




Board of Directors Meeting


March 22, 2022


2:15pm



695 Moores Creek Lane | Charlottesville, Virginia 22902-9016

434.977.2970 

434.293.8858 

www.rivanna.org 

BOARD OF DIRECTORS

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

DATE: March 22, 2022

LOCATION: Virtually via ZOOM

TIME: 2:15 p.m.

AGENDA

- 1. CALL TO ORDER**
- 2. STATEMENT FROM THE CHAIR**
- 3. MINUTES OF PREVIOUS BOARD MEETING**
 - a. Minutes of Regular Board Meeting on February 22, 2022*
- 4. RECOGNITION**
- 5. EXECUTIVE DIRECTOR'S REPORT**
- 6. ITEMS FROM THE PUBLIC**
- 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. Staff Drought Monitoring Report*
- 9. OTHER BUSINESS**
 - a. Presentation: Northern Urban Area Utilities Update; Jennifer Whitaker, Director of Engineering and Maintenance*
 - b. Presentation and Public Hearing: Approval of Buck Mtn Management Plan; Bill Mawyer, Executive Director*

- c. Presentation and Approval: Introduction of the FY 2022 - 2023 Operating Budget and Adoption of the Preliminary Rate Schedule for Public Hearing; Bill Mawyer, Executive Director*

10. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA

11. CLOSED MEETING

12. ADJOURNMENT

GUIDELINES FOR PUBLIC COMMENT AT VIRTUAL RIVANNA BOARD OF DIRECTORS MEETINGS

If you wish to address the Rivanna Board of Directors during the time allocated for public comment, please use the “chat” feature in the Zoom Meeting interface.

Members of the public who submit comments will be recognized during the specific time designated on the meeting agenda for “Items From The Public.” The comment(s) will be read aloud to the Board of Directors only during this agenda item, so comments must be received prior to the end of this agenda item. The comments will be read by the Rivanna Authority’s Executive Coordinator/Clerk of the Board.

Members of the public requesting to speak will be recognized during the specific time designated on the meeting agenda for “Items From The Public.” 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.

If you would like to submit a comment, please keep in mind that Board of Directors meetings are formal proceedings and all comments are recorded on tape. In order to give all who wish to submit a comment proper respect and courtesy, the Board requests that commenter follow the following guidelines:

- Submit your comment prior to the start of or during the “Items from the Public” section of the Agenda.
- In your comment, state your full name and address and your organizational affiliation if commenting 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;
- Be respectful and civil in all interactions at Board meetings;
- 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 commenters 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 Administration office upon request or can be viewed on the Rivanna website.

Rev. May 20, 2020

CALL TO ORDER

STATEMENT OF CHAIR TO OPEN MEETING

This is Mike Gaffney, Chair of the Rivanna Water and Sewer Authority.

I would like to call the March 22, 2022 meeting of the Board of Directors to order.

Notwithstanding any provision in our Bylaws to the contrary, as permitted under the City of Charlottesville's Continuity of Government Ordinance adopted on March 25, 2020, Albemarle County's Continuity of Government Ordinance adopted on April 15th, 2020, and revised effective October 1, 2020 and Chapter 1283 of the 2020 Acts of the Virginia Assembly effective April 24, 2020, we are holding this meeting by real time electronic means with no board member physically present at a single, central location.

All board members are participating electronically. This meeting is being held pursuant to the second resolution of the City's Continuity of Government Ordinance and Section 6 of the County's revised Continuity of Government Ordinance. All board members will identify themselves and state their physical location by electronic means during the roll call which we will hold next. I note for the record that the public has real time audio-visual access to this meeting over Zoom as provided in the lawfully posted meeting notice and real time audio access over telephone, which is also contained in the notice. The public is always invited to send questions, comments, and suggestions to the Board through Bill Mawyer, the Authority's Executive Director, at any time.

ROLL CALL:

Ms. Hildebrand: Please state your full name and location.

Ms. Mallek: Please state your full name and location.

Mr. O'Connell: Please state your full name and location.

Mr. Pinkston: Please state your full name and location.

Mr. Richardson: Please state your full name and location.

Mr. Rogers: Please state your full name and location.

And I am Mike Gaffney, located at _____.

Joining us today electronically are the follow Authority staff members and consultants:

Bill Mawyer, Lonnie Wood, David Tungate, Jennifer Whitaker, John Hull, Jeff Southworth, Deborah Anama, and Attorney Valerie Long (Williams Mullen).

We are also joined electronically by Carrie Stanton, counsel to the Authority.



RWSA BOARD OF DIRECTORS
Minutes of Regular Meeting
February 22, 2022

A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on Tuesday, February 22, 2022 at 2:15 p.m. via Zoom.

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

Board Members Absent: none.

Rivanna Staff Present: Bill Mawyer, Lonnie Wood, Deborah Anama, Andrea Bowles, David Tungate, John Hull, Jennifer Whitaker.

Attorney(s) Present: Carrie Stanton, Valerie Long.

1. CALL TO ORDER

Mr. Gaffney called the February 22, 2022, regular meeting of the Rivanna Water and Sewer Authority to order at 2:16 p.m.

2. STATEMENT FROM THE CHAIR

Mr. Gaffney read the following statement aloud:

“This is Mike Gaffney, Chair of the Rivanna Water and Sewer Authority. I would like to call the February 22, 2022 meeting of the Board of Directors to order.

“Notwithstanding any provision in our Bylaws to the contrary, as permitted under the City of Charlottesville’s Continuity of Government Ordinance adopted on March 25, 2020, Albemarle County’s Continuity of Government Ordinance adopted on April 15th, 2020, and revised effective October 1, 2020 and Chapter 1283 of the 2020 Acts of the Virginia Assembly effective April 24, 2020, we are holding this meeting by real time electronic means with no board member physically present at a single, central location.

“All board members are participating electronically. This meeting is being held pursuant to the second resolution of the City’s Continuity of Government Ordinance and Section 6 of the County’s revised Continuity of Government Ordinance. All board members will identify themselves and state their physical location by electronic means during the roll call which we will hold next. I note for the record that the public has real time audio-visual access to this meeting over Zoom as provided in the lawfully posted meeting notice and real time audio access over telephone, which is also contained in the notice. The public is always invited to send questions, comments, and suggestions to the Board through Bill Mawyer, the Authority’s Executive Director, at any time.”

Mr. Gaffney called the roll.

Ms. Lauren Hildebrand stated she was located at 305 4th Street Northwest in Charlottesville, VA.

Ms. Ann Mallek stated she was located at 4826 Advanced Mills Road in Earlysville.

Mr. Gary O'Connell stated he was located at the ACSA headquarters at 168 Spotnap Road.

Mr. Brian Pinkston stated he was located at 1108 St. Charles Court in Charlottesville, VA.

Mr. Jeff Richardson stated he was located at the County Office Building at 401 McIntire Road in Charlottesville.

Mr. Michael Rogers stated he was located at Charlottesville City Hall on Main Street in Charlottesville.

Mr. Mike Gaffney stated he was located at 3180 Dundee Road in Earlysville, VA.

Mr. Gaffney stated the following Authority staff members and consultants were joining the meeting electronically: Bill Mawyer, Lonnie Wood, David Tungate, Jennifer Whitaker, John Hull, Andrea Bowles, Deborah Anama, and attorney Valerie Long of Williams Mullen.

Mr. Gaffney stated they were also joined electronically by Ms. Carrie Stanton, Counsel to the Authority.

3. MINUTES OF PREVIOUS BOARD MEETING

a. Minutes of Regular Board Meeting on January 25, 2022

Mr. Gaffney asked if there were any comments, questions, or changes to the board minutes and heard none.

Mr. Richardson moved that the board approve the minutes of the January 25, 2022 meeting. The motion was seconded by Ms. Mallek and passed unanimously (7-0).

4. RECOGNITIONS

There were no recognitions.

5. EXECUTIVE DIRECTOR'S REPORT

Mr. Mawyer stated he wanted to recognize and welcome Mr. Michael Rogers, Interim City Manager, to the group. He stated he had an opportunity to talk with Mr. Rogers that morning and give him a quick orientation to the world of the Rivanna Water and Sewer Authority as well as the Rivanna Solid Waste Authority. He stated it was a pleasure to talk with Mr. Rogers, and he welcomes him to the team.

Mr. Rogers thanked Mr. Mawyer.

Mr. Mawyer stated further, he wanted to recognize a RWSA employee, Ms. Carrie Wingo, who achieved a Class II Water Operator license. He stated this is a test Ms. Wingo had to pass

93 through the state, and this is a part of the “grow our own” program. He stated Ms. Wingo started
94 with RWSA about a year ago as an unlicensed water operator and within less than a year, she has
95 moved up to Class II. He stated the progression through these licenses starts with Class IV with
96 advancements to Class I. it is IV, then III, then II, with only Class I to go. He stated Ms. Wingo
97 is a graduate civil engineer from the University of Virginia, and she has her Engineering-In-
98 Training certification. He stated RWSA is pleased to have Ms. Wingo and congratulates her on
99 improving her Water Operator credentials.

100
101 Mr. Mawyer stated RWSA was fortunate to hire Mr. Jeff Southworth to be its new Information
102 Technology Manager. He stated Mr. Southworth comes to RWSA from the Roanoke area, where
103 he had over 20 years of experience in managing corporate IT systems. He welcomed Mr.
104 Southworth to the group.

105
106 Mr. Mawyer stated one of RWSA’s Strategic Plan goals is to optimize all of its programs and
107 facilities. He stated they started almost four years ago optimizing the water treatment corrosion
108 inhibitor product used. He stated this is a product that RWSA and most utilities use in their water
109 treatment process to prohibit metals and lead from leaching out of pipes and plumbing fixtures
110 into the drinking water. He stated about four years ago, RWSA started a benchtop lab study with
111 a consultant to change from a polyphosphate to an orthophosphate product, which is a more
112 current treatment application.

113
114 Mr. Mawyer stated RWSA studied this for quite a while with a consultant and over the last 22
115 months, they have been in a process of converting all their water treatment plants from using a
116 polyphosphate to an orthophosphate product. He stated this has been a transitional process, in
117 which the water operators started with a 85%-ortho/15%-poly mix for one year at each plant and
118 then switched to 100% orthophosphate.

119
120 Mr. Mawyer stated during a treatment change like this one, there is sometimes an issue where
121 water discoloration can occur, and it can stain laundry. He stated RWSA was pleased, however,
122 that they received no complaints or concerns from any issues in transitioning to this new water
123 treatment product. He clarified they never had any lead or metals problem before, but are pleased
124 they are now using an orthophosphate product that is contemporary across the industry.

125
126 Mr. Mawyer stated on a slightly less positive note, as the board would recall, RWSA built the
127 Rivanna Sewer Pump Station, which was opened in 2017, and they were required by the Virginia
128 DEQ to have an emergency power generator for that facility. He stated it was inspected and
129 approved by DEQ; however, it was not added to an air control permit that RWSA has for the
130 emergency power generators located at Moores Creek, and they received a proposed consent
131 order and fine for not doing so.

132
133 Mr. Mawyer stated there were no environmental impacts from this generator, as it was purely an
134 administrative issue of not having this on their list of emergency power generators. He stated
135 they have added it since then, and they have been working with DEQ. He stated Mr. Henry
136 “Speaker” Pollard from Williams Mullen is now leading the discussion on this with DEQ.

137
138 Mr. Mawyer stated Rivanna reviewed the upcoming FY 23 Operating Budget with Ms.

Hildebrand and Mr. O'Connell the week prior, and the budget totals \$41.8 million. He stated this will be presented to the full board next month.

Mr. Mawyer stated Rivanna continues to work on infrastructure and master planning for the South Rivanna to Ragged Mountain Reservoir Water Line Project.

Mr. Mawyer stated as they mentioned last month, they are getting the light fixtures replaced at Moores Creek with the correct fixtures in order to meet the Albemarle County lighting ordinance requirements without exceeding them and spreading light into the neighborhood. He stated they hope to have this completed in the next 3-6 months.

Mr. Mawyer stated another project that has been creating discussion is the Central Water Line Project. He stated under Rivanna's Strategic Plan goal of communication and collaboration, they have presented the project to City Council, the RWSA Board, and the Land Use and Environmental Planning Committee (which includes UVA, UVA Foundation, and representatives from the City and County). With this information and the recommended route, they are now ready to go to the neighborhoods along the route and talk to them about what is envisioned for this project.

Mr. Mawyer stated there is a meeting scheduled with the Fry's Spring neighborhood on March 9. He stated on February 21, Rivanna received an email from Councilor Payne asking them to give a presentation to the Fifeville neighborhood. He stated Rivanna is working with Ms. Hildebrand and her staff, and they will give presentations to any of the neighborhoods along the route who would like a presentation.

Mr. Mawyer stated there was information in the newspaper that week about whether there is enough water supply for the proposed rezoning at the UVA Foundation's research park on 29 North. He stated when he does the CIP presentation, he would have pictures and graphs, and he would be able to talk more with the board about that issue.

Mr. Mawyer concluded his report and offered to answer any questions.

Mr. Gaffney asked if there were comments or questions for Mr. Mawyer.

Mr. Pinkston stated with regard to the DEQ piece and the generator, he knows these things happen in terms of keeping up with the administrative side of things. He asked if controls have been put in place to prevent this from happening.

Mr. Mawyer replied yes. He stated a document management system has been implemented that will alarm and give Rivanna notice when they need to update permits. He stated this raised their awareness that while DEQ told Rivanna they had all the permits and that they could start operating the wastewater pump station, in Rivanna's minds, DEQ did not communicate with their own air pollution control group in DEQ, nor Rivanna, to advise them to add this to Rivanna's generator list. He stated while this does not excuse Rivanna, they wish that DEQ had used the opportunities they had to make Rivanna aware of getting the new generator on the air pollution control permit list. He stated Rivanna self-reported this, and DEQ did not catch them

doing anything wrong. He stated Rivanna told DEQ that it had been omitted from the report and that they would correct it, which they did.

6. ITEMS FROM THE PUBLIC

Mr. Gaffney opened the meeting to the public.

Mr. Hull stated there were three people with comments.

Mr. Matthew Lucas (1966 Buck Mountain Road, Free Union, VA) stated his residence abuts to the Buck Mountain Reservoir, and that he wanted to make three points. He stated he wanted to thank Mr. Mawyer and Ms. Bowles for working with the Free Union community as they addressed the Buck Mountain Reservoir. He stated they were thoughtful, listened to concerns, and made an effort to find solutions. He stated he did not think they had to do that, but he certainly appreciated it and believed that they neighbors did, too.

Mr. Lucas stated Mr. Bruce Bateman would talk about the Elliot House, and that he would second the position Mr. Bateman would make.

Mr. Lucas stated he wanted to talk about the proposed boundary line adjustment at his house. He stated he presented on this to the board about one year ago and several times over the past 15 years. He stated the board may recall that his farm was originally 100 acres. He stated the RWSA condemned about 60 acres back in the early 1980s for the reservoir, and that condemnation was one of two parcels that was not voluntary. He stated the division of property at the time was based on the water lines at the height of the water, and this is not what one would do for another purpose. He stated this made sense at the time because it was a larger project, but now, it has switched to phases of property management.

Mr. Lucas stated he has been asking the Authority to do a boundary line adjustment. He stated to be clear, this is not a subdivision nor the creation of a new lot. He stated this is truly an adjustment between his parcel and the adjacent lot that the Authority had condemned to clean up the boundary line. He stated specifically, he is looking to clean up what he is counting as 13 different zigs and zags, into one clean line. He stated some of these are small angles, but it is still a mess. He stated Mr. Mawyer and Ms. Bowles worked with him to finally clean his, which he sincerely appreciates because the boundary backs right up to his barn and outbuildings, and it just does not fit the nature of the property.

Mr. Lucas stated he wanted to emphasize a couple of points. He stated the first is that this adjustment has no development utility. He stated there is no road frontage or public access, as it is mostly low-lying land. He stated he also wanted to emphasize that this is truly conservation land, and his house is from the early 1800s (likely the 1820s). He stated he has put his heart and soul into thoughtfully restoring this property, and it will end up on a historic registry, which he has to do.

Mr. Lucas stated the farm land he owns is in conservation easement with Albemarle County. He stated the County is selective and only takes on properties they deem important and in the interest of citizens, so this is an important property.

231
232 Mr. Lucas stated in summary, he thinks the proposed boundary line adjustment is a win for
233 everyone. He stated it is a win for water, as there will be no development. He stated it is a win
234 for the community. He stated it enhances the easement, the viewshed, the history of the property,
235 and the area. He stated he thinks it is a win for the environment, noting he has planted hundreds
236 of trees, he keeps bees, and he keeps invasive species at bay without any pesticides. He stated he
237 hopes the board will support the proposal.

238
239 Mr. Bruce Bateman (1933 Buck Mountain Road) stated he looked at the board's agenda and
240 appreciated their time, adding that they had a massive amount of business and that he would not
241 take much of their time. He stated he would like to speak about two things.

242
243 Mr. Bateman stated he represents the interest of nine property owners in the vicinity of Buck
244 Mountain Creek, living on Buck Mountain Road and Catterton Road, for which the board would
245 see supporting documents in front of them. He stated the point of his speech was two-fold, with
246 one point being that he thinks the Elliot House deserves consideration for restoration because it
247 is part of the rural character of the area. He stated he knows this presents some challenges, but he
248 thinks preserving and restoring the house would be useful.

249
250 Mr. Bateman stated secondly, he knows there had been consideration to sell 2 acres of land that
251 is across Buck Mountain Road from the Elliott House adjacent to his property. He stated he and
252 his wife bought their property in 1986 from the then Water Authority, with the expectation that
253 they would have complete privacy and be water-fronting one day with the reservoir. He stated of
254 course, no one was to foresee this spiny mussel issue, which is where they find themselves today.

255
256 Mr. Bateman stated if a house was placed in the 2 acres across Buck Mountain Road from the
257 Elliot House, adjoining their property, it would affect their privacy and would also affect the
258 rural character of Free Union in a way that they would not favor.

259
260 Mr. Bateman thanked the board for their time and service.

261
262 Mr. Steve Blaine stated he was speaking on behalf of his clients, Mr. and Mrs. Hefner, who own
263 property adjacent to the Buck Mountain Reservoir. He stated they would echo the comments
264 made by others. He stated they appreciate the time and energy that the staff has spent, and they
265 have met with Mr. Mawyer and Ms. Mallek, who had been out to the farm.

266
267 Mr. Blaine stated his clients would be very interested in purchasing, if not leasing, adjacent
268 property to preserve and protect the environment. He stated what they are trying to create at their
269 farm (which includes a vineyard) what is called a "terratorium," which is a holistic, biodiverse
270 approach to sustainable farming. He stated their interest is very much in protecting the
271 environment and farming approach to their vineyard.

272
273 Mr. Blaine stated his clients would follow the recommendations and follow up with the
274 appropriate officials at the Authority to pursue their interest in the adjoining properties.

Mr. Gaffney closed Items from the Public.

7. RESPONSES TO PUBLIC COMMENT

Mr. Gaffney asked Mr. Mawyer if he had any responses.

Mr. Mawyer stated it had been a pleasure to meet Mr. Lucas, Dr. Bateman, Mr. Blaine, and the Hefner Family and to take a look at their concerns and suggestions relative to the Buck Mountain Property. He stated as best as they could, Rivanna has tried to accommodate some of their desires in Rivanna's plans. He stated they still may have a ways to go strategically and working out the Virginia Public Procurement requirements on how they lease and consider sales of property. He stated they have all been good to work with and hopefully, Rivanna will find solutions that accommodate everyone's desires.

Mr. Gaffney stated he knew there would be a presentation on the Buck Mountain Property, and they would have a discussion at that point further on in the meeting. He asked if any board members had comments they wanted to make on this topic in response to Items From the Public.

Ms. Mallek stated she wanted to thank the staff and neighbors, noting that the Buck Mountain territory is very challenging. She stated Buck Mountain Creek can flash up between 10 to 20 feet higher than it is on a regular day when there is heavy rain. She stated she thinks everyone's attention is very well-focused on the preservation of the water quality, adding that Buck Mountain Creek descends directly into the South Fork Reservoir. She stated she is grateful for the work done so far, and she will look forward to more details later.

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. Award Construction Contract and Amend Capital Improvement Plan – MCAWRRF
Electrical Infrastructure Improvements – Pyramid Electrical Contractors, LLC*

*f. Award Construction Contract and Amend Capital Improvement Plan – Scottsville WTP
Lagoon Liners Replacement – Haren Construction Company*

*g. Award Construction Contract – FY 22-23 Sanitary Sewer Rehabilitation Contract -
Insituform Technologies, LLC*

320
321 *h. Award Term Contract for Professional Engineering Services - Sewer Evaluation,*
322 *Rehabilitation, and Repairs; Frazier Engineering*
323

324 Mr. Gaffney asked the board if there were any items on the consent agenda they wished to speak
325 to or ask questions about.
326

327 Ms. Mallek stated she was confused as to whether her question was on the consent agenda or if it
328 was for later. She asked if the nutrient crest, urban wastewater, and pages of budget items were
329 included in the consent agenda, or if this would be a discussion for later.
330

331 Mr. Mawyer stated this would be later.
332

333 Ms. Mallek stated she would wait.
334

335 Mr. Gaffney asked if there were other questions about the consent agenda.
336

337 Mr. Pinkston stated this was an informational piece for his own edification and he was happy to
338 talk about it afterwards as well. He asked in terms of Term contracts for engineering services, if
339 Rivanna typically has a list of those that they rotate through, or if the term contract is being
340 awarded to a single procurement.
341

342 Mr. Mawyer replied that this is a single procurement for a specific purpose (sewer line
343 rehabilitation). He stated Rivanna does have an inventory of consultants on term contracts for
344 different specialties such as water treatment and wastewater treatment. He stated they have
345 several term contracts, and they are for a one-year term, and are renewable for four additional
346 years. He stated they do not rotate consultants every year but periodically, they do rotate. He
347 stated the contract on the consent agenda today reached the end of its term and therefore,
348 Rivanna is re-procuring it.
349

350 Mr. Gaffney stated he did want to make one comment on the consent agenda. He stated there are
351 a number of construction contract awards, and he knows this has confused board members in the
352 past. He stated all of these projects are in the Capital Improvement Plan and budget, and this is
353 just bringing them up individually for award. He stated this is not increasing the budget except
354 where explained in the actual memorandum.
355

356
357 **Mr. O'Connell moved that the board approve the Consent Agenda. Ms. Hildebrand**
358 **seconded the motion, which passed unanimously (7-0).**
359

360
361 **9. OTHER BUSINESS**
362

363 *a. Presentation and Approval: Buck Mountain Property Management Update; Andrea Bowles,*
364 *Water Resources Manager*
365

366 Ms. Andrea Bowles, Water Resources Manager for Rivanna, stated she has been involved in
367 managing the Buck Mountain property for as long as she has been involved with Rivanna, which
368 is about 14 years. She stated she wanted to reiterate what Ms. Mallek stated – that it is a tricky
369 prospect, as there are lots of interests and considerations to consider. She stated this is part of
370 Rivanna’s responsibility and why herself, Mr. Mawyer, and other staff are always happy to hear
371 from the public. She thanked Mr. Lucas and Mr. Bateman for their attendance.

372
373 Ms. Bowles stated she would start off by orienting new members and by reminding longer term
374 members about the project. She presented a map of Albemarle County, noting that the red circle
375 was the location of the Buck Mountain property. She stated the property is about 1,300 acres and
376 is upstream of the South Fork Rivanna Reservoir (seen on the map just below the red circle). She
377 stated it is located north of the City and in a very rural area.

378
379 Ms. Bowles stated she would review some of the history of the Buck Mountain property, talk
380 about the Buck Mountain Master Plan that was completed in 2020 by a local firm called LPDA
381 (Land Planning and Design Associates), and talk about some of the property management topics
382 and issues on which that Rivanna has been consulting and working with their consultant. She
383 stated these topics include the Elliot House (which was mentioned during comments from the
384 public), the boundary adjustment and sale of approximately 14 acres that Mr. Lucas mentioned,
385 existing and new leases, a pond that Rivanna owns on the property, and the Allen Farm Lane and
386 Bridge that was brought up to the board in the past.

387
388 Ms. Bowles presented a zoomed-in picture of the 1,300 acres of Buck Mountain property. She
389 stated Buck Mountain Road (Route 665) cuts straight across the property. She stated Route 667
390 (Catterton Road) goes from Buck Mountain Road to the north endpoint indicated on the map.
391 She stated the Elliot House is located at the red dot on the map. She indicated the location of the
392 pond. She stated the bridge is located in the northern part, on Allen Farm Lane.

393
394 Ms. Bowles stated she would talk about the property in general. She stated Rivanna acquired 38
395 parcels in the Buck Mountain Creek Watershed in 1984 to 1987. She stated there were two
396 parcels that were taken through condemnation, as Mr. Lucas suggested, and the rest of them were
397 bought by Rivanna to build the reservoir. She stated Rivanna purchased 1,150 acres with
398 agreement of the sellers, and two condemnations at a total of about 150 acres.

399
400 Ms. Bowles stated the parcels range from 1 to 160 acres in size. She stated the total acreage is
401 1,314. She stated the property cost the Authority about \$6.95 million.

402
403 Ms. Bowles stated what eventually stopped the project from proceeding was that a street survey
404 showed the presence of the James spinymussel, which is a state and federally listed endangered
405 species. She stated any development of a dam and flooding would impact that species, so a
406 reservoir could not be built there.

407
408 Ms. Bowles stated Rivanna has held the land since that time, and after the property was bought,
409 much of it was leased back to people who were the original owners, as well as to others. She
410 stated Rivanna has continued the leasing program and is thankful for the use of the land by

leasees as they help police the property. She stated it is a large area, and it is difficult for Rivanna to monitor.

Ms. Bowles stated when Rivanna built the Ragged Mountain Reservoir in 2014, they had impacts to streams and wetlands that needed to be mitigated. She stated they looked for a large piece of land (i.e., Buck Mountain) that they could do some stream restoration and buffer enhancements. She stated the upper picture on the screen showed where they put in slope rocks to help hold the stream in place and provide stability to help with the water quality of the area.

Ms. Bowles stated regarding the buffer enhancement, Rivanna preserved about 600 acres along 80,000 linear feet of streams. She stated they planted 93 acres with over 40,500 trees. She stated they then placed the buffer areas in deed restrictions.

Ms. Bowles stated that the master plan was completed in 2020 to support Rivanna's Strategic Plan goals. She stated it was an evaluation of the uses of the property with respect to the vision, mission, and values of Rivanna. She stated environmental stewardship plays a part as well as operational optimization, the efficient use of resources, infrastructure and master planning, and what they will do with the property in the future.

Ms. Bowles stated one topic she wanted to address was the Elliot House. She presented a picture of the house, noting that the house was built in the late 19th century and had some additions in 1905. She stated it likely had other restoration to it since that time. She stated as one could see in the picture, the house was not in good shape. She stated part of the ceiling is falling, and there is black mold in different areas.

Ms. Bowles stated Rivanna has been in touch with the Virginia Department of Historic Resources, which sent a letter to state that the house is a valuable resource that should be preserved, if feasible. She stated she and Mr. Mawyer reached out to VDHR to have a discussion and find out exactly what this means. She stated what they found out is that the Elliot House is a historic resource because it is older than 50 years. She stated it is not in Rivanna's mission to preserve structures or lease a house. She stated they used to lease it, but this stopped in 2011.

Ms. Bowles stated there are currently security issues, with a break-in back in December where Rivanna had to have the police and maintenance staff come to board up the house.

Ms. Bowles stated there were a couple of options to present to the board. She stated the first was to consider selling a 2.2-acre parcel with the house, which is estimated by LPDA to be worth about \$325,000. She stated they feel that this option would provide the best opportunity for preservation, and with it not being Rivanna's mission to do this that hopefully, putting it out for public procurement would help the right person to come along who would want to restore it.

Ms. Bowles stated they also have the option of demolishing the house and retaining the property.

Ms. Bowles stated Rivanna worked with a surveyor, Roger Ray and Associates, to parse off part of the parcel. She stated the entire parcel that the house sits on is 9 acres, and as shown in the area in red on the map, a 2.2-acre lot (along with the house) could be put up for sale. She stated

457 this does not include any of the deed-restricted area, nor the stream in the back of the property.
458 She stated all the hatch-marked area in the back on the map would remain under Rivanna's
459 ownership.

460
461 Ms. Bowles stated with respect to the proposed sale of the property, looking at the map, the
462 parcels outlined in white are those that are owned by Mr. Lucas. She stated the parcel behind it
463 (29-36A) is the one that he is interested in having a boundary line adjustment for. She stated the
464 dark line on the map that runs across (29-36A) is where the new boundary would be if this were
465 to go through. She stated the hatched area on the map is the part of the parcel that Mr. Lucas
466 would like to purchase. She stated he has stated that the purpose is to provide a buffer to current
467 parcels and conserve the 14 acres.

468
469 Ms. Bowles pointed out that the funds from these sales would support the Buck Mountain
470 property maintenance expenses, which she would discuss in more detail later.

471
472 Ms. Bowles stated one thing staff has talked with the board about in the past is offering up new
473 leases. She stated that for a long time, Rivanna has not opened any of the property for additional
474 leasing. She stated they have done some analysis and feel that they will start small by bringing
475 the four parcels in white on the map into consideration for the issuing of a two-year lease. She
476 stated it is about 106 wooded acres, noting that all of these parcels are land-locked, with the
477 exception of 29-35D. She stated Rivanna feels that it would need to be leased as a group, and
478 whoever leases it could enter the parcels from 29-35D off the public road.

479
480 Ms. Bowles stated Rivanna is in the process of renewing existing leases. She stated as some
481 board members may recall, when LPDA did their study, they determined that Rivanna was not
482 offering lease rates at market value and that the rates should be increased. She stated that on the
483 map, the blue parcels are leased, and the gold parcels are not leased. She stated the parcels that
484 are currently leased were leased at the rate of \$10 for pasture, \$3 for forested, and \$0 for deed-
485 restricted area. She stated this resulted in an annual revenue of \$1,900.

486
487 Ms. Bowles stated the new lease rates come from what was recommended by LPDA. She stated
488 LPDA gave them a range, and the rates shown in the right-hand column on the screen are those
489 that Rivanna wants to use now. She stated they are also including an administrative fee to help
490 with the personnel costs involved with managing the leases. She stated this would raise the
491 overall annual revenue to approximately \$8,500.

