\$ 6,523,556	6.90%
Allocations of Support Departments	3,573,474	1,853,943	3,668,839	4,035,332	12.92%
Total Operations Expenses	\$ 9,675,998	\$ 5,335,232	\$ 10,634,496	\$ 10,558,888	9.12%

Operations Cost per 1,000 gallons \$2.854 \$3.114 9.11%

Debt Service Budget

Projected Revenue

Debt Service Rate	CITY \$ 384,637			\$ 394,890	2.67%
	ACSA \$ 355,205			\$ 383,403	7.94%
Debt Service Rate Revenue - CITY	\$ 4,615,642	\$ 2,307,822	\$ 4,615,644	\$ 4,738,675	2.67%
Debt Service Rate Revenue - ACSA	4,262,465	2,131,230	4,262,460	4,600,834	7.94%
County MOU - Septage	109,440	109,440	218,880	109,440	0.00%
Trust Fund Interest	500	35,275	70,550	86,900	17280.00%
Reserve Fund Interest	31,000	159,401	318,802	410,200	1223.23%
Total Debt Service Revenue	\$ 9,019,047	\$ 4,743,168	\$ 9,486,336	\$ 9,946,049	10.28%

Principal, Interest & Reserves

Total Principal & Interest	\$ 7,808,347	\$ 3,904,174	\$ 7,808,348	\$ 7,812,249	0.05%
Reserve Additions - Interest	31,000	159,401	318,802	410,200	1223.23%
Debt Service Ratio Charge	325,000	162,500	325,000	325,000	0.00%
Est. New Debt Service - CIP Growth	854,700	427,350	854,700	1,398,600	63.64%
Total Debt Principal and Interest	\$ 9,019,047	\$ 4,653,425	\$ 9,306,850	\$ 9,946,049	10.28%

Rate Center Summary

Total Revenues	\$ 18,695,045	\$ 10,002,351	\$ 20,004,702	\$ 20,504,937	9.68%
Total Expenses	18,695,045	9,988,657	19,941,346	20,504,937	9.68%
Surplus/(Deficit)	\$ -	\$ 13,694	\$ 63,356	\$ -	

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Urban Wastewater

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023 vs. 2024 Variance \$	2023 vs. 2024 Variance %
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023			
10000	Salaries & Benefits						
11000	Salaries	\$ 877,400	\$ 491,517	\$ 983,034	\$ 986,900	\$ 109,500	12.48%
11010	Overtime & Holiday Pay	55,000	30,479	60,958	55,000	-	0.00%
12010	FICA	71,329	38,912	77,824	79,705	8,376	11.74%
12020	Health Insurance	204,800	102,543	205,086	204,800	-	0.00%
12026	Employee Assistance Program	200	124	248	250	50	25.00%
12030	Retirement	73,614	40,135	80,270	82,801	9,187	12.48%
12040	Life Insurance	10,441	6,216	12,432	11,744	1,303	12.48%
12050	Fitness Program	1,200	556	1,112	1,400	200	16.67%
12060	Worker's Comp Insurance	11,000	8,892	11,856	11,000	-	0.00%
	Subtotal	\$ 1,304,984	\$ 719,374	\$ 1,432,820	\$ 1,433,600	\$ 128,616	9.86%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 2,000	\$ 1,207	\$ 2,414	\$ 2,500	\$ 500	25.00%
13150	Education & Training	4,900	6,767	13,534	8,000	3,100	63.27%
13200	Travel & Lodging	500	755	1,510	1,200	700	140.00%
13250	Uniforms	11,000	5,518	11,036	11,000	-	0.00%
13325	Recruiting & Medical Testing	1,000	563	1,126	1,000	-	0.00%
13350	Other	1,000	752	1,504	1,000	-	0.00%
	Subtotal	\$ 20,400	\$ 15,562	\$ 31,124	\$ 24,700	\$ 4,300	21.08%
	Professional Services						
20100	Legal Fees	\$ 5,000	\$ 4,005	\$ 8,010	\$ 5,000	\$ -	
20200	Financial & Admin. Services	-	1,050	2,100	5,000	5,000	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	70,000	79,616	159,232	30,000	(40,000)	-57.14%
	Subtotal	\$ 75,000	\$ 84,671	\$ 169,342	\$ 40,000	\$ (35,000)	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 70,300	\$ 61,684	\$ 82,245	\$ 93,500	\$ 23,200	33.00%
21150	Advertising & Communication	-	1,750	3,500	-	-	
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	20,900	16,768	33,536	20,900	-	0.00%
21300	Authority Dues/Permits/Fees	46,000	25,845	51,690	36,000	(10,000)	-21.74%
21350	Laboratory Analysis	11,680	12,144	24,288	14,000	2,320	19.86%
21400	Utilities	940,000	518,053	948,106	940,000	-	0.00%
21420	General Other Services	1,188,100	625,562	1,251,124	1,167,156	(20,944)	-1.76%
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 2,276,980	\$ 1,261,806	\$ 2,394,489	\$ 2,271,556	\$ (5,424)	-0.24%
22000	Communication						
22100	Radio	\$ -	\$ 926	\$ 1,852	\$ 2,000	\$ 2,000	
22150	Telephone & Data Service	-	2,529	5,058	5,000	5,000	
22200	Cell Phones, Wireless data	1,900	2,080	4,160	4,600	2,700	142.11%
	Subtotal	\$ 1,900	\$ 5,535	\$ 11,070	\$ 11,600	\$ 9,700	510.53%
31000	Information Technology						
31100	Computer Hardware	\$ 10,000	\$ 308	\$ 616	\$ 15,000	\$ 5,000	50.00%
31150	SCADA Maint. & Support	90,800	70,937	141,874	92,000	1,200	1.32%
31200	Maintenance & Support Services	-	-	-	-	-	
31250	Software & Subscriptions	-	960	1,920	-	-	
31300	Security Systems	5,600	-	-	3,600	(2,000)	
31325	Asset Mgt / Project Mgt Systems	4,000	-	-	-	(4,000)	
	Subtotal	\$ 110,400	\$ 72,205	\$ 144,410	\$ 110,600	\$ 200	0.18%
33000	Supplies						
33100	Office Supplies	\$ 1,000	\$ 217	\$ 434	\$ 1,000	\$ -	0.00%
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	200	67	134	200	-	0.00%
	Subtotal	\$ 1,200	\$ 284	\$ 568	\$ 1,200	\$ -	0.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 76,160	\$ 54,050	\$ 88,100	\$ 55,800	\$ (20,360)	-26.73%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	125,000	28,123	76,246	62,500	(62,500)	-50.00%
41400	Materials, Supplies & Tools	57,000	36,211	72,422	57,000	-	0.00%
41450	Chemicals	727,200	598,842	1,197,684	1,031,100	303,900	41.79%
41500	Vehicle Maintenance	15,000	13,748	27,496	20,000	5,000	33.33%
41550	Equipment Repair, Replace, Maint.	508,900	335,483	670,966	658,900	150,000	29.48%
41600	Instrumentation & Metering	144,400	4,123	108,246	171,500	27,100	18.77%
41650	Fuel & Lubricants	40,000	935	40,000	40,000	-	0.00%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Urban Wastewater

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023 vs. 2024 Variance	
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		2023 vs. 2024 Variance \$	2023 vs. 2024 Variance %
41700	General Other Maintenance	5,000	(9,663)	(19,326)	(10,000)	(15,000)	300.00%
	<i>Subtotal</i>	\$ 1,698,660	\$ 1,061,852	\$ 2,261,834	\$ 2,086,800	\$ 388,140	22.85%
81000	Equipment Purchases						
81200	Rental & Leases	\$ 26,000	\$ -	\$ -	\$ -	\$ (26,000)	-100.00%
81250	Equipment (over \$10,000)	67,000	-	-	-	(67,000)	
81300	Vehicle Replacement Fund	50,000	25,000	50,000	73,500	23,500	47.00%
	<i>Subtotal</i>	\$ 143,000	\$ 25,000	\$ 50,000	\$ 73,500	\$ (69,500)	-48.60%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ 1,276,943	\$ 758,082	\$ 1,492,848	\$ 1,607,913	\$ 330,970	25.92%
95300	Engineering Allocation	969,430	464,411	927,965	1,040,690	71,260	7.35%
95150	Maintenance Allocation	1,066,813	501,260	989,404	1,108,848	42,035	3.94%
95200	Laboratory Allocation	260,288	130,190	258,622	277,881	17,593	6.76%
	<i>Subtotal</i>	\$ 3,573,474	\$ 1,853,943	\$ 3,668,839	\$ 4,035,332	\$ 461,858	12.92%
	Depreciation	\$ 470,000	\$ 235,000	\$ 470,000	\$ 470,000	\$ -	0.00%
	<i>Subtotal</i>	\$ 470,000	\$ 235,000	\$ 470,000	\$ 470,000	\$ -	0.00%
	Total	\$ 9,675,998	\$ 5,335,232	\$ 10,634,496	\$ 10,558,888	\$ 882,890	9.12%

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Glenmore Wastewater Summary

Projected Flow (MGD)

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	
0.113			0.113	

Operations Budget

Projected Revenues

Operations Rate (monthly)

Revenue	\$ 443,640	\$ 221,820	\$ 443,640	\$ 521,916	17.64%
Interest Allocation	150	955	1,910	1,700	1033.33%
Total Operations Revenues	\$ 443,790	\$ 222,775	\$ 445,550	\$ 523,616	17.99%

Projected Expenses

Personnel Cost	\$ 115,815	\$ 64,402	\$ 128,419	\$ 127,879	10.42%
Professional Services	5,000	7,772	15,544	25,000	
Other Services and Charges	35,750	18,894	37,583	35,400	-0.98%
Communications	-	1,662	3,324	3,450	#DIV/0!
Information Technology	4,425	6,904	13,808	13,000	193.79%
Supplies	-	-	-	-	
Operations and Maintenance	134,950	46,930	123,860	143,550	6.37%
Equipment Purchases	3,800	1,900	3,800	3,800	0.00%
Depreciation	10,000	5,000	10,000	25,000	150.00%
Subtotal before allocations	\$ 309,740	\$ 153,464	\$ 336,338	\$ 377,079	21.74%
Allocations of Support Departments	134,045	66,832	132,280	146,535	9.32%
Total Operations Expenses	\$ 443,785	\$ 220,296	\$ 468,618	\$ 523,614	17.99%

Operations Cost per 1,000 gallons

\$10.760

\$12.695

Debt Service Budget

Projected Revenue

Debt Service Rate (monthly)

Debt Service Rate Revenue - ACSA	\$ 20,484	\$ 10,242	\$ 20,484	\$ 22,680	10.72%
Trust Fund Interest	-	-	-	200	
Reserve Fund Interest	80	332	664	-	-100.00%
Total Debt Service Revenue	\$ 20,564	\$ 10,574	\$ 21,148	\$ 22,880	11.26%

Principal, Interest & Reserves

Total Principal & Interest	\$ 18,717	\$ 9,359	\$ 18,718	\$ 18,729	0.06%
Estimated New Principal & Interest	1,761	881	1,762	4,150	135.66%
Reserve Additions - Interest	80	332	664	-	-100.00%
Total Debt Principal and Interest	\$ 20,558	\$ 10,572	\$ 21,144	\$ 22,879	11.29%

Rate Center Summary

Total Revenues	\$ 464,354	\$ 233,349	\$ 466,698	\$ 546,496	17.69%
Total Expenses	464,343	230,868	489,762	546,493	17.69%
Surplus/(Deficit)	\$ 11	\$ 2,481	\$ (23,064)	\$ 3	
Rates (Monthly)					
ACSA	\$ 38,677			\$ 45,383	17.34%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Glenmore Wastewater