492
493 Ms. Bowles stated one of the issues she wanted to bring up is the pond that is owned by Rivanna.
494 She stated the map shown earlier shows the pond as being in the northwestern section of
495 Rivanna's property. She stated Rivanna needs to get an up-to-date operating certificate for the
496 dam itself, which will involve some required studies, and it has to be authorized through the VA
497 Department of Conservation and Recreation. She stated Rivanna feels that the pond is a liability
498 for them, and it requires regular maintenance, mowing, and clearing out of the outlet structure.

499
500 Ms. Bowles stated what Rivanna plans to do with this is complete the DCR-required studies they
501 need of the dam. She stated this has an estimated cost of \$50,000 or more. She stated any sale of
502 property would help to fund this type of maintenance.

Ms. Bowles stated in the future, Rivanna would like to work with the previous landowner to consider exchange of the pond for an access easement across her property, down to some of the lower lands by Piney Creek so that these can be accessed when needed.

Ms. Bowles stated the last topic was property management of the Allen Farm Lane and Bridge. She stated this is a concrete structure that goes over the very upper part of Buck Mountain Creek that Rivanna owns. She stated all of the residents along the road (about 20, perhaps) use this bridge, and they have spoken to staff at length about their concerns. She stated Rivanna had a legal analysis done to find out whether the residents have the right to use the bridge, and it concluded that they do have a prescriptive easement to use the road and bridge.

Ms. Bowles stated after the mitigation plan has been deemed compliant by DEQ (which should happen in 2024), Rivanna would plan to offer land and the bridge for sale to the public.

Ms. Bowles stated that staff were requesting the board to authorize the Executive Director and staff to proceed with legal, financial, and procurement processes to offer the 2.2-acre parcel and Elliot House for sale, offer about 14 acres for sale to an adjacent neighbor, offer a 2-year lease for the new properties put up, and renew 2-year property leases at the new market rate with all of the existing leaseholders.

Ms. Bowles asked the board if there were questions.

Ms. Mallek asked what the process was of validating the value of the Elliot House as provided. She stated this will require an equal amount in addition to fix it up, and she wants to make sure they are not raising expectations on the part of the board that it will bring in a quarter of a million dollars when this may be completely unachievable.

Ms. Bowles replied this was a number that was put out by LPDA, who based it on regional costs. She stated this is definitely something to look into in more detail to see exactly what they should be expecting on the sale. She stated this was the most recent estimate they had.

Ms. Mallek stated this was from one source, then, and not compared to appraised value and the like, so this was a beginning point.

Ms. Bowles agreed, it was from one source.

Ms. Mallek stated everything between the Elliot House and Buck Mountain Creek is almost vertical, and she wants to make sure that the property line proposed is up on the flat so that the new owner, whoever it may be, does not have access to any of the vertical slope and be able to strip it of its trees, which are preventing it from eroding. She asked Ms. Bowles to help her with that detail.

Ms. Bowles presented the map. She agreed that at the eastern edge, it does start to get very steep. She stated there is another parcel adjacent to that before it gets to Buck Mountain Road, and she believes that when Mr. Brian Ray did this plat, he picked the most reasonable area for a house.

549 She stated staff would look at this to see if the increase in slope was closer than she thought it
550 was.

551
552 Ms. Mallek stated that on the map, it looked as if the red line was at the street, and it clearly
553 needs to be back quite a ways if keeping the slope undisturbed. She stated she wanted to point
554 this out for future work.

555
556 Ms. Mallek stated regarding the leases, she is all in favor of updating the cost of leases, as
557 farmers who use it to bale and for graze land pay almost nothing for it, which carries through
558 with a lot of other mismanagement. She stated she is grateful that Rivanna is digging into this.

559
560 Ms. Mallek stated there was a comment about how access to the land-locked parcels would have
561 to be provided to the public through some adjacent property. She asked Ms. Bowles if she could
562 go over this again.

563
564 Ms. Bowles stated Parcels 29-33F, 29-33C, and 29-36A do not have any access to a public road.
565 She stated Parcel 29-35D does, so Rivanna proposes to offer all four of these parcels as a group
566 to allow for someone to access the other three parcels through 29-35D. She stated they need to
567 either let them cross over Rivanna property, unless it is an adjacent landowner (like some of
568 those who are interested) to access it from their own property.

569
570 Ms. Mallek stated it was then not necessarily going to someone who would then be coming in off
571 of Catterton Road.

572
573 Mr. Mawyer clarified they would be coming in off Buck Mountain Road. He stated 29-35D has
574 frontage on Buck Mountain Road, which gives them public road access, and then access to the
575 other three parcels from that point.

576
577 Ms. Mallek stated she did not realize that the parcel that had the white house on it now was
578 owned by Rivanna. She stated this, then, is the access point.

579
580 Ms. Bowles asked Ms. Mallek if she was saying there was a house on 29-35D.

581
582 Ms. Mallek stated it could be the wrong parcel from her looking at it.

583
584 Ms. Bowles stated she knew where it was. She stated it is on the small blue triangular parcel.

585
586 Ms. Mallek stated the driveway to the Elliot House was still to the east of this.

587
588 Ms. Bowles stated yes and that it was two parcels to the east.

589
590 Ms. Mallek stated the access to Allen Farm Lane would be the same thing, albeit they were
591 talking about this being in the future. She stated she is glad Rivanna is considering doing a
592 decent bridge because having every UPS truck going through the stream every day is a disgrace.
593 She stated as someone who is in the business of clean water, the fastest they can get this to stop,
594 the better off they are. She stated this creek used to be a very high-quality stream and had some

595 of the best rankings in the County through the DEQ and Stream Watch. She stated the last time
596 she was there, it had been degraded quite a bit. She stated she is very grateful they are looking at
597 this.

598
599 Mr. Pinkston asked to return to the list of recommendations at the end of the presentation. He
600 stated he had a couple of general questions. He stated it did not sound like anything Rivanna was
601 proposing would go against the stated values of RWSA in terms of maintaining whatever
602 waterflows in place while changing these leases and doing the other things that were noted. He
603 asked if their considered opinion was that there would be no deleterious impacts by these
604 requested actions.

605
606 Ms. Bowles stated this was correct.

607
608 Mr. Pinkston stated he personally thinks that whatever liabilities they can excise themselves from
609 – particularly the old house – make a lot of sense. He stated he did not see anything on the
610 requested action list about the pond or the bridge.

611
612 Ms. Bowles replied that these are for future decisions, and Rivanna is just presenting some
613 information about what their plans for the future are at this time. She stated much more research
614 needs to be done to look into this, so they were not asking the board to make any decisions about
615 these properties at this time.

616
617 Mr. Gaffney stated he was not sure he understood some of the comments about the dam and
618 bridge. He stated he knew this was early and that the matter would evolve over time. He asked if
619 they were thinking about exchanging the pond site with a property owner after they do the DCR-
620 required studies, but before anything happens to the dam, and they leave the property owner to
621 repair the dam.

622
623 Ms. Bowles replied that Rivanna is currently on track to do the studies that are necessary to find
624 out what they need to do with the dam. She stated they are taking these first steps so they can
625 better identify the requirements.

626
627 Mr. Mawyer stated they would determine what the extent of the repairs might be and then, they
628 will incorporate this thinking into a strategy, whether it is a sale or an exchange and who will
629 complete the repairs.

630
631 Mr. Gaffney stated he had a similar question regarding Allen Farm Lane and Bridge. He asked if
632 they are looking at potentially selling off a chunk of that property in the northern part, which
633 includes the bridge, and if they are selling it to a future homeowner with a division right and
634 giving them the responsibility to improve the bridge, or if this is something Rivanna will study to
635 see if they can perhaps sell the lot with a division right and use this money to pay for a new
636 bridge.

637
638 Mr. Mawyer replied that Rivanna would like to not own the bridge and be responsible for any
639 cost to repair it. He stated the strategy is to carve off enough of an attractive parcel to encourage
640 someone to purchase the parcel and the bridge. He reminded the board this is several years into

the future, and they are not sure exactly how large this parcel would be, but it will be probably 10 or more acres to make it worthwhile for someone to take on the bridge.

Mr. Mawyer stated the bridge is a challenge because as Ms. Bowles explained, it is a private road, Allen Farm Lane, that crosses a bridge that Rivanna owns, but they cannot stop people from using the road or the bridge. He stated they have been researching with Williams Mullen on any kind of solution as to how they can transfer the bridge to another party. He stated the strategy at the moment is to carve off enough property to make it attractive so that someone would take on the bridge and own the property. He stated they are not planning to consider the sale of this property until they are finished with Virginia DEQ requirements including the invasive species monitoring in the deed-restricted area, which will be until 2024.

Ms. Bowles added that Rivanna has had two structural inspections of the bridge – one in 2005, and one in the past three years. She stated the bridge is structurally sound, and there are only minor repairs needed.

Mr. Mawyer stated there is no imminent failure of the bridge, but it will eventually need maintenance.

Mr. Gaffney stated it could also need a new bridge.

Mr. Mawyer stated this was correct. He stated it does not have any guardrails, and the water level (as Ms. Mallek mentioned) rises rapidly from time to time. He stated they have concerns about the bridge on Allen Farm Lane, but other than selling it, they have not found any existing agreement which transfers this responsibility to anyone else.

Mr. Mawyer asked Ms. Long if she had anything to add to the discussion, noting that she had done all the research on the legal issues.

Ms. Long stated she did not have anything to add. She stated the presentation covered the topic well. She noted her recollection and understanding is that the bridge was already in place when the Authority acquired the property. She stated it was not that they put the bridge in place. She stated replacing the bridge will be a challenge financially, given the topography of the area and the fact that it goes over a creek and some sensitive areas. She stated otherwise, everything was covered.

Mr. Mawyer stated one item of note is that for Rivanna to sell any property, they need to get an agreement from their bond trustees, as Mr. Lonnie Wood (Finance Director) recently reminded him. He stated this is why the transfers and offerings for sale will not happen immediately if the board decides to approve them. He stated there are other steps to work through before that process starts.

Mr. O'Connell stated he wanted to thank the staff for their ongoing efforts. He stated he was not sure how many times they had been before the board, but it was numerous in addition to working with the community members who have a wide variety of opinions about this property. He stated he appreciated all the efforts.

687
688 Mr. O'Connell stated he had a question about the house itself. He asked how they structure a
689 procurement so that it is an incentive for a renovation and not just a sale. He asked if there is a
690 way to legally do this.

691
692 Ms. Long replied that the Authority has the discretion to add or create any terms of the sale that
693 it deems appropriate. She stated it could, for example, require as a condition of any contract that
694 the house be restored, maintained, or at least not demolished.

695
696 Ms. Mallek stated she thinks one possible condition is that they need to be aware of the price put
697 on it to make it possible for someone to restore it.

698
699 Ms. Mallek stated going back to Allen Farm Lane, the picture in the presentation showed a very
700 nice bridge, which looks expensive and is much bigger than the one that she put in on her farm
701 for \$30,000 after the flood in 2018. She stated the biggest environmental crisis is the fact that
702 there is a sign there that tells drivers of vehicles over the size of a Prius to drive through the
703 stream. She stated there must be a way to make this stop, and she was not sure if there were other
704 options. She stated there is an end to Catterton Road coming off of Free Union Road that could
705 be a way for truckdrivers to come down that way to bring packages to people.

706
707 Ms. Mallek stated she hoped Rivanna would put their minds to that question and figure out
708 another way in the next shorter time period to stop this constant diversion down the sluiceway
709 seen in the picture. She stated dozens of big trucks go through this stream every day.

710
711 Ms. Hildebrand stated she believed Mr. Lucas addressed the proposed sale of the 14 acres and
712 mentioned that the current boundary had a lot of nooks and crannies that he was trying to
713 straighten out and yet, she was curious as to how the picture on the slide matched up.

714
715 She stated if Rivanna moves forward with this, the first thing they will do is survey.

716
717 Mr. Mawyer stated Mr. Lucas was talking about his current property boundary with all the turns.

718
719 Mr. Gaffney stated the existing property line looks like a snake.

720
721 Ms. Bowles stated the black part on the upper side of the hatched area would be the new property
722 line. She stated the white line just below it is Mr. Lucas' current boundary to the back of his four
723 or five parcels. She asked if this was clear.

724
725 Ms. Hildebrand replied yes.

726
727 Mr. Mawyer stated that as Ms. Bowles mentioned, Rivanna will have a surveyor work out the
728 exact new property line because they want to make sure they maintain an elevation for the
729 envisioned reservoir and not sell property that would be part of what was envisioned, in case the
730 reservoir would ever be constructed. He stated this is the concept of how they would make this
731 boundary line adjustment.

Ms. Hildebrand thanked staff, adding that she appreciates all their help with this as she knows this deals with many different people. She stated she could tell this was well thought out.

Mr. Gaffney stated there was a requested action authorizing the Executive Director and staff and asked if a board member would like to make a motion.

Ms. Mallek moved that the RWSA Board authorize the Executive Director to proceed with the legal, financial, and procurement processes as were shown. Mr. Richardson seconded the motion, which passed unanimously (7-0).

b. Presentation and Approval: Introduction of the FY 2023 – 2027 Capital Improvement Plan; Bill Mawyer, Executive Director

Mr. Mawyer stated as with most programs RWSA manages, they are guided by their Strategic Plan. The CIP is based on the Strategic Plan goal of Infrastructure and Master Planning, to plan, deliver, and maintain dependable infrastructure in a financially responsible manner. He stated this is how the five-year CIP is developed. He stated it includes 41 projects that total just over \$205 million. He stated it includes about \$122 million for the urban water program improvements, \$44 million to urban wastewater infrastructure, and \$38 million to non-urban (i.e., Scottsville, Glenmore, and other facilities). He stated they would finance this in small part with cash, and with new anticipated debt of \$123 million over the five years.

Mr. Mawyer stated there are a lot of assets that are managed by Rivanna, with five water supply reservoirs, six water treatment plants, four wastewater treatment plants, wastewater and water pump stations, 68 miles of major water piping, and 44 miles of major wastewater piping. He stated they diversify their portfolio with a stormwater impoundment at the Lickinghole Creek Basin. He presented a picture of the Moores Creek Wastewater Treatment Plant. Mr. Mawyer stated capital assets are \$390 million.

Mr. Mawyer stated in comparing this CIP to last year's, it is a \$33 million increase, and this is largely because FY 27 came into the rolling five-year CIP and added \$17.5 million. He stated there were budget increases, as well as some additional project costs added into the existing CIP totaling \$33 million. He stated they added one small project to help them transfer wastewater sludge from the thickeners to the digestors, as Rivanna felt this was important to complete in the near term. He stated they did close out or complete 10 projects totaling \$19.3 million. He stated these were the major changes from last year to the current proposed CIP.

Mr. Mawyer stated the goal was to keep the charge increases to the Service Authority and to the City consistent with what Rivanna forecasted last year, despite the significant cost increases from inflation that everyone is experiencing. He stated in order to do that, one of the few things Rivanna can do is to defer projects, in part or in whole. He stated they moved out 24 projects that were either in the existing CIP last year or proposed in the draft CIP for this year. He stated these were 24 projects totaling about \$17 million that Rivanna deferred in order to keep the charge increases similar to what they had predicted last year.

Mr. Mawyer stated the charge increases proposed to the City for the five years will be between 6.8% and 8.3%. He stated these charge increases to the Service Authority are estimated to be between 8.1% and 9.9% over the 5-year period, similar to the previously forecast charges, except

for FY27.

Mr. Mawyer stated the green line of data on the slide was an estimation that if they are able to get the Natural Resources Conservation Service federal grant for the Beaver Creek Reservoir Project, it will reduce the Service Authority's charges to what is shown in green. He stated this will be good news, and Rivanna is optimistic they will receive the grant for Rivanna and ACSA.

Mr. Mawyer stated regarding Rivanna's 20-year history, one could see a trend. He stated \$205 million would be the highest budget, although in 2013 at \$201 million and with time value of money, 2013 is the highest five-year CIP over the 20 year period. He stated they are on a trajectory to get projects completed since 2020, when they had a low of \$97 million. He stated they are trying to get the projects completed in a timely manner so they have adequate facilities for the community.

Mr. Mawyer stated in parallel, outstanding debt continues to grow. He stated Rivanna has \$204 million in debt now. He stated they make payments and debt comes down, but as they borrow every year or two, the debt goes up.

Mr. Mawyer stated looking with a longer lens, in the second five years, (FY28-32) Rivanna projects a \$145-million CIP. He stated the third five years (FY 33-37) is \$172 million, with a total over the next 15 years of \$523 million in 2022-level funding. He stated this is a significant CIP, but the mission of Rivanna is to provide the major water and wastewater infrastructure for the City and the County, which is what the CIP represents.

Mr. Mawyer stated there are major programs of upgrading the water treatment plants. He stated Rivanna looks for reliability and redundancy in many of their projects. He stated they then have operations, maintenance, and safety projects totaling \$18 million over the next five years. He stated regulations drive many of the projects, to keep wastewater in the pipe with the flow equalization tank under construction in Crozet, improving the amount of water that they can pass across the Beaver Creek Dam through the spillway is a major project, capacity to make sure there is enough water for the community, as well as maintaining the wastewater piping system. He stated he would later mention a project to renovate and expand the administrative building at Moores Creek.

Mr. Mawyer stated the majority of the large projects are from the Community Water Supply Program. He stated Rivanna continues to renovate the South Rivanna and Observatory Water Treatment Plants, and those should be completed in 2023. He stated the Ragged Mountain Reservoir water line needs to be replaced so that they can convey untreated water from the largest reservoir, Ragged Mountain, to the Observatory Treatment Plant.

Mr. Mawyer stated the Central Water Line is a major treated water distribution pipe that is needed to get more water out of the Observatory Treatment Plant and to strengthen the water infrastructure in the City as well as in the County.

Mr. Mawyer presented a map, noting that the purple line is the South Fork Rivanna Reservoir to Ragged Mountain Reservoir Pipeline, which will help Rivanna fill the Ragged Mountain

826 Reservoir. He stated lastly, Project #6 is to raise the water level in the Ragged Mountain
827 Reservoir.

828
829 Mr. Mawyer stated going back to his earlier comments, Rivanna received a proposal for a
830 rezoning at the UVA Research Park on 29 North, and Rivanna had spoken to the board in
831 December about the northern area utilities plan. He stated in general, there is about 12.8 mgd
832 available to them now with the water treatment infrastructure, and the community uses about
833 10.4 mgd, giving them a 2.4-mgd delta that they have to work within for growth. He stated when
834 Rivanna has a project at the UVAF Research Park, which is at the extreme boundary of the water
835 distribution infrastructure, and they require a full buildout with 0.5 mgd, this takes about 20% of
836 the available capacity.

837
838 Mr. Mawyer stated Rivanna plans for normal growth within the CIP, but with a rezoning (which
839 is a different level of density and adds a 0.5-mgd demand to the system), they have to look at this
840 within the timeline they have for these water supply projects which, as noted, would not be
841 completed until 2033. He stated they may be able to serve UVAF Research Park in a phased
842 development approach for building 1,400 units and other development. He stated there must be
843 raw water supply, finished water treatment, and finished water distribution in order to get water
844 to that location as well as to any customer in the City or County.

845
846 Mr. Mawyer stated the Authority and the community (through the Community Water Supply
847 Plan in 2012) approved creating a larger reservoir at Ragged Mountain, and the new dam has
848 been completed. He stated they know, however, that the watershed for Ragged Mountain is
849 insufficient and even now, water is piped to Ragged Mountain Reservoir from the Sugar Hollow
850 Reservoir. He stated the Community Water Supply Plan stated they needed to stop flowing water
851 from Sugar Hollow and pump it from South Rivanna to fill Ragged Mountain. He stated it was
852 decided 10 years ago that this would be part of the Community Water Supply Plan.

853
854 Mr. Mawyer stated they are in the process of acquiring all the easements, but as indicated in the
855 CIP, this essential water supply project would not be completed until 2033. He stated that on the
856 water treatment side, they are in good shape because the South Rivanna and Observatory WTP
857 renovations will be finished in a year or two. He stated then, they will need distribution of water
858 with the Central Water Line Project to help Rivanna get water out of Observatory WTP and
859 distributed throughout the urban system.

860
861 Mr. Mawyer stated when there is a drought and water stops flowing over the South Rivanna
862 Reservoir Dam, production is shifted from the South Rivanna WTP to the Observatory WTP. He
863 stated today, Rivanna makes about 8 mgd at the South Rivanna WTP and about 2 mgd at the
864 Observatory WTP, but when water stops flowing over the dam at the South Rivanna Reservoir,
865 production is shifted to more of a 50/50 split with 5 mgd or more produced at the Observatory
866 WTP. He stated when the Observatory renovation is completed, Rivanna will have the ability to
867 produce about 10 mgd at Observatory. He stated they must, however, be able to pipe it
868 throughout the urban system including to the northern perimeter of the water system where the
869 UVAF Research Park is located. Collectively, these water supply projects are critical to ensure
870 our community has enough drinking water during the next drought.

872 Mr. Mawyer stated they are currently building the Airport Road Pump Station, which will help
873 Rivanna convey water to the research park, NGIC, and the northern area. He stated they have a
874 holistic approach for infrastructure but it will be 11 years until it is completed. He stated
875 Rivanna's concern is if new projects come to the forefront through rezonings or other major
876 redevelopments that require millions of gallons of water, the timing of these projects must
877 coordinate with the timing of Rivanna's projects. He stated if development builds far in advance
878 of Rivanna making the infrastructure improvements, Rivanna could either not have enough water
879 for those projects or other projects located in the urban area.

880
881 Mr. Mawyer stated Rivanna is talking to the UVA Foundation about this issue now. He stated he
882 is sure this will be worked out, but this is a planning initiative that Rivanna talked to the board
883 about in December.

884
885 Mr. O'Connell asked what the timing is for the rezoning consideration and if it was actually
886 scheduled in front of the Planning Commission.

887
888 Ms. Whitaker replied that she believed it did have a schedule, but she did not know what this was
889 offhand. She stated given the number of comments that has come back on it, she thinks the
890 Foundation still has at least one, if not two, resubmittals to make to Albemarle County.

891
892 Mr. Mawyer stated he believed it was an official application for a rezoning, and Rivanna's
893 question back to them is about the timing is of them building 1,400 units.

894
895 Ms. Mallek stated back in the 1990s, she remembers the community went completely to pieces
896 when the project was first rezoned, calling for the use of 600,000 gallons per day. She stated first
897 of all, they did not have this, and then came the drought of record. She stated she hopes that
898 someone – whether Rivanna staff, County Planning staff, or UVA Foundation – will be able to
899 create a matrix that shows what they are using now and how it impacts the original 600,000, and
900 if the extra 0.5 mgd they are asking for is over and above the 600,000. She stated these are all
901 questions that there are no answers to yet, to her knowledge, and she looks forward to hearing
902 this.

903
904 Mr. Pinkston stated he would second Ms. Mallek's comments, which he believed were spot on.
905 He stated he supports the new affordable housing initiative that UVA wants to do. He stated he
906 thinks it is fantastic, and the timing that Mr. Mawyer mentioned is very important for the
907 Foundation to understand.

908
909 Mr. Pinkston stated his next question would perhaps be better discussed in another venue, but he
910 was interested in knowing what the incremental cost is to this system to be able to get water to
911 the new development. He stated he was not sure if this made sense, but if they have a pocket of
912 affordable housing that is a headline project and a wonderful thing UVA is doing north of the
913 City, and it requires a dedicated trunkline feed to that, he thinks understanding the cost of that is
914 important. He stated he knew Mr. Mawyer was not saying there is a network of piping and
915 pumping north of the Rivanna that would feed this, but clearly, they are talking about more than
916 just local distribution means to feed that development.

918 Mr. Pinkston stated he thinks the board needs to understand what those costs are and make sure
919 that this is understood by the Foundation. He stated this may be more of a question for a different
920 venue, but knowing the answer to that would be helpful.

921
922 Mr. Mawyer clarified that regarding the 1,400 units, his understanding is that a small percentage
923 of those will be designated for affordable housing, but the 1,500 affordable housing units
924 mentioned in the newspaper are in addition to most of the 1,400 proposed for the UVA Research
925 Park.

926
927 Mr. Mawyer stated Rivanna's message back in December was that there are a number of large
928 projects being talked about in the Urban Water System area and they are all good projects. He
929 stated Rivanna's role, however, is to make sure there is enough raw and treated water to serve
930 these projects. They have a plan to provide adequate capacity (supply, treatment, and
931 distribution) for projects that are envisioned within existing comprehensive plans and zonings.
932 He stated when those plans and zonings change, Rivanna's infrastructure plan has to change with
933 them.

934
935 Mr. Mawyer stated Rivanna's message is that they may have to do these projects sooner, which
936 may be a cost impact to the customers of the City and Service Authority which, if the board
937 recalls back in 2018 when they first talked about the project from Rivanna to Ragged and looked
938 at a number of schedule alternatives, everyone agreed that they were looking at a time when
939 Rivanna's bonding capacity created some availability to build that project without unduly
940 impacting the rates of the Service Authority and City.

941
942 Mr. Mawyer stated if one were to suggest speeding up the Rivanna-to-Ragged Pipeline a few
943 years so that instead of finishing in 2033, they could finish in 2030, when they roll the costs
944 forward in their charges, the rates he just showed the board will no longer be adequate, and those
945 charges would increase.

946
947 Ms. Mallek stated she wanted to jump back momentarily to things on the "postponed" list. She
948 stated she is hopeful that Rivanna is being very careful in assessing the current state affairs for
949 things like the water tanks that are not going to get their paint jobs inside. She stated the old story
950 goes, "For want of a nail, the kingdom is lost," and she wants to make sure they are doing
951 absolutely everything maintenance-wise up to date as needed so a structure like this would not
952 end up costing so much more.

953
954 Mr. Mawyer thanked Ms. Mallek. He stated he would offer that regarding the CIP next year,
955 there may be more discussion about deferring projects, and Rivanna may talk more with the
956 board about the balance between affordability and infrastructure maintenance. He stated this is
957 what Rivanna is trying to balance with Mr. O'Connell and Ms. Hildebrand, and they want to
958 make sure they are doing their part to provide and maintain the infrastructure our community
959 needs.

960
961 Mr. Mawyer stated that Rivanna is building the Airport Road Water Pump Station, which will
962 help convey water to the north, to Hollymead and the 29 North area. He stated this is currently
963 under construction.

964
965 Mr. Mawyer stated the board approved and awarded the construction contract to do major
966 electrical upgrades and replacements at Moores Creek.

967
968 Mr. Mawyer stated if Rivanna can get one more easement from UVA Foundation, they plan to
969 bid and start construction on part of the South Rivanna to Ragged Pipeline that will go from the
970 north end of Birdwood Golf Course, under Route 250 in between what used to be Piedmont
971 Tractor, and under Garth Road and the railroad track, to have this project under construction this
972 summer.

973
974 Mr. Mawyer stated the Beaver Creek Dam Pump Station and Piping Modifications is a huge
975 project in the program. Rivanna expects to build a labyrinth spillway with a bridge going across
976 it on Browns Gap Turnpike. He stated they have to move the raw water pump station and put in a
977 new raw water pipe from the pump station to the Crozet Water Treatment Plant. He stated this is
978 a huge project for which Rivanna is trying to get federal funding.

979
980 Mr. Mawyer stated to improve Rivanna's resiliency and redundancy, there is one pipe that goes
981 from the South Rivanna Water Treatment Plant to the north under the South Fork of the Rivanna
982 River, and they propose to add a second pipe to give them two pipes and more confidence in
983 their ability to get water north of the South Rivanna River. He stated that especially when the
984 North Rivanna Water Treatment Plant is decommissioned in the future, they must reliably get
985 water from the South Rivanna Water Treatment Plant to the northern area of the Urban System.

986
987 Mr. Mawyer stated they talked about the Central Water Line Project, and they continue to talk to
988 the community about that project. He stated the board had received a presentation about this
989 project in January.

990
991 Mr. Mawyer stated lastly, Rivanna is proposing a renovation and addition to their administration
992 building. He stated this project, which he calls their "tennis ball project," was in the CIP back in
993 2019, to be completed in 2023. He stated it then got pushed to 2026 and recently, it was pushed
994 to 2029. He stated Rivanna feels now, however, that there are extensive repairs needed for the
995 trailers, as the roofs leak, and the wooden structures in and around the trailers are about 15 years
996 old, as is the entire setup. He stated it has moved far past being a temporary setup. He stated the
997 main administration building has not been renovated to any significant degree since it was built
998 in the 1980s. He stated the IT room in the picture shown on the slide shows just how cluttered
999 and insufficient the IT Support spaces are. He stated the laboratory has not been renovated since
1000 it was built 40 years ago.

1001
1002 Mr. Mawyer stated Rivanna is proposing a 12,000-square-foot renovation and a 14,000-square-
1003 foot addition, in the lower parking lot, with a budget of \$8.5 million. He stated this project was
1004 moved back to a 2025 - 2026 completion timeframe to accommodate the needs that they have.

1005
1006 Mr. Mawyer stated the FY 23-27 CIP includes 41 projects with a total cost of about \$205
1007 million. He stated one could see on the slide the rate charge increases that Rivanna would need to
1008 charge to the City and Service Authority to support these projects.

1010 Mr. Mawyer noted that Rivanna is trying their best to get any of the federal funding the board
1011 reads or hears about. He stated they have requested funding from Albemarle County, and they
1012 are exploring other federal and state grants as best they can to try to get federal dollars to help
1013 with the infrastructure projects.

1014
1015 Mr. Mawyer asked if the board had any questions, adding that he was not asking the board to
1016 approve the plan today, as the presentation was only informational. He stated that in May, he will
1017 ask for approval for the operating and CIP budgets.

1018
1019 Ms. Mallek stated something for Mr. Mawyer to write on his list is that when they are doing the
1020 second crossing of the Rivanna, she assumes they are drilling underneath the river with the pipe.

1021
1022 Mr. Mawyer stated yes.

1023
1024 Ms. Mallek stated that on the north side of the river, between Rio Mills and the river, at least half
1025 of the land there is wetlands that is full of some threatened and rare salamanders that need the
1026 ponds that are there. She stated if they stay far enough to the west, closer to the bridge
1027 connection, the ponds are to the east, closer to the Route 29 bridge, and she did not want Rivanna
1028 to be surprised when they find this out later.

1029
1030 Mr. Mawyer thanked Ms. Mallek.

1031
1032 Mr. Pinkston asked if the rate increases would be year on year.

1033
1034 Mr. Mawyer replied yes. He stated they are charge increases, so there is a charge to the City and
1035 to the Service Authority, and this is what Rivanna estimates the percentage of the charge increase
1036 would be each year. He stated they try to predict five years so they have a vision of what is
1037 coming.

1038
1039 Mr. Pinkston asked if this is a component of the rate increase due to the CIP, or if this was the
1040 rate increase in total.

1041
1042 Mr. Mawyer replied this was the rate increase in total. He stated it includes the CIP and what
1043 Rivanna estimates their operating budget increases would be. He stated collectively, they
1044 combine those when they predict these charge increases.

1045
1046 Mr. Pinkston stated in FY 24, there would be a 7.2% increase on top of what happened in FY 23.

1047
1048 Mr. Mawyer stated this was correct. He stated each year, Rivanna considers their anticipated
1049 annual expenses and revenues and how to balance this equation. He stated as they add more
1050 construction projects and the bonding costs increase typically in the first few years, they almost
1051 always have an increase in the budget every year, largely from the CIP. He stated this expense is
1052 47% of the budget, to pay their debt service for these projects.

1053
1054 Mr. Pinkston stated he was sure if he were to look at some of the packets he has received, he
1055 would find a chart that tells him the rate of increase over the past decade.

1056
1057 Mr. Mawyer replied this was possible but if not, Rivanna could create one.

1058
1059 Mr. Pinkston stated it would be helpful.

1060
1061 Mr. O'Connell stated there was one in the operating budget proposal.

1062
1063 Mr. Mawyer agreed and stated they would have one next month.

1064
1065 Mr. O'Connell added that this was also the wholesale rate increase. He stated the retail rate that
1066 the City and Service Authority would charge their customers is likely to be different. He stated
1067 they would not know this until later in the spring.

1068
1069 Mr. Pinkston thanked Mr. O'Connell.

1070
1071 Mr. Gaffney asked Mr. O'Connell if he had additional comments.

1072
1073 Mr. O'Connell stated his comment was just about the difference between wholesale and retail
1074 rates.

1075
1076 Mr. Gaffney asked if there were other comments or questions.

1077
1078 Mr. Pinkston stated perhaps his question was for a different venue. He asked how Rivanna's
1079 bonding capacity works and if they have a rating from a rating agency.

1080
1081 Mr. Mawyer replied Rivanna has ratings from two of the three of the bonding agencies. He stated
1082 they have an AA+ rating from Standard & Poor's, and a AA2 rating from Moody's. He stated he
1083 could provide more information on this as well.

1084
1085 Mr. Pinkston stated he would appreciate it.

1086
1087 Mr. Richardson stated he had one comment, and he would suggest to Mr. Mawyer to find the
1088 slide for Mr. Pinkston and other members of the board that shows the debt service over a period
1089 of time and how he and staff have worked on the timing of the retirement of debt. He stated this
1090 shows how Rivanna is looking at this not just regarding capacity, but affordability. He stated this
1091 was one of the components that the board looked at in looking at the timing of when they do the
1092 cross-country water line that was referenced earlier with the master plan.

1093
1094 Mr. Richardson stated this would help as they gauge out to around 2035.

1095
1096 Mr. Mawyer stated he would have this for the board next month.

1097
1098 Mr. Richardson thanked Mr. Mawyer.

1099
1100 **10. OTHER ITEMS FROM BOARD/STAFF NOT ON AGENDA**

1101 Mr. O'Connell stated given the level of community discussion about the UVA and UVAF

development and the impacts they would have on the water system, he would like to ask the staff to, when it is appropriate, come back with a bigger-picture presentation about the major development projects being planned, what impacts they see from the proposed development, and try to do that before the rezoning actually goes before the Planning Commission.

Mr. Mawyer stated they would do this.

Ms. Mallek stated she would ask her question again, as she was still confused about what was coming. She asked if for the discussion where the individual budgets were put in as well as the nutrient credits, this was now or later that day. She asked if they were done with the budget items.

Mr. Mawyer replied yes.

Ms. Mallek stated her question was regarding the urban wastewater rate center. She stated since she is not an engineering genius or a good budget preparer, she always looks at the column for changes, and when she saw a 364% change in the expense of nutrient credits for the urban system, she was wondering if Mr. Mawyer could provide some extra information about that, either now or in an email to everyone. She asked if there are process changes that happened, or if there are process changes they can make so that they do not need to be paying so much for these credits in the future.

Ms. Mallek stated while credits are great, they always worry her that they are just sending their trouble downstream to the next user. She stated she would love to know more about that at some point, when it is convenient.

Mr. Mawyer stated he would look at this, but he believed that in the budget for nutrient credits, this is revenue that Rivanna is receiving, not an expense.

Ms. Mallek stated this would be grand.

Mr. Mawyer stated Rivanna is not buying any nutrient credits. He stated they have an enhanced nutrient removal system that, in effect, takes out more nutrients than they have to, thereby creating credits they can sell to the nutrient exchange.

Ms. Mallek stated this is spectacular, and she had thought they lost all those with the last renovation in the water plan. She stated this was spectacular news and thanked Mr. Mawyer for clarifying it.

Mr. Mawyer stated they still have nutrient credits. He stated they were concerned with proposed regulation changes a year or so ago that it would take away many of their credits, but he did not think that legislation was approved which is probably why they have increased their expectation next year on the revenue from the nutrient credits.

II. CLOSED MEETING

There was no closed meeting held.

1148

1149 ***12. ADJOURNMENT***

1150 **At 3:55 p.m., Mr. O'Connell moved to adjourn the meeting of the Rivanna Water and**
1151 **Sewer Authority. Mr. Pinkston seconded the motion, which passed unanimously (7-0).**

DRAFT



MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: EXECUTIVE DIRECTOR'S REPORT

DATE: MARCH 22, 2022

STRATEGIC PLAN GOAL: WORKFORCE DEVELOPMENT

Recognitions

The professional qualifications of our staff continue to improve and enhance our services. The following employees have successfully completed the requirements for a license from the State:

Mary Rad Morris - Class 1 Water Operator License

Safety Certification: Liz Coleman, Safety Manager

We congratulate Liz in completing a professional safety certification. This is a designation for occupational safety and health specialists to be successful in preventing safety violations and promoting a safe work environment. The Certified Safety Professional certification is offered by the Board of Certified Safety Professionals, and is considered one of the top ten best Environmental Health and Safety certifications available. RWSA supported Liz with reimbursement of eligible expenses through our "Advanced Development Training" program.

Master's Degree: Katie McIlwee, Asset Management Coordinator

We congratulate Katie in completing a Master of Informatics Degree from San Jose State University. RWSA supported Katie with this challenge through our "Degree Program" which reimburses \$5250/year of eligible educational expenses.

STRATEGIC PLAN GOAL: OPERATIONAL OPTIMIZATION

50 Year Celebration for the RWSA

The RWSA has reached a 50-year milestone for providing drinking water and wastewater services for Albemarle County and the City of Charlottesville. As part of this celebration, we must submit resolutions to the Albemarle Board of Supervisors and City Council to reauthorize our Authority.

In accordance with State Code 15.2-5114, "Virginia Water and Wastewater Authorities Act", counties, cities and towns may request incorporation of authorities to "provide for the public health

and welfare” of their community. Authorities may exist for 50 years, then must be reauthorized by appropriate resolutions of the political subdivisions which are members of the authority. RWSA was incorporated by the State Corporation Commission in June of 1972 at the request of the Albemarle County Board of Supervisors and the Charlottesville City Council.

STRATEGIC PLAN GOAL: INFRASTRUCTURE AND MASTER PLANNING

S. Rivanna to Ragged Mtn Reservoir Water Pipe

Easements and agreements (VDOT) have been obtained from all parties along the route except from 1 private owner near Barracks Road and from the UVA Foundation for 2 properties. Preparation of engineering plans and specifications have been substantially completed to construct a 0.25-mile section of this 36” raw water pipe from Birdwood to Old Garth Road in 2022 - 2023.

Beaver Creek Reservoir

Due to an early season algae bloom, the reservoir was treated with an algaecide this month. Installation of a hypolimnetic oxygenation system to minimize reservoir conditions conducive to these blooms is planned for 2024 – 2026 as part of the spillway, pump station and piping modifications project.

Exterior Lighting Project, Moores Creek

This project was substantially completed when we determined the light levels around the aeration basins were too high. After further investigation with our consultant, it was determined that the fixtures were not in compliance with our lighting requirements. Replacement fixtures around the aeration basins are scheduled for delivery and will be installed by mid-April. There are additional fixtures which will be replaced in 1-2 months.

STRATEGIC PLAN GOAL: COMMUNICATION & COLLABORATION

Central Water Line Project

We are continuing our process to inform the community about this project. Information was presented to the Fry’s Spring and Fifeville Neighborhood Associations in March, and a meeting is being scheduled with the Little High Street neighborhood. Additional neighborhood presentations will be scheduled, as requested.

Safety

A Memorandum of Understanding has been established with the City and with the County Fire Departments to serve as our “Emergency Rescue Team” to support the Authorities if needed for a confined spaced evacuation, as required by the Virginia Occupation and Safety Administration.

MEMORANDUM

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

**FROM: LONNIE WOOD, DIRECTOR OF FINANCE AND
ADMINISTRATION**

REVIEWED: BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: JANUARY MONTHLY FINANCIAL SUMMARY – FY 2022

DATE: MARCH 22, 2022

Urban Water flows and rate revenues are 5.5% over budget estimates through January, and Urban Wastewater flows and rate revenues are 0.3% over budget. Revenues and expenses are summarized in the table below:

	Urban Water	Urban Wastewater	Total Other Rate Centers	Total Authority
Operations				
Revenues	\$ 5,116,996	\$ 5,487,677	\$ 1,371,138	\$ 11,975,811
Expenses	(4,731,855)	(5,355,511)	(1,469,573)	(11,556,939)
Surplus (deficit)	\$ 385,141	\$ 132,166	\$ (98,435)	\$ 418,872
Debt Service				
Revenues	\$ 4,467,804	\$ 5,129,541	\$ 1,171,922	\$ 10,769,267
Expenses	(4,472,562)	(5,089,981)	(1,172,968)	(10,735,511)
Surplus (deficit)	\$ (4,758)	\$ 39,560	\$ (1,046)	\$ 33,756
Total				
Revenues	\$ 9,584,800	\$ 10,617,218	\$ 2,543,060	\$ 22,745,078
Expenses	(9,204,417)	(10,445,492)	(2,642,541)	(22,292,450)
Surplus (deficit)	\$ 380,383	\$ 171,726	\$ (99,481)	\$ 452,628

When reviewing the Authority as a whole, operating revenues are \$854,600 over budget and operating expenses are \$480,700 over budget, for a net budget surplus of \$452,600.

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 will even out as the year progresses. Septage receiving support revenue of \$109,441 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 Water – page 2) – Urban Water’s salaries were a little higher than budgeted for July and August due to some overlap of salaries for the outgoing water department manager and the interim manager, but this is offset by overbudgeted health insurance costs, so total personnel costs are under budget.
- C. Professional Services (Crozet Water, Glenmore Wastewater, Administration – pages 3, 6, 8) – Crozet Water incurred unbudgeted engineering and technical services expenses for a water demand forecast update. Glenmore Wastewater has spent \$95,000 this year to perform a needs evaluation for Glenmore WRRF, which is an unbudgeted cost. This will cause Glenmore Reserves to be overdrawn, causing the other rate centers to fund Glenmore cost overruns. The Administration department has incurred \$518,000 in unbudgeted bond issuance costs which are paid with bond proceeds.
- D. Information Technology (Scottsville Water, Urban Wastewater – pages 4, and 5) – These rate centers are over budget on SCADA maintenance and support costs.
- E. Operations & Maintenance (Scottsville Water, Scottsville Wastewater, Maintenance – pages 4, 7, 9) – Scottsville Water has incurred some unbudgeted building and grounds maintenance costs. Crozet Water is over budget for Beaver Creek Watershed signs and utility easement clearing costs. We will be reimbursed by a grant from the State for the watershed sign costs. Scottsville Wastewater incurred \$14,000 of unbudgeted repairs to the lagoon intake gates. The Maintenance department is over budget on the cost of fuel, lubricants, and other maintenance supplies.
- F. Other Services and Charges (Urban Wastewater – page 5 - Urban Wastewater is over budget on odor control chemical costs at Crozet Pump Station and on the cost of sludge hauling for composting.

Attachments

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022
Fiscal Year 2022

Consolidated**Revenues and Expenses Summary****Operating Budget vs. Actual**

Notes

Revenues

	<i>Budget FY 2022</i>	<i>Budget Year-to-Date</i>	<i>Actual Year-to-Date</i>	<i>Budget vs. Actual</i>	<i>Variance Percentage</i>
Operations Rate Revenue	\$ 18,810,555	\$ 10,972,824	\$ 11,243,457	\$ 270,633	2.47%
Lease Revenue	105,000	61,250	85,422	24,172	39.46%
Admin., Maint. & Engineering Revenue	C 553,000	322,583	856,716	534,133	165.58%
Other Revenues	540,589	315,344	433,816	118,473	37.57%
Use of Reserves-GAC	316,250	184,479	88,850	(95,629)	-51.84%
Rate Stabilization Reserves	200,000	116,667	116,667	-	0.00%
Interest Allocation	8,200	4,783	7,599	2,816	58.86%
Total Operating Revenues	\$ 20,533,594	\$ 11,977,930	\$ 12,832,526	\$ 854,597	7.13%

Expenses

Personnel Cost	A,B \$ 9,649,988	\$ 5,584,154	\$ 5,452,069	\$ 132,086	2.37%
Professional Services	C 712,050	415,363	947,977	(532,615)	-128.23%
Other Services & Charges	F 3,111,400	1,814,983	1,766,866	48,118	2.65%
Communications	191,412	111,657	120,879	(9,222)	-8.26%
Information Technology	A,D 447,100	260,808	360,707	(99,899)	-38.30%
Supplies	42,160	24,593	21,308	3,285	13.36%
Operations & Maintenance	A,E 4,864,235	2,837,470	3,077,667	(240,197)	-8.47%
Equipment Purchases	615,250	358,896	141,183	217,713	60.66%
Depreciation	900,000	525,000	525,000	-	0.00%
Reserve Transfers	-	-	-	-	
Total Operating Expenses	\$ 20,533,595	\$ 11,932,925	\$ 12,413,656	\$ (480,731)	-4.03%
Operating Surplus/(Deficit)	\$ (1)	\$ 45,005	\$ 418,871		

Debt Service Budget vs. Actual**Revenues**

Debt Service Rate Revenue	\$ 18,193,960	\$ 10,613,143	\$ 10,613,155	\$ 12	0.00%
Use of Reserves	-	-	-	-	
Septage Receiving Support - County	109,440	63,840	109,441	45,601	71.43%
Buck Mountain Lease Revenue	1,600	933	-	(933)	-100.00%
Trust Fund Interest	33,700	19,658	8,742	(10,916)	-55.53%
Reserve Fund Interest	80,000	46,667	37,929	(8,738)	-18.72%
Total Debt Service Revenues	\$ 18,418,700	\$ 10,744,242	\$ 10,769,267	\$ 25,025	0.23%

Debt Service Costs

Total Principal & Interest	\$ 14,256,077	\$ 8,316,045	\$ 8,482,045	\$ (166,000)	-2.00%
Reserve Additions-Interest	80,000	46,667	37,929	8,738	18.72%
Debt Service Ratio Charge	725,000	422,917	422,917	-	0.00%
Reserve Additions-CIP Growth	3,357,634	1,958,620	1,792,620	166,000	8.48%
Total Debt Service Costs	\$ 18,418,711	\$ 10,744,248	\$ 10,735,510	\$ 8,738	0.08%
Debt Service Surplus/(Deficit)	\$ (11)	\$ (6)	\$ 33,757		

Summary

Total Revenues	\$ 38,952,294	\$ 22,722,172	\$ 23,601,793	\$ 879,622	3.87%
Total Expenses	38,952,306	22,677,173	23,149,166	(471,993)	-2.08%
Surplus/(Deficit)	\$ (12)	\$ 44,998	\$ 452,628		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Urban Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2022</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	\$ 7,971,504	\$ 4,650,044	\$ 4,907,532	\$ 257,488	5.54%
Lease Revenue	75,000	43,750	62,385	18,635	42.59%
Miscellaneous	-	-	-	-	-
Use of Reserves-GAC	300,000	175,000	85,600	(89,400)	-51.09%
Rate Stabilization Reserves	100,000	58,333	58,333	-	0.00%
Interest Allocation	3,400	1,983	3,146	1,163	58.62%
Total Operating Revenues	\$ 8,449,904	\$ 4,929,111	\$ 5,116,996	\$ 187,886	3.81%

Expenses

Personnel Cost	B \$ 2,039,157	\$ 1,180,663	\$ 1,166,868	\$ 13,795	1.17%
Professional Services	279,200	162,867	106,695	56,172	34.49%
Other Services & Charges	734,150	428,254	377,492	50,762	11.85%
Communications	98,670	57,558	61,265	(3,708)	-6.44%
Information Technology	80,500	46,958	56,146	(9,188)	-19.57%
Supplies	5,100	2,975	4,171	(1,196)	-40.19%
Operations & Maintenance	A,E 2,250,440	1,312,757	1,344,271	(31,514)	-2.40%
Equipment Purchases	15,400	8,983	8,983	0	0.00%
Depreciation	300,000	175,000	175,000	-	0.00%
Reserve Transfers	-	-	-	-	-
Subtotal Before Allocations	\$ 5,802,617	\$ 3,376,015	\$ 3,300,891	\$ 75,124	2.23%
Allocation of Support Departments	2,647,289	1,532,969	1,430,964	102,004	6.65%
Total Operating Expenses	\$ 8,449,906	\$ 4,908,984	\$ 4,731,856	\$ 177,128	3.61%
Operating Surplus/(Deficit)	\$ (2)	\$ 20,127	\$ 385,141		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 7,621,725	\$ 4,446,006	\$ 4,446,008	\$ 2	0.00%
Trust Fund Interest	12,000	7,000	3,174	(3,826)	-54.66%
Reserve Fund Interest	39,300	22,925	18,623	(4,302)	-18.77%
Use of Reserves	-	-	-	-	-
Lease Revenue	1,600	933	-	(933)	-100.00%
Total Debt Service Revenues	\$ 7,674,625	\$ 4,476,865	\$ 4,467,804	\$ (9,060)	-0.20%

Debt Service Costs

Total Principal & Interest	\$ 5,215,275	\$ 3,042,244	\$ 3,194,300	\$ (152,056)	-5.00%
Reserve Additions-Interest	39,300	22,925	18,623	4,302	18.77%
Debt Service Ratio Charge	400,000	233,333	233,333	-	0.00%
Reserve Additions-CIP Growth	2,020,050	1,178,363	1,026,306	152,056	12.90%
Total Debt Service Costs	\$ 7,674,625	\$ 4,476,865	\$ 4,472,563	\$ 4,302	0.10%
Debt Service Surplus/(Deficit)	\$ -	\$ -	\$ (4,758)		

Rate Center Summary

Total Revenues	\$ 16,124,529	\$ 9,405,975	\$ 9,584,801	\$ 178,825	1.90%
Total Expenses	16,124,531	9,385,848	9,204,418	181,430	1.93%
Surplus/(Deficit)	\$ (2)	\$ 20,127	\$ 380,383		
Costs per 1000 Gallons	\$ 2.49		\$ 2.26		
Operating and DS	\$ 4.75		\$ 4.40		
Thousand Gallons Treated	3,397,700	1,981,992	2,091,873	109,881	5.54%
or					
Flow (MGD)	9.309		9.730		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Crozet Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2022</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	\$ 1,058,856	\$ 617,666	\$ 617,666	\$ -	0.00%
Lease Revenues	30,000	17,500	23,036	5,536	31.64%
Use of Reserves-GAC	13,000	7,583	-	(7,583)	-100.00%
Interest Allocation	500	292	441	149	51.11%
Total Operating Revenues	\$ 1,102,356	\$ 643,041	\$ 641,143	\$ (1,898)	-0.30%

Expenses

Personnel Cost	\$ 324,463	\$ 187,867	\$ 185,012	\$ 2,855	1.52%
Professional Services	15,100	8,808	24,342	(15,534)	-176.36%
Other Services & Charges	104,450	60,929	63,426	(2,497)	-4.10%
Communications	17,530	10,226	10,591	(365)	-3.57%
Information Technology	5,250	3,063	9,131	(6,068)	-198.15%
Supplies	1,500	875	633	242	27.63%
Operations & Maintenance	296,900	173,192	171,755	1,437	0.83%
Equipment Purchases	28,000	16,333	1,750	14,583	89.29%
Depreciation	60,000	35,000	35,000	-	0.00%
Reserve Transfers	-	-	-	-	
Subtotal Before Allocations	\$ 853,193	\$ 496,293	\$ 501,641	\$ (5,348)	-1.08%
Allocation of Support Departments	249,161	144,289	134,675	9,614	6.66%
Total Operating Expenses	\$ 1,102,354	\$ 640,582	\$ 636,316	\$ 4,266	0.67%
Operating Surplus/(Deficit)	\$ 2	\$ 2,459	\$ 4,827		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 1,847,832	\$ 1,077,902	\$ 1,077,902	\$ -	0.00%
Trust Fund Interest	2,900	1,692	734	(957)	-56.59%
Use of Reserves	-	-	-	-	
Reserve Fund Interest	2,500	1,458	1,176	(283)	-19.37%
Total Debt Service Revenues	\$ 1,853,232	\$ 1,081,052	\$ 1,079,812	\$ (1,240)	-0.11%

Debt Service Costs

Total Principal & Interest	\$ 1,216,667	\$ 709,722	\$ 709,722	\$ -	0.00%
Reserve Additions-Interest	2,500	1,458	1,176	283	19.37%
Reserve Additions-CIP Growth	634,070	369,874	369,874	-	0.00%
Total Debt Service Costs	\$ 1,853,237	\$ 1,081,055	\$ 1,080,772	\$ 283	0.03%
Debt Service Surplus/(Deficit)	\$ (5)	\$ (3)	\$ (960)		

Rate Center Summary

Total Revenues	\$ 2,955,588	\$ 1,724,093	\$ 1,720,955	\$ (3,138)	-0.18%
Total Expenses	2,955,591	1,721,637	1,717,088	4,548	0.26%
Surplus/(Deficit)	\$ (3)	\$ 2,456	\$ 3,867		
Costs per 1000 Gallons	\$ 5.44		\$ 4.15		
Operating and DS	\$ 14.58		\$ 11.21		
Thousand Gallons Treated	202,697	118,240	153,168	34,928	29.54%
Flow (MGD)	0.555		0.712		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Scottsville Water Rate Center
Revenues and Expenses Summary

<i>Budget FY 2022</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	\$ 514,704	\$ 300,244	\$ 300,244	\$ -	0.00%
Use of Reserves-GAC	3,250	1,896	3,250	1,354	71.43%
Interest Allocation	200	117	213	96	82.38%
<i>Total Operating Revenues</i>	\$ 518,154	\$ 302,257	\$ 303,707	\$ 1,450	0.48%

Expenses

Personnel Cost	\$ 195,695	\$ 113,293	\$ 112,760	\$ 533	0.47%
Professional Services	2,900	1,692	8,100	(6,408)	-378.79%
Other Services & Charges	28,100	16,392	19,480	(3,088)	-18.84%
Communications	4,930	2,876	3,872	(996)	-34.64%
Information Technology	D 1,250	729	11,914	(11,185)	-1533.97%
Supplies	770	449	71	378	84.26%
Operations & Maintenance	E 87,200	50,867	66,087	(15,220)	-29.92%
Equipment Purchases	1,500	875	1,283	(408)	-46.63%
Depreciation	40,000	23,333	23,333	0	0.00%
Reserve Transfers	-	-	-	-	
<i>Subtotal Before Allocations</i>	\$ 362,345	\$ 210,506	\$ 246,900	\$ (36,394)	-17.29%
Allocation of Support Departments	155,813	90,249	83,996	6,253	6.93%
<i>Total Operating Expenses</i>	\$ 518,158	\$ 300,754	\$ 330,895	\$ (30,141)	-10.02%
<i>Operating Surplus/(Deficit)</i>	\$ (4)	\$ 1,502	\$ (27,189)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 138,888	\$ 81,018	\$ 81,018	\$ -	0.00%
Trust Fund Interest	300	175	79	(96)	-55.05%
Reserve Fund Interest	1,200	700	569	(131)	-18.73%
<i>Total Debt Service Revenues</i>	\$ 140,388	\$ 81,893	\$ 81,666	\$ (227)	-0.28%

Debt Service Costs

Total Principal & Interest	\$ 125,892	\$ 73,437	\$ 75,429	\$ (1,992)	-2.71%
Reserve Additions-Interest	1,200	700	569	131	
Reserve Additions-CIP Growth	13,299	7,758	5,766	1,992	
<i>Total Debt Service Costs</i>	\$ 140,391	\$ 81,895	\$ 81,764	\$ 131	0.16%
<i>Debt Service Surplus/(Deficit)</i>	\$ (3)	\$ (2)	\$ (98)		

Rate Center Summary

Total Revenues	\$ 658,542	\$ 384,150	\$ 385,372	\$ 1,223	0.32%
Total Expenses	658,549	382,649	412,659	(30,010)	-7.84%
Surplus/(Deficit)	\$ (7)	\$ 1,500	\$ (27,287)		
Costs per 1000 Gallons	\$ 30.07		\$ 27.59		
Operating and DS	\$ 38.22		\$ 34.41		
Thousand Gallons Treated	17,230	10,051	11,994	1,943	19.33%
or					
Flow (MGD)	0.047		0.056		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Urban Wastewater Rate Center
Revenues and Expenses Summary

Budget FY 2022	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	\$ 8,535,195	\$ 4,978,864	\$ 4,992,009	\$ 13,145	0.26%
Stone Robinson WWTP	20,589	12,010	9,884	(2,126)	-17.70%
Septage Acceptance	475,000	277,083	319,457	42,374	15.29%
Nutrient Credits	45,000	26,250	104,475	78,225	298.00%
Rate Stabilization Reserve	100,000	58,333	58,333	-	0.00%
Miscellaneous Revenue	-	-	-	-	
Interest Allocation	3,800	2,217	3,518	1,302	58.72%
Total Operating Revenues	\$ 9,179,584	\$ 5,354,757	\$ 5,487,677	\$ 132,919	2.48%

Expenses

Personnel Cost	A	\$ 1,289,471	\$ 746,346	\$ 761,406	\$ (15,060)	-2.02%
Professional Services		208,500	121,625	115,937	5,688	4.68%
Other Services & Charges	F	2,011,700	1,173,492	1,198,284	(24,792)	-2.11%
Communications		9,800	5,717	7,155	(1,439)	-25.17%
Information Technology	D	56,500	32,958	45,073	(12,114)	-36.76%
Supplies		1,200	700	492	208	29.73%
Operations & Maintenance	A	1,672,520	975,637	1,213,068	(237,432)	-24.34%
Equipment Purchases		294,250	171,646	29,167	142,479	83.01%
Depreciation		470,000	274,167	274,167	(0)	0.00%
Reserve Transfers		-	-	-	-	
Subtotal Before Allocations		\$ 6,013,941	\$ 3,502,287	\$ 3,644,749	\$ (142,462)	-4.07%
Allocation of Support Departments		3,165,643	1,833,352	1,710,762	122,590	6.69%
Total Operating Expenses		\$ 9,179,584	\$ 5,335,639	\$ 5,355,511	\$ (19,872)	-0.37%
Operating Surplus/(Deficit)		\$ (0)	\$ 19,118	\$ 132,166		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 8,568,221	\$ 4,998,129	\$ 4,998,133	\$ 4	0.00%
Septage Receiving Support - County	109,440	63,840	109,441	45,601	71.43%
Trust Fund Interest	18,500	10,792	4,747	(6,044)	-56.01%
Use of Reserves	-	-	-	-	
Reserve Fund Interest	36,300	21,175	17,220	(3,955)	-18.68%
Total Debt Service Revenues	\$ 8,732,461	\$ 5,093,936	\$ 5,129,541	\$ 35,605	0.70%

Debt Service Costs

Total Principal & Interest	\$ 7,689,212	\$ 4,485,374	\$ 4,495,832	\$ (10,458)	-0.23%
Reserve Additions-Interest	36,300	21,175	17,220	3,955	18.68%
Debt Service Ratio Charge	325,000	189,583	189,583	-	0.00%
Reserve Additions-CIP Growth	681,950	397,804	387,346	10,458	2.63%
Total Debt Service Costs	\$ 8,732,462	\$ 5,093,936	\$ 5,089,981	\$ 3,955	0.08%
Debt Service Surplus/(Deficit)	\$ (1)	\$ (1)	\$ 39,560		

Rate Center Summary

Total Revenues	\$ 17,912,045	\$ 10,448,693	\$ 10,617,217	\$ 168,525	1.61%
Total Expenses	17,912,046	10,429,575	10,445,492	(15,917)	-0.15%
Surplus/(Deficit)	\$ (1)	\$ 19,118	\$ 171,726		
Costs per 1000 Gallons	\$ 2.71		\$ 2.70		
Operating and DS	\$ 5.28		\$ 5.27		
Thousand Gallons Treated	3,390,400	1,977,733	1,983,317	5,584	0.28%
or					
Flow (MGD)	9.289		9.225		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Glenmore Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2022</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	\$	404,028	\$	235,683	\$	235,683	\$	-	0.00%
Rate Stabilization Reserve		-		-		-		-	
Interest Allocation		200		117		160		43	36.81%
Total Operating Revenues	\$	404,228	\$	235,800	\$	235,843	\$	43	0.02%

Expenses

Personnel Cost	\$	94,885	\$	54,921	\$	56,126	\$	(1,205)	-2.19%
Professional Services		12,900		7,525		95,000		(87,475)	
Other Services & Charges		34,300		20,008		20,041		(33)	-0.16%
Communications		3,130		1,826		1,939		(114)	-6.22%
Information Technology		2,000		1,167		661		506	43.34%
Supplies		-		-		69		(69)	
Operations & Maintenance		121,650		70,963		50,844		20,119	28.35%
Equipment Purchases		3,800		2,217		2,217		(0)	0.00%
Depreciation		10,000		5,833		5,833		0	0.00%
Subtotal Before Allocations	\$	282,665	\$	164,459	\$	232,731	\$	(68,272)	-41.51%
Allocation of Support Departments		121,563		70,426		65,115		5,311	7.54%
Total Operating Expenses	\$	404,229	\$	234,885	\$	297,846	\$	(62,961)	-26.80%
Operating Surplus/(Deficit)	\$	(1)	\$	915	\$	(62,003)			