		Current Year Activity		2023		2023	
		Six Month		Projected		vs.	
		Actual		Year end		2024	
		12/31/2022		6/30/2023		Variance	
						\$	
						%	
Object Code	Line Item	Adopted Budget FY 2022-2023		Proposed Budget FY 2023-2024			
10000	Salaries & Benefits						
11000	Salaries	\$ 77,100	\$ 43,267	\$ 86,534	\$ 86,850	\$ 9,750	12.65%
11010	Overtime & Holiday Pay	4,000	2,817	5,634	4,500	500	12.50%
12010	FICA	6,204	3,448	6,896	6,988	784	12.64%
12020	Health Insurance	18,600	9,251	18,502	18,600	-	0.00%
12026	Employee Assistance Program	15	11	22	20	5	33.33%
12030	Retirement	6,469	3,540	7,080	7,287	818	12.64%
12040	Life Insurance	917	548	1,096	1,034	117	12.76%
12050	Fitness Program	80	47	94	100	20	25.00%
12060	Worker's Comp Insurance	800	577	769	800	-	0.00%
	Subtotal	\$ 114,185	\$ 63,506	\$ 126,627	\$ 126,179	\$ 11,994	10.50%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 100	\$ 67	\$ 134	\$ 150	\$ 50	50.00%
13150	Education & Training	500	190	380	500	-	0.00%
13200	Travel & Lodging	50	10	20	100	50	100.00%
13250	Uniforms	780	510	1,020	850	70	8.97%
13325	Recruiting & Medical Testing	100	52	104	50	(50)	-50.00%
13350	Other	100	67	134	50	(50)	-50.00%
	Subtotal	\$ 1,630	\$ 896	\$ 1,792	\$ 1,700	\$ 70	4.29%
	Professional Services						
20100	Legal Fees		\$ -	\$ -		\$ -	
20200	Financial & Admin. Services		-	-		-	
20250	Bond Issue Costs		-	-		-	
20300	Engineering & Technical Services	5,000	7,772	15,544	25,000	20,000	400.00%
	Subtotal	\$ 5,000	\$ 7,772	\$ 15,544	\$ 25,000	\$ 20,000	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 350	\$ 307	\$ 409	\$ 400	\$ 50	14.29%
21150	Advertising & Communication		-	-		-	
21250	Watershed Management		-	-		-	
21253	Safety Programs/Supplies	600	2,420	4,840	2,300	1,700	283.33%
21300	Authority Dues/Permits/Fees	3,600	2,990	5,980	3,700	100	2.78%
21350	Laboratory Analysis	3,200	10	20	2,000	(1,200)	-37.50%
21400	Utilities	28,000	13,167	26,334	27,000	(1,000)	-3.57%
21420	General Other Services	-	-	-	-	-	
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 35,750	\$ 18,894	\$ 37,583	\$ 35,400	\$ (350)	-0.98%
22000	Communication						
22100	Radio	\$ -	\$ 103	\$ 206	\$ 250	\$ 250	
22150	Telephone & Data Service	-	1,255	2,510	2,500	2,500	
22200	Cell Phones, Wireless data	-	304	608	700	700	
	Subtotal	\$ -	\$ 1,662	\$ 3,324	\$ 3,450	\$ 3,450	
31000	Information Technology						
31100	Computer Hardware	\$ 1,250	\$ -	\$ -	\$ 5,000	\$ 3,750	300.00%
31150	SCADA Maint. & Support	1,125	6,871	13,742	8,000	6,875	611.11%
31200	Maintenance & Support Services		-	-		-	
31250	Software & Subscriptions		33	66	-	-	
31300	Security Systems	2,050	-	-	-	(2,050)	
31325	Asset Mgt / Project Mgt Systems	-	-	-	-	-	
	Subtotal	\$ 4,425	\$ 6,904	\$ 13,808	\$ 13,000	\$ 8,575	193.79%
33000	Supplies						
33100	Office Supplies		\$ -	\$ -	\$ -	\$ -	
33150	Subscriptions/Reference Material		-	-	-	-	
33350	Postage & Delivery		-	-	-	-	
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 14,000	\$ 4,109	\$ 8,218	\$ 9,500	\$ (4,500)	-32.14%
41150	Building/land Lease, Rental		-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	-	-	-	-	-	

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Glenmore Wastewater

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
41400	Materials, Supplies & Tools	7,500	752	1,504	8,500	1,000	13.33%
41450	Chemicals	5,000	2,362	4,724	5,300	300	6.00%
41500	Vehicle Maintenance	750	191	382	750	-	0.00%
41550	Equipment Repair, Replace, Maint.	40,000	6,022	42,044	40,000	-	0.00%
41600	Instrumentation & Metering	5,000	-	-	5,000	-	0.00%
41650	Fuel & Lubricants	2,700	1,511	3,022	3,000	300	11.11%
41700	General Other Maintenance	60,000	31,983	63,966	71,500	11,500	19.17%
Subtotal		\$ 134,950	\$ 46,930	\$ 123,860	\$ 143,550	\$ 8,600	6.37%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -		\$ -	
81250	Equipment (over \$10,000)	-	-	-		-	
81300	Vehicle Replacement Fund	3,800	1,900	3,800	3,800	-	0.00%
Subtotal		\$ 3,800	\$ 1,900	\$ 3,800	\$ 3,800	\$ -	0.00%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ 26,603	\$ 15,793	\$ 31,101	\$ 33,498	\$ 6,895	25.92%
95300	Engineering Allocation	33,049	15,832	31,635	35,478	2,429	7.35%
95150	Maintenance Allocation	66,086	31,052	61,290	68,690	2,604	3.94%
95200	Laboratory Allocation	8,307	4,155	8,254	8,869	562	6.77%
Subtotal		\$ 134,045	\$ 66,832	\$ 132,280	\$ 146,535	\$ 12,490	9.32%
Depreciation		\$ 10,000	\$ 5,000	\$ 10,000	\$ 25,000	\$ 15,000	150.00%
Subtotal		\$ 10,000	\$ 5,000	\$ 10,000	\$ 25,000	\$ 15,000	150.00%
Total		\$ 443,785	\$ 220,296	\$ 468,618	\$ 523,614	\$ 79,829	17.99%

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Scottsville Wastewater Summary

Projected Flow (MGD)

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	
0.065			0.065	

Operations Budget

Projected Revenues

Operations Rate (monthly)

Revenue	\$ 29,635			\$ 32,016	8.03%
Interest Allocation	\$ 355,620	\$ 177,810	\$ 355,620	\$ 384,192	8.03%
	120	773	1,546	1,300	983.33%
Total Operations Revenues	\$ 355,740	\$ 178,583	\$ 357,166	\$ 385,492	8.36%

Projected Expenses

Personnel Cost	\$ 115,795	\$ 64,402	\$ 128,419	\$ 127,949	10.50%
Professional Services	5,000	930	1,860	5,000	0.00%
Other Services and Charges	26,650	14,796	29,095	24,800	-6.94%
Communications	3,770	1,864	3,728	3,800	0.80%
Information Technology	4,125	8,702	17,404	14,025	240.00%
Supplies	-	-	-	-	
Operations and Maintenance	52,000	20,999	41,998	49,500	-4.81%
Equipment Purchases	3,800	1,900	3,800	3,700	-2.63%
Depreciation	20,000	10,000	20,000	20,000	0.00%
Subtotal before allocations	\$ 231,140	\$ 123,593	\$ 246,304	\$ 248,774	7.63%
Allocations of Support Departments	124,604	62,396	123,525	136,722	9.73%
Total Operations Expenses	\$ 355,744	\$ 185,989	\$ 369,829	\$ 385,496	8.36%

Operations Cost per 1,000 gallons \$14.994 \$16.249 108.37%

Debt Service Budget

Projected Revenue

Debt Service Rate (monthly)

Debt Service Rate Revenue - ACSA	\$ 843			\$ 1,553	84.22%
Trust Fund Interest	\$ 10,110	\$ 5,058	\$ 10,116	\$ 18,636	84.33%
Reserve Fund Interest	-	65	130	80	#DIV/0!
	100	664	1,328	1,800	1700.00%
Total Debt Service Revenue	\$ 10,210	\$ 5,787	\$ 11,574	\$ 20,516	100.94%

Principal, Interest & Reserves

Total Principal & Interest	\$ 7,447	\$ 3,724	\$ 7,448	\$ 7,471	0.32%
Estimated New Principal & Interest	2,667	1,334	2,668	11,250	321.82%
Reserve Additions - Interest	100	664	1,328	1,800	1700.00%
Total Debt Principal and Interest	\$ 10,214	\$ 5,722	\$ 11,444	\$ 20,521	100.91%

Rate Center Summary

Total Revenues	\$ 365,950	\$ 184,370	\$ 368,740	\$ 406,008	10.95%
Total Expenses	365,958	191,711	381,273	406,017	10.95%
Surplus/(Deficit)	\$ (8)	\$ (7,341)	\$ (12,533)	\$ (9)	
Rates (Monthly)					
ACSA	\$ 30,478			\$ 33,569	10.14%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Rate Center: Scottsville Wastewater

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023 vs. 2024 Variance \$	2023 vs. 2024 Variance %
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023			
10000	Salaries & Benefits						
11000	Salaries	\$ 77,100	\$ 43,267	\$ 86,534	\$ 86,850	\$ 9,750	12.65%
11010	Overtime & Holiday Pay	4,000	2,817	5,634	4,500	500	12.50%
12010	FICA	6,204	3,448	6,896	6,988	784	12.64%
12020	Health Insurance	18,600	9,251	18,502	18,600	-	0.00%
12026	Employee Assistance Program	15	11	22	20	5	33.33%
12030	Retirement	6,469	3,540	7,080	7,287	818	12.64%
12040	Life Insurance	917	548	1,096	1,034	117	12.76%
12050	Fitness Program	70	47	94	100	30	42.86%
12060	Worker's Comp Insurance	800	577	769	800	-	0.00%
	Subtotal	\$ 114,175	\$ 63,506	\$ 126,627	\$ 126,179	\$ 12,004	10.51%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 100	\$ 67	\$ 134	\$ 100	\$ -	0.00%
13150	Education & Training	500	190	380	600	100	20.00%
13200	Travel & Lodging	100	10	20	100	-	0.00%
13250	Uniforms	750	510	1,020	850	100	13.33%
13325	Recruiting & Medical Testing	70	52	104	70	-	0.00%
13350	Other	100	67	134	50	(50)	-50.00%
	Subtotal	\$ 1,620	\$ 896	\$ 1,792	\$ 1,770	\$ 150	9.26%
20100	Professional Services						
20100	Legal Fees		\$ -	\$ -		\$ -	
20200	Financial & Admin. Services		-	-		-	
20250	Bond Issue Costs		-	-		-	
20300	Engineering & Technical Services	5,000	930	1,860	5,000	-	0.00%
	Subtotal	\$ 5,000	\$ 930	\$ 1,860	\$ 5,000	\$ -	
21100	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 850	\$ 746	\$ 995	\$ 1,000	\$ 150	17.65%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	600	2,535	5,070	2,500	1,900	316.67%
21300	Authority Dues/Permits/Fees	3,600	2,990	5,980	3,700	100	2.78%
21350	Laboratory Analysis	1,600	10	20	1,600	-	0.00%
21400	Utilities	20,000	8,515	17,030	16,000	(4,000)	-20.00%
21420	General Other Services	-	-	-	-	-	
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 26,650	\$ 14,796	\$ 29,095	\$ 24,800	\$ (1,850)	-6.94%
22000	Communication						
22100	Radio	\$ 500	\$ 103	\$ 206	\$ 250	\$ (250)	-50.00%
22150	Telephone & Data Service	3,000	1,632	3,264	3,300	300	10.00%
22200	Cell Phones, Wireless data	270	129	258	250	(20)	-7.41%
	Subtotal	\$ 3,770	\$ 1,864	\$ 3,728	\$ 3,800	\$ 30	0.80%
31000	Information Technology						
31100	Computer Hardware	\$ 1,250	\$ -	\$ -	\$ 5,000	\$ 3,750	300.00%
31150	SCADA Maint. & Support	1,125	8,669	17,338	7,825	6,700	595.56%
31200	Maintenance & Support Services	-	-	-	-	-	
31250	Software & Subscriptions	-	33	66	-	-	
31300	Security Systems	1,750	-	-	1,200	(550)	
31325	Asset Mgt / Project Mgt Systems	-	-	-	-	-	
	Subtotal	\$ 4,125	\$ 8,702	\$ 17,404	\$ 14,025	\$ 9,900	240.00%
33000	Supplies						
33100	Office Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	-	-	-	-	-	
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 17,250	\$ 5,407	\$ 10,814	\$ 10,400	\$ (6,850)	-39.71%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	-	-	-	-	-	
41400	Materials, Supplies & Tools	2,000	182	364	2,500	500	25.00%
41450	Chemicals	2,500	634	1,268	1,000	(1,500)	-60.00%
41500	Vehicle Maintenance	600	191	382	600	-	0.00%
41550	Equipment Repair, Replace, Maint.	10,000	6,249	12,498	15,000	5,000	50.00%

**Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail**

Rate Center: Scottsville Wastewater

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
41600	Instrumentation & Metering	5,000	-	-	5,000	-	0.00%
41650	Fuel & Lubricants	1,000	624	1,248	1,800	800	80.00%
41700	General Other Maintenance	13,650	7,712	15,424	13,200	(450)	-3.30%
Subtotal		\$ 52,000	\$ 20,999	\$ 41,998	\$ 49,500	\$ (2,500)	-4.81%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -		\$ -	
81250	Equipment (over \$10,000)	-	-	-	-	-	
81300	Vehicle Replacement Fund	3,800	1,900	3,800	3,700	(100)	-2.63%
Subtotal		\$ 3,800	\$ 1,900	\$ 3,800	\$ 3,700	\$ (100)	-2.63%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ 26,603	\$ 15,793	\$ 31,101	\$ 33,498	\$ 6,895	25.92%
95300	Engineering Allocation	33,049	15,832	31,635	35,478	2,429	7.35%
95150	Maintenance Allocation	56,645	26,616	52,535	58,877	2,232	3.94%
95200	Laboratory Allocation	8,307	4,155	8,254	8,869	562	6.77%
Subtotal		\$ 124,604	\$ 62,396	\$ 123,525	\$ 136,722	\$ 12,118	9.73%
Depreciation		\$ 20,000	\$ 10,000	\$ 20,000	\$ 20,000	\$ -	0.00%
Subtotal		\$ 20,000	\$ 10,000	\$ 20,000	\$ 20,000	\$ -	0.00%
Total		\$ 355,744	\$ 185,989	\$ 369,829	\$ 385,496	\$ 29,752	8.36%

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Support Departments

Fiscal Year 2023-2024

Rivanna Water and Sewer Authority

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Administration Summary

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	

Operations Budget Projected Revenues & Sources

Payment for Services SWA	\$ 654,000	\$ 327,000	\$ 654,000	\$ 781,000	19.42%
Bond Proceeds Funding Bond Issuance Costs	-	-	-	-	
Miscellaneous Revenue	2,000	8,693	8,693	-	-100.00%
Total Operations Revenues	\$ 656,000	\$ 335,693	\$ 662,693	\$ 781,000	19.05%

Projected Expenses

Personnel Cost	\$ 2,450,092	\$ 1,187,310	\$ 2,390,447	\$ 2,930,008	19.59%
Professional Services	170,000	104,636	299,272	136,450	-19.74%
Other Services and Charges	162,600	92,309	181,810	140,760	-13.43%
Communications	24,780	41,393	72,786	42,800	72.72%
Information Technology	404,876	438,132	725,976	778,800	92.36%
Supplies	23,000	14,359	28,718	22,800	-0.87%
Operations and Maintenance	67,850	30,342	60,684	64,200	-5.38%
Equipment Purchases	13,100	6,550	13,100	15,000	14.50%
Depreciation	-	-	-	-	
Total Operations Expenses	\$ 3,316,298	\$ 1,915,031	\$ 3,772,793	\$ 4,130,818	24.56%

Department Summary					
Total Revenues		\$ 656,000	\$ 335,693	\$ 662,693	\$ 781,000 19.05%
Total Expenses		3,316,298	1,915,031	3,772,793	4,130,818 24.56%
Net Costs Allocable to Rate Centers		\$ (2,660,298)	\$ (1,579,338)	\$ (3,110,100)	\$ (3,349,818) 25.92%
<u>Allocations to the Rate Centers</u>					
Urban Water	44.00%	\$ 1,170,531	\$ 694,909	\$ 1,368,444	\$ 1,473,920
Crozet Water	4.00%	106,412	63,174	124,404	133,993
Scottsville Water	2.00%	53,206	31,587	62,202	66,996
Urban Wastewater	48.00%	1,276,943	758,082	1,492,848	1,607,913
Glenmore Wastewater	1.00%	26,603	15,793	31,101	33,498
Scottsville Wastewater	1.00%	26,603	15,793	31,101	33,498
	100.00%	\$ 2,660,298	\$ 1,579,338	\$ 3,110,100	\$ 3,349,818

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Administration

Expense Detail						2023	2023
Department: Administration						vs.	vs.
Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2024	2024
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		Variance \$	Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 1,776,200	\$ 865,456	\$ 1,730,912	\$ 2,157,400	\$ 381,200	21.46%
11010	Overtime & Holiday Pay	2,000	9	18	500	(1,500)	-75.00%
12010	FICA	136,032	56,783	113,566	165,079	29,047	21.35%
12020	Health Insurance	294,100	141,721	283,442	314,550	20,450	6.95%
12026	Employee Assistance Program	300	160	320	300	-	0.00%
12030	Retirement	149,023	72,933	145,866	181,006	31,983	21.46%
12040	Life Insurance	21,137	11,228	22,456	25,673	4,536	21.46%
12050	Fitness Program	3,500	908	1,816	3,000	(500)	-14.29%
12060	Worker's Comp Insurance	9,700	6,259	8,345	9,700	-	0.00%
Subtotal		\$ 2,391,992	\$ 1,155,457	\$ 2,306,741	\$ 2,857,208	\$ 465,216	19.45%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 1,600	\$ 1,471	\$ 2,942	\$ 1,800	\$ 200	12.50%
13150	Education & Training	34,000	12,650	45,300	38,500	4,500	13.24%
13200	Travel & Lodging	3,500	3,702	7,404	5,000	1,500	42.86%
13250	Uniforms	2,000	619	1,238	5,000	3,000	150.00%
13325	Recruiting & Medical Testing	4,000	1,493	2,986	3,500	(500)	-12.50%
13350	Other	13,000	11,918	23,836	19,000	6,000	46.15%
Subtotal		\$ 58,100	\$ 31,853	\$ 83,706	\$ 72,800	\$ 14,700	25.30%
Professional Services							
20100	Legal Fees	\$ 60,000	\$ 7,558	\$ 65,116	\$ 60,000	\$ -	0.00%
20200	Financial & Admin. Services	60,000	4,588	49,176	46,450	(13,550)	-22.58%
20250	Bond Issue Costs	-	-	-	-	-	0.00%
20300	Engineering & Technical Services	50,000	92,490	184,980	30,000	(20,000)	0.00%
Subtotal		\$ 170,000	\$ 104,636	\$ 299,272	\$ 136,450	\$ (33,550)	-19.74%
Other Services and Charges							
21100	General Liability/Property Ins.	\$ 4,800	\$ 4,212	\$ 5,616	\$ 5,700	\$ 900	18.75%
21150	Advertising & Communication	15,000	9,196	18,392	18,000	3,000	20.00%
21250	Watershed Management	-	-	-	-	-	-
21253	Safety Programs/Supplies	5,000	8,618	17,236	11,560	6,560	131.20%
21300	Authority Dues/Permits/Fees	44,100	28,092	56,184	44,100	-	0.00%
21350	Laboratory Analysis	-	367	734	-	-	-
21400	Utilities	1,200	790	1,580	1,400	200	16.67%
21420	General Other Services	5,000	3,320	6,640	37,500	32,500	650.00%
21430	Governance & Strategic Support	85,000	37,714	75,428	20,000	(65,000)	-76.47%
21450	Bad Debt	2,500	-	-	2,500	-	-
Subtotal		\$ 162,600	\$ 92,309	\$ 181,810	\$ 140,760	\$ (21,840)	-13.43%
Communication							
22000							
22100	Radio	\$ 1,800	\$ 309	\$ 618	\$ 1,800	\$ -	0.00%
22150	Telephone & Data Service	11,000	35,477	55,954	23,000	12,000	109.09%
22200	Cell Phones, Wireless data	11,980	5,607	16,214	18,000	6,020	50.25%
Subtotal		\$ 24,780	\$ 41,393	\$ 72,786	\$ 42,800	\$ 18,020	72.72%
Information Technology							
31000							
31100	Computer Hardware	\$ 60,000	\$ 102,629	\$ 205,258	\$ 145,000	\$ 85,000	141.67%
31150	SCADA Maint. & Support	90,245	77,337	104,674	59,000	(31,245)	-34.62%
31200	Maintenance & Support Services	188,350	242,051	384,102	167,000	(21,350)	-11.34%
31250	Software & Subscriptions	66,181	15,971	31,942	312,800	246,619	372.64%
31300	Security Systems	-	144	288	95,000	95,000	-
31325	Asset Mgt / Project Mgt Systems	100	-	-	-	(100)	-
Subtotal		\$ 404,876	\$ 438,132	\$ 725,976	\$ 778,800	\$ 373,924	92.36%
Supplies							
33000							
33100	Office Supplies	\$ 15,000	\$ 10,537	\$ 21,074	\$ 15,000	\$ -	0.00%
33150	Subscriptions/Reference Material	1,000	523	1,046	800	(200)	-20.00%
33350	Postage & Delivery	7,000	3,299	6,598	7,000	-	0.00%
Subtotal		\$ 23,000	\$ 14,359	\$ 28,718	\$ 22,800	\$ (200)	-0.87%
Operation & Maintenance							
41000							
41100	Building & Grounds	\$ 53,000	\$ 24,046	\$ 48,092	\$ 50,000	\$ (3,000)	-5.66%
41150	Building/land Lease, Rental	5,000	3,160	6,320	6,200	1,200	24.00%
41300	Dam Maintenance	-	-	-	-	-	-
41350	Pipeline/Appurtenances	-	-	-	-	-	-
41400	Materials, Supplies & Tools	3,250	493	986	1,500	(1,750)	-53.85%
41450	Chemicals	-	-	-	-	-	-
41500	Vehicle Maintenance	3,300	497	994	2,500	(800)	-24.24%
41550	Equipment Repair, Replace, Maint.	-	-	-	-	-	-
41600	Instrumentation & Metering	-	-	-	-	-	-

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Administration

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
41650	Fuel & Lubricants	3,300	2,146	4,292	4,000	700	21.21%
41700	General Other Maintenance	-	-	-	-	-	-
Subtotal		\$ 67,850	\$ 30,342	\$ 60,684	\$ 64,200	\$ (3,650)	-5.38%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	-
81250	Equipment (over \$10,000)	-	-	-	-	-	-
81300	Vehicle Replacement Fund	13,100	6,550	13,100	15,000	1,900	14.50%
Subtotal		\$ 13,100	\$ 6,550	\$ 13,100	\$ 15,000	\$ 1,900	14.50%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	-
95300	Engineering Allocation	-	-	-	-	-	-
95150	Maintenance Allocation	-	-	-	-	-	-
95200	Laboratory Allocation	-	-	-	-	-	-
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	-
Depreciation		-	-	-	-	-	-
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	-
Total		\$ 3,316,298	\$ 1,915,031	\$ 3,772,793	\$ 4,130,818	\$ 814,520	24.56%