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$	7,412	\$	4,324	\$	4,326	\$	2	0.05%
Trust Fund Interest		-		-		-		-	
Reserve Fund Interest		200		117		114		(3)	-2.49%
Total Debt Service Revenues	\$	7,612	\$	4,440	\$	4,440	\$	2	0.05%

Debt Service Costs

Total Principal & Interest	\$	1,578	\$	921	\$	2,415	\$	(1,494)	-162.30%
Reserve Additions-CIP Growth		5,834		3,403		1,909		1,494	43.90%
Reserve Additions-Interest		200		117		114		3	2.49%
Total Debt Service Costs	\$	7,612	\$	4,440	\$	4,437	\$	3	0.07%
Debt Service Surplus/(Deficit)	\$	-	\$	-	\$	2			

Rate Center Summary

Total Revenues	\$	411,840	\$	240,240	\$	240,282	\$	42	0.02%
Total Expenses		411,841		239,325		302,283		(62,958)	-26.31%
Surplus/(Deficit)	\$	(1)	\$	915	\$	(62,001)			
Costs per 1000 Gallons	\$	9.76			\$	17.12			
Operating and DS	\$	9.95			\$	17.38			
Thousand Gallons Treated		41,401		24,151		17,395		(6,756)	-27.97%
or									
Flow (MGD)		0.113				0.081			

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Scottsville Wastewater Rate Center
Revenues and Expenses Summary

<i>Budget FY 2022</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	\$ 326,268	\$ 190,323	\$ 190,323	\$ -	0.00%
Interest Allocation	100	58	122	63	108.35%
Total Operating Revenues	\$ 326,368	\$ 190,381	\$ 190,445	\$ 63	0.03%

Expenses

Personnel Cost	\$ 94,875	\$ 54,915	\$ 56,126	\$ (1,211)	-2.21%
Professional Services	10,250	5,979	1,067	4,913	82.16%
Other Services & Charges	21,800	12,717	13,197	(480)	-3.78%
Communications	3,400	1,983	2,319	(336)	-16.93%
Information Technology	1,500	875	1,873	(998)	-114.11%
Supplies	-	-	-	-	
Operations & Maintenance	E 58,100	33,892	55,695	(21,803)	-64.33%
Equipment Purchases	3,800	2,217	2,217	(0)	0.00%
Depreciation	20,000	11,667	11,667	(0)	0.00%
Subtotal Before Allocations	\$ 213,725	\$ 124,244	\$ 144,160	\$ (19,916)	-16.03%
Allocation of Support Departments	112,640	65,254	60,355	4,898	7.51%
Total Operating Expenses	\$ 326,365	\$ 189,498	\$ 204,515	\$ (15,018)	-7.93%
Operating Surplus/(Deficit)	\$ 3	\$ 884	\$ (14,071)		

Debt Service Budget vs. Actual

Revenues

Debt Service Rate Revenue	\$ 9,882	\$ 5,765	\$ 5,768	\$ 4	0.06%
Trust Fund Interest	-	-	9	9	
Reserve Fund Interest	500	292	228	(64)	-21.96%
Total Debt Service Revenues	\$ 10,382	\$ 6,056	\$ 6,004	\$ (52)	-0.86%

Debt Service Costs

Total Principal & Interest	\$ 7,453	\$ 4,348	\$ 4,348	\$ -	0.00%
Reserve Additions-Interest	500	292	228	64	21.96%
Estimated New Principal & Interest	2,431	1,418	1,418	-	0.00%
Total Debt Service Costs	\$ 10,384	\$ 6,057	\$ 5,993	\$ 64	1.06%
Debt Service Surplus/(Deficit)	\$ (2)	\$ (1)	\$ 11		

Rate Center Summary

Total Revenues	\$ 336,750	\$ 196,438	\$ 196,449	\$ 11	0.01%
Total Expenses	336,749	195,555	210,509	(14,954)	-7.65%
Surplus/(Deficit)	\$ 1	\$ 883	\$ (14,060)		
Costs per 1000 Gallons	\$ 13.80		\$ 21.69		
Operating and DS	\$ 14.24		\$ 22.33		
Thousand Gallons Treated	23,643	13,792	9,429	(4,363)	-31.63%
or					
Flow (MGD)	0.065		0.044		

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Administration

<i>Budget FY 2022</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		\$	551,000	\$	321,417	\$	323,169	\$	1,752	0.55%
Bond Proceeds Funding Bond Issuance Costs	C		-		-		518,307		518,307	
Miscellaneous Revenue			2,000		1,167		13,613		12,446	1066.84%
Total Operating Revenues		\$	553,000	\$	322,583	\$	855,089	\$	532,506	165.08%
Expenses										
Personnel Cost		\$	2,177,998	\$	1,259,785	\$	1,220,877	\$	38,907	3.09%
Professional Services	C		163,200		95,200		592,796		(497,596)	-522.69%
Other Services & Charges			86,200		50,283		58,324		(8,040)	-15.99%
Communications			21,000		12,250		16,158		(3,908)	-31.90%
Information Technology	A		171,900		100,275		163,023		(62,748)	-62.58%
Supplies			21,500		12,542		11,794		748	5.96%
Operations & Maintenance			68,600		40,017		25,442		14,575	36.42%
Equipment Purchases			25,200		14,700		8,867		5,833	39.68%
Depreciation			-		-		-		-	
Total Operating Expenses		\$	2,735,598	\$	1,585,051	\$	2,097,281	\$	(512,229)	-32.32%

Department Summary

Net Costs Allocable to Rate Centers		\$	(2,182,598)	\$	(1,262,468)	\$	(1,242,191)	\$	(20,277)	1.61%
Allocations to the Rate Centers										
Urban Water	44.00%	\$	960,343	\$	555,486	\$	546,564	\$	8,922	
Crozet Water	4.00%	\$	87,304	\$	50,499	\$	49,688	\$	811	
Scottsville Water	2.00%	\$	43,652	\$	25,249	\$	24,844	\$	406	
Urban Wastewater	48.00%	\$	1,047,647	\$	605,985	\$	596,252	\$	9,733	
Glenmore Wastewater	1.00%	\$	21,826	\$	12,625	\$	12,422	\$	203	
Scottsville Wastewater	1.00%	\$	21,826	\$	12,625	\$	12,422	\$	203	
	100.00%	\$	2,182,598	\$	1,262,468	\$	1,242,191	\$	20,277	

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Maintenance

<i>Budget FY 2022</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		-		-		623		623
<i>Total Operating Revenues</i>	\$	-	\$	-	\$	623	\$	623

Expenses

Personnel Cost	\$	1,398,597	\$	809,281	\$	790,762	\$	18,520	2.29%
Professional Services		-		-		-		-	
Other Services & Charges		61,200		35,700		8,708		26,992	75.61%
Communications		15,730		9,176		9,687		(511)	-5.57%
Information Technology		9,500		5,542		657		4,884	88.14%
Supplies		2,000		1,167		269		897	76.90%
Operations & Maintenance	E	89,600		52,267		69,256		(16,990)	-32.51%
Equipment Purchases		208,100		121,392		73,167		48,225	39.73%
Depreciation		-		-		-		-	
<i>Total Operating Expenses</i>		\$ 1,784,727		\$ 1,034,524		\$ 952,506		\$ 82,018	7.93%

Department Summary

Net Costs Allocable to Rate Centers		\$ (1,784,727)	\$ (1,034,524)	\$ (951,883)	\$ (81,395)	7.87%
<u>Allocations to the Rate Centers</u>						
Urban Water	30.00%	\$ 535,418	\$ 310,357	\$ 285,565	\$ 24,792	
Crozet Water	3.50%	62,465	36,208	33,316	2,892	
Scottsville Water	3.50%	62,465	36,208	33,316	2,892	
Urban Wastewater	56.50%	1,008,371	584,506	537,814	46,692	
Glenmore Wastewater	3.50%	62,465	36,208	33,316	2,892	
Scottsville Wastewater	3.00%	53,542	31,036	28,556	2,479	
	100.00%	\$ 1,784,727	\$ 1,034,524	\$ 951,883	\$ 82,641	

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Laboratory

Budget FY 2022	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	\$ 411,037	\$ 237,795	\$ 217,540	\$ 20,256	8.52%
Professional Services	-	-	-	-	
Other Services & Charges	7,900	4,608	1,321	3,287	71.33%
Communications	1,300	758	679	79	
Information Technology	200	117	610	(493)	-422.86%
Supplies	1,300	758	1,162	(403)	-53.19%
Operations & Maintenance	120,590	70,344	54,612	15,732	22.37%
Equipment Purchases	1,700	992	992	(0)	0.00%
Depreciation	-	-	-	-	
Total Operating Expenses	\$ 544,027	\$ 315,373	\$ 276,915	\$ 38,458	12.19%

Department Summary

Net Costs Allocable to Rate Centers		\$ (544,027)	\$ (315,373)	\$ (276,915)	\$ (38,458)	12.19%
<u>Allocations to the Rate Centers</u>						
Urban Water	44.00%	\$ 239,372	\$ 138,764	\$ 121,842	\$ 16,922	
Crozet Water	4.00%	21,761	12,615	11,077	1,538	
Scottsville Water	2.00%	10,881	6,307	5,538	769	
Urban Wastewater	47.00%	255,693	148,225	130,150	18,075	
Glenmore Wastewater	1.50%	8,160	4,731	4,154	577	
Scottsville Wastewater	1.50%	8,160	4,731	4,154	577	
	100.00%	\$ 544,027	\$ 315,373	\$ 276,915	\$ 38,458	

Rivanna Water & Sewer Authority
Monthly Financial Statements - January 2022

Engineering

<i>Budget FY 2022</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

\$ -	\$ -	\$ 1,004	\$ 1,004	
\$ -	\$ -	\$ 1,004	\$ 1,004	

Expenses

Personnel Cost

Professional Services

Other Services & Charges

Communications

Information Technology

Supplies

Operations & Maintenance

Equipment Purchases

Depreciation & Capital Reserve Transfers

Total Operating Expenses

\$ 1,623,810	\$ 939,288	\$ 884,591	\$ 54,697	5.82%
20,000	11,667	4,041	7,626	65.37%
21,600	12,600	6,593	6,007	47.67%
15,922	9,288	7,213	2,075	22.34%
118,500	69,125	71,618	(2,493)	-3.61%
8,790	5,128	2,647	2,480	48.37%
98,635	57,537	26,639	30,898	53.70%
33,500	19,542	12,542	7,000	35.82%
-	-	-	-	
\$ 1,940,757	\$ 1,124,173	\$ 1,015,883	\$ 108,291	9.63%

Department Summary

Net Costs Allocable to Rate Centers

\$ (1,940,757)	\$ (1,124,173)	\$ (1,014,879)	\$ (107,287)	9.54%
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Allocations to the Rate Centers

Urban Water

Crozet Water

Scottsville Water

Urban Wastewater

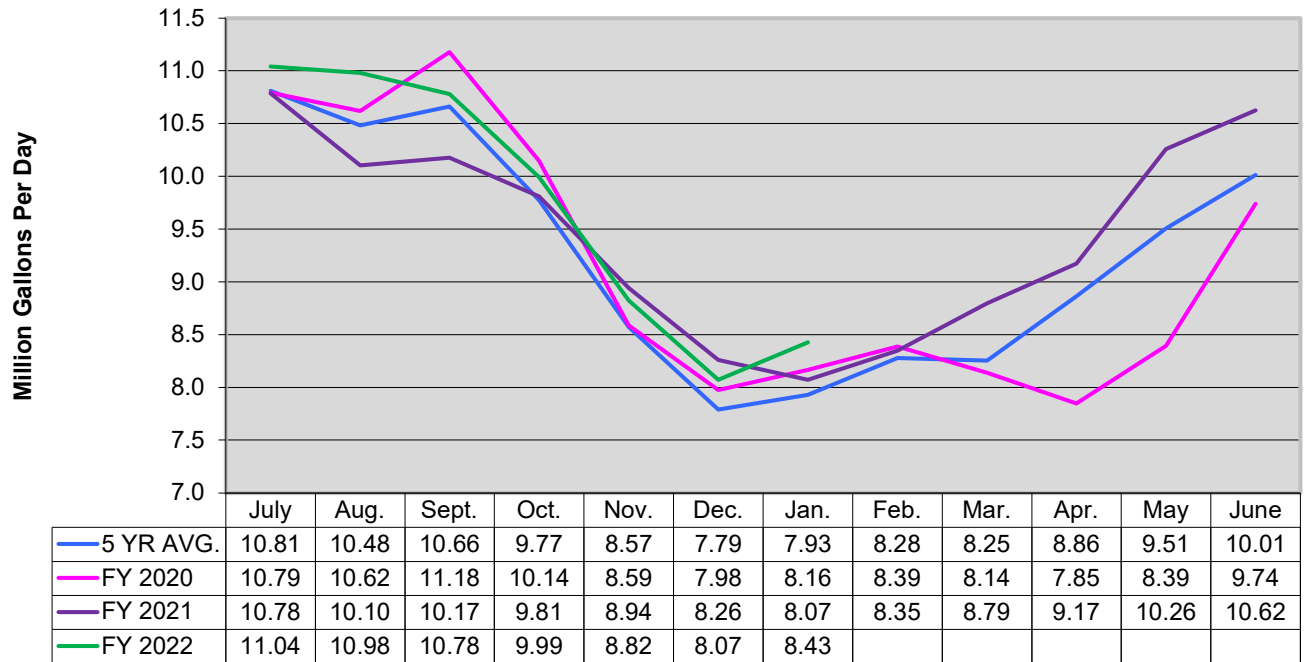
Glenmore Wastewater

Scottsville Wastewater

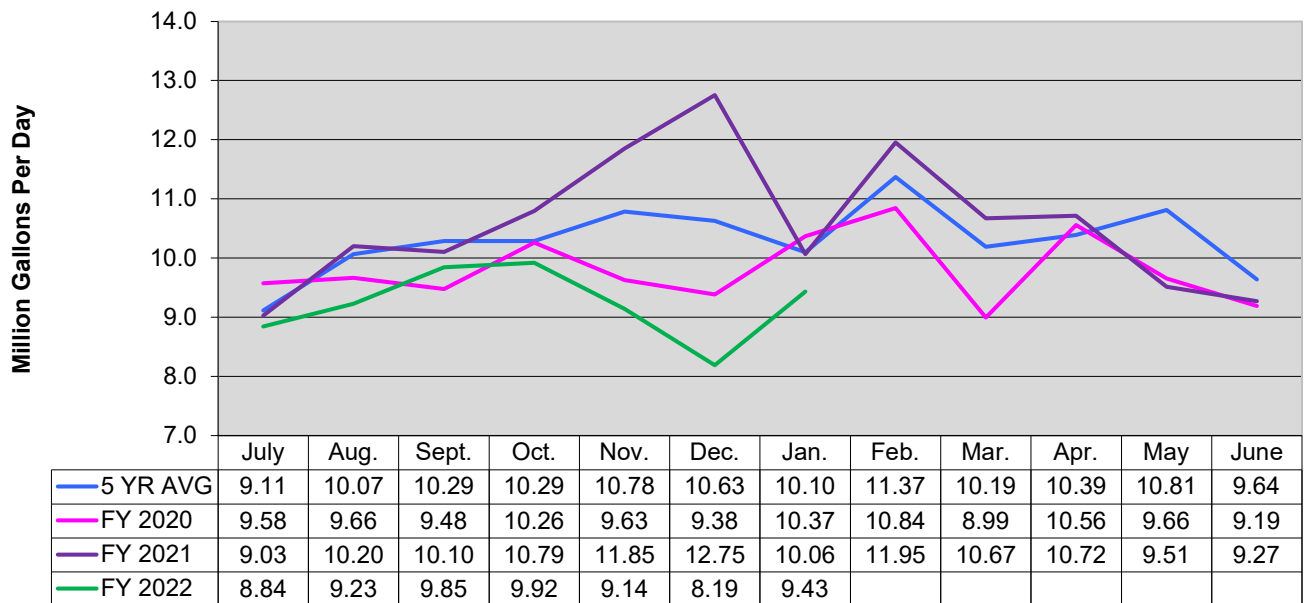
47.00%	\$ 912,156	\$ 528,361	\$ 476,993	\$ 51,368
4.00%	77,630	44,967	40,595	4,372
2.00%	38,815	22,483	20,298	2,186
44.00%	853,933	494,636	446,547	48,090
1.50%	29,111	16,863	15,223	1,639
1.50%	29,111	16,863	15,223	1,639
100.00%	\$ 1,940,757	\$ 1,124,173	\$ 1,014,879	\$ 109,295

**Rivanna Water and Sewer Authority
Flow Graphs**

Urban Water Flows



Urban Wastewater Flows





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 2022

DATE: MARCH 22, 2022

WATER OPERATIONS:

The average and maximum daily water volumes produced in February 2022 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	7.72	8.77 (2/22/2022)
Observatory	0.71	2.80 (2/10/2022)
North Rivanna	<u>0.38</u>	<u>0.46 (2/1/2022)</u>
<i>Urban Total</i>	8.81	9.86 (2/16/2022)
Crozet	0.65	0.91 (2/13/2022)
Scottsville	0.06	0.08 (2/17/2022)
Red Hill	<u>0.0015</u>	0.003 (2/8/2022)
<i>RWSA Total</i>	9.52	-

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

Status of Reservoirs (as of March 16, 2022):

- Urban Reservoirs: 99.8% of Total Useable Capacity
- Ragged Mountain Reservoir is not full (99.63%)
- Sugar Hollow Reservoir is full (100%)
- South Rivanna Reservoir is full (100%)
- Beaver Creek Reservoir is full (100%)
- Totier Creek Reservoir is full (100%)

WASTEWATER OPERATIONS:

All RWSA Water Resource Recovery Facilities (WRRFs) were in regulatory compliance with their effluent limitations during February 2022. Performance of the WRRFs in February was as follows compared to the respective VDEQ permit limits:

WRRF	Average Daily Effluent Flow (MGD)	Average CBOD₅ (ppm)		Average Total Suspended Solids (ppm)		Average Ammonia (ppm)	
		RESULT	LIMIT	RESULT	LIMIT	RESULT	LIMIT
Moore's Creek	9.65	1.0	10	<QL	22	0.10	2.2
Glenmore	0.106	4.5	15	4.9	30	NR	NL
Scottsville	0.059	2.5	25	4.8	30	NR	NL
Stone Robinson	0.0007	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 2022.

State Annual Allocation (lb./yr.) Permit		Average Monthly Allocation (lb./mo.) *	Moore's Creek Discharge February (lb./mo.)	Performance as % of monthly average Allocation*	Year to Date Performance as % of annual allocation
Nitrogen	282,994	23,583	8,597	36%	6%
Phosphorous	18,525	1,544	265	17%	3%

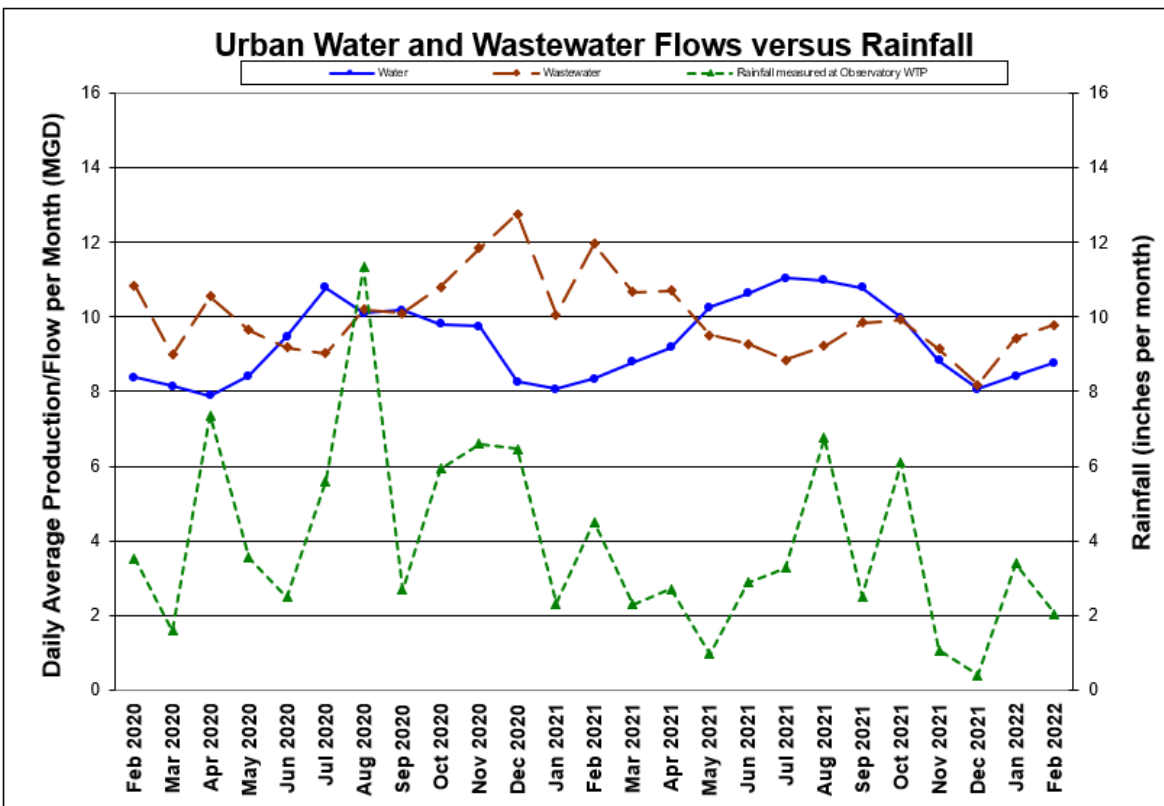
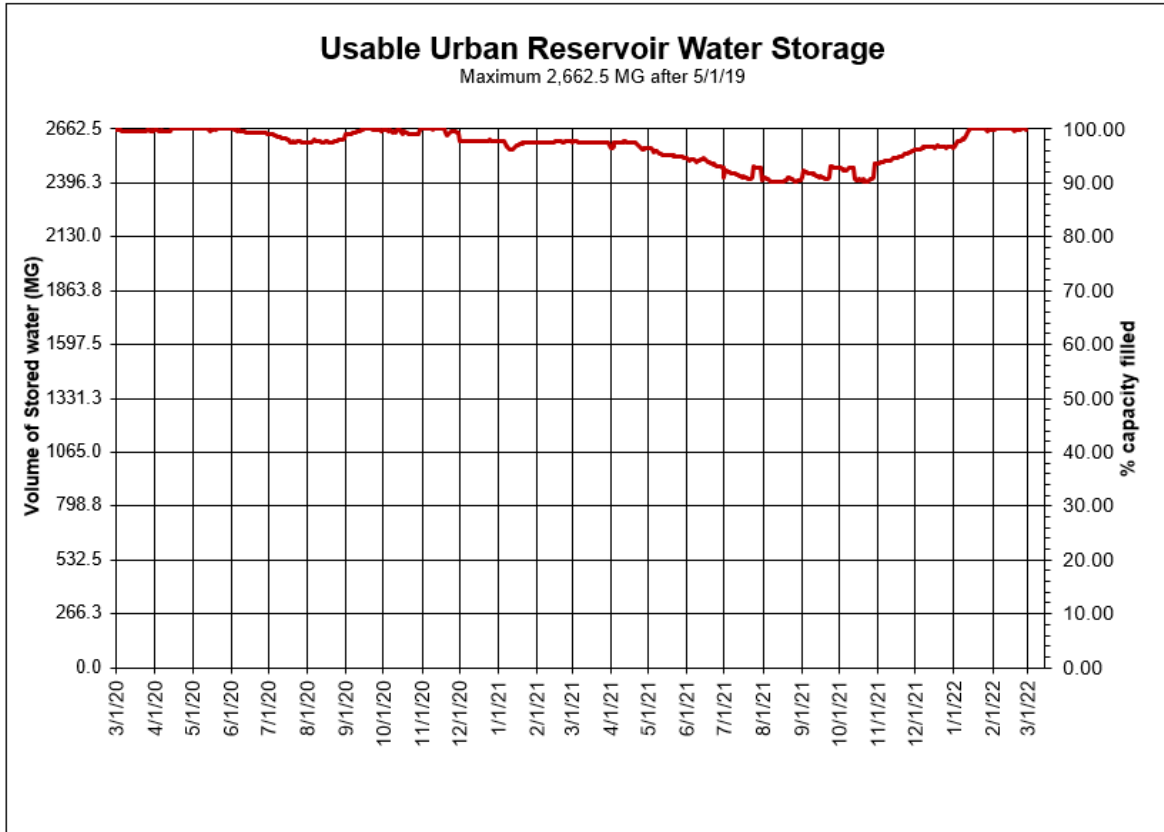
*State allocations are expressed as annual amounts. One-twelfth of that allocation is an internal monthly benchmark for comparative purposes only.

During the winter months, the Moore's Creek Advanced Water Resource Recovery Facility deals with very cold wastewater with high levels of salinity from road chemicals applied for snow and ice control that make their way into our wastewater piping systems. The changes to the wastewater characteristics resulting from the salt can be challenging to treat. The Wastewater Operations staff monitors for increasing influent flow rates on SCADA and decreasing nitrification in the aeration basins from the online analyzers. The staff then makes changes in the aeration basins to increase air flow and keep the treatment system working effectively.

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: MARCH22, 2022

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/2021/06/2022-2026-CIP-Final.pdf>

Under Construction

1. South Rivanna and Observatory Water Treatment Plant Renovations
2. Crozet Flow Equalization Tank
3. MC Aluminum Slide Gate Replacements
4. MC Exterior Lighting Improvements
5. MC Clarifier and Silo Demolition
6. Glenmore WRRF Influent Pump & VFD Addition
7. Airport Road Water Pump Station and Piping
8. MC 5kV Electrical System Upgrades
9. Scottville WTP Lagoon Liners Replacement

Design and Bidding

10. Ragged Mtn Reservoir to Observatory WTP Raw Water Line and Pump Station
11. South Rivanna to Ragged Mtn. Raw Water Line – Birdwood to Old Garth
12. Beaver Creek Dam, Pump Station and Piping Improvements
13. South Rivanna River Crossing
14. Central Water Line
15. Upper Schenks Branch Interceptor, Phase II

Planning and Studies

16. South Rivanna Reservoir to Ragged Mtn Reservoir Water Line Right-of-Way
17. Urban Finished Water Infrastructure Master Plan
18. Asset Management Plan

19. MC Facilities Master Plan
20. SRR to RMR Pipeline – Pretreatment Pilot Study

Other Significant Projects

21. Urgent and Emergency Repairs
22. Interceptor Sewer & Manhole Repair
23. 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:	56%
Base Construction Contract +	
Change Orders to Date = Current Value:	$\$36,748,500 + \$474,849 = \$37,223,349$
Completion:	May 2023
Budget:	\$43,000,000

Current Status: Work continues at the SRWTP with the startup of equipment in the Alum and Fluoride Chemical Storage Building, construction of the Administration Building, and piping work in the Filter Building. The two new filters at SRWTP passed their 30-day demonstration period and are fully operational. Work at the OBWTP includes the foundation associated with the new Chemical Storage Building, installation of backwash pumps, expansion of the existing Filter Building and sedimentation basin improvements.

2. Crozet Flow Equalization Tank

Design Engineer:	Schnabel Engineering
Construction Contractor:	Anderson Construction (Lynchburg, VA)
Construction Start:	September 2020
Percent Complete:	89%
Based Construction Contract +	
Change Orders to Date = Current Value:	$\$4,406,300 + \$71,916.31 = \$4,478,216.31$
Completion:	June 2022
Budget:	\$5,400,000

Current Status: Final construction of the tank continues with only completion of the tank dome, a second round of leak testing, and painting remaining. The new pumps are set on bases, but the new motors and variable speed drives are not yet complete. SCADA and control work is in progress.

3. MC Aluminum Slide Gate Replacements

Design Engineer:	Hazen and Sawyer
Construction Contractor:	Waco Incorporated (Sandston, VA)

Construction Start:	September 2020
Percent Complete:	95%
Base Construction Contract +	
Change Orders to Date = Current Value:	$\$373,600 + \$32,050.02 = \$405,650.02$
Completion:	April 2022
Budget:	\$675,000

Current Status: Final testing and calibration of the actuators at the headworks has resulted in discovery of additional mechanical issues with the existing mud valves. Investigative work is ongoing to resolve the issues. The contractor for the Moores Creek Pump Station slide gate inspection will complete punch list items and submit a final report to recommend the repairs and budget needed to complete the slide gate repair.

4. MC Exterior Lighting Improvements

Design Engineer:	Hazen and Sawyer
Construction Contractor:	Pyramid Electrical Contractors (Richmond, VA)
Construction Start:	April 2021
Percent Complete:	90%
Base Construction Contract +	
Change Order to Date = Current Value:	$\$349,000 + \$17,598.30 = \$366,598.30$
Completion:	May 2022
Budget:	\$600,000

Current Status: Project was nearing completion when it was discovered that some additional lighting modifications would be needed to meet County ordinance requirements. These lighting modifications will be completed in 1-2 months, depending upon the delivery of the new light fixtures.

5. MC Clarifier and Lime Silo Demolition

Design Engineer:	Hazen and Sawyer
Construction Contractor:	Pleasant View Developers (Staunton, VA)
Construction Start:	November 2021
Percent Complete:	20%
Base Construction Contract +	
Change Order to Date = Current Value:	\$649,000
Completion:	August 2022
Budget:	\$790,000

Current Status: Contractor has removed the lime silo and is rerouting the utilities necessary for the clarifier demolition. Contractor has submitted shoring plans that have been approved and following utility relocations, demolition of the clarifiers will begin.

6. Glenmore WRRF Influent Pump and VFD Addition

Design Engineer:	Wiley Wilson
Construction Contractor:	MEB (Chesapeake, VA)
Construction Start:	September 2021

Percent Complete:	5%
Base Construction Contract + Change Order to Date = Current Value:	\$288,000
Completion:	October 2022
Budget:	\$370,000

Current Status: The contractor anticipates mobilizing to the site in March.

7. 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:	5%
Base Construction Contract + Change Order to Date = Current Value:	\$8,520,312.50
Completion:	December 2023
Budget:	\$10,000,000

Current Status: ACI has acquired enough ductile iron pipe to begin work on the “Kohl’s site”.

8. MC 5kV Electrical System Upgrades

Design Engineer:	Hazen and Sawyer (Hazen)
Construction Contractor:	Pyramid Electrical Contractors (Richmond, VA)
Construction Start:	May 2022
Percent Complete:	0%
Base Construction Contract + Change Order to Date = Current Value:	\$3,905,000
Completion:	June 2024
Budget:	\$5,050,000

Current Status: A Notice of Award was issued on March 4, 2022. The Contract execution process is underway, with a Notice to Proceed to follow.