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Maintenance Summary

FY 2023			FY 2024	Budget % Change
Budgeted FY 2023	Actual for 6 months	Projected 12 months	Proposed Budget	

Operations Budget

Projected Revenues

Miscellaneous Revenue	\$	-	\$	-	\$	-	\$	-
Payment for Services SWA		-		-		-		-

Total Operations Revenues

\$	-	\$	-	\$	-	\$	-
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Projected Expenses

Personnel Cost	\$	1,477,565	\$	728,106	\$	1,448,813	\$	1,553,212	5.12%
Professional Services		-		1,562		3,124		25,000	
Other Services and Charges		33,600		9,387		14,562		36,400	8.33%
Communications		24,500		6,387		1,170		11,300	-53.88%
Information Technology		32,500		10,380		20,760		17,500	-46.15%
Supplies		2,500		657		1,314		4,000	60.00%
Operations and Maintenance		104,900		66,407		132,814		114,150	8.82%
Equipment Purchases		212,600		64,300		128,600		201,000	-5.46%
Depreciation		-		-		-		-	

Total Operations Expenses

\$	1,888,165	\$	887,186	\$	1,751,157	\$	1,962,562	3.94%
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Department Summary

Total Revenues		\$	-	\$	-	\$	-	\$	-
Total Expenses			1,888,165		887,186		1,751,157		1,962,562
Net Costs Allocable to Rate Centers		\$	(1,888,165)	\$	(887,186)	\$	(1,751,157)	\$	(1,962,562)
<u>Allocations to the Rate Centers</u>									
Urban Water	30.00%	\$	566,450	\$	266,156	\$	525,347	\$	588,769
Crozet Water	3.50%		66,086		31,052		61,290		68,690
Scottsville Water	3.50%		66,086		31,052		61,290		68,690
			-		-		-		-
Urban Wastewater	56.50%		1,066,813		501,260		989,404		1,108,848
Glenmore Wastewater	3.50%		66,086		31,052		61,290		68,690
Scottsville Wastewater	3.00%		56,645		26,616		52,535		58,877
	100.00%	\$	1,888,166	\$	887,188	\$	1,751,156	\$	1,962,564

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Maintenance

Expense Detail			Current Year Activity			2023 vs. 2024 Variance \$	2023 vs. 2024 Variance %
Object Code	Line Item	Adopted Budget FY 2022-2023	Six Month Actual 12/31/2022	Projected Year end 6/30/2023	Proposed Budget FY 2023-2024		
10000	Salaries & Benefits						
11000	Salaries	\$ 995,650	\$ 508,807	\$ 1,017,614	\$ 1,066,100	\$ 70,450	7.08%
11010	Overtime & Holiday Pay	10,000	3,858	7,716	15,000	5,000	50.00%
12010	FICA	76,932	37,876	75,752	82,704	5,772	7.50%
12020	Health Insurance	235,100	110,776	221,552	235,100	-	0.00%
12026	Employee Assistance Program	250	133	266	275	25	10.00%
12030	Retirement	83,535	40,399	80,798	89,446	5,911	7.08%
12040	Life Insurance	11,848	6,312	12,624	12,687	839	7.08%
12050	Fitness Program	-	-	-	-	-	0.00%
12060	Worker's Comp Insurance	17,200	11,098	14,797	17,200	-	0.00%
	Subtotal	\$ 1,430,515	\$ 719,259	\$ 1,431,119	\$ 1,518,512	\$ 87,997	6.15%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 150	\$ 80	\$ 160	\$ 250	\$ 100	66.67%
13150	Education & Training	31,000	2,780	5,560	15,000	(16,000)	-51.61%
13200	Travel & Lodging	500	-	-	650	150	30.00%
13250	Uniforms	14,100	5,335	10,670	15,500	1,400	9.93%
13325	Recruiting & Medical Testing	500	492	984	2,500	2,000	400.00%
13350	Other	800	160	320	800	-	0.00%
	Subtotal	\$ 47,050	\$ 8,847	\$ 17,694	\$ 34,700	\$ (12,350)	-26.25%
	Professional Services						
20100	Legal Fees		\$ -	\$ -	\$ -	\$ -	
20200	Financial & Admin. Services		-	-	-	-	
20250	Bond Issue Costs		-	-	-	-	
20300	Engineering & Technical Services		1,562	3,124	25,000	25,000	
	Subtotal	\$ -	\$ 1,562	\$ 3,124	\$ 25,000	\$ 25,000	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 7,200	\$ 6,318	\$ 8,424	\$ 7,400	\$ 200	2.78%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	22,900	2,919	5,838	25,000	2,100	9.17%
21300	Authority Dues/Permits/Fees	-	5	10	-	-	
21350	Laboratory Analysis	-	-	-	-	-	
21400	Utilities	-	-	-	-	-	
21420	General Other Services	3,500	145	290	4,000	500	14.29%
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 33,600	\$ 9,387	\$ 14,562	\$ 36,400	\$ 2,800	8.33%
22000	Communication						
22100	Radio	\$ 6,500	\$ 1,646	\$ 3,292	\$ 500	\$ (6,000)	-92.31%
22150	Telephone & Data Service	800	166	332	800	-	0.00%
22200	Cell Phones, Wireless data	17,200	4,575	9,150	10,000	(7,200)	-41.86%
	Subtotal	\$ 24,500	\$ 6,387	\$ 12,774	\$ 11,300	\$ (13,200)	-53.88%
31000	Information Technology						
31100	Computer Hardware	\$ 12,500	\$ 10,015	\$ 20,030	\$ 13,000	\$ 500	4.00%
31150	SCADA Maint. & Support	-	-	-	-	-	
31200	Maintenance & Support Services	3,000	365	730	2,500	(500)	-16.67%
31250	Software & Subscriptions	2,000	-	-	2,000	-	0.00%
31300	Security Systems	-	-	-	-	-	
31325	Asset Mgt / Project Mgt Systems	15,000	-	-	-	(15,000)	
	Subtotal	\$ 32,500	\$ 10,380	\$ 20,760	\$ 17,500	\$ (15,000)	-46.15%
33000	Supplies						
33100	Office Supplies	\$ 2,500	\$ 657	\$ 1,314	\$ 4,000	\$ 1,500	60.00%
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	-	-	-	-	-	
	Subtotal	\$ 2,500	\$ 657	\$ 1,314	\$ 4,000	\$ 1,500	60.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 12,150	\$ 6,691	\$ 13,382	\$ 20,000	\$ 7,850	64.61%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	3,500	1,863	3,726	5,000	1,500	42.86%
41400	Materials, Supplies & Tools	24,500	21,670	43,340	25,000	500	2.04%
41450	Chemicals	-	989	1,978	-	-	
41500	Vehicle Maintenance	21,150	8,113	16,226	16,800	(4,350)	-20.57%
41550	Equipment Repair, Replace, Maint.	27,100	12,306	24,612	30,350	3,250	11.99%
41600	Instrumentation & Metering	1,500	1,254	2,508	2,000	500	33.33%
41650	Fuel & Lubricants	15,000	13,521	27,042	15,000	-	0.00%
41700	General Other Maintenance	-	-	-	-	-	
	Subtotal	\$ 104,900	\$ 66,407	\$ 132,814	\$ 114,150	\$ 9,250	8.82%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Maintenance

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023 vs. 2024 Variance \$	2023 vs. 2024 Variance %
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023			
81000	Equipment Purchases						
81200	Rental & Leases	\$ 1,000	\$ -	\$ -	\$ 1,000	\$ -	0.00%
81250	Equipment (over \$10,000)	83,000	-	-	70,000	(13,000)	-15.66%
81300	Vehicle Replacement Fund	128,600	64,300	128,600	130,000	1,400	1.09%
	Subtotal	\$ 212,600	\$ 64,300	\$ 128,600	\$ 201,000	\$ (11,600)	-5.46%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	
95300	Engineering Allocation	-	-	-	-	-	
95150	Maintenance Allocation	-	-	-	-	-	
95200	Laboratory Allocation	-	-	-	-	-	
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
	Depreciation	-	-	-	-	-	
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
	Total	\$ 1,888,165	\$ 887,186	\$ 1,762,761	\$ 1,962,562	\$ 74,397	3.94%

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Laboratory Summary

FY 2023			FY 2024	Budget % Change
<i>Budgeted FY 2023</i>	Actual for 6 months	Projected 12 months	<i>Proposed Budget</i>	

Operations Budget

Projected Revenues

N/A

Projected Expenses

Personnel Cost	\$	415,324	\$	207,562	\$	412,844	\$	456,056	9.81%
Professional Services		-		-		-		-	
Other Services and Charges		11,780		444		595		14,580	23.77%
Communications		1,700		585		-		1,400	-17.65%
Information Technology		1,000		-		-		1,000	0.00%
Supplies		1,250		1,115		2,230		1,200	-4.00%
Operations and Maintenance		121,050		66,445		132,890		115,300	-4.75%
Equipment Purchases		1,700		850		1,700		1,700	0.00%
Depreciation		-		-		-		-	
<i>Total Operations Expenses</i>	\$	553,804	\$	277,001	\$	550,259	\$	591,236	6.76%

Department Summary									
Total Revenues		\$	-	\$	-	\$	-	\$	-
Total Expenses			553,804		277,001		550,259		591,236
Net Costs Allocable to Rate Centers		\$	(553,804)	\$	(277,001)	\$	(550,259)	\$	(591,236)
<u>Allocations to the Rate Centers</u>									
Urban Water	44.00%	\$	243,674	\$	121,880	\$	242,114	\$	260,144
Crozet Water	4.00%		22,152		11,080		22,010		23,649
Scottsville Water	2.00%		11,076		5,540		11,005		11,825
			-		-		-		
Urban Wastewater	47.00%		260,288		130,190		258,622		277,881
Glenmore Wastewater	1.50%		8,307		4,155		8,254		8,869
Scottsville Wastewater	1.50%		8,307		4,155		8,254		8,869
	100.00%	\$	553,804	\$	277,000	\$	550,259	\$	591,237