9. Scottsville WTP Lagoon Liner Replacement

Design Engineer:	Wiley Wilson
Construction Contractor:	Haren Construction Company, Inc. (Etowah, TN)
Construction Start:	May 2022
Percent Complete:	0%
Base Construction Contract + Change Order to Date = Current Value:	\$448,000
Completion:	May 2023
Budget:	\$540,000

Current Status: A Notice of Award was issued on March 4, 2022. The Contract execution process is underway, with a Notice to Proceed to follow.

Design and Bidding

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

Design Engineer:	Michael Baker International (Baker) (Right of Way)
Design Engineer:	Kimley-Horn (Design)
Project Start:	August 2018
Project Status:	Easement Acquisition & Design (10%)
Construction Start:	2025
Completion:	2028
Budget:	\$29,375,000

Current Status: Preparation of engineering plans and specifications is underway. Topographic survey work to the East of the proposed pump station site has commenced. An internal RMR Pump Station Operations Workshop was held in late February, to finalize the Hydraulic Evaluation and to allow design work to continue. Easement negotiations with one private owner, UVA, and the UVA Foundation continue.

11. South 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:	Summer 2022
Completion:	2023
Budget:	\$1,980,000

Current Status: Preparation of engineering plans and specifications is 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. Design documents have been submitted to local regulatory authorities for review.

12. 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:	73% NRCS Planning Process
Construction Start:	2024
Completion:	2026
Budget:	\$30,870,000

Current Status: Staff are moving forward with development of a Joint Permit Application and supporting documents for submission to DEQ in early 2022. Remaining NRCS requirements, including review and approval of the planning study, are scheduled for completion by October 2022. An application for design funding from NRCS will be submitted in 2022.

13. South Rivanna River Crossing

Design Engineer:	Michael Baker International (Baker)
Project Start:	November 2020
Project Status:	35% Design
Construction Start:	January 2023
Completion:	April 2024
Budget:	\$5,850,000

Current Status: Baker has recommended a water line route that will cross the river parallel to the west side of the Berkmar Bridge and follow Rio Mills Road until it intersects the new 24” water line in Route 29. RWSA staff is currently reviewing the design technical memo.

14. Central Water Line

Design Engineer:	Michael Baker International (Baker)
Project Start:	July 2021
Project Status:	5% Design
Construction Start:	2024
Completion:	2029
Budget:	\$31,000,000

Current Status: Survey and utility designation work is ongoing along the proposed 5-mile alignment. RWSA has reached out to the neighborhood associations along the proposed route and prepared an informational project flyer to share. RWSA and City staff attended virtual meetings with the Fry's Spring Neighborhood Association meeting on March 9th and the Fifeville Neighborhood Association meeting on March 10th to present information on this project.

15. 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: A revised draft alignment of the sewer line to be installed within easements and out of the roadway has been completed and provided to the City of Charlottesville and Albemarle County for review. Pending review, a determination will be made regarding whether the line will be installed in McIntire Road or an easement adjacent to the road.

Planning and Studies

16. South Rivanna Reservoir to Ragged Mtn. Reservoir Water Line Right-of-Way

Design Engineer:	Michael Baker International (Baker)
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Project Start:	October 2017
Project Status:	Easement Acquisition
Completion:	2022
Budget:	\$2,295,000

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

17. Urban Finished Water Infrastructure Master Plan

Design Engineer:	Michael Baker International (Baker)
Project Start:	November 2018
Project Status:	99% complete
Completion:	March 2022
Budget:	\$253,000

Current Status: A final draft of the master plan is under review by stakeholders and it is anticipated it will be completed this month.

18. Asset Management Plan

Design Engineer:	GHD, Inc. (GHD)
Project Start:	July 2018
Project Status:	CMMS Implementation – 65% Complete
Completion:	CMMS Implementation – August 2022
Budget:	\$1,180,000

Current Status: For implementation of the new CMMS, GHD is completing updates to our facility geodatabase and continuing the software configuration process. Necessary upgrades to both our ESRI and Cityworks software were necessary for security improvements, which has added two months to the overall implementation schedule. Discussions related to Phase 3 of RWSA’s overall Asset Management Program have begun with additional work authorizations to follow towards this effort.

19. MC Facilities Master Plan Supplement

Design Consultant:	Hazen and Sawyer (Hazen)
Project Start:	February 2022
Project Status:	5% Complete
Completion:	August 2022
Budget:	\$45,000

Current Status: The master plan has been finalized. Data collection work has begun on a supplement to include the impact of the recent wastewater collection system flow allocation analysis.

20. SRR to RMR Pipeline – Pretreatment Pilot Study

Design Consultant:	SEH
Project Start:	August 2020
Project Status:	100% Complete (Phase 1), 55% Complete (Phase 2)
Completion:	July 2022
Budget:	\$22,969 (Phase 1), \$98,629 (Phase 2)

Current Status: Phase 1, analysis of existing water quality and seasonal weather data, has been completed. SEH and staff have finalized the memo for this portion of the study. Phase 2 of the study is underway and includes detailed reservoir water quality modeling performed by DiNatale Water Consultants. Modeling efforts using the Excel-based desktop model have been completed, and while these efforts were helpful in determining high-level transfer scenarios, the more detailed reservoir model will be utilized to help better represent the future conditions at Ragged Mountain Reservoir based upon the known characteristics of the proposed transfer system.

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
2020-08	UWL-010 Leak	\$40,000
2021-08	MCAWRRF Digester Manway Sealing	\$70,000
2021-09	SLW Erosion Near SLW-022	\$20,000
2022-01	PCI-MH-10 Exploratory Excavation and Height Adjustment	\$30,000

- UWL-010 Leak: In 2020, during routine line maintenance, RWSA Maintenance Staff discovered that a blowoff valve on the Urban Waterline, UWL-010, was leaking into an adjacent creek. A blind flange was installed to stop the leakage at that time. Staff is coordinating the replacement of this defective valve with its On-Call Maintenance Contractor for the March-April timeframe. Right-of-way clearing to support this repair was completed on March 4, 2022.
- MCAWRRF Digester Manway Sealing: Staff has identified the immediate need to repair gas leaks in Digesters #1, #2 and #3 at the MCAWRRF. The gas leaks are a safety concern and are causing significant concrete degradation which has led to Digester #2 being taken out of service thereby reducing solids processing redundancy. Following external and internal inspections by our engineering consultants, it has been decided that installation of rubber seals in the manways and sample ports will mitigate gas leaks into the annular roof space and decrease further concrete degradation. Waco, Inc. was selected to perform the work under an Emergency Declaration by the Executive Director and seals were installed in Digester #2. Unfortunately, the Digester continued to leak gas once back in service so further investigative work is warranted to determine the source of the leaks and evaluate the structural integrity of the annular roof space. Waco has completed the work on Digester #1 and #2 and will complete the work on Digester #3 by April 2022 due to material delivery delays.

- Erosion Near SLW-022: In Spring 2021, staff identified an area of erosion over RWSA's 20" Southern Loop Waterline (SLW), located near Forest View Road in Albemarle County. During subsequent site visits, it was determined that an adjacent creek/stormwater channel has silted in, causing water to become redirected over the RWSA Easement during heavy rain events. Staff is coordinating easement restoration efforts through its On-Call Maintenance Contract for the March-April timeframe and is also coordinating with Albemarle County Water Resources staff on potential collaborative efforts to address the issues on the RWSA easement and improve stormwater flow in the area.
- PCI-MH-10 Exploratory Excavation and Height Adjustment: Recently, while performing sewer evaluation of the Powell Creek Interceptor (PCI), RWSA staff identified that PCI-MH-10 appears to be buried just off the shoulder of PCI-MH-10. It is unknown how deep the lid of this MH is buried, but during sewer cleaning efforts, staff could hear the equipment in the manhole. RWSA will be working with its On-Call Maintenance Contractor, Faulconer Construction, to hopefully find the manhole, and raise it to grade for future access and maintenance purposes. Work is scheduled to take place in the March-April timeframe.

22. Interceptor Sewer and Manhole Repair

Design Engineer:	Frazier Engineering
Construction Contractor:	Insituform Technologies (Chesterfield, MO)
Construction Start:	November 2017
Percent Complete:	0%
Base Construction Contract + Change Orders to Date = Current Value:	\$701,011
Expected Completion:	June 2022
Budget:	\$1,088,330 (Urban) + \$880,000 (Crozet) = \$1,968,330

Current Status: With the completion of the Upper Morey Creek Interceptor (MRI) Point Repair/New MH Installation, all rehabilitation work on the Upper MRI has been completed. Staff continues coordination on the lower Powell Creek Interceptor (PCI) and a portion of the Woodbrook Interceptor (WBI), as these are the next high-priority areas to be addressed based upon the latest CCTV footage. A bid package for applicable sewer rehabilitation was issued in December 2021, and the Contract has been awarded based upon the presentation in last month's Board packet. A Notice of Award (NOA) was issued on March 4, 2022. Rehabilitation work will start on PCI and WBI initially, before transitioning to the Crozet Interceptor (CZI).

23. Security Enhancements

Design Engineer:	N/A
Construction Contractor:	Security 101 (Richmond, VA)
Construction Start:	March 2020
Percent Complete:	99% (WA 2 & 3), 80% (WA 4)
Based Construction Contract + Change Orders to Date = Current Value:	\$718,428.00 (WA1) + \$91,130.32 (WA2) + \$128,166.69 (WA3) + \$189,698.95 (WA4) = \$1,127,423.96 (total)

Completion: December (WA 2 & 3), February 2022 (WA 4)

Budget: \$2,810,000

Current Status: Access control system installation has been completed on all exterior doors at MCAWRRF, as well as all WTP motorized gates. The Card Access System is in use at the Administration, Engineering, and Maintenance Buildings at MCAWRRF, as well as at various process buildings across the site and at the WTP gates. The only task that remains is some door and lock hardware improvements under WA #2, which will enhance the functionality of the card access system. Card access installation at the Crozet and Scottsville WTP exterior doors under WA #3 is substantially complete. Finally, WA #4 includes security conduit at the South Rivanna and Observatory WTPs that was not included in the Improvements Project. This work began on November 2, 2021, with the majority of the work at South Rivanna WTP now complete, except for the Filter Building, which is currently ongoing heavy construction work as part of the Improvements Project. Security 101's subcontractor has also completed most work at Observatory, aside from the Pretreatment Building, which is also currently undergoing heavy renovations. The subcontractor will return as these buildings become more available for the work.

History

Under Construction

1. South Rivanna and Observatory Water Treatment Plant Renovations

An informational meeting with prospective contractors was held on September 26, 2019 to maximize interest in the project. A project kickoff meeting with staff was held on November 14, 2018 and 30% design documents were provided in February. A Value Engineering Workshop took place the week of April 8, 2019, and a memo summarizing the results has been completed. Agreed upon results were incorporated into the project. The project was advertised, and bids were received. English Construction was awarded the contract and a Notice to Proceed was issued on May 18, 2020. Coordination with UVA and Dominion on a new electrical easement at the plant has been completed and documents are being finalized.

Observatory: This project will upgrade the plant from 7.7 to 10 MGD capacity. Costs to upgrade the plant to 12 MGD were determined to be too high at this time. Much of the Observatory Water Treatment Plant is original to the 1953 construction. A Condition Assessment Report was completed by SEH in October of 2013. The approved Capital Improvement Plan project was based on the findings from this report. The flocculator systems were replaced and upgraded as part of the Drinking Water Activated Carbon and WTP Improvements project (GAC). Four additional GAC contractors will be included in the design.

South Rivanna: The work herein includes expansion of the coagulant storage facilities; installation of additional filters to meet firm capacity needs; the addition of a second variable frequency drive at the Raw Water Pump Station; the relocation for the electrical gear from a sub terrain location at the Sludge Pumping Station; a new building on site for additional office, lab, control room and storage space; improvements to storm sewers to accept allowable WTP discharges; of new metal building to cover the existing liquid lime feed piping and tanks. The scope of this project will not increase the 12 MGD plant treatment capacity.

2. Crozet Flow Equalization Tank

A 2016 update to the 2006 model was completed which evaluated the I&I reduction goals previously established and future capital project needs. Based on the results of that study, it was determined that the Crozet Interceptor system and the existing Crozet Pump Stations (1 through 4) have adequate capacity to handle the 2015 peak wet weather flow from the Crozet Service Area during a two-year storm. However, as projected growth in the service area occurs, peak wet weather flows in the area under the storm conditions established in the updated model will begin to exceed the firm capacities of the pump stations by 2025. Additional I&I reductions in order to reduce flows enough to not exceed the pump station firm capacities are not feasible and as a result, the construction of a flow equalization tank was identified as the best method to alleviate wet weather capacity issues.

While the study indicates that capacity should not be an issue until 2025, a flow equalization tank would also provide a significant benefit to the maintenance of the Crozet Pumping Station system which currently lacks system storage necessary to allow adequate time to perform repairs on the pumps and the associated force mains while the system is down.

Greeley and Hansen completed a siting study to determine the location for the flow equalization tank based on the results of the comprehensive model update. The results of the siting study were reviewed with ACSA and a final tank location was determined.

A work authorization with Schnabel Engineering was finalized and a Project Kick-off Meeting was held on July 12, 2018. The construction bids were received on July 16, 2020. Anderson Construction of Lynchburg, VA was awarded the construction contract. Notice to Proceed on this project was given on October 9, 2020 and now construction is in progress.

3. MC Aluminum Slide Gate Replacements

Several large aluminum slide gates are located at the influent side of the Moores Creek Pump Station. These gates allow staff to stop or divert flow to perform maintenance activities. After repeated attempts to repair the deteriorated gates, it is now necessary to replace the gates and modify the gate arrangement. There are also several deteriorated gates at the Ultraviolet disinfection facility that leak water, causing a reduced capacity of the facility. Replacement of these gates will restore the process to full capacity. Work also includes replacement of the cast iron gates in the holding pond pump station and new actuators on the headworks gates. A Notice to Proceed for these efforts was provided on October 6, 2020. The work specific to the Moores Creek Pump Station will be bid under a separate project due to the extensive bypass pumping.

4. MC Exterior Lighting Improvements

The lighting at the 80-acre MCAWRRF consists of over 300 fixtures installed over the entire life of the facilities presence at Moores Creek. In 2019, Albemarle County investigated the lighting plan at the facility and issued a Zoning Notice of Violation.

RWSA and Albemarle County staff have been working together to best address the issue. A photometric plan of existing lighting was submitted to the county for review. RWSA has submitted a minor site plan amendment and Architectural Review Board submission that will include a large-scale replacement of non-compliant fixtures as well as address industrial lighting standards for the entire facility. The submission was approved by the County and design is underway.

The design has been completed by Hazen and Sawyer and the project was awarded to Pyramid Electrical Contractors, LLC. Notice to Proceed was provided on April 13, 2021.

5. MC Clarifier and Lime Silo Demolition

The two in-plant clarifiers were constructed in the late 1950's and were taken out of service as a result of the Odor Control Project at the plant. Due to the age of the tanks, various components have significantly deteriorated over time and no additional uses for these tanks have been identified. In addition, due to their out-of-service status, they remain empty and a safety concern for plant staff and visitors. There is also an abandoned lime silo currently located adjacent to the Solids Handling Building. Lime was previously used with the old plate and frame presses before centrifuges were installed for sludge dewatering purposes. This project will include the complete demolition of the in-plant clarifiers by removing all existing components, backfilling the area, and returning the area to open space and removing the lime silo from the plant and properly disposing of it. The project was advertised, and bids are due on July 1, 2021. A Notice of Award was issued on August 6, 2021 and a Notice to Proceed was issued on September 28, 2021.

6. Glenmore WRRF Influent Pump and VFD Addition

The 0.381-mgd water resource recovery facility, located within the Glenmore subdivision, is operated by RWSA. The facility includes an influent pumping station located immediately adjacent to the treatment facility. The Glenmore WRRF is predicted to see additional dry and wet weather flows as construction within the service area continues. Future wet weather flows will require higher influent pumping capacity and an additional pump and electrical variable frequency drive will be required to maintain firm capacity. After discussions with the Operations and Maintenance departments, installation of a new exhaust fan in the influent pump station will also be included. A work authorization for this project has been finalized and design is underway. The project was advertised, and bids are due on July 8, 2021. A Notice of Award was issued on August 6, 2021.

7. Airport Road Water Pump Station and Piping

The Rt. 29 Pump Station and Pipeline master plan was developed in 2007 and originally envisioned a multi-faceted project that reliably connected the North and South Rivanna pressure bands, reduced excessive operating pressures, and developed a new Airport pressure zone to serve the highest elevations near the Airport and Hollymead Town Center. The master plan update was completed in June of 2018 to reflect the changes in the system and demands since 2007. This project, along with the South Rivanna River Crossing and North Rivanna Transmission Main project, will provide a reliable and redundant finished water supply to the North Rivanna area. The proposed pump station will be able to serve system demands at both the current high pressure and future low-pressure conditions. These facilities will also lead to future phase implementation which will include a storage tank and the creation of the Airport water pressure zone. The North Rivanna Transmission Main improvements included under a separate CIP project have been added to this project to allow connection of the pump station to the distribution system.

Bids were opened on October 7, 2021 and this work was awarded at the October 2021 Board of Directors meeting. The contract was signed, and the pre-construction conference was held on December 9, 2021.

8. MC 5 kV Electrical System Upgrades

After discussions through the Moores Creek Facilities Master Plan, it was identified that several areas of the MCAWRRF, including the Blower Building, Sludge Pumping Building, Grit Removal Building,

Moore's Creek Pumping Station, and the Administration Building are all still connected to the original 5kV switchgear in the Blower Building. This equipment, including the associated cabling, switchgear, transformers, and motor control centers (MCCs), has a useful life expectancy of 20-30 years. Most of this equipment was installed around 1980. With the equipment having well exceeded its useful life expectancy at this point, safety is a concern given the large electric loads that the cabling and other equipment are handling on a day-to-day basis. Failure of the existing 5kV infrastructure could also result in temporary outages of certain treatment processes, and repairs could take weeks to months given the lead times associated with equipment of this age. A technical memo was provided in July 2020 by Hazen & Sawyer, which recommended that a CIP Project be added immediately to encompass replacement of the original 1980s-vintage 5kV cables, switchgear, transformers, and MCCs. A CIP Amendment Recommendation and Engineering Services Work Authorization was approved during the August 2020 Board of Directors Meeting. The Design Work Authorization was executed on October 6, 2020.

A Design Kickoff Meeting was held virtually on October 20, 2020. A site visit was attended on November 5, 2020 by Hazen & Sawyer staff, as well as RWSA Maintenance and Engineering Department staff. 50% Design Documents were provided in Spring 2021, with staff feedback provided soon thereafter. A follow-up site visit by Hazen was performed in July 2021, in order to confirm the availability of spare conduits across the site and plan for the associated cable replacements. 95% Design Documents were provided by Hazen in September 2021, and staff returned comments in October 2021. Field work was conducted in Fall 2021 to evaluate the condition of conduits within the existing duct bank network, as well as verify pathways and connectivity within the network.

A Request for Bids (RFB) was issued on December 22, 2021, and bids were submitted on February 3, 2022. A Construction Contract Award for Pyramid Electrical Contractors was approved by the RWSA Board of Directors on February 22, 2022, and a Notice of Award (NOA) was provided to Pyramid on March 4, 2022.

9. Scottsville WTP Lagoon Liners Replacement

The Scottsville Water Treatment Plant (WTP) has two lined lagoons that receive filter backwash water, filter-to-waste water, and flow from the sedimentation basin sludge collectors. The lagoons are regulated under the Virginia DEQ VPDES permit program. The earthen lagoons are original to the plant and were lined at the request of DEQ in 2007 to prevent water infiltration out of the lagoons.

Recently, the lagoon liners have shown signs of degradation from ultraviolet sunlight. As such, a liner replacement project was added to the FY 22-26 CIP to begin in FY23 and be completed in FY24. Unfortunately, in early June '21, the liner in one of the lagoons failed during a high flow event. DEQ has been notified and the lagoon taken out of service, leaving the plant with only one remaining lagoon. In order to advance replacement of the liners, bid documents were developed, a Request for Bids was issued on January 4, 2022, and bids were received on February 1, 2022. A Notice of Award was provided to Haren Construction on March 4, 2022.

Design and Bidding

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

A Work Authorization was executed in December 2018 with Michael Baker International for the raw water line routing study, preliminary design, plat creation and the easement acquisition process for this portion of the project. Raw water is transferred from the Ragged Mountain Reservoir (RMR) to the Observatory Water Treatment Plant (WTP) by way of two 18-inch cast iron pipelines, which have been in service for more than 110 and 70 years, respectively. The increased frequency of emergency repairs and expanded maintenance requirements are one impetus for replacing these pipelines. The proposed water line will be able to reliably transfer water to the expanded Observatory plant. The new pipeline will be constructed of 36-inch ductile iron and will be approximately 2.6 miles feet in length. The segment of the project immediately east of the RMR will constitute a portion of the proposed South Rivanna Reservoir to RMR raw water main project as part of the approved 50-year Community Water Supply Plan.

The RMR to Observatory WTP raw water pump station is planned to replace the existing Stadium Road and Royal pump stations, which have exceeded their design lives or will require significant upgrades with the Observatory WTP expansion. The pump station will pump up to 10 million gallons per day (MGD) of raw water to the Observatory WTP. The new pump station site selection and design are being conducted in coordination with the South Rivanna Reservoir to RMR pipeline in the interest of improved operational and cost efficiencies. An integrated pump station would also include the capacity to transfer up to 16 MGD of raw water from RMR back to the SR WTP.

Both Design Work Authorizations received Board of Directors approval on July 27, 2021. A kickoff meeting was held on September 17, 2021, and a meeting to begin establishing boundary conditions for the RMR Pump Station was held on October 25, 2021. An internal RMR Pump Station Operations workshop was held on February 23, 2022 to set the boundary conditions for the facility, and this information was provided promptly to the Design Consultant to allow design efforts to continue progressing.

11. South Rivanna Reservoir to Ragged Mtn. Reservoir Raw Water Line -Birdwood to Old Garth

This project is the continuation of the SRR to RMR 36" raw water pipeline built on the Birdwood Golf Course. Design efforts were authorized in June 2021 with construction anticipated in Summer 2022.

12. Beaver Creek Dam and Pump Station Improvements

Dam: A spillway upgrade alternative for the dam has been selected and was presented in a public meeting on October 6, 2021. A new raw water pump station site and pipe access route were selected and approved by the Board in August 2021. RWSA operates the Beaver Creek Dam and reservoir as the sole raw water supply for the Crozet Area. In 2011, an analysis of the Dam Breach inundation areas and changes to Virginia Department of Conservation and Recreation (DCR) *Impounding Structures Regulations* prompted a change in hazard classification of the dam from Significant to High Hazard. This change in hazard classification requires that the capacity of the spillway be increased. This CIP project includes investigation, preliminary design, public outreach, permitting, easement acquisition, final design, and construction of the anticipated modifications. Work for this project will be coordinated with the new relocated raw water pump station and intake and a reservoir oxygenation system project.

Schnabel Engineering developed three alternatives for upgrading the capacity of the Beaver Creek

Dam Spillway in 2012. Following the adoption of a new Probable Maximum Precipitation (PMP) Study on December 9, 2015 and the release of DCR guidelines for implementing the PMP study in March of 2016, RWSA determined it would proceed with an updated alternatives analysis and Preliminary Engineering Report for upgrading the dam spillway. Following the completion of an updated alternatives analysis by Schnabel Engineering, staff met with members of Albemarle County and ACSA staff to discuss the preferred alternative. It was determined that staff would proceed with design of a labyrinth spillway and chute through the existing dam with a bridge to allow Browns Gap Turnpike to cross over the new spillway.

In 2020, staff received grant funding for a planning and environmental study from the Natural Resources Conservation Service (NRCS). The project kicked off in August 2020 and is expected to be completed in July 2022. Following completion of the study and acceptance of the Plan-Environmental document by NRCS, staff will pursue additional grant funding through NRCS that, if available, could cover up to 65% of final design and construction costs.

Pump Station: The Drinking Water Infrastructure Plan for the Crozet water service area, developed by Hazen and Sawyer, recommends installation of a new Raw Water Pump Station and Intake at the Beaver Creek Dam in order to meet new minimum instream flow requirements and provide adequate raw water pumping capacity to serve the growing Crozet community for the next 50 years. The pump station will be moved out of its existing location at the toe of the dam to a new location, to be determined during design. The new intake structure will include enhanced controls to allow for access to the best quality water at any given time.

13. South Rivanna River Crossing

RWSA has previously identified through master planning that a 24-inch water main will be needed from the South Rivanna Water Treatment Plant (SRWTP) to Hollymead Town Center to meet future water demands. Two segments of this water main were constructed as part of the VDOT Rt. 29 Solutions projects, including approximately 10,000 LF of 24-inch water main along Rt. 29 and 600 LF of 24-inch water main along the new Berkmar Drive Extension, behind the Kohl's department store. To complete the connection between the SRWTP and the new 24-inch water main in Rt. 29, there is a need to construct a new river crossing at the South Fork Rivanna River. Acquisition of right-of-way will be required at the river crossing.

14. Central Water Line

Route alignment determination, hydraulic modeling, and preliminary design were underway in 2017. Due to the complicated nature of our finished water systems, it was decided at the August 2018 Board meeting that a more comprehensive approach was warranted, and we should complete the Finished Water Master Plan prior to moving forward with final design and construction of the Central Water Line (formerly referred to as the Avon to Pantops Water Main). The focus of this project was on the southern half of the urban area water system which is currently served predominantly by the Avon Street and Pantops water storage tanks. The Avon Street tank is hydraulically well connected to the Observatory Water Treatment Plant, while the Pantops tank is well connected to the South Rivanna Water Treatment Plant. The hydraulic connectivity between the two tanks, however, is less than desired, creating operational challenges and reduced system flexibility. In 1987, the City and ACSA developed the Southern Loop Agreement which laid out two key phases (with the first being built at the time). The 1987 Agreement and planning efforts were a starting point for this current project. An engineering contract has been negotiated and was approved by the Board of Directors in July 2017. Recent efforts and modeling for the Urban Finished Water Infrastructure Master Plan have determined

that a central water line corridor through the City is the best option to hydraulically connect the Observatory Water Treatment Plant to the Pantops area, with connections to City water lines to support the water distribution system in the City and County.

15. Upper Schenks Branch Interceptor, Phase II

The Schenks Branch Sanitary Sewer interceptor is a pipeline operated by RWSA that serves the City of Charlottesville. The 21-inch sewer line was originally constructed by the City in the 1950s. Evaluations from the flow metering and modeling from the Comprehensive Sanitary Sewer Interceptor Study, and negotiations with the ACSA and City, resulted in an inflow and infiltration reduction plan from which it was concluded that increased capacity of the Schenks Branch Interceptor was needed for wet weather peak flow. Due to several road construction projects and the construction of the Meadow Creek Interceptor project along the sewer alignment, Schenks Branch was to be constructed in multiple phases. The completed sections, collectively known as the Lower Schenks Branch Interceptor, include the Tie-in to Meadow Creek, the section along McIntire Road Ext, and the section through the Route 250 Interchange.

The remaining sections, which are considered the Upper Schenks Branch Interceptor, were split into 2 phases. The first phase has been completed and is located within City-owned Schenks Greenway adjacent to McIntire Road, and the second phase is being evaluated to determine whether it will be installed in an easement on County property (baseball field and County Office Building) adjacent to McIntire Road or in McIntire Road itself.

Planning and Studies

16. South Rivanna Reservoir to Ragged Mtn. Reservoir Water Line Right-of-Way

The approved 50-year Community Water Supply Plan includes the construction of a raw water line from the South Rivanna Reservoir to the Ragged Mountain Reservoir. This water line will replace the existing Upper Sugar Hollow Pipeline and increase raw water transfer capacity in the Urban Water System. The preliminary route for the water line followed the proposed Route 29 Charlottesville Bypass; however, the Bypass project was suspended by VDOT in 2014, requiring a more detailed routing study for the future water line. This project includes a routing study, preliminary design, and preparation of easement documents, as well as acquisition of water line easements along the approved route.

Baker has completed the routing study. Preliminary design, plat creation and the acquisition of easements are underway. Property owners were contacted to request permission to access properties for topographical surveying. A community information meeting was held in June 2018.

17. Urban Finished Water Infrastructure Master Plan

As identified in the 2017 Strategic Plan, the Authority has a goal to plan, deliver and maintain dependable infrastructure in a financially responsible manner. Staff has identified asset master planning as a priority strategy to improve overall system development. Many previously identified projects in the urban finished water treatment and distribution system are in preliminary engineering, design, or construction. As such, staff have identified a need to develop a current and ongoing finished water master plan.

18. Asset Management Plan

Asset management is the practice of managing our infrastructure to minimize the total cost of owning and operating these assets while providing desired service levels. In doing so, it is used to make sure planned maintenance activities take place and that capital assets are replaced, repaired, or upgraded at the right time, while ensuring that the money necessary to perform those activities is available. RWSA has some components of an asset management program in place (i.e. GIS, work order system), but has identified the need to further develop the program as part of our Strategic Planning process. In order to continue to build the program, a consultant has been procured to assist with a three-phase process that will include facilitation and development of an asset management strategic plan, development, and management of a pilot study where the results of the strategic plan will be applied to a specific class of assets, and assistance through a full implementation process. As part of this three-phase process, the consultant also assisted RWSA with the procurement of a new CMMS software package to facilitate the overall program. Cityworks was selected and implementation has begun.

19. MC Facilities Master Plan

The majority of the Moores Creek Water Resource Recovery Facility was constructed in the early 1980's. At the time, the plant layout was developed with space held open for future process expansion. With the Enhanced Nutrient Removal (ENR) project in 2009, the operation and layout of the plant was fundamentally altered, as needed to meet the new regulation. The project did anticipate the need for future expansion and some of the processes have readily available space. However, a full expansion plan was not developed at the time. As identified in the Strategic Plan, the Authority has a goal to plan, deliver and maintain dependable infrastructure in a financially responsible manner. Staff has identified asset master planning as a priority strategy to improve overall system development. As such, this project will serve to evaluate and plan for future space and process needs to accommodate capacity expansion and/or anticipated regulatory changes.