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Laboratory

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 288,000	\$ 146,399	\$ 292,798	\$ 312,800	\$ 24,800	8.61%
11010	Overtime & Holiday Pay	8,000	9,110	18,220	17,000	9,000	112.50%
12010	FICA	22,644	11,578	23,156	25,230	2,586	11.42%
12020	Health Insurance	58,700	21,430	42,860	58,800	100	0.17%
12026	Employee Assistance Program	60	36	72	60	-	0.00%
12030	Retirement	24,163	12,390	24,780	26,244	2,081	8.61%
12040	Life Insurance	3,427	1,909	3,818	3,722	295	8.61%
12050	Fitness Program	200	-	-	200	-	0.00%
12060	Worker's Comp Insurance	5,300	3,420	4,560	5,300	-	0.00%
	Subtotal	\$ 410,494	\$ 206,272	\$ 410,264	\$ 449,356	\$ 38,862	9.47%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 200	\$ -	\$ -	\$ 100	\$ (100)	-50.00%
13150	Education & Training	1,680	479	958	4,500	2,820	167.86%
13200	Travel & Lodging	1,500	-	-	500	(1,000)	-66.67%
13250	Uniforms	1,000	142	284	1,000	-	0.00%
13325	Recruiting & Medical Testing	250	362	724	500	250	0.00%
13350	Other	200	307	614	100	(100)	-50.00%
	Subtotal	\$ 4,830	\$ 1,290	\$ 2,580	\$ 6,700	\$ 1,870	38.72%
	Professional Services						
20100	Legal Fees	\$ -	\$ -	\$ -		\$ -	
20200	Financial & Admin. Services	-	-	-		-	
20250	Bond Issue Costs	-	-	-		-	
20300	Engineering & Technical Services	-	-	-		-	
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 500	\$ 439	\$ 585	\$ 500	\$ -	0.00%
21150	Advertising & Communication	-	-	-		-	
21250	Watershed Management	-	-	-		-	
21253	Safety Programs/Supplies	6,580	-	-	6,580	-	0.00%
21300	Authority Dues/Permits/Fees	4,500	5	10	5,500	1,000	22.22%
21350	Laboratory Analysis	100	-	-	1,000	900	900.00%
21400	Utilities	-	-	-	-	-	
21420	General Other Services	100	-	-	1,000	900	900.00%
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 11,780	\$ 444	\$ 595	\$ 14,580	\$ 2,800	23.77%
22000	Communication						
22100	Radio	\$ -	\$ -	\$ -	\$ -	\$ -	
22150	Telephone & Data Service	-	-	-	-	-	
22200	Cell Phones, Wireless data	1,700	585	1,170	1,400	(300)	-17.65%
	Subtotal	\$ 1,700	\$ 585	\$ 1,170	\$ 1,400	\$ (300)	
31000	Information Technology						
31100	Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	
31150	SCADA Maint. & Support	-	-	-	-	-	
31200	Maintenance & Support Services	1,000	-	-	1,000	-	0.00%
31250	Software & Subscriptions	-	-	-	-	-	
31300	Security Systems	-	-	-	-	-	
31325	Asset Mgt / Project Mgt Systems	-	-	-	-	-	
	Subtotal	\$ 1,000	\$ -	\$ -	\$ 1,000	\$ -	0.00%
33000	Supplies						
33100	Office Supplies	\$ 1,000	\$ 1,033	\$ 2,066	\$ 1,000	\$ -	0.00%
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	250	82	164	200	(50)	-20.00%
	Subtotal	\$ 1,250	\$ 1,115	\$ 2,230	\$ 1,200	\$ (50)	-4.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ -	\$ 3,492	\$ 6,984	\$ -	\$ -	
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	-	-	-	-	-	
41400	Materials, Supplies & Tools	37,000	43,140	86,280	45,000	8,000	21.62%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Laboratory

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
41450	Chemicals	28,000	1,279	2,558	10,000	(18,000)	-64.29%
41500	Vehicle Maintenance	3,500	2,438	4,876	1,000	(2,500)	
41550	Equipment Repair, Replace, Maint.	15,000	10,235	20,470	29,500	14,500	96.67%
41600	Instrumentation & Metering	37,000	5,464	10,928	28,800	(8,200)	-22.16%
41650	Fuel & Lubricants	550	397	794	1,000	450	81.82%
41700	General Other Maintenance	-	-	-	-	-	
Subtotal		\$ 121,050	\$ 66,445	\$ 132,890	\$ 115,300	\$ (5,750)	-4.75%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	
81250	Equipment (over \$10,000)	-	-	-	-	-	
81300	Vehicle Replacement Fund	1,700	850	1,700	1,700	-	0.00%
Subtotal		\$ 1,700	\$ 850	\$ 1,700	\$ 1,700	\$ -	0.00%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	
95300	Engineering Allocation	-	-	-	-	-	
95150	Maintenance Allocation	-	-	-	-	-	
95200	Laboratory Allocation	-	-	-	-	-	
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	
Depreciation		-	-	-	\$ -	-	
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	
Total		\$ 553,804	\$ 277,001	\$ 551,429	\$ 591,236	\$ 37,432	6.76%

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Engineering Summary

FY 2023			FY 2024		Budget % Change
<i>Budgeted FY 2023</i>	Actual for 6 months	Projected 12 months	<i>Proposed Budget</i>		

Operations Budget

Projected Revenues

Payment for Services SWA

\$ - \$ 4,248 \$ 8,496 \$ -

Total Operations Revenues

\$ - \$ 4,248 \$ 8,496 \$ -

Projected Expenses

Personnel Cost

\$ 1,794,679 \$ 905,449 \$ 1,811,349 \$ 2,022,024 12.67%

Professional Services

125,000 30,929 61,858 30,000 -76.00%

Other Services and Charges

18,000 4,846 7,293 22,000 22.22%

Communications

18,772 4,712 9,424 19,540 4.09%

Information Technology

145,000 82,531 165,062 154,900 6.83%

Supplies

5,000 2,251 4,502 8,500 70.00%

Operations and Maintenance

75,300 18,260 36,520 86,740 15.19%

Equipment Purchases

21,500 10,750 21,500 21,500 0.00%

Depreciation

- - - -

Total Operations Expenses

\$ 2,203,251 \$ 1,059,728 \$ 2,117,508 \$ 2,365,204 7.35%

Department Summary

Total Revenues

\$ - \$ 4,248 \$ 8,496 \$ -

Total Expenses

2,203,251 1,059,728 2,117,508 2,365,204 7.35%

Net Costs Allocable to Rate Centers

\$ (2,203,251) \$ (1,055,480) \$ (2,109,012) \$ (2,365,204)

Allocations to the Rate Centers

Urban Water

47.00% \$ 1,035,528 \$ 496,076 \$ 991,236 \$ 1,111,646

Crozet Water

4.00% 88,130 42,219 84,360 94,608

Scottsville Water

2.00% 44,065 21,110 42,180 47,304

Urban Wastewater

44.00% 969,430 464,411 927,965 1,040,690

Glenmore Wastewater

1.50% 33,049 15,832 31,635 35,478

Scottsville Wastewater

1.50% 33,049 15,832 31,635 35,478

100.00% **\$ 2,203,251 \$ 1,055,480 \$ 2,109,011 \$ 2,365,204**

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Engineering

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023 vs. 2024 Variance \$	2023 vs. 2024 Variance %
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023			
10000	Salaries & Benefits						
11000	Salaries	\$ 1,289,100	\$ 677,906	\$ 1,355,812	\$ 1,489,000	\$ 199,900	15.51%
11010	Overtime & Holiday Pay	12,000	8,636	17,272	13,000	1,000	8.33%
12010	FICA	99,534	50,236	100,472	114,903	15,369	15.44%
12020	Health Insurance	205,600	78,649	157,298	206,000	400	0.19%
12026	Employee Assistance Program	200	115	230	250	50	25.00%
12030	Retirement	108,155	56,247	112,494	124,927	16,772	15.51%
12040	Life Insurance	15,340	8,666	17,332	17,719	2,379	15.51%
12050	Fitness Program	3,000	2,336	4,672	4,300	1,300	43.33%
12060	Worker's Comp Insurance	22,200	14,324	19,099	22,200	-	0.00%
	Subtotal	\$ 1,755,129	\$ 897,115	\$ 1,784,681	\$ 1,992,299	\$ 237,170	13.51%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 3,100	\$ 1,301	\$ 2,602	\$ 3,250	\$ 150	4.84%
13150	Education & Training	16,000	847	11,694	10,000	(6,000)	-37.50%
13200	Travel & Lodging	15,600	3,920	7,840	10,000	(5,600)	-35.90%
13250	Uniforms	3,750	1,094	2,188	4,375	625	16.67%
13325	Recruiting & Medical Testing	500	669	1,338	1,500	1,000	200.00%
13350	Other	600	503	1,006	600	-	0.00%
	Subtotal	\$ 39,550	\$ 8,334	\$ 26,668	\$ 29,725	\$ (9,825)	-24.84%
	Professional Services						
20100	Legal Fees	\$ 5,000	\$ 490	\$ 980	\$ 2,500	\$ (2,500)	-50.00%
20200	Financial & Admin. Services	-	405	810	2,500	2,500	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	120,000	30,034	60,068	25,000	(95,000)	-79.17%
	Subtotal	\$ 125,000	\$ 30,929	\$ 61,858	\$ 30,000	\$ (95,000)	-76.00%
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 4,100	\$ 3,598	\$ 4,797	\$ 4,400	\$ 300	7.32%
21150	Advertising & Communication	200	-	-	200	-	0.00%
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	6,500	464	928	9,825	3,325	51.15%
21300	Authority Dues/Permits/Fees	1,500	45	90	1,500	-	0.00%
21350	Laboratory Analysis	250	-	-	250	-	0.00%
21400	Utilities	450	396	792	825	375	83.33%
21420	General Other Services	-	343	686	-	-	
21430	Governance & Strategic Support	5,000	-	-	5,000	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 18,000	\$ 4,846	\$ 7,293	\$ 22,000	\$ 4,000	22.22%
22000	Communication						
22100	Radio	\$ 4,600	\$ 1,131	\$ 2,262	\$ 4,600	\$ -	0.00%
22150	Telephone & Data Service	1,500	453	906	1,500	-	0.00%
22200	Cell Phones, Wireless data	12,672	3,128	6,256	13,440	768	6.06%
	Subtotal	\$ 18,772	\$ 4,712	\$ 9,424	\$ 19,540	\$ 768	4.09%
31000	Information Technology						
31100	Computer Hardware	\$ 12,000	\$ 3,320	\$ 6,640	\$ 12,000	\$ -	0.00%
31150	SCADA Maint. & Support	-	-	-	-	-	
31200	Maintenance & Support Services	53,800	76,656	153,312	56,700	2,900	5.39%
31250	Software & Subscriptions	2,000	2,555	5,110	5,500	3,500	175.00%
31300	Security Systems	28,200	-	-	33,300	5,100	
31325	Asset Mgt / Project Mgt Systems	49,000	-	-	47,400	(1,600)	
	Subtotal	\$ 145,000	\$ 82,531	\$ 165,062	\$ 154,900	\$ 9,900	6.83%
33000	Supplies						
33100	Office Supplies	\$ 3,500	\$ 1,372	\$ 2,744	\$ 7,000	\$ 3,500	100.00%
33150	Subscriptions/Reference Material	900	773	1,546	900	-	0.00%
33350	Postage & Delivery	600	106	212	600	-	0.00%
	Subtotal	\$ 5,000	\$ 2,251	\$ 4,502	\$ 8,500	\$ 3,500	70.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 20,200	\$ 3,689	\$ 7,378	\$ 19,240	\$ (960)	-4.75%
41150	Building/land Lease, Rental	1,800	765	1,530	1,900	100	5.56%
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	16,300	4,362	8,724	17,000	700	4.29%
41400	Materials, Supplies & Tools	6,000	3,021	6,042	14,000	8,000	133.33%
41450	Chemicals	-	-	-	-	-	
41500	Vehicle Maintenance	24,000	1,756	3,512	24,000	-	0.00%
41550	Equipment Repair, Replace, Maint.	1,000	170	340	1,000	-	0.00%

Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail

Department: Engineering

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
41600	Instrumentation & Metering	-	-	-	-	-	
41650	Fuel & Lubricants	6,000	4,497	8,994	9,600	3,600	60.00%
41700	General Other Maintenance	-	-	-	-	-	
Subtotal		\$ 75,300	\$ 18,260	\$ 36,520	\$ 86,740	\$ 11,440	15.19%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	
81250	Equipment (over \$10,000)	-	-	-	-	-	
81300	Vehicle Replacement Fund	21,500	10,750	21,500	21,500	-	0.00%
Subtotal		\$ 21,500	\$ 10,750	\$ 21,500	\$ 21,500	\$ -	0.00%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	
95300	Engineering Allocation	-	-	-	-	-	
95150	Maintenance Allocation	-	-	-	-	-	
95200	Laboratory Allocation	-	-	-	-	-	
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	
Depreciation		-	-	-	-	-	
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	
Total		\$ 2,203,251	\$ 1,059,728	\$ 2,117,508	\$ 2,365,204	\$ 161,953	7.35%

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APPENDICES

Rivanna Water and Sewer Authority

Fiscal Year 2023-2024

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Flow Projections

(1,000 GALLONS)				(MILLION GALLONS PER DAY)			
		<u>FY 2023</u>	<u>FY 2024</u>	<u>% Change</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>% Change</u>
Water							
	Urban	3,397,700	3,397,700	0.00%	9.309	9.309	0.00%
	Crozet	202,697	202,697	0.00%	0.555	0.555	0.00%
	Scottsville	17,230	17,230	0.00%	0.047	0.047	0.00%
Total		3,617,627	3,617,627	0.00%	9.911	9.911	0.00%
Wastewater							
	Urban	3,390,400	3,390,400	0.00%	9.289	9.289	0.00%
	Glenmore	41,401	41,401	0.00%	0.113	0.113	0.00%
	Scottsville	23,643	23,643	0.00%	0.065	0.065	0.00%
Total		3,455,444	3,455,444	0.00%	9.467	9.467	0.00%

Allocation (Urban Area Only)	<u>FY 2023</u>	<u>FY 2024</u>	<u>Allocation % Change</u>
<u>Water</u>			
City	49%	48%	-2.04%
ACSA	51%	52%	1.96%
<u>Wastewater</u>			
City	47%	46%	-2.13%
ACSA	53%	54%	1.89%

FY 2024 allocations are based on FY 2022 retail flows reported by the City and ACSA.