20. SRR to RMR Pipeline – Pretreatment Pilot Study

As part of the SRR to RMR Pipeline project, the impact of sending raw water from the SRR to RMR has been previously studied and a significant amount of pretreatment was initially identified as being needed to avoid reducing the quality of the raw water contained within the RMR. With the pipeline easement acquisition process well underway and additional information now available associated with the proposed timing of this overall project based on water demand projections, the intent of this project is to update the pretreatment needs anticipated.

The study is anticipated to be completed in 4 phases: 1. Analysis and Correlation of Existing Water Quality and Seasonal Weather Data 2. Enhanced Water Quality Sampling 3. Pretreatment Piloting 4. Level Setting for the Final Pretreatment Solution. Phase 1 commenced in January 2021 and was completed in July 2021. Phase 2 began in June 2021. The Excel Desktop Modeling portion of the analysis was completed in February 2022.

Other Significant Projects

21. Urgent and Emergency Repairs

- **South Rivanna Dam Apron and Riverbank Repairs**

Intense rainfall between May 30-31, 2018 resulted in extensive flooding throughout Charlottesville

and parts of Albemarle County, with flows over the South Fork Rivanna Dam reaching more than 7 feet over the spillway crest at its peak. Staff has inspected the dam and abutments to determine the extent of damage resulting from the extreme flooding. Although there is no discernible damage to the dam itself, staff found erosion damage to the north downstream riverbank and substantial displacement of large stone downstream of the dam to form a rock dam and pool below the north apron. Additionally, some damage to concrete structures on both aprons was noted, including possible creation of voids beneath the concrete and loss of concrete joint filler. Repairs to the riverbank and removal of the rock dam were completed June 3-7, 2019 under RWSA's on-call construction contract.

- **Urban Water Line Valve and Blow-off Repair**

During its routine inspections of the Water System, the Maintenance Department discovered a blowoff (drain) valve along the Urban Waterline (UWL-017) that had significant leakage. In addition, during one of the numerous heavy rain events received in 2018, the water in the creek adjacent to the drain line rose, eroding the area around the drain line and causing the headwall to become disconnected from the end of the pipe. Staff will be coordinating internally to confirm the overall scope of the project, including whether the drain line will need to be further reinforced or restrained.

22. Interceptor Sewer and Manhole Repair

Results from sewer flow monitoring and modeling under the Comprehensive Sanitary Sewer Study provided awareness to specific inflow and infiltration (I&I) concerns in the collection system and resulted in strengthened commitments from the City, ACSA and RWSA to continue professional engineering services to aid in the rehabilitation and repair of the sewer collection system. Engineering services will be used for sewer infrastructure condition assessments and the development of a sewer rehabilitation bid package for the procurement of a contractor to perform the recommended rehabilitation work.

Lining work and manhole rehabilitation on the Upper Morey Creek Interceptor began in Fall 2019 and was completed in Fall 2020. A critical section of upper Morey Creek Interceptor under Rt. 250 was lined on August 28, 2020. 65' of new ductile iron sewer to replace a sagging section of vitrified clay piping was installed in May 2021. Tri-State Utilities completed over 3,000 LF of Sewer Cleaning and CCTV under RFQ No. 1105 in October 2021 on high-priority portions of the Powell Creek and Woodbrook Interceptors.

A bid package was developed to address the highest priority known defects on the Powell Creek, Woodbrook, and Crozet Interceptors. A Request for Bids (RFB) was issued on December 22, 2021, and bids were submitted on February 3, 2022. A Construction Contract Award for Insituform Technologies was approved by the RWSA Board of Directors on February 22, 2022, and a Notice of Award (NOA) was provided to Pyramid on March 4, 2022.

23. Security Enhancements

As required by the Federal Bioterrorism Act of 2002 and the American Water Infrastructure Act of 2018, water utilities must conduct Vulnerability Assessments and have Emergency Response Plans. RWSA recently completed an updated Risk Assessment of its water system in collaboration with the Albemarle County Service Authority (ACSA), City of Charlottesville (City), and University of Virginia (UVA). A number of security improvements that could be applied to both the water and wastewater systems were identified. The purpose of this project will be to install security improvements at RWSA facilities including additional security gate and fencing components, vehicle

bollards, facility signage, camera system enhancements, additional security lighting, intrusion detection systems, door and window hardening, installation of industrial strength locks, communication technology and cable hardening, and an enhanced access control program.

RWSA Engineering staff held a meeting with Operations staff to discuss overall project needs and priorities in October 2018. Meetings with ACSA and City staff were held in Fall/Winter 2018-2019 to discuss how access control and intrusion detection systems have been implemented into to the day-to-day operations of the two utilities. A Request for Proposal (RFP) for an Implementer to facilitate selection of an access control system, confirmation of design requirements based upon RWSA's facilities and project goals, and installation of the selected system was issued on June 6, 2019. RWSA conducted a Pre-Proposal Meeting on June 14, 2019, and proposals were opened on June 27, 2019. Interviews were conducted on July 15-16, 2019, and a Contract Award Recommendation was approved by the Board on July 23, 2019. Access Control System Installation at MCAWRRF began in March 2020. Access Control System Installation was completed in the Administration and Engineering Buildings by the week of November 30, 2020, completing installation of the physical access control system across the MCAWRRF site. Training for staff was completed on November 10, 2020. RWSA authorized improvements to locks and doors across the MCAWRRF site on May 4, 2021, in order to improve the condition of the hardware and subsequently, operations of the access control system. In addition, installation of the card access system on all exterior doors at the Scottsville and Crozet Water Treatment Plants (SVWTP and CZWTP, respectively) was authorized shortly thereafter. RWSA also authorized installation of security conduits not already included at SRWTP and OBSWTP under the Improvements Project in August 2021.

Access Control on exterior doors at the CZWTP and SVWTP was substantially completed in November 2021.



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 2022

DATE: MARCH 22, 2022

The monthly and average daily Urban water system usages by the City and the ACSA for February 2022 were as follows:

	<i>Month</i>	<i>Daily Average</i>	
City Usage (gal)	129,402,544	4,621,519	52.7%
ACSA Usage (gal)	116,097,779	4,146,349	47.3%
Total (gal)	245,500,323	8,767,869	

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 2021), and that usage relative to the maximum allocation for each party (6.71 MGD for the City and 11.99 MGD for ACSA).

Figure 1: City of Charlottesville Monthly Water Usage and Allocation

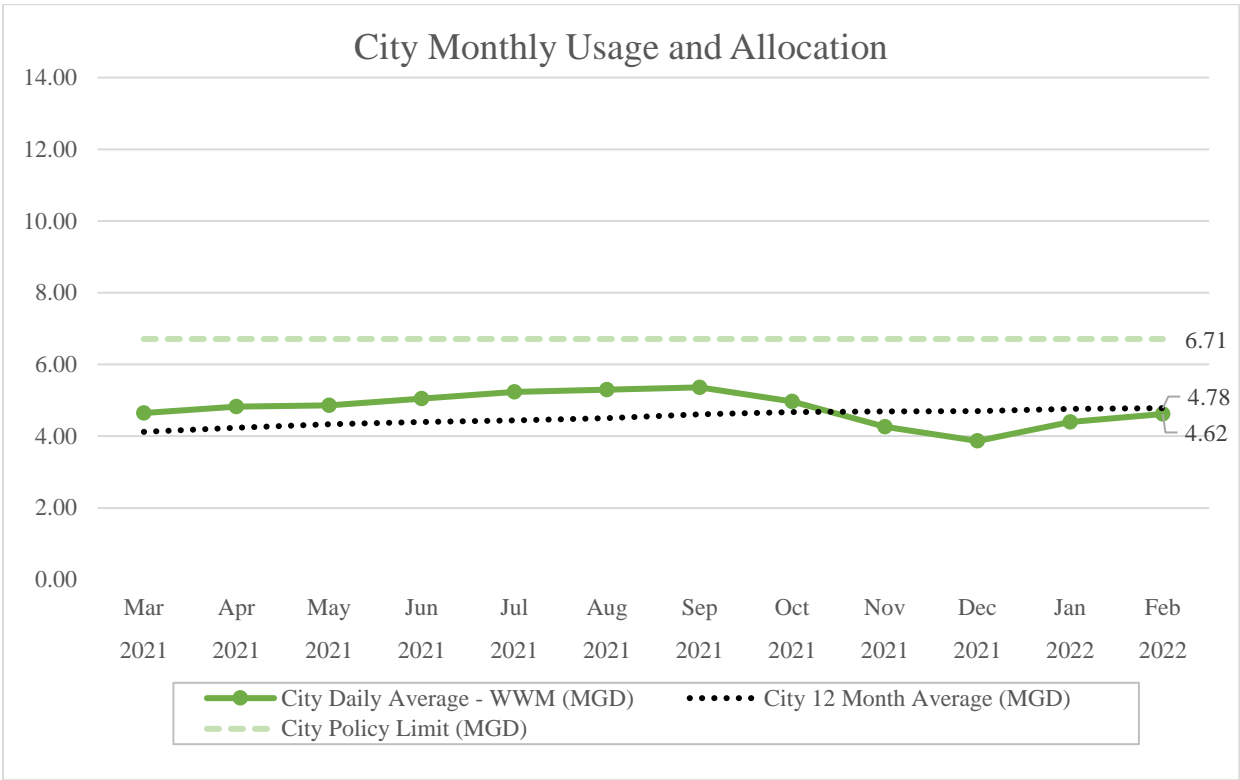
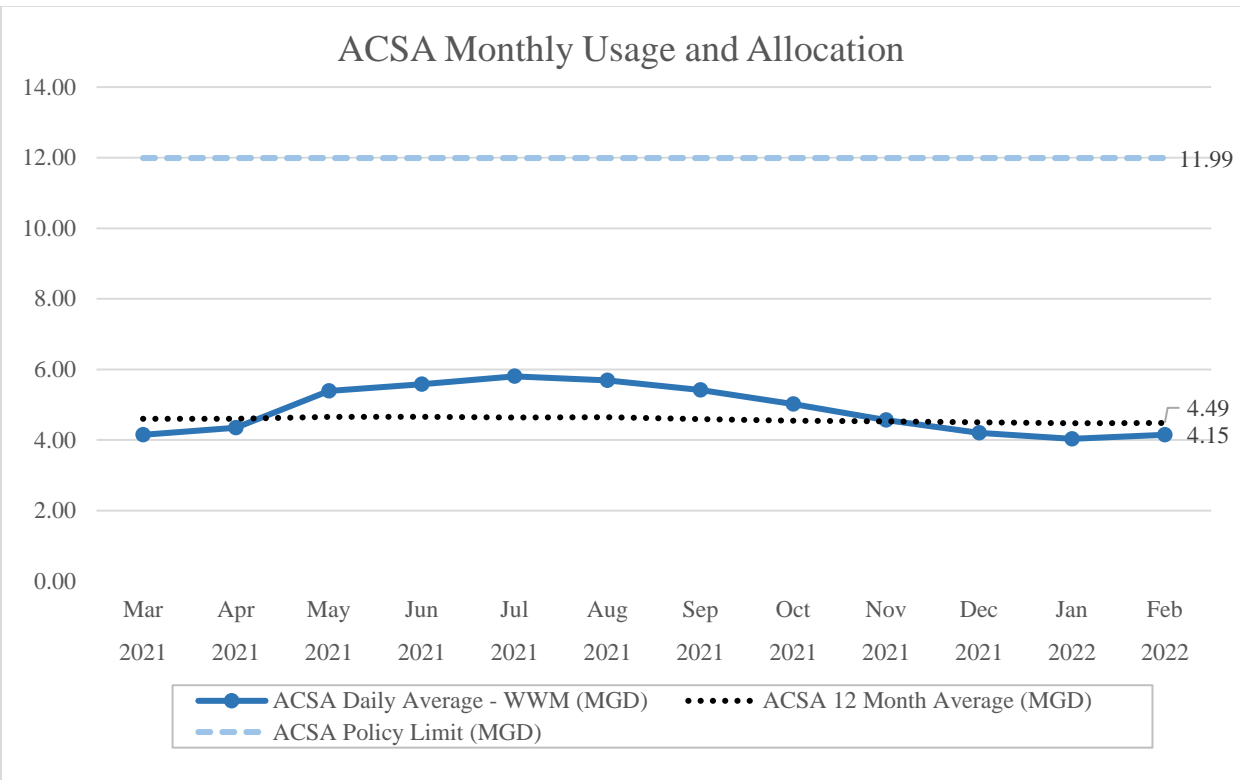


Figure 2: Albemarle County Service Authority Monthly Water Usage and Allocation



Memorandum

Date: 3/10/22

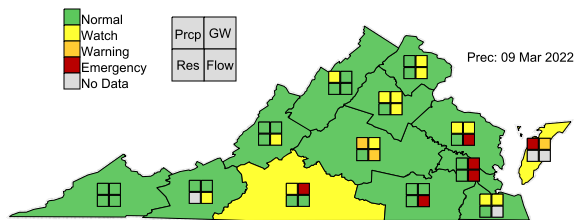
To: Bill Mawyer

From: Andrea Bowles

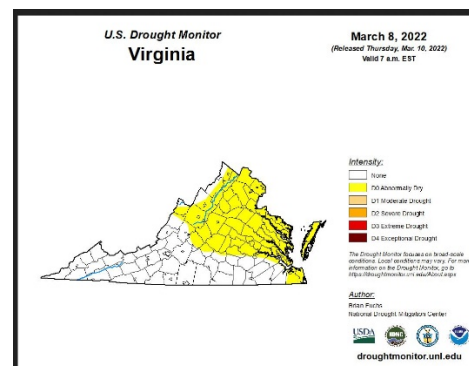
Cc: Dave Tungate; Daniel Campbell; Jennifer Whitaker; Wayne Barnes

Re: Drought Monitoring Report

Current Status DEQ and USDA



VA DEQ Drought Status 3-9-2022



U.S. Drought Monitor 3-8-2022

The Virginia Drought Monitoring Task Force (DMTF) last met on March 3, 2022. No drought phases have been initiated, and the DEQ Drought Status and U.S. Drought Monitor indicate no drought conditions for the area. However, there are watch or warning status for precipitation, groundwater levels and streamflows. The next meeting of the DMTF is scheduled for April 7, 2022.

DEQ Current Drought status is: Normal

Precipitation

Charlottesville Precipitation			
Month	Observed (in.)	Normal (in.)	Departure (in.)
2021	33.82	41.61	-7.79
January 2022	3.79	2.96	+0.83
February	1.48	2.35	-0.87
Year-to-date	5.78	6.26	-0.48

Source: National Weather Service, National Climatic Data Center (NCDC).

Current Reservoir Status

Reservoir	Level (ft)	% Full	Useable Storage Volume (MG)	Rainfall (in)	Flow Release to River#
Sugar Hollow *	Full	100.00	339.4	0.00	Spillway overflow
Ragged Mountain	Ful	100.00	1,432.9	0.0	Spillway overflow
South Rivanna	Full	100.00	884.9	0.00	Spillway Overflow
Totier Creek	Full	100.00	155	0.00	Spillway overflow
Beaver Creek	Full	100.00	499.62	0.00	Spillway overflow

The Sugar Hollow Reservoir to Ragged Mountain Reservoir transfer line was closed on January 5, 2022.

Urban Reservoirs useable capacity of 100 percent.

USGS Gaging Stations Near Urban Area

Rolling 7-day avg: Mar 3 – Mar 9, 2022

Median daily flow: Mar 10, 2022; for the periodic of record (approx. 30 - 80 years)

Gage #	Streamflow: rolling 7- day avg		Streamflow: median daily flow	
	cfs	mgd	cfs	mgd
1	52.8	33.88	124	80.14
2*	47.5	30.73	127	82.08
3	75.8	49.01	143	92.42
4	165.0	106.63	404	261.09

1. 02031000 Mechums River near White Hall, VA
<https://waterdata.usgs.gov/usa/nwis/uv?02031000>
2. 02032250 Moormans River near Free Union, VA
https://nwis.waterdata.usgs.gov/va/nwis/uv?site_no=02032250
3. 02032640 N F Rivanna River near Earlysville, VA
https://waterdata.usgs.gov/va/nwis/uv/?site_no=02032640&PARAMeter_cd=00065,00060,00062
4. 02032515 S F Rivanna River near Charlottesville, VA
https://waterdata.usgs.gov/va/nwis/uv/?site_no=02032515&PARAMeter_cd=00065,00060,62620,62614

Oasis Modeling

- RWSA has not run the drought model recently. Staff will continue to carefully monitor for drought.

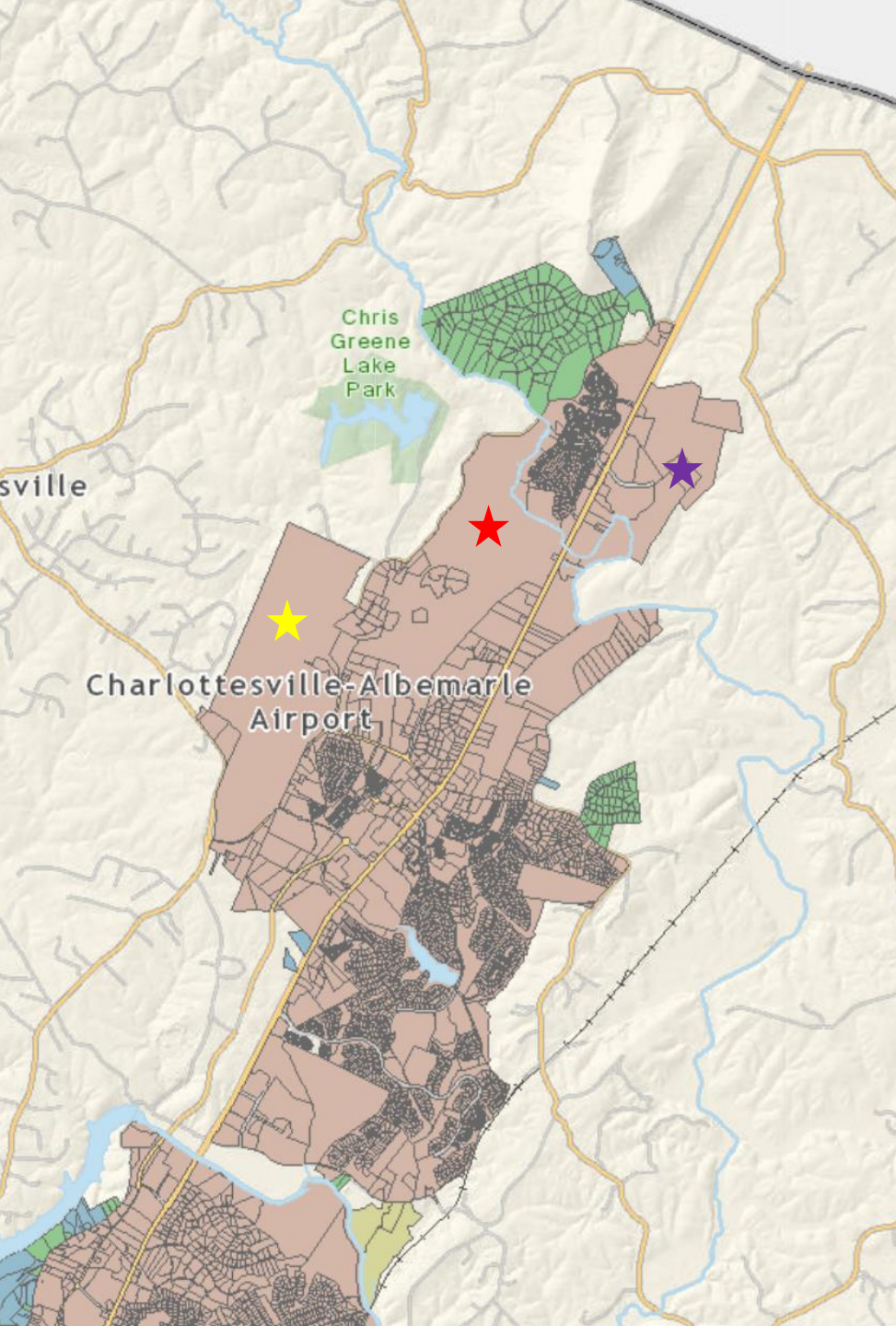


Plan for Urban Utilities, Northern Urban Area

For: Board of Directors

By: Jennifer Whitaker, Director of Engineering & Maintenance

March 22, 2022

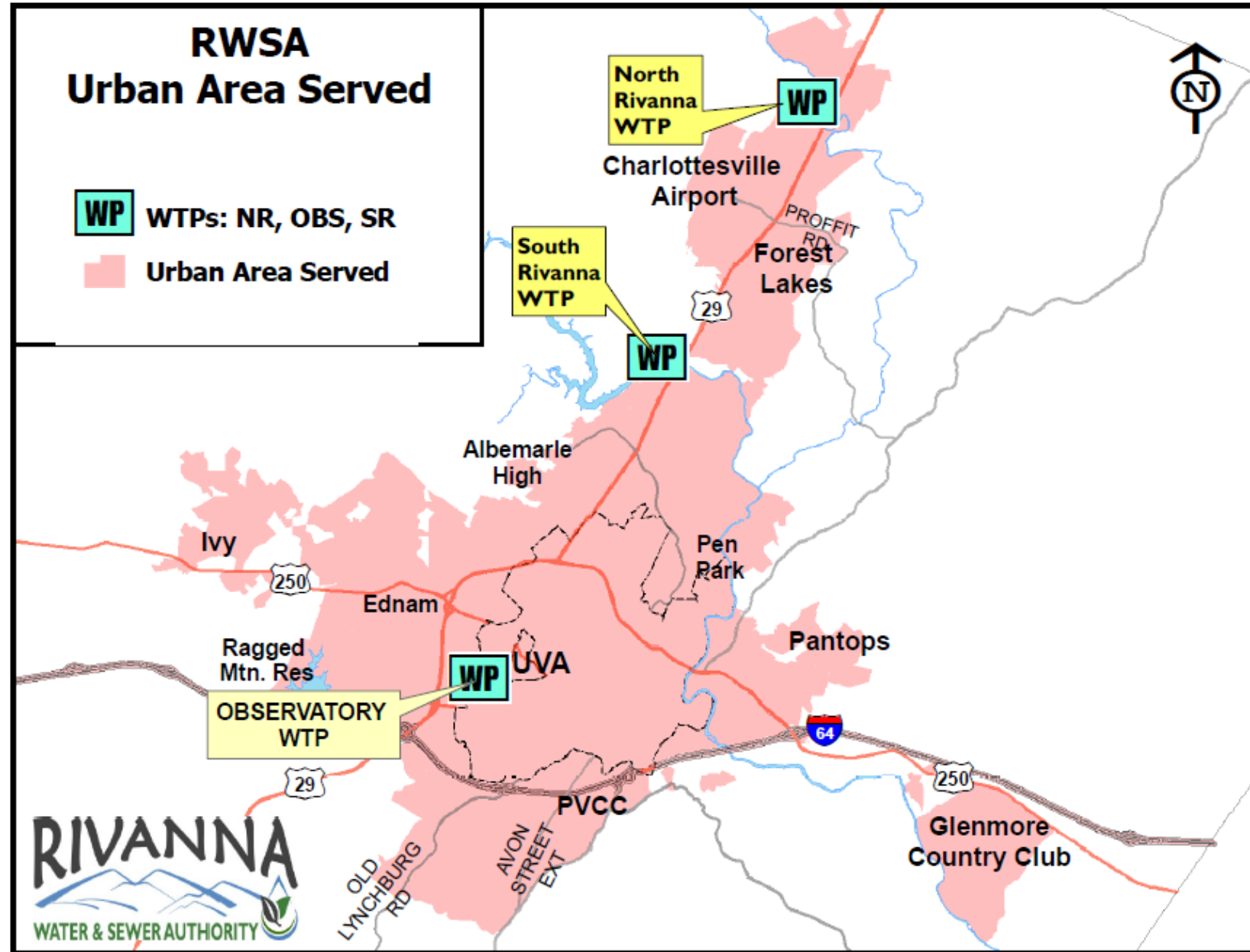


Planning and Coordination

- RWSA and ACSA have recently been approached about water and sewer availability for major projects envisioned in the northern Urban utility systems along Rt.29.
- This includes growth areas such as the UVA North Fork Research Park★, National Ground Intelligence Center★, and the Airport★, as well as other residential and commercial districts envisioned within Albemarle's "Places29" Master Plan.
- RWSA, ACSA and the City have a plan to systematically improve drinking water infrastructure to serve these areas, as well as areas of the City including UVA, in a strategic and affordable manner over the next 10 - 15 years. Sewer infrastructure improvements are also planned for the 2050-2060 timeframe.
- Future projects with significant utility demands in these areas will need to coordinate with our infrastructure plans and schedules.

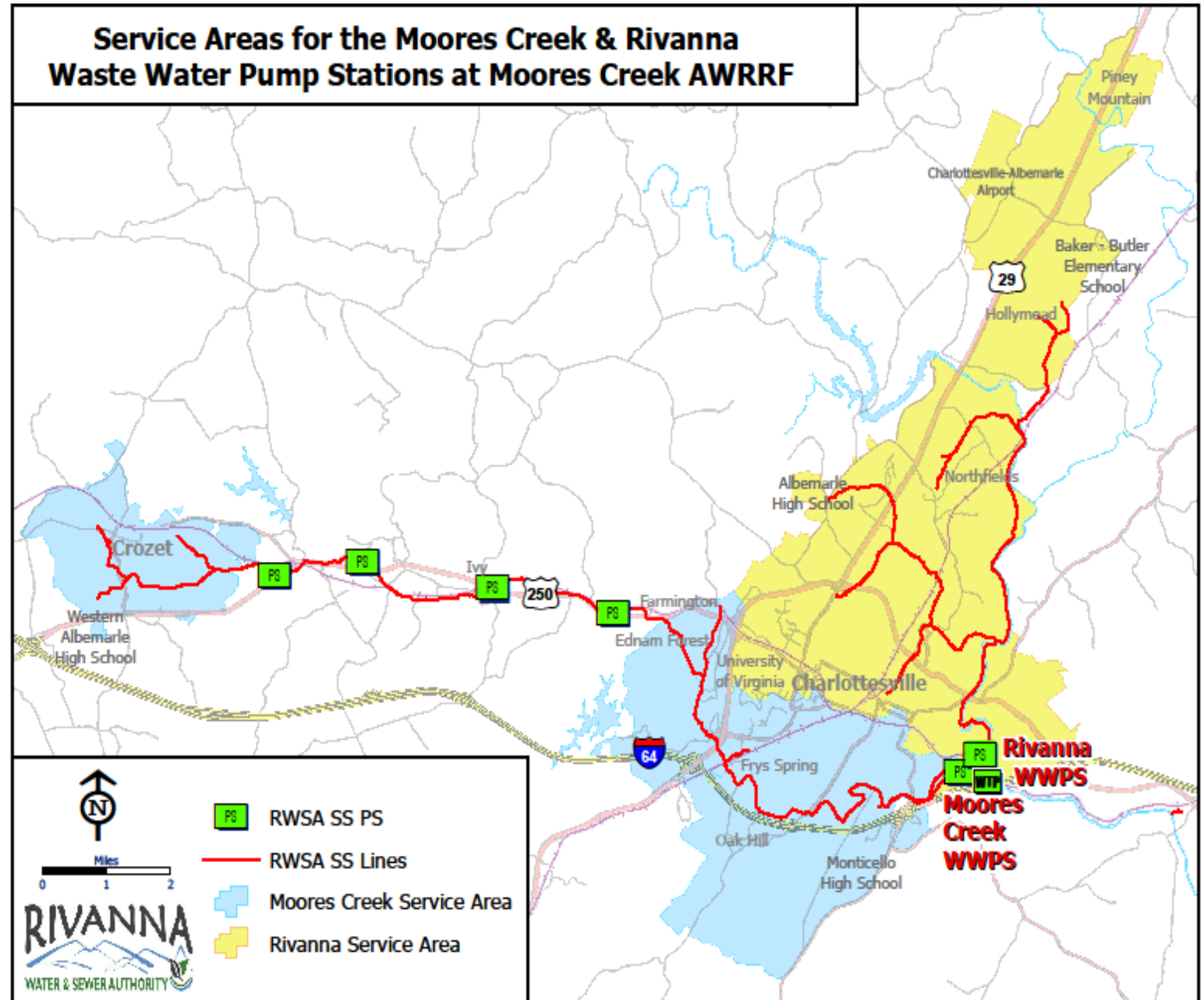
Urban Water Treatment System

S. Rivanna WTP	12 MGD
Observatory WTP	7.7 MGD
N. Rivanna WTP	<u>2 MGD</u>
	21.7 MGD



Urban Wastewater System

Moore's Creek: 15 mgd



On-Going Planning Efforts

RWSA Strategic Plan Goal: **Infrastructure and Master Planning**

- *To plan, deliver, and maintain dependable infrastructure in a financially responsible manner.*

September 2016 – Comprehensive Sanitary Sewer Model Report

July 2020 – Urban System Water Demand Forecast Report

- *Considers Comprehensive Plans from the County, City and UVA ***

July 2020 – Urban Safe Yield and Reliability Analysis Update Report

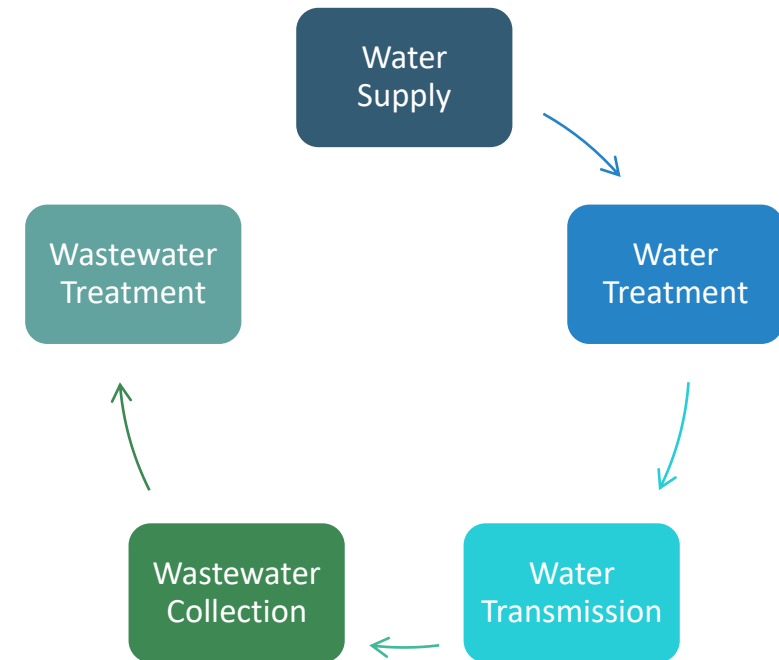
July 2021 – Wastewater Cost Allocation Analysis