Allocation (Urban Area Only)	(1,000 GALLONS)			(MILLION GALLONS PER DAY)		
	<u>FY 2023</u>	<u>FY 2024</u>	<u>% Change</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>% Change</u>
<u>Water</u>						
City	1,664,873	1,630,896	-2.04%	4.561	4.468	-2.04%
ACSA	1,732,827	1,766,804	1.96%	4.747	4.841	1.98%
	3,397,700	3,397,700				
<u>Wastewater</u>						
City	1,593,488	1,559,584	-2.13%	4.366	4.273	-2.13%
ACSA	1,796,912	1,830,816	1.89%	4.923	5.016	1.89%
	3,390,400	3,390,400				

URBAN WATER DEBT SERVICE COSTS

Summary of Debt Service Budget to be included in Monthly Charges

City Allocation of Debt Service Costs		Estimated Debt Service Budget FY 2024	City %	City Amount	Annual Total
ALLOCATION BASED ON FLOWS					
<i>Regional Water System Projects:</i>					
9.2% of 2019 Refunding Bond	\$	129,872	48.00%	\$ 62,339	
14.2% of 2015B Bond - New Projects		239,871	48.00%	115,138	177,477
<i>Revenues that offset Debt Service</i>					
Trust Fund Interest		(77,500)	48.00%	(37,200)	
Use of Reserves		-	FIXED	-	
Lease Revenues		(1,600)	48.00%	(768)	(37,968)
RATES BASED ON FIXED AGREEMENTS					
<i>2003 & 2012 Urban Water Agreement</i>					
<i>Water Supply Expansion (15%/85%)</i>					
100% of 2012B Revenue Bond		1,341,706	15.00%	201,256	
9.0% of 2015B Bond - Refunding		142,622	15.00%	21,393	
<i>Water Pipeline (20%/80%)</i>					
10.4% of 2018 Bond		234,219	20.00%	46,844	
<i>Non-Water Supply - Other Projects (48%/52%)</i>					
47.4% of 2015B Bond - Refunding		751,145	48.00%	360,550	
77.8% of 2015B Bond - New Projects		1,314,224	48.00%	630,828	
37.7% of 2018 Bond		849,860	48.00%	407,933	
91.6% of 2021 Bond		1,268,655	48.00%	608,954	
<i>South Rivanna Expansion of 1999</i>					
10.3% of 2015B Bond - Refunding		163,223	0.00%	-	2,277,758
<i>Southern Loop Water Line, West Branch</i>					
0.8% of 2019 Refunding Bond		10,768	24.51%	2,639	2,639
<i>South Rivanna Connector Main</i>					
3.0% of 2019 Refunding Bond		42,392	52.00%	22,044	22,044
<i>Northern Area Agreement</i>					
25% of 2021 Bond		476,222	0.00%	-	-
DEBT SERVICE PROJECTED FROM 5-YEAR CIP					
CIP Growth Charge from 2022-2026 CIP		2,908,100	FIXED	1,096,450	1,096,450
Debt Service Coverage Ratio / Policy Charge		400,000	37.00%	148,000	148,000
Total Debt Service For Rate Computation	\$	10,193,779		\$ 3,686,400	\$ 3,686,400

3,029,635

ACSA Allocation of Debt Service Costs		Estimated Debt Service Budget FY 2024	ACSA %	ACSA Amount	Annual Total
ALLOCATION BASED ON FLOWS					
<i>Regional Water System Projects:</i>					
9.2% of 2019 Refunding Bond	\$	129,872	52.00%	\$ 67,533	
14.2% of 2015B Bond - New Projects		239,871	52.00%	124,733	192,266
<i>Revenues that offset Debt Service</i>					
Trust Fund Interest		(77,500)	52.00%	(40,300)	
Use of Reserves		-	FIXED	-	
Lease Revenues		(1,600)	52.00%	(832)	(41,132)
RATES BASED ON FIXED AGREEMENTS					
<i>2003 & 2012 Urban Water Agreement</i>					
<i>Water Supply Expansion (15%/85%)</i>					
100% of 2012B Revenue Bond		1,341,706	85.00%	1,140,450	
9.0% of 2015B Bond - Refunding		142,622	85.00%	121,229	
<i>Water Pipeline (20%/80%)</i>					
10.4% of 2018 Bond		234,219	80.00%	187,375	
<i>Non-Water Supply - Other Projects (48%/52%)</i>					
47.4% of 2015B Bond - Refunding		751,145	52.00%	390,595	
77.8% of 2015B Bond - New Projects		1,314,224	52.00%	683,396	
37.7% of 2018 Bond		849,860	52.00%	441,927	
91.6% of 2021 Bond		1,268,655	52.00%	659,701	
<i>South Rivanna Expansion of 1999</i>					
10.3% of 2015B Bond - Refunding		163,223	100.00%	163,223	3,787,896
<i>Southern Loop Water Line, West Branch</i>					
0.8% of 2019 Refunding Bond		10,768	75.49%	8,129	8,129
<i>South Rivanna Connector Main</i>					
3.0% of 2019 Refunding Bond		42,392	48.00%	20,348	20,348
<i>Northern Area Agreement</i>					
25% of 2021 Bond		476,222	100.00%	476,222	476,222
DEBT SERVICE PROJECTED FROM 5-YEAR CIP					
CIP Growth Charge from 2022-2026 CIP		2,908,100	FIXED	1,811,650	1,811,650
Debt Service Coverage Ratio / Policy Charge		400,000	63.00%	252,000	252,000
Total Debt Service For Rate Computation	\$	10,193,779		\$ 6,507,379	\$ 6,507,379

5,272,644

SUMMARY OF DEBT SERVICE REVENUES:			
CITY SHARE OF TOTAL DEBT SERVICE	\$	3,686,400	36%
ACSA SHARE OF TOTAL DEBT SERVICE		6,507,379	64%
	\$	10,193,779	100%

URBAN WASTEWATER DEBT SERVICE COSTS
Summary of Debt Service Budget to be Included in Charges

City Allocation of Debt Service Costs		Estimated Debt Service Budget FY 2024	City %	City Amount			
ALLOCATION BASED ON FLOWS							
<i>System Projects Rate</i>							
	22.9% of 2015B Bond Refunding	\$ 362,895	46%	\$ 166,932			
	100% 2005A Bond VRA/VRLF	150,976	46%	69,449			
	88.5% of 2009A Bond VRA/VRLF	1,419,716	46%	653,069			
	37.9% of 2011 A,B Bond VRA/VRLF	192,130	46%	88,380			
	24.5% of 2019 Refunding Bond	345,323	46%	158,849			
	100% of 2016 Bond	626,328	46%	288,111			
	6.3% of 2021 Bond	91,435	46%	42,060			
	2.4% of 2018 Bond	54,328	46%	24,991	1,491,841	3,243,131	3,243,131
<i>Revenues/Reserves that offset Debt Service</i>							
	County MOU - Septage	(109,440)	46%	(50,342)			
	Use of Reserves	-	Fixed	-			
	Trust Fund Interest	(86,900)	46%	(39,974)	(90,316)	(196,340)	
ALLOCATION BASED ON FIXED AGREEMENTS							
<i>2014 Wastewater Agreement</i>							
	Meadowcreek 97.9% of 2010A and 10.9% of 2019 Bonds	1,096,179	Segments	708,775			
	Wet Weather MCWWTP 11.5% of 2009A and 62.1% of 2011 A/B Bonds	499,293	Segments	270,138			
	Moore's Creek Pump Stn. 100% of 2011 D/E Bond	296,945	Segments	184,550			
	Rivanna Pump Stn. & F.M. 5.8% of 2019 and 100% of 2014A Bonds	1,852,004	Segments	961,258			
	Albemarle Berkley Pump Stn. 3.4% of 2019 Refunding Bond	47,397	0%	-			
	Crozet Interceptor 2.3% of 2019 and 13.8% of 2018	371,939	0%	-			
	Schenks Branch Agreement 16.1% of 2019, 2.1% of 2010A, and 100% of 2015A Bonds	316,114	100%	316,114	2,440,835	4,479,871	
<i>Four Party Rate</i>							
	Regional System Projects 3.9% of 2019 Refunding Bond	54,181	N/A	16,184			
	Crozet Interceptor 0.7% of 2019 Refunding Bond	10,796	N/A	3,225			
	Facilities Purchase 1.4% of 2019 Refunding Bond	19,774	N/A	5,907	25,316	84,751	
	Moore's Creek Relief IS, Pt 1 0.3% of 2019 Refunding Bond	4,496	30%	1,349	1,349	4,496	
DEBT SERVICE PROJECTED FROM 5-YEAR CIP							
	CIP Growth Charge from 2022-2026 CIP	1,398,600	Fixed	703,900	703,900	1,398,600	
	Debt Service Coverage Ratio / Policy Charge	325,000	51%	165,750	165,750	325,000	
Total		\$ 9,339,509		\$ 4,738,675	\$ 4,738,675		

ACSA Allocation of Debt Service Costs		Estimated Debt Service Budget FY 2024	ACSA %	ACSA Amount			
ALLOCATION BASED ON FLOWS							
<i>System Projects Rate</i>							
	22.9% of 2015B Bond Refunding	\$ 362,895	54%	\$ 195,963			
	100% 2005A Bond VRA/VRLF	150,976	54%	81,527			
	88.5% of 2009A Bond VRA/VRLF	1,419,716	54%	766,647			
	37.9% of 2011 A,B Bond VRA/VRLF	192,130	54%	103,750			
	24.5% of 2019 Refunding Bond	345,323	54%	186,474			
	100% of 2016 Bond	626,328	54%	338,217			
	6.3% of 2021 Bond	91,435	54%	49,375			
	2.4% of 2018 Bond	54,328	54%	29,337	1,751,290		
<i>Revenues/Reserves that offset Debt Service</i>							
	County MOU - Septage	(109,440)	54%	(59,098)			
	Use of Reserves	-	54%	-			
	Trust Fund Interest	(86,900)	54%	(46,926)	(106,024)		
ALLOCATION BASED ON FIXED AGREEMENTS							
<i>2014 Wastewater Agreement</i>							
	Meadowcreek 97.9% of 2010A and 10.9% of 2019 Bonds	1,096,179	Segments	387,404			
	Wet Weather MCWWTP 11.5% of 2009A and 62.1% of 2011 A/B Bonds	499,293	Segments	229,155			
	Moore's Creek Pump Stn. 100% of 2011 D/E Bond	296,945	Segments	112,395			
	Rivanna Pump Stn. & F.M. 5.8% of 2019 and 100% of 2014A Bonds	1,852,004	Segments	890,746			
	Albemarle Berkley Pump Stn. 3.4% of 2019 Refunding Bond	47,397	100%	47,397			
	Crozet Interceptor 2.3% of 2019 and 13.8% of 2018	371,939	100%	371,939			
	Schenks Branch Agreement 16.1% of 2019, 2.1% of 2010A, and 100% of 2015A Bonds	316,114	0%	-	2,039,036		
<i>Four Party Rate</i>							
	Regional System Projects 3.9% of 2019 Refunding Bond	54,181	N/A	37,997			
	Crozet Interceptor 0.7% of 2019 Refunding Bond	10,796	N/A	7,571			
	Facilities Purchase 1.4% of 2019 Refunding Bond	19,774	N/A	13,867	59,435		
	Moore's Creek Relief IS, Pt 1 0.3% of 2019 Refunding Bond	4,496	70%	3,147	3,147		
DEBT SERVICE PROJECTED FROM 5-YEAR CIP							
	CIP Growth Charge from 2022-2026 CIP	1,398,600	Fixed	694,700	694,700		
	Debt Service Coverage Ratio / Policy Charge	325,000	49%	159,250	159,250		
Total		\$ 9,339,509		\$ 4,600,834	\$ 4,600,834		

SUMMARY OF DEBT SERVICE REVENUES:			
CITY SHARE OF TOTAL DEBT SERVICE	\$	4,738,675	51%
ACSA SHARE OF TOTAL DEBT SERVICE		4,600,834	49%
	\$	9,339,509	100%

OTHER RATE CENTERS DEBT SERVICE RATES

Summary of Debt Service Payments Due

	Existing Estimated Debt Service Budget FY 2024	FY 2023	Estimated New Debt Service	ACSA Monthly Rate
<u>WATER</u>				
<u>Crozet Water</u>				
System Upgrades				
13.9% of 2019 Refunding Bond	\$ 194,567	\$ 193,615		
17.0% of 2012A Bond (new money)	-	-		
7.4% of 2015B Bond Refunding	117,267	117,151		
5.9% of 2015B Bond New Projects	99,665	99,739		
35.7% of 2018 Bond	805,226	806,775		
Estimated DS - CIP Growth Charge	1,182,500	944,500	\$ 238,000	
Revenues that offset Debt Service				
Use of Reserves	-	-		
Trust Fund Interest	(13,500)	(80)	-	
	\$ 2,385,725	\$ 2,161,700	\$ 238,000	\$ 198,810
<u>Scottsville Water</u>				
System Upgrades				
3.4% of 2019 Refunding Bond	\$ 47,871	\$ 47,636		
4.2% of 2012A Bond (new money)	-	-		
2.7% of 2015B Bond Refunding	42,787	42,744		
2.1% of 2015B Bond New Projects	35,474	35,500		
1.2% of 2021 Bond	22,859	22,846		
Estimated DS - CIP Growth Charge	11,400	1,589	\$ 9,811	
Revenues that offset Debt Service				
Trust Fund Interest	(1,650)	(10)	-	
	\$ 158,741	\$ 150,305	\$ 9,811	\$ 13,228
<u>WASTEWATER</u>				
<u>Glenmore Wastewater</u>				
System Upgrades				
0.1% of 2015B Bond Refunding	\$ 1,585	\$ 1,583		
0.9% of 2021 Bond	17,144	17,134		
Estimated DS - CIP Growth Charge	4,150	1,761	\$ 2,389	
Revenues that offset Debt Service	-	-		
Trust Fund Interest	(200)	-	-	
	\$ 22,679	\$ 20,478	\$ 2,389	\$ 1,890
<u>Scottsville Wastewater</u>				
Facilities Purchase				
0.3% of 2012A Refunding Bond	\$ -	\$ -		
System Upgrades				
0.3% of 2019 Refunding Bond	4,302	4,281		
0.2% of 2015B Bond Refunding	3,169	3,166		
Estimated DS - CIP Growth Charge	11,250	2,667	\$ 8,583	
Revenues that offset Debt Service				
Trust Fund Interest	(80)	-	-	
	\$ 18,641	\$ 10,114	\$ 8,583	\$ 1,553
TOTAL	\$ 2,585,786	\$ 2,342,597	\$ 258,783	\$ 215,481

DEBT SUMMARY

	Total Revenue Bond Debt	Total FY 2024 Debt Service
CURRENT EXISTING DEBT		
DEBT BY BOND ISSUE		
2005 A Bond VRA/VRLF	\$ 513,970	\$ 150,976
2009A Bond	10,846,476	1,604,199
2010A Bond	6,659,817	962,522
2011A Bond	3,444,297	443,608
2011B Bond	491,723	63,332
2011D,E Bond	2,429,132	296,944
2012A Bond (refunding & new money)	-	-
2012B Bond	19,975,000	1,341,706
2014A Bond	20,599,190	1,770,751
2015A Bond	885,327	70,593
2015B Bond (refunding & new money)	34,115,000	3,273,928
2016 Bond	7,476,000	626,328
2018 Bond	34,430,000	2,254,271
2019 Bond	17,060,000	1,404,895
2021 Bond	36,335,000	1,904,888
	\$ 195,260,932	\$ 16,168,944

Ratio of Debt Service / Total Debt 8.3%

PRINCIPAL AND INTEREST PAYMENTS BY CENTER - Annual

Urban Water	\$ 6,964,779
Crozet Water	1,216,725
Scottsville Water	148,991
Urban Wastewater	7,812,249
Glenmore Wastewater	18,729
Scottsville Wastewater	7,471
	\$ 16,168,944

Stone Robinson School WWTP Estimated Charges

		Total	Monthly
Expenses			
Fixed Costs			
	Wages	\$ 5,353	
	Benefits	2,370	
	Mileage	900	
	Subtotal	\$ 8,623	
	Overhead at 35%	3,018	
	Total Fixed Charge	\$ 11,641	
Variable Costs			
	Sludge hauls from digester	\$ 1,575	
	Belts oil etc.	1,000	
	Chemicals	2,500	
	Subtotal	\$ 5,075	
	Overhead at 35%	551	
	Total Variable Charge	\$ 5,626	
	Total Annual Charge Estimate	\$ 17,267	\$ 1,439

All Rate Centers

Detailed Summary of Revenues

	FY 2023	FY 2024	\$ Change	% Change
<u>OPERATIONS</u>				
Operations Rate Revenues	\$ 20,614,425	\$ 22,727,003	\$ 2,112,578	10.25%
Other Operations Revenues				
Interest Allocation	\$ 7,170	\$ 47,250	\$ 40,080	559.00%
Stone Robinson WWTP	39,036	17,267	(21,769)	-55.77%
Septage/Sludge Acceptance	500,000	550,000	50,000	10.00%
Leases	85,000	124,000	39,000	45.88%
Administration	656,000	781,000	125,000	19.05%
Nutrient Credits	100,000	80,000	(20,000)	-20.00%
Use of Reserves	150,000	80,000	(70,000)	-46.67%
Miscellaneous	-	-	-	
	\$ 1,537,206	\$ 1,679,517	\$ 142,311	9.26%
Total Operations Revenues	\$ 22,151,631	\$ 24,406,520	\$ 2,254,889	10.18%
<u>DEBT SERVICE</u>				
Debt Service Rate Revenues				
City	\$ 7,609,606	\$ 8,425,075	\$ 815,469	10.72%
ACSA	11,913,323	13,693,985	1,780,662	14.95%
	\$ 19,522,929	\$ 22,119,060	\$ 2,596,131	13.30%
Other Debt Service Revenues				
Interest	65,220	1,059,730	994,510	1524.85%
County MOU - Septage	109,440	109,440	-	0.00%
Leases	1,600	1,600	-	0.00%
	\$ 176,260	\$ 1,170,770	\$ 994,510	564.23%
Total Debt Service Revenues	\$ 19,699,189	\$ 23,289,830	\$ 3,590,641	18.23%
Total Revenues	\$ 41,850,820	\$ 47,696,350	\$ 5,845,530	13.97%
<i>Reserves used as revenues offset</i>	<i>\$ 150,000</i>	<i>\$ 80,000</i>	<i>\$ (70,000)</i>	<i>-147%</i>
<i>Actual Revenues</i>	<i>41,700,820</i>	<i>47,616,350</i>	<i>5,915,530</i>	

**Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail**

Authority as a Whole

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 7,157,250	\$ 3,703,759	\$ 7,407,518	\$ 8,133,800	\$ 976,550	13.64%
11010	Overtime Pay	302,650	154,035	308,070	283,500	(19,150)	-6.33%
12010	FICA	570,681	278,618	557,236	643,922	73,241	12.83%
12020	Health Insurance	1,440,000	625,722	1,251,444	1,446,550	6,550	0.45%
12026	Employee Assistance Program	1,470	817	1,634	1,605	135	9.18%
12030	Retirement	600,493	304,717	609,434	682,427	81,934	13.64%
12040	Life Insurance	85,170	47,007	94,014	96,793	11,623	13.65%
12050	Fitness Program	11,650	5,666	11,332	11,600	(50)	-0.43%
12060	Worker's Comp Insurance	101,200	69,376	92,500	101,200	-	0.00%
	Subtotal	\$ 10,270,564	\$ 5,189,717	\$ 10,333,182	\$ 11,401,397	\$ 1,130,833	11.01%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 11,680	\$ 4,930	\$ 12,666	\$ 12,800	\$ 1,120	9.59%
13150	Education & Training	100,280	35,572	101,144	91,200	(9,080)	-9.05%
13200	Travel & Lodging	24,850	8,911	17,822	19,650	(5,200)	-20.93%
13250	Uniforms	61,480	27,325	54,650	66,675	5,195	8.45%
13325	Recruiting & Medical Testing	8,270	4,301	8,602	10,470	2,200	26.60%
13350	Other	17,600	14,284	28,568	22,900	5,300	30.11%
	Subtotal	\$ 224,160	\$ 95,323	\$ 223,452	\$ 223,695	\$ (465)	-0.21%
20100	Professional Services						
20100	Legal Fees	\$ 80,000	\$ 23,489	\$ 96,978	\$ 69,000	\$ (11,000)	-13.75%
20200	Financial & Admin. Services	60,000	6,343	52,686	58,950	(1,050)	-1.75%
20250	Bond Issue Costs	-	-	-	-	-	0.00%
20300	Engineering & Technical Services	489,900	310,775	621,550	339,900	(150,000)	-30.62%
	Subtotal	\$ 629,900	\$ 340,607	\$ 771,214	\$ 467,850	\$ (162,050)	-25.73%
21100	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 125,700	\$ 110,296	\$ 147,060	\$ 161,800	\$ 36,100	28.72%
21150	Advertising & Communication	15,200	10,946	21,892	18,200	3,000	19.74%
21250	Watershed Management	50,000	38,134	76,268	71,000	21,000	42.00%
21253	Safety Programs/Supplies	103,180	54,534	109,068	118,765	15,585	15.10%
21300	Authority Dues/Permits/Fees	112,500	59,972	127,944	104,900	(7,600)	-6.76%
21350	Laboratory Analysis	80,030	52,200	104,400	86,909	6,879	8.60%
21400	Utilities	1,611,650	896,418	1,704,836	1,629,225	17,575	1.09%
21420	General Other Services	1,236,700	652,546	1,305,092	1,261,656	24,956	2.02%
21430	Governance & Strategic Support	90,000	37,714	75,428	25,000	(65,000)	-72.22%
21450	Bad Debt	2,500	-	-	2,500	-	-
	Subtotal	\$ 3,427,460	\$ 1,912,760	\$ 3,671,988	\$ 3,479,955	\$ 52,495	1.53%
22000	Communication						
22100	Radio	\$ 18,200	\$ 16,005	\$ 32,010	\$ 13,250	\$ (4,950)	-27.20%
22150	Telephone & Data Service	123,300	90,144	165,288	147,600	24,300	19.71%
22200	Cell Phones, Wireless data	58,842	21,404	47,808	60,590	1,748	2.97%
	Subtotal	\$ 200,342	\$ 127,553	\$ 245,106	\$ 221,440	\$ 21,098	10.53%
31000	Information Technology						
31100	Computer Hardware	\$ 109,500	\$ 137,645	\$ 275,290	\$ 215,000	\$ 105,500	96.35%
31150	SCADA Maint. & Support	265,245	215,764	381,528	305,475	40,230	15.17%
31200	Maintenance & Support Services	249,300	322,544	545,088	227,700	(21,600)	-8.66%
31250	Software & Subscriptions	70,181	20,709	41,418	320,300	250,119	356.39%
31300	Security Systems	50,300	144	8,288	153,700	103,400	205.57%
31325	Asset Mgt / Project Mgt Systems	72,100	-	-	47,400	(24,700)	-34.26%
	Subtotal	\$ 816,626	\$ 696,806	\$ 1,243,324	\$ 1,269,575	\$ 452,949	55.47%
33000	Supplies						
33100	Office Supplies	\$ 26,000	\$ 15,178	\$ 30,356	\$ 30,000	\$ 4,000	15.38%
33150	Subscriptions/Reference Material	1,900	1,296	2,592	1,700	(200)	-10.53%
33350	Postage & Delivery	12,050	7,165	14,330	14,600	2,550	21.16%
	Subtotal	\$ 39,950	\$ 23,639	\$ 47,278	\$ 46,300	\$ 6,350	15.89%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 458,160	\$ 180,268	\$ 437,134	\$ 453,240	\$ (4,920)	-1.07%
41150	Building/land Lease, Rental	181,800	178,925	182,850	183,100	1,300	0.72%
41300	Dam Maintenance	125,200	60,833	121,666	95,200	(30,000)	-23.96%
41350	Pipeline/Appurtenances	221,800	59,280	138,560	149,000	(72,800)	-32.82%
41400	Materials, Supplies & Tools	184,750	160,832	321,664	201,000	16,250	8.80%
41450	Chemicals	2,360,696	1,476,574	3,433,148	3,029,488	668,792	28.33%
41500	Vehicle Maintenance	80,100	30,235	60,470	77,450	(2,650)	-3.31%
41550	Equipment Repair, Replace, Maint.	900,800	538,812	1,107,624	1,100,750	199,950	22.20%
41600	Instrumentation	402,525	50,202	297,404	462,575	60,050	14.92%