January 2022 – North Rivanna WTP Decommissioning Study

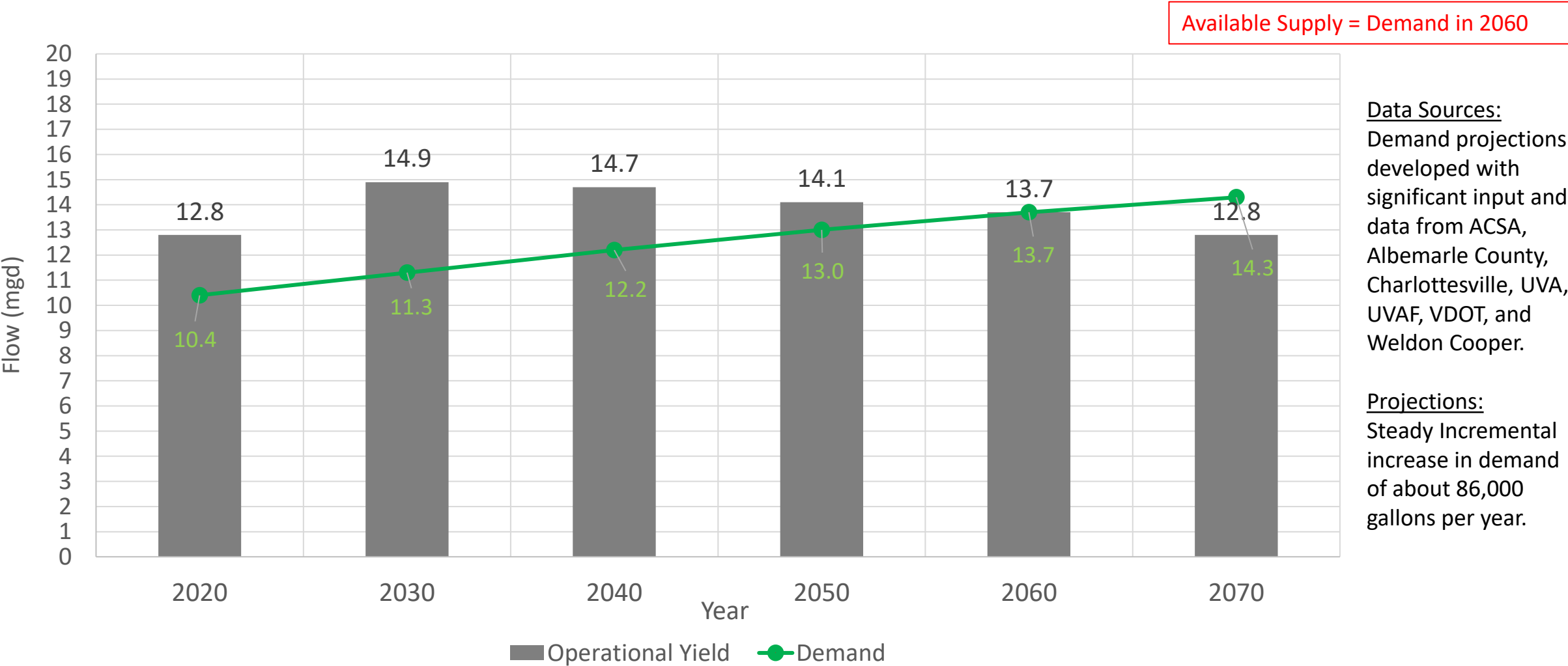
February 2022 – Moores Creek AWRR Facility Master Plan**

April 2022 – Urban Finished Water Master Plan **

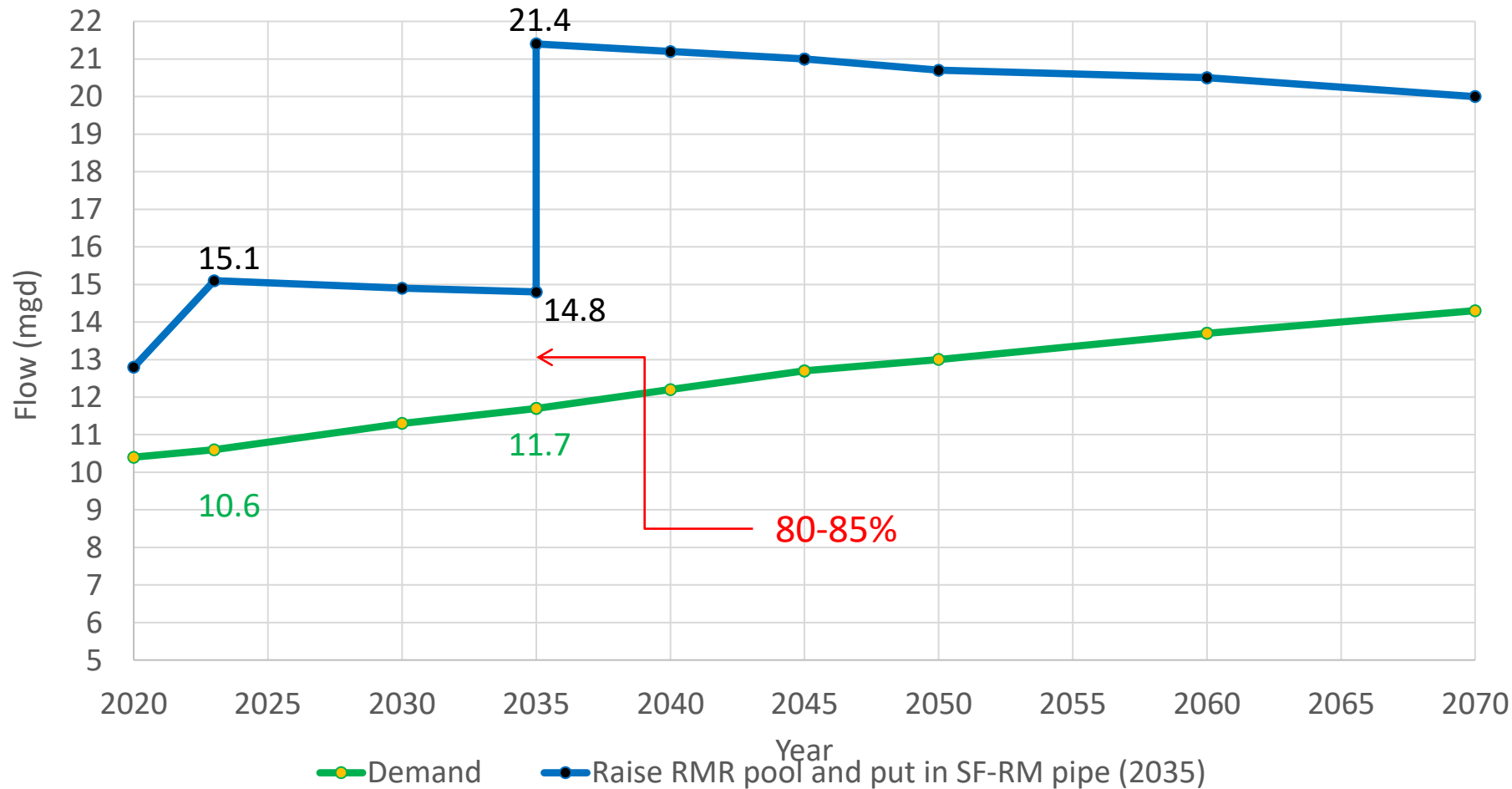
Ongoing Finished Water and Wastewater Flow Monitoring



Available Water Supply vs Demand | 2020 - 2070



Safe Yield| Build Pipeline and Raise RMR Pool by 2035



- Build pipeline 2027-2035
- Raise RMR Pool by 2035, adding 700 MG
- Available Water Supply will be adequate until 2120
- Can be completed within the term of new permits (2038)
- Adds redundancy, resiliency, operational and environmental benefits

Existing Drinking Water Infrastructure

- Northern urban area is supplied primarily by the North Rivanna WTP. Augmented during emergencies by a portable diesel pump near Kohl's with above-ground hoses.
- NR WTP in need of wholesale plant upgrade which limits it to just under **1 mgd**. Current Average Day demand is approx. **0.5 mgd**.
- Recent Safe Yield modelling has shown that during droughts the NR River can supply no more than **0.75 mgd**.
- Remaining water demands must be supplied from the south via:
 - 50-year old mains crossing the South Rivanna (16") and North Rivanna River (12");
 - the existing SR WTP capacity (currently being renovated), and
 - the existing operational safe yield of the Urban raw water supply.
- In order to meet the future capacity needs of Northern Albemarle, system-wide improvements will be needed.

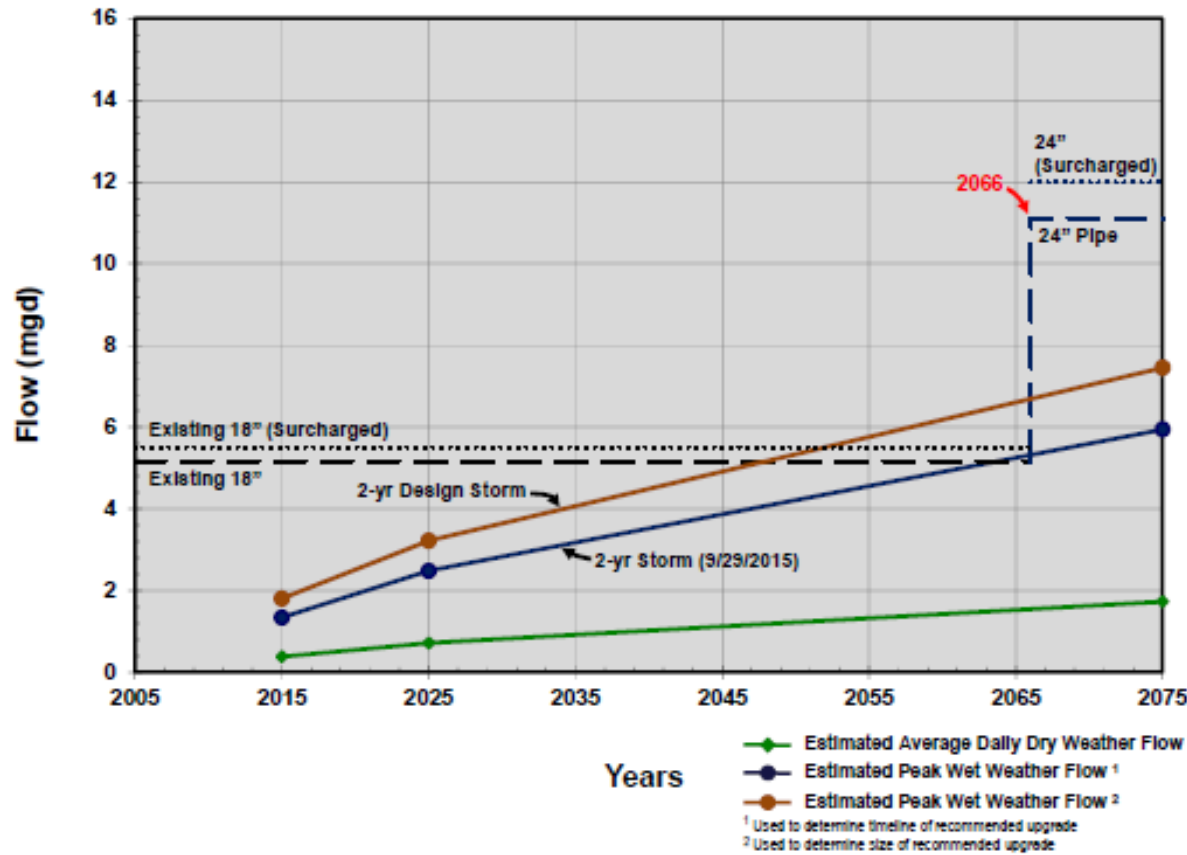
Northern Area Water Improvements Plan



	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
IMPROVEMENTS REQUIRES FOR NRWTP DECOMMISSIONING		ARPS CONSTRUCTION		\$10M									
IMPROVEMENTS FOR ARPS / NORTH RIVANNA ZONE RELIABILITY			2 ND SFR RIVER CROSSING		\$5.9M			2 ND NFR RIVER CROSSING				\$5.7M	
IMPROVEMENTS FOR URBAN ZONE RELIABILITY	OBWTP / SRWTP IMPROVEMENTS		CENTRAL WATER LINE							\$43M & \$31M			
IMPROVEMENTS FOR LONG-TERM SYSTEM RELIABILITY			RMR TO OBWTP PIPE & RWPS						\$30M				
							SFRR TO RMR TRANSFER SYSTEM						\$80M
ANTICIPATED NRWTP DECOMMISSIONING					NRWTP DECOMMISSIONING		\$2.5M						
DEMAND DRIVEN IMPROVEMENTS*								ADDITIONAL PUMPING AND TANK STORAGE					\$5M

Upgrade Powell Creek Wastewater Interceptor

Powell Creek Interceptor Flow Management Plan for Reach PC-5



Summary

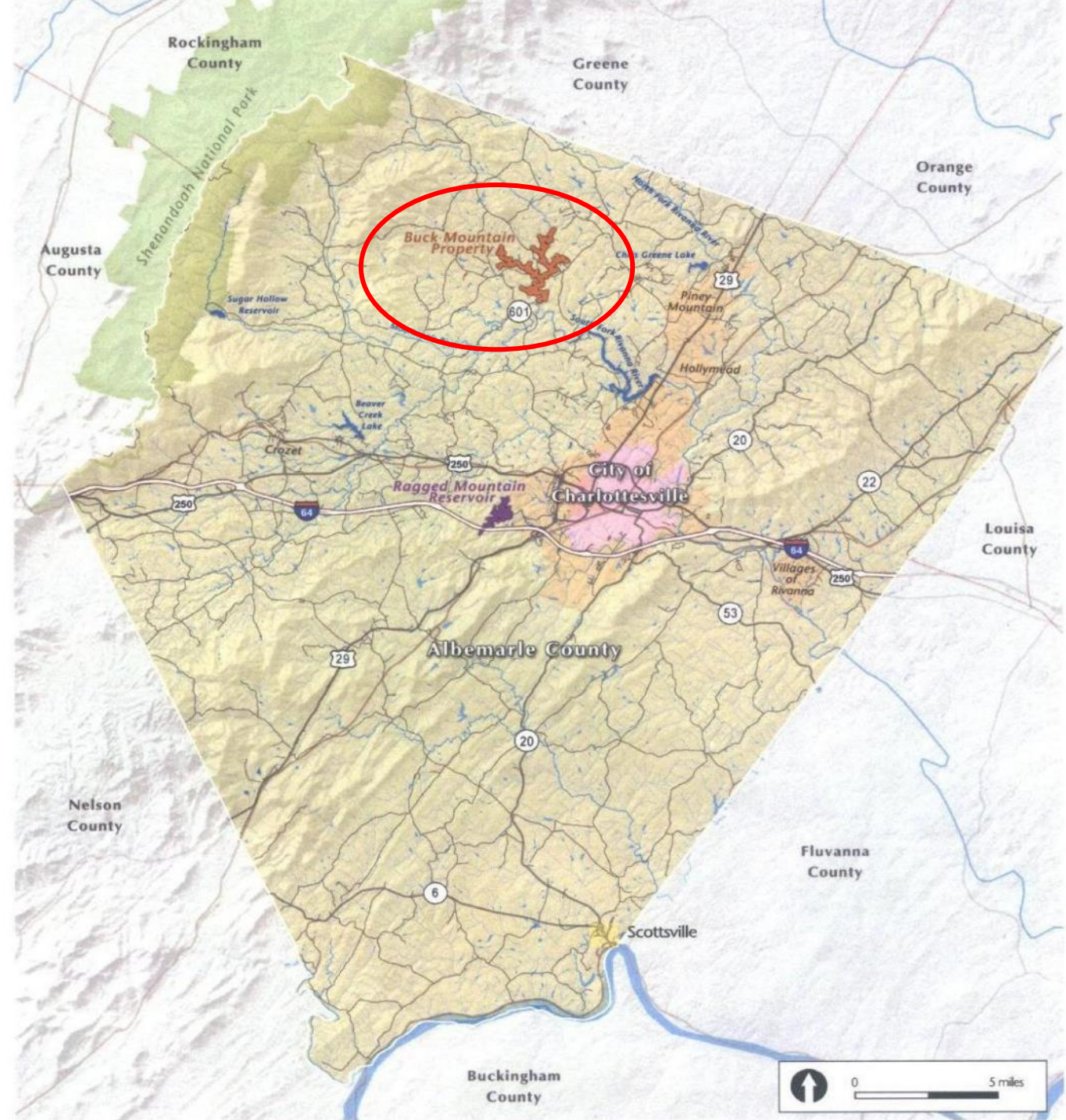
- RWSA, ACSA and the City have a plan to systematically improve drinking water infrastructure to serve the northern Urban Water system, as well as areas of the City including UVA, in an affordable manner over the next 10 - 15 years. Sewer infrastructure improvements are also planned for the 2050-2060 timeframe.
- Future development projects with significant utility demands will need to coordinate with our infrastructure plans and schedules.

Questions?



Buck Mountain Property Management Plan Update & Public Hearing

Presented by:
Bill Mawyer, Executive Director
March 22, 2022



Master Plan completed in 2020

An evaluation of the uses of the Buck Mountain property with respect to the Vision, Mission and Values of RWSA.

Strategic Plan Goals

- Environmental Stewardship
 - Water Quality Protection
- Operational Optimization
 - Efficient and sustainable use of resources
- Infrastructure and Master Planning
 - Water Supply now and in the future



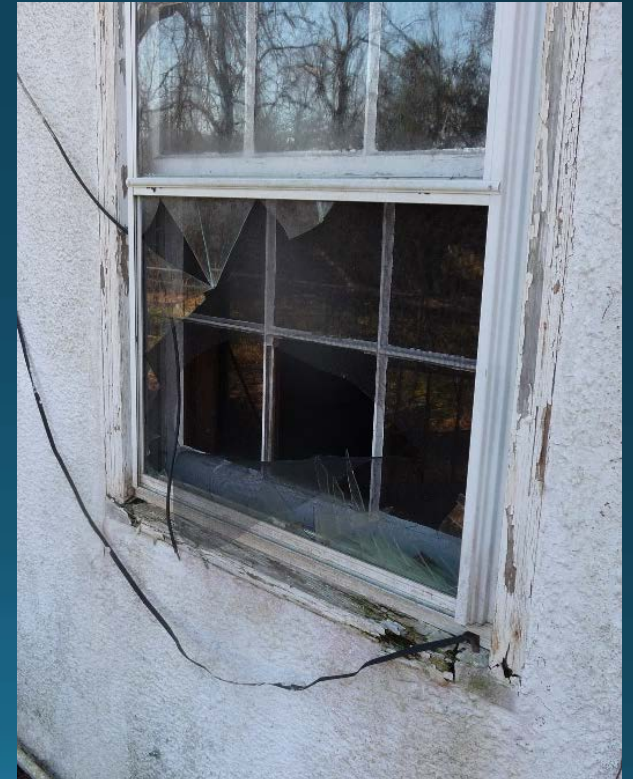
Property Management Elliot House

ISSUES

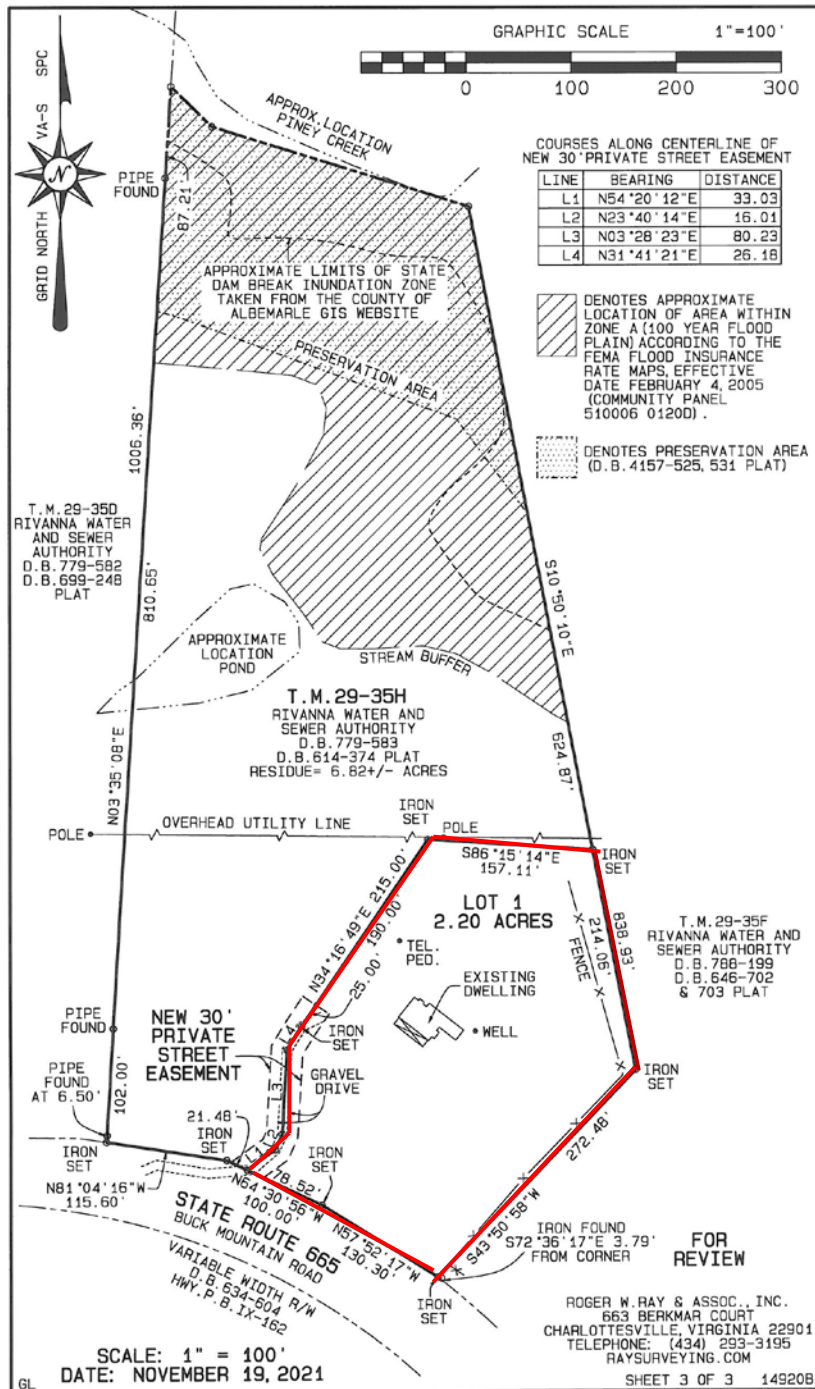
- House in poor condition and is liability to RWSA
- Documented by the VDHR as an historic resource (age > 50 years), but not historically significant
- VDHR letter stating it is a “valuable resource that should be preserved, if feasible”
- Not in RWSA mission to preserve structures or lease house
- Security requirements
 - Recent break-in

OPTIONS

- Sell 2.2 acre parcel with house (estimated value: \$325,000)
 - ~ Provides best opportunity for preservation~
- Demolish house, retain property

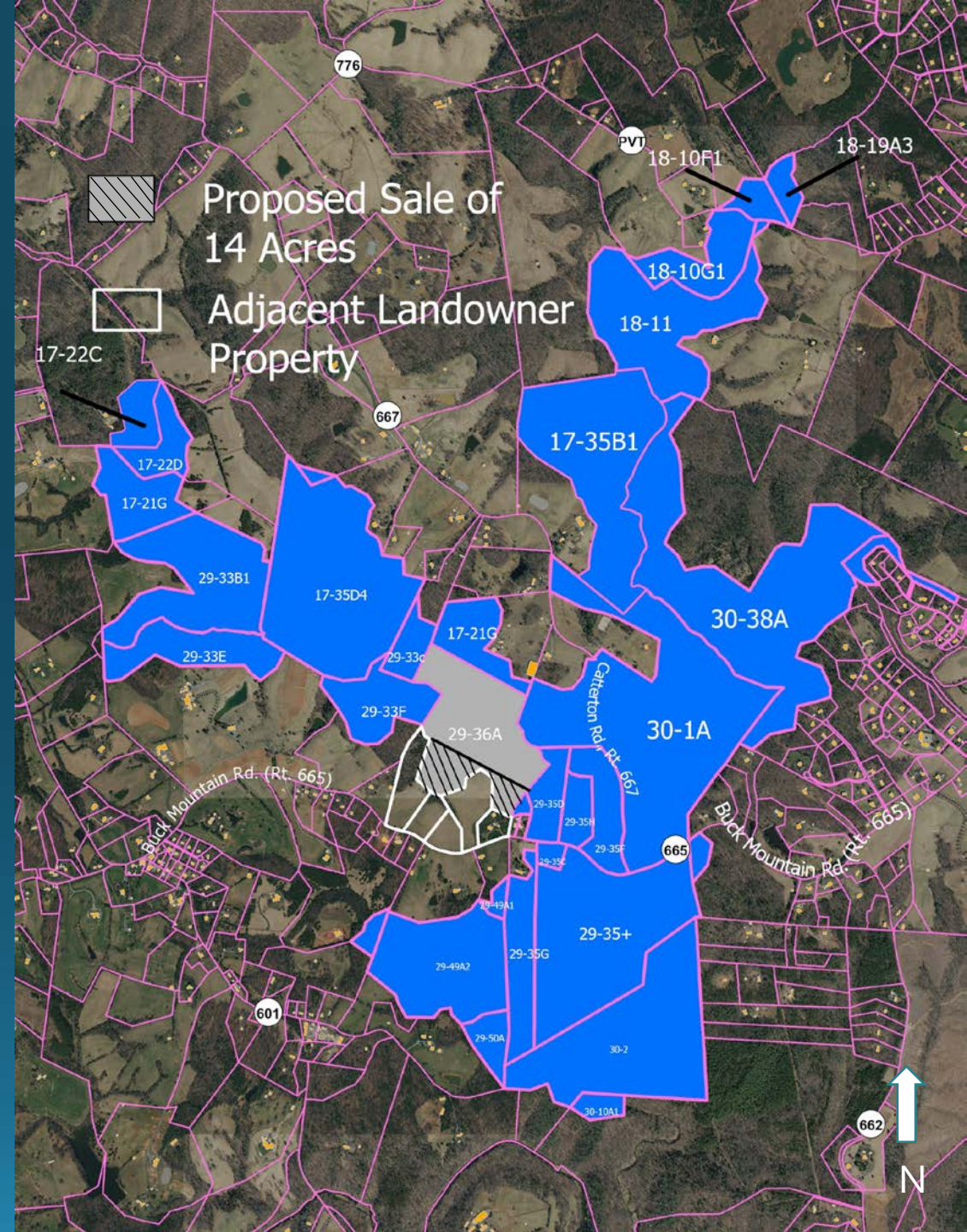


- Does not include any of the deed-restricted buffer



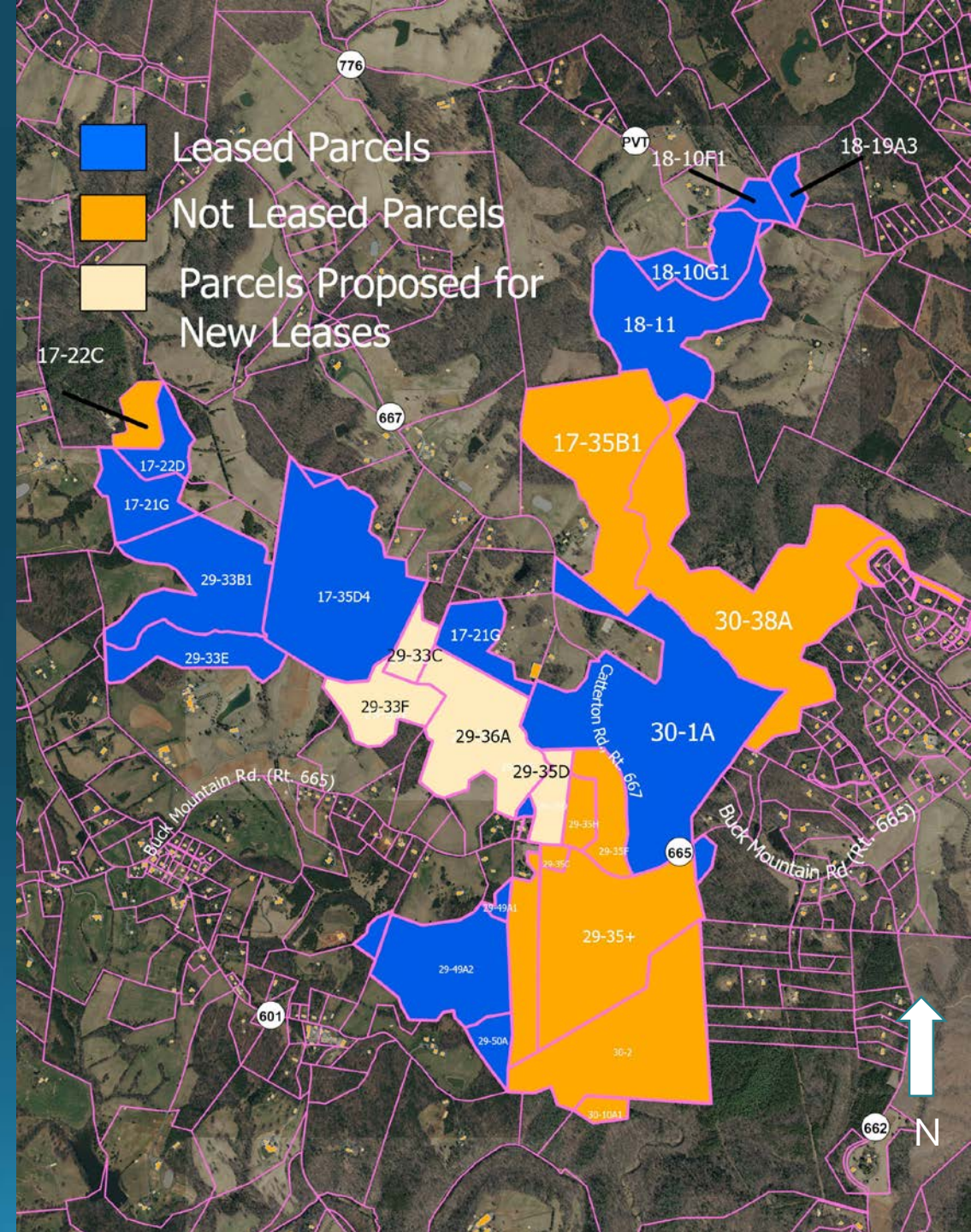
Proposed Sale of 14 Acres

- Adjacent property owner to TMP 29-36A has requested a boundary adjustment and purchase of approx. 14 acres adjoining currently owned parcels
- Stated purpose is to provide a buffer to current parcels and conserve the 14 acres
- Funds would support Buck Mountain property maintenance expenses



Parcels Proposed for New Lease

- Consider a 2-year lease for TMP 29-33C, 29-33F, 29-36A and 29-35D (about 106 wooded acres)
- All parcels with exception of 29-35D are landlocked
- Access would be through parcel 29-35D



In February 2022, the Board Approved :

Executive Director and staff to proceed with the legal, financial and procurement processes required to:

1. Offer a 2.2 acre parcel from TMP 29-35H and all improvements including the “Elliot” house for sale to the public.
2. Offer about 14 acres from TMP 29-36A for sale to an adjacent neighbor.
3. Offer a 2-year lease for TMP 29-33C, 29-33F, 29-36A, 29-35D (about 106 wooded acres) to the public for passive enjoyment activities.