**Rivanna Water and Sewer Authority
Fiscal Year 2023-2024 Proposed Budget
Expense Detail**

Authority as a Whole

Object Code	Line Item	Adopted Budget FY 2022-2023	Current Year Activity		Proposed Budget FY 2023-2024	2023	2023
			Six Month Actual 12/31/2022	Projected Year end 6/30/2023		vs. 2024 Variance \$	vs. 2024 Variance %
41650	Fuel & Lubricants	99,550	45,881	129,892	110,800	11,250	11.30%
41700	General Other Maintenance	207,150	64,559	129,118	173,205	(33,945)	-16.39%
Subtotal		\$ 5,222,531	\$ 2,846,401	\$ 6,359,530	\$ 6,035,808	\$ 813,277	15.57%
81000	Equipment Purchases						
81200	Rental & Leases	\$ 27,000	\$ 2,521	\$ 5,042	\$ 1,000	\$ (26,000)	-96.30%
81250	Equipment (over \$10,000)	150,000	-	-	70,000	(80,000)	-53.33%
81300	Vehicle Replacement Fund	243,100	121,550	243,100	274,500	31,400	12.92%
Subtotal		\$ 420,100	\$ 124,071	\$ 248,142	\$ 345,500	\$ (74,600)	-17.76%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	-
95300	Engineering Allocation	-	-	-	-	-	-
95150	Maintenance Allocation	-	-	-	-	-	-
95200	Laboratory Allocation	-	-	-	-	-	-
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	-
Depreciation		\$ 900,000	\$ 450,000	\$ 900,000	\$ 915,000	\$ 15,000	1.67%
Subtotal		\$ 900,000	\$ 450,000	\$ 900,000	\$ 915,000	\$ 15,000	1.67%
Total		\$ 22,151,633	\$ 11,806,877	\$ 24,043,216	\$ 24,406,520	\$ 2,254,887	10.18%

Audit Check	
Less revenue allocation in Admin.	(781,000)
Less revenue allocation in Maint.	-
Less revenue allocation in Eng.	-
Detail Check on Expenses	\$ 23,625,520
Total Summary Sheet Rate Center Only	\$ 23,625,523

Roughly \$2.2 is target increase

RWSA Staffing by Department

	Approved Positions FY 2023	Changes	Requested Positions FY 2024
OPERATIONS			
<u>Engineering & Maintenance</u>			
Director of Engineering & Maintenance	1		1
Engineering Department			
Engineering Manager	1		1
Asset Management Coordinator	1		1
Senior Civil, Civil Engineers	5		5
Water Resources Manager	1		1
Engineering Technician/Inspector	4	1	5
Administrative Office Technician	1		1
(Director FTE included) Subtotal	14	1	15
Maintenance Department			
Maintenance Manager	1		1
Asst. Maintenance Manager	1		1
Mechanics	10		10
Industrial Controls/Instrumentation Specialist	1		1
Vehicle Equipment Mechanic	1		1
Mechanic Helper	1		1
Maintenance Workers	1		1
Subtotal	16		16
<u>Operations</u>			
Director of Operations	1		1
Laboratory			
Laboratory Manager	1		1
Chemist	3		3
Subtotal	4		4
Wastewater Department			
Wastewater Manager	1		1
Wastewater Assistant Manager	1		1
Treatment Supervisor	1		1
Plant Operators (14 total)			
Operators - Relief Shift Differential all plants	2		2
Operators - Urban	9		9
Operator - Glenmore	1		1
Operator - Scottsville	1		1
Subtotal	16	0	16
Water Department			
Water Manager	1		1
Water Assistant Manager	1		1
Water Quality Specialist	1		1
Water Treatment Plant Supervisor	2		2
Plant Operators			
Operators - Relief Shift Differential all plants	3		3

RWSA Staffing by Department

	Approved Positions FY 2023	Changes	Requested Positions FY 2024
OPERATIONS			
Operators - Urban	14.6		14.6
Operators - Crozet	2.4	-0.4	2
Operators - Scottsville	1.4		1.4
Subtotal	26.4	-0.4	26
Subtotal	77.4	0.6	78

Joint Administrative Staff

				FTE Split		
				RWSA	SWA	
Executive Director	1		1	0.85	0.15	1.00
Director of Administration	0	1	1	0.80	0.20	1.00
Executive Coordinator	1		1	0.60	0.40	1.00
Director of Finance	1		1	0.80	0.20	1.00
Finance Manager	0	1	1	0.80	0.20	1.00
Office/HR Manager	1		1	0.80	0.20	1.00
Senior Accountant	1		1	0.80	0.20	1.00
Accounting Associate	1		1	0.80	0.20	1.00
Payroll & Benefits Coordinator	1		1	0.75	0.25	1.00
Accounts Payable/Purchasing Technician	1		1	0.75	0.25	1.00
Accounts Receivable Technician	1		1	0.30	0.70	1.00
Administrative Assistant	1		1	0.75	0.25	1.00
Business System Analyst	1		1	0.70	0.30	1.00
Safety Manager	1		1	0.70	0.30	1.00
IT/SCADA						
Information Systems Administrator - Core	1		1	0.60	0.40	1.00
Information Systems Administrator - ERP	1		1	0.80	0.20	1.00
Information Systems Administrator - Operation	1		1	1.00	0.00	1.00
Information Systems Asst. Administrator - Core	1		1	0.60	0.40	1.00
GIS Coordinator	1		1	1.00	0.00	1.00
IT Manager	1		1	0.80	0.20	1.00
IT Systems Analyst - Operations	0	1	1	0.80	0.20	1.00
IT Systems Analyst - ERP/Core	1		1	0.80	0.20	1.00

Administration and allocation with RSWA	19	3	22	16.60	5.40	22.00
Total all positions	96.40	3.60	100.00			
FTE Position Allocated to RSWA	-4.30		-5.40			
Total Adjusted FTEs	92.10		94.60			



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**RESOLUTION
TO ADOPT THE PRELIMINARY RATE SCHEDULE
FOR FISCAL YEAR 2023-2024
BY THE RIVANNA WATER AND SEWER AUTHORITY**

WHEREAS, the Rivanna Water and Sewer Authority Board of Directors has reviewed the proposed budget and associated rates for Fiscal Year 2023-2024; and

WHEREAS, Section 15.2-5136 (G) of the Code of Virginia requires the adoption of the Preliminary Rate Schedule for notification of a public hearing prior to fixing rates for water and sewer charges; of which there is a 14-day requirement between the date of the last of two public notices and the actual date fixed for the public hearing.

NOW, THEREFORE, BE IT RESOLVED that the Rivanna Water and Sewer Authority hereby adopts the accompanying Preliminary Rate Schedule for the purpose of notification of a public hearing to be held on May 23, 2023 at 2:15 p.m. during the regularly scheduled Board of Directors meeting.

Preliminary Rate Schedule

Water Rates & Charges

Urban Area

ACSA & City	Operating	\$ 2,949	Per 1,000 gallons
City	Debt Service	\$ 307,200	Per month
ACSA	Debt Service	\$ 542,282	Per month

Crozet

ACSA	Operating	\$ 102,896	Per month
ACSA	Debt Service	\$ 198,810	Per month

Scottsville

ACSA	Operating	\$ 54,705	Per month
ACSA	Debt Service	\$ 13,228	Per month

Wastewater Rates & Charges

Urban Area

ACSA & City	Operating	\$ 2,922	Per 1,000 gallons
City	Debt Service	\$ 394,890	Per month
ACSA	Debt Service	\$ 383,403	Per month

Glenmore

ACSA	Operating	\$ 43,493	Per month
ACSA	Debt Service	\$ 1,890	Per month

Scottsville

ACSA	Operating	\$ 32,016	Per month
ACSA	Debt Service	\$ 1,553	Per month



**RIVANNA WATER & SEWER AUTHORITY
PUBLIC HEARING CONCERNING THE
PRELIMINARY RATE SCHEDULE FOR FY 2023 - 2024, EFFECTIVE JULY 1, 2023**

Public Hearing:

Rivanna Water & Sewer Authority will hold a public hearing on Tuesday, May 23, 2023, at 2:15 p.m. during the regular Rivanna Water & Sewer Authority Board of Directors meeting. The purpose of the public hearing is to consider the following wholesale water and wastewater rates and charges to the City of Charlottesville and the Albemarle County Service Authority, to be effective July 1, 2023. Adopted rates may or may not be what are advertised.

Preliminary Rate Schedule

<u>Water Rates & Charges</u>				
<u>Urban Area</u>				
ACSA & City	Operating	\$ 2,949	Per 1,000 gallons	
City	Debt Service	\$ 307,200	Per month	
ACSA	Debt Service	\$ 542,282	Per month	

<u>Crozet</u>				
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<u>Scottsville</u>				
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ACSA	Debt Service	\$ 1,553	Per month	

The Rivanna Water & Sewer Authority (Rivanna) was created by the City of Charlottesville (City) and the County of Albemarle to supply and treat water for drinking and to provide wastewater treatment. The above fees represent Rivanna's fees and charges to the City and the Albemarle County Service Authority (ACSA) for these services and are not the same as the City and ACSA charges to individual residents and businesses. Debt Service covers capital related project costs and are different for the City and ACSA reflecting terms of contractual agreements.

The City and the ACSA distribute drinking water and collect wastewater from individual residents and businesses and charge retail rates that combine charges from the above schedule to reflect their service costs, including Rivanna's costs.

Information about the proposed budget may be obtained on the Rivanna website at www.rivanna.org. Please call 977-2970 ext. 0 or send e-mail to info@rivanna.org with any questions you may have.