Action Requested Today:

1. Conduct a Public Hearing to receive any comments on the sale and lease of these parcels. This Public Hearing was advertised in a local newspaper on February 28 and March 3, 2022.
2. Confirm the plan to sell and lease these parcels.

Questions?

Property Management Allen Farm Lane and Bridge

ISSUE

- RWSA owns a bridge used by residents of Allen Farm Lane, a private road
- Liability for the Authority
- Requires regular inspection and maintenance

PLAN

- Legal analysis indicates owners along Allen Farm Ln have a prescriptive easement to use the road and bridge
- Once mitigation plan has been deemed compliant by DEQ in 2024, offer land and bridge for sale to the public



Property Management Pond

ISSUE

- Out of compliance with DCR rules
- Liability for the Authority
- Regular maintenance: mowing, clearing outlet

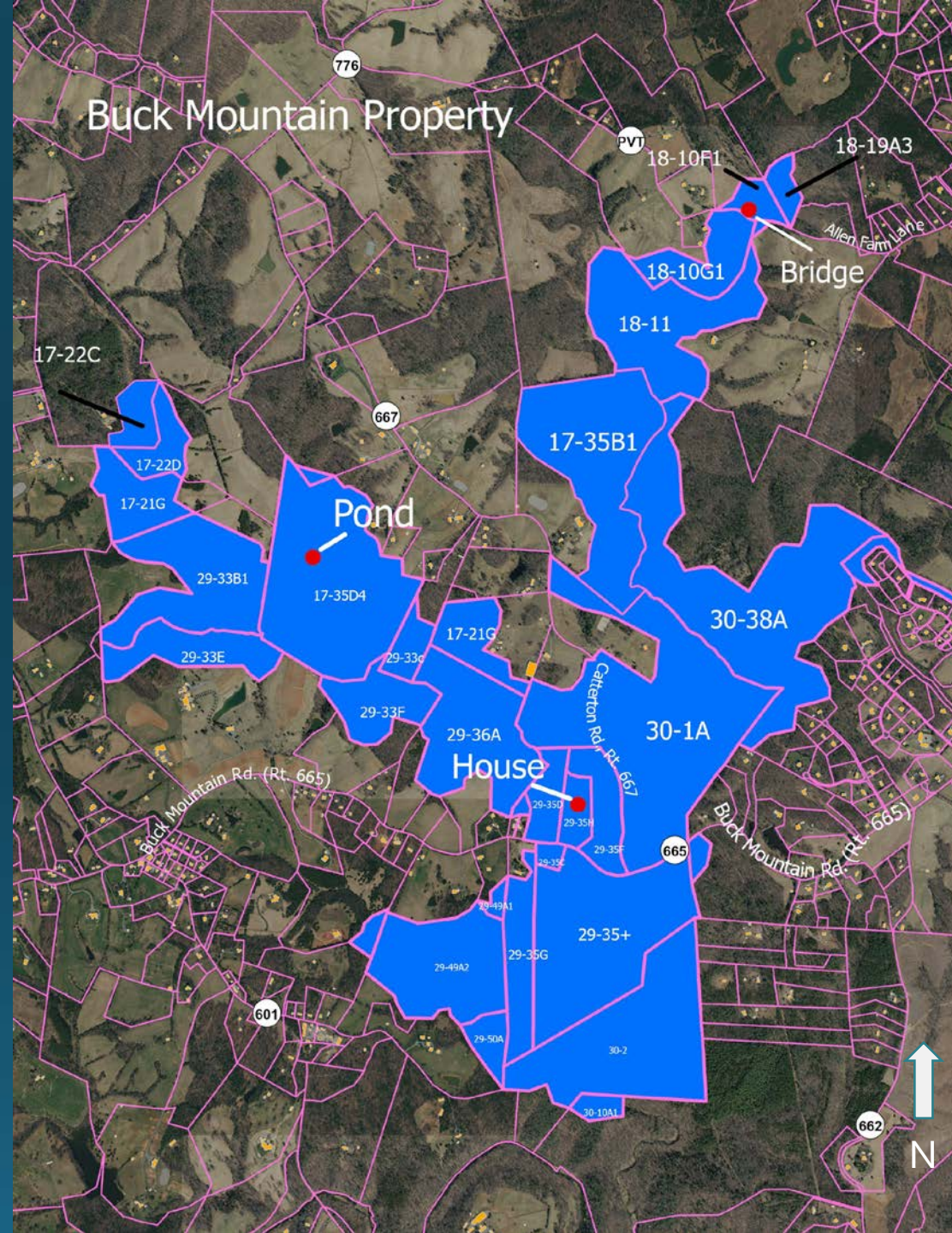
PLAN

- Complete DCR-required studies of the dam
- Work with previous landowner to consider exchange of pond for an access easement



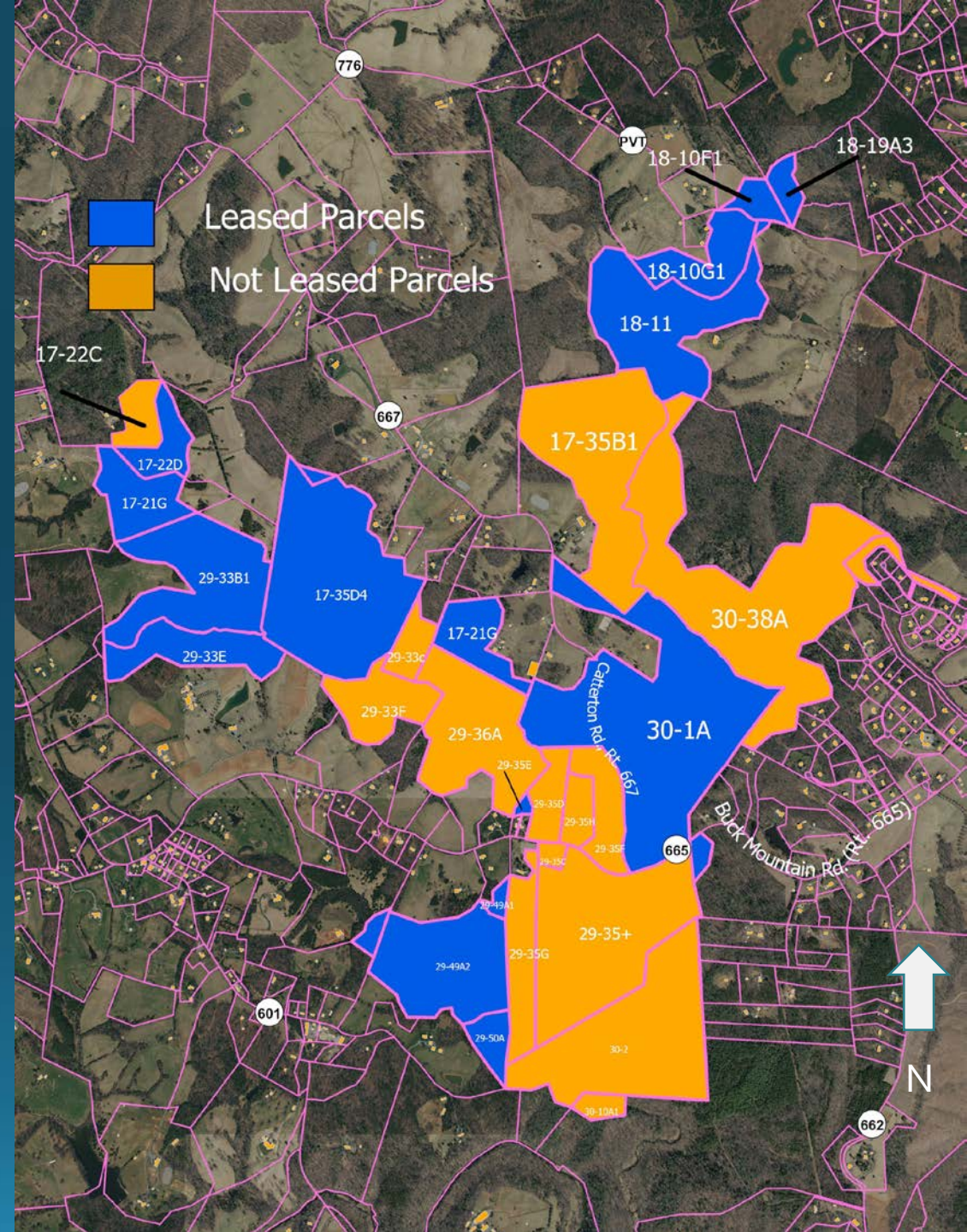
Lease Fee Schedule

Land Use	Existing Lease Rates (per acre, per year)	Market (per acre, per year)	New Lease Rates (per acre per year)
Pasture	\$10	\$17.50-\$20.00	\$19
Forested	\$3	\$13.00-\$21.00	\$17
Deed Restricted Area	\$0	\$9.40/acre -\$15.00	\$13
Administrative Fee Per 2-year lease term			\$100
Total Lease Value	\$1,900/year	\$6,300-\$8,800	\$8,540



Renewal of Existing Leases

- 15 parcels leased by 9 leaseholders totaling 484.41 acres: 2-year terms
- 8 parcels are in agriculture (cattle or horses). Remainder are used for passive enjoyment.
- Current leases have been revised to reflect new rates.





695 Moores Creek Lane | Charlottesville, Virginia 22902-9016

434.977.2970
434.293.8858
www.rivanna.org

MEMORANDUM

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

FROM: BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT: INTRODUCTION OF FISCAL YEAR 2022-2023 OPERATING BUDGET,
AND ADOPTION OF PRELIMINARY RATE SCHEDULE**

DATE: MARCH 22, 2022

The proposed FY 2022-2023 budget totaling \$41,851,000 is being submitted for your consideration. The proposed budget includes \$22,152,000 for Operating expenses and \$19,699,000 for Debt Service charges, and represents a 7.45% increase above the current budget. The proposed budget includes resources required to manage our infrastructure, meet debt service obligations, comply with regulatory mandates, and invest in our workforce. 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 \$1.6 million increase in Operating expenses primarily due to inflationary cost increases for biosolids transportation and disposal, wastewater odor and corrosion control, chemicals, and support for our workforce. Debt Service costs will increase \$1,280,000 to support ongoing renovations to our water treatment plants (S. Rivanna and Observatory), as well as completion of the Crozet Flow Equalization Tank and the Beaver Creek Dam Improvements projects, both of which are required to meet regulatory standards for wastewater and dam safety, respectively. Charges to the City will increase 6.9%, and charges to the ACSA will increase 9.6% to support these essential services.

The Board will be asked at this meeting to adopt the attached Preliminary Rate Schedule which sets a public hearing on the proposed budget for Tuesday, May 24, 2022, 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:

Adopt the attached Preliminary Rate Schedule and authorize advertisement for a public hearing during the Board's regular meeting on May 24, 2022.

Attachments



RESOLUTION
TO ADOPT THE PRELIMINARY RATE SCHEDULE
FOR FISCAL YEAR 2022-2023
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 2022-2023; 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 approves the accompanying Preliminary Rate Schedule for the purpose of notification of a public hearing to be held on May 24, 2022 at 2:15 p.m. during the regularly scheduled Board of Directors meeting.

Preliminary Rate Schedule

URBAN RATE CENTERS			FY 2022	FY 2023	\$ Change	% Change
<u>Operating Rates</u> (\$ per 1,000 Gallons)						
Operations	Water		\$ 2,346	\$ 2,653	\$ 0.307	13.09%
Operations	Wastewater		2,517	2,664	0.147	5.84%
<u>Debt Service Charges</u> (\$ Monthly Charge)						
<u>Water</u>						
Debt Service	CITY		\$ 246,188	\$ 271,527	\$ 25,339	10.29%
Debt Service	ACSA		388,956	420,325	31,369	8.06%
<u>Wastewater</u>						
Debt Service	CITY *		\$ 376,036	\$ 384,637	\$ 8,601	2.29%
Debt Service	ACSA *		337,983	355,205	17,222	5.10%
OTHER RATE CENTERS (Monthly)			FY 2022	FY 2023	\$ Change	% Change
<u>Crozet Water</u>						
Operations			\$ 88,238	\$ 99,757	\$ 11,519	13.05%
Debt Service			153,986	180,142	26,156	16.99%
<u>Scottsville Water</u>						
Operations			\$ 42,892	\$ 47,463	\$ 4,571	10.66%
Debt Service			11,574	12,525	951	8.22%
Water Total			\$ 296,690	\$ 339,887	\$ 43,197	14.56%
<u>Glenmore Wastewater</u>						
Operations			\$ 33,669	\$ 36,970	\$ 3,301	9.80%
Debt Service			618	1,707	1,089	176.21%
<u>Scottsville Wastewater</u>						
Operations			\$ 27,189	\$ 29,635	\$ 2,446	9.00%
Debt Service			824	843	19	2.31%
Wastewater Total			\$ 62,300	\$ 69,155	\$ 6,855	11.00%
Total Monthly Other Rate Center Charges - ACSA			\$ 358,990	\$ 409,042	\$ 50,052	13.94%



**RIVANNA WATER & SEWER AUTHORITY
PUBLIC HEARING CONCERNING THE
PRELIMINARY RATE SCHEDULE FOR FY 2022 - 2023, EFFECTIVE JULY 1, 2022**

Public Hearing:

Rivanna Water & Sewer Authority will hold a public hearing on Tuesday, May 24, 2022, 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, 2022. Adopted rates may or may not be what are advertised.

Preliminary Rate Schedule

URBAN RATE CENTERS			FY 2022	FY 2023	\$ Change	% Change
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Operations	Water		\$ 2,346	\$ 2,653	\$ 0.307	13.09%
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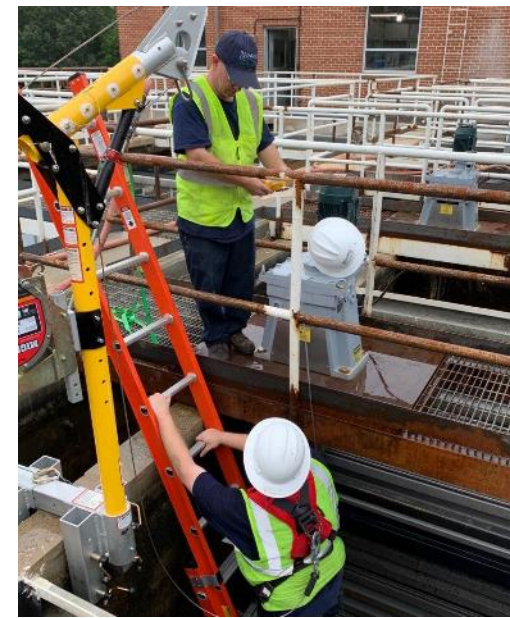
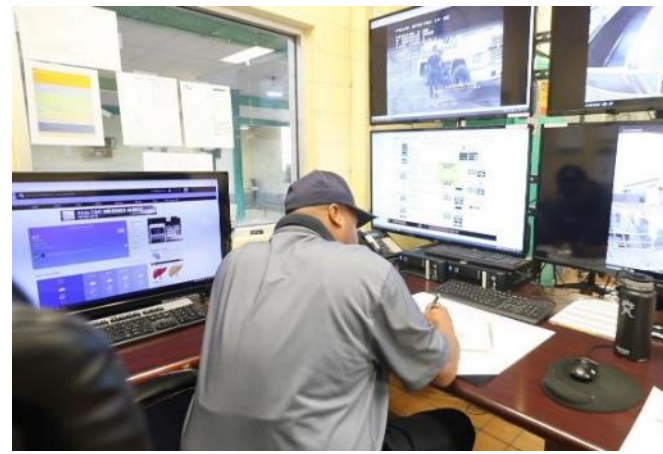
The Rivanna Water & Sewer Authority (Rivanna) was created by the City of Charlottesville (City) and the County of Albemarle to supply and treat water for drinking and to provide wastewater treatment. The above fees represent Rivanna's fees and charges to the City and the Albemarle County Service Authority (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.

Proposed Operating Budget FY 2022 - 2023

PRESENTED TO THE BOARD OF DIRECTORS
BY BILL MAWYER, EXECUTIVE DIRECTOR
MARCH 22, 2022



Strategic Plan Goals



OPERATIONAL OPTIMIZATION

To efficiently, reliably, and safely provide high quality services, assuring the best value for our customers



ENVIRONMENTAL STEWARDSHIP

To be a leader in our community's environmental protection and education



WORKFORCE DEVELOPMENT

To attract, develop, and retain a professional, highly skilled, dedicated, and versatile team



COMMUNICATION AND COLLABORATION

To foster a culture that encourages open communications and strengthens partnerships



INFRASTRUCTURE AND MASTER PLANNING

To plan, deliver, and maintain dependable infrastructure in a financially responsible manner

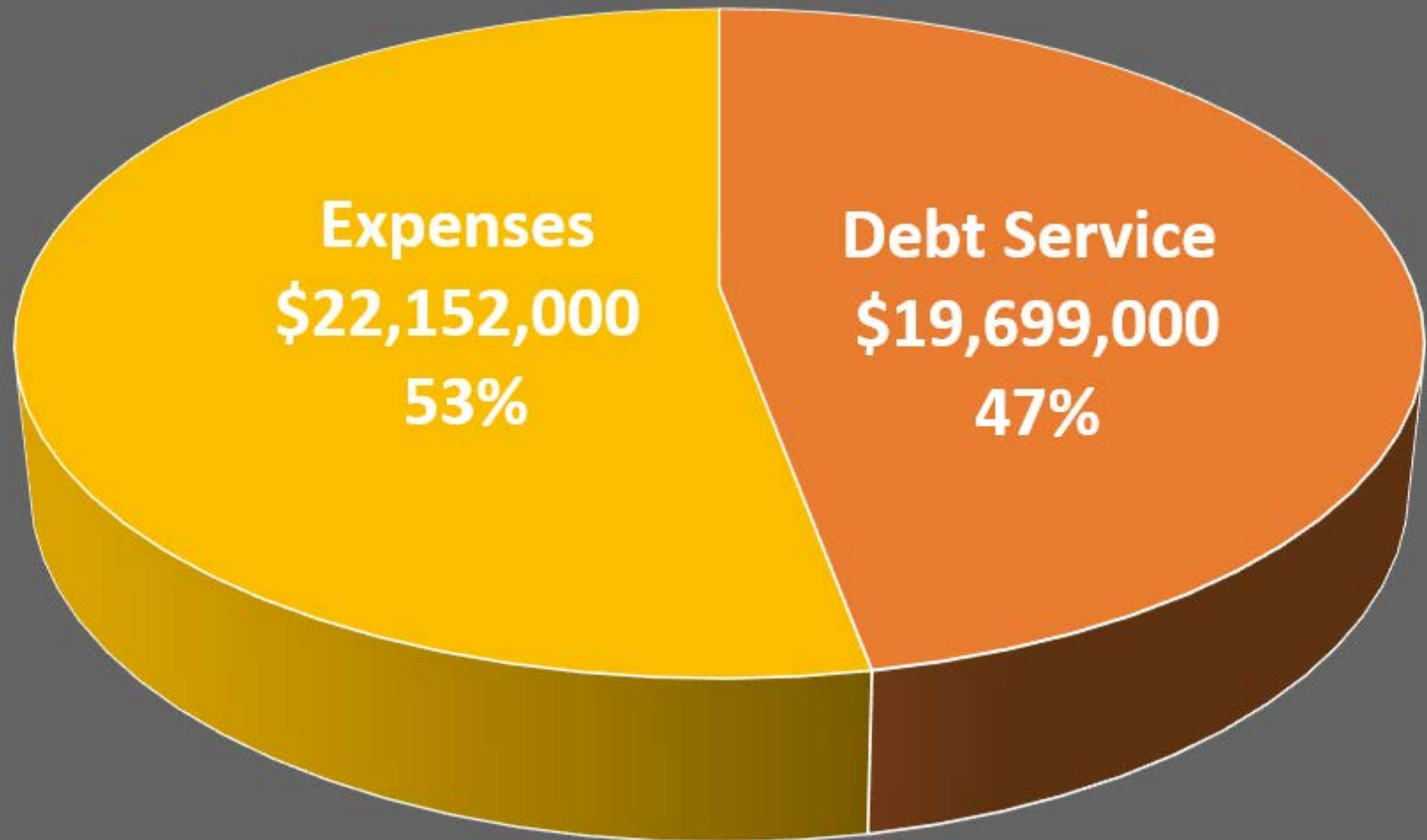
Operating Budget Summary

FY 2022 – 2023

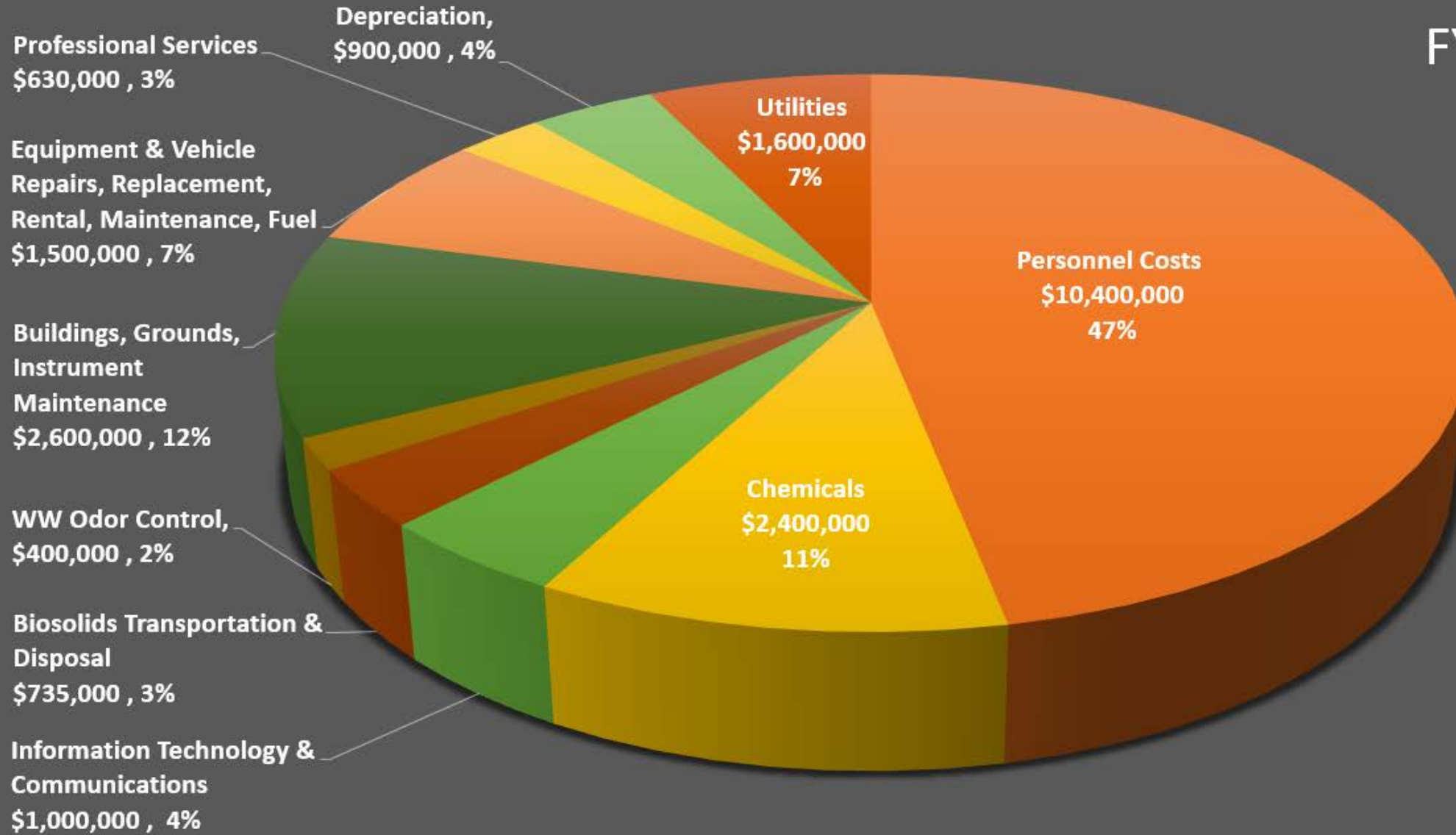
➤ Total Budget	\$41.8 m	\$2.9 m increase = 7.4%
1. Debt Service	\$19.7 m	\$1.3 m increase = 6.9%
2. Expenses	\$22.1 m	\$1.6 m increase = 7.8%
3. Use of Reserves	\$0.15 m	GAC support (last year for this)
➤ City Charges	\$16.5 m	\$1 m increase = 6.9%*
➤ ACSA Charges	\$23.6 m	\$2 m increase = 9.6%*

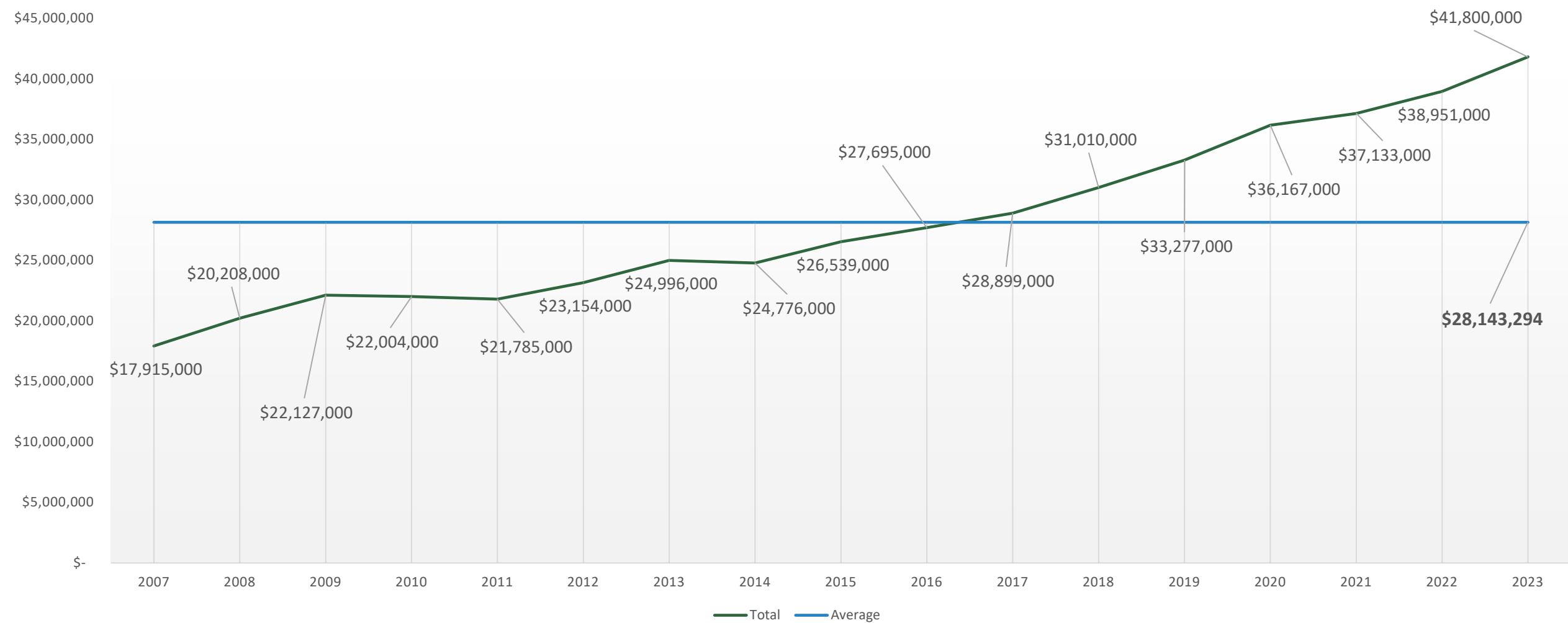
* Actual Urban wastewater flows in FY 2021 resulted in a \$116,400 shift in operating costs = 0.7% decrease for City and 0.6% increase for ACSA

FY 2022 – 2023
Operating Budget
\$41.8 M



FY 2022 –2023 Expenses \$22.1 M





Operating Budget – 17 Year History

Capital Assets: Facilities and Equipment

\$390 M

5 Water Supply Reservoirs

- Buck Mtn Property

3.3 billion gallons
1300 acres

6 Water Treatment Plants

- 3 Urban
- 3 Non-Urban

21.7 = 24 MGD by 2023
2.25 MGD

4 Wastewater Treatment Plants

- 1 Urban
- 3 Non-Urban

15 MGD
0.588 MGD

7 Wastewater Pump Stations

11 Water Pump Stations

- 7 Raw Water
- 4 Finished Water

Water Distribution Pipe

68 miles

Valves

117

Wastewater Collection Pipe

44 miles

Manholes

717

Stormwater Impoundment

Lickinghole Creek Basin



Major Achievements in FY 2022

- Completed Urban Finished Water MP
- Completed MC WW Master Plan
- Updated Water Corrosion Inhibitor
- Replaced Sugar Hollow Reservoir Dam Gate
- Completed Crozet WW Storage Tank
- Produced >3 BG of Drinking Water
- Processed >3 BG of Wastewater



Major Projects in FY 2023

- Water Treatment Plant Renovations*
 - S. Rivanna and Observatory
- Airport Rd Water Pump Station Construction**
- Birdwood to Old Garth RWL Construction***
- Beaver Creek Dam, Pump Station and Piping Design**
- Central Water Line Design *
- Climate Change Considerations

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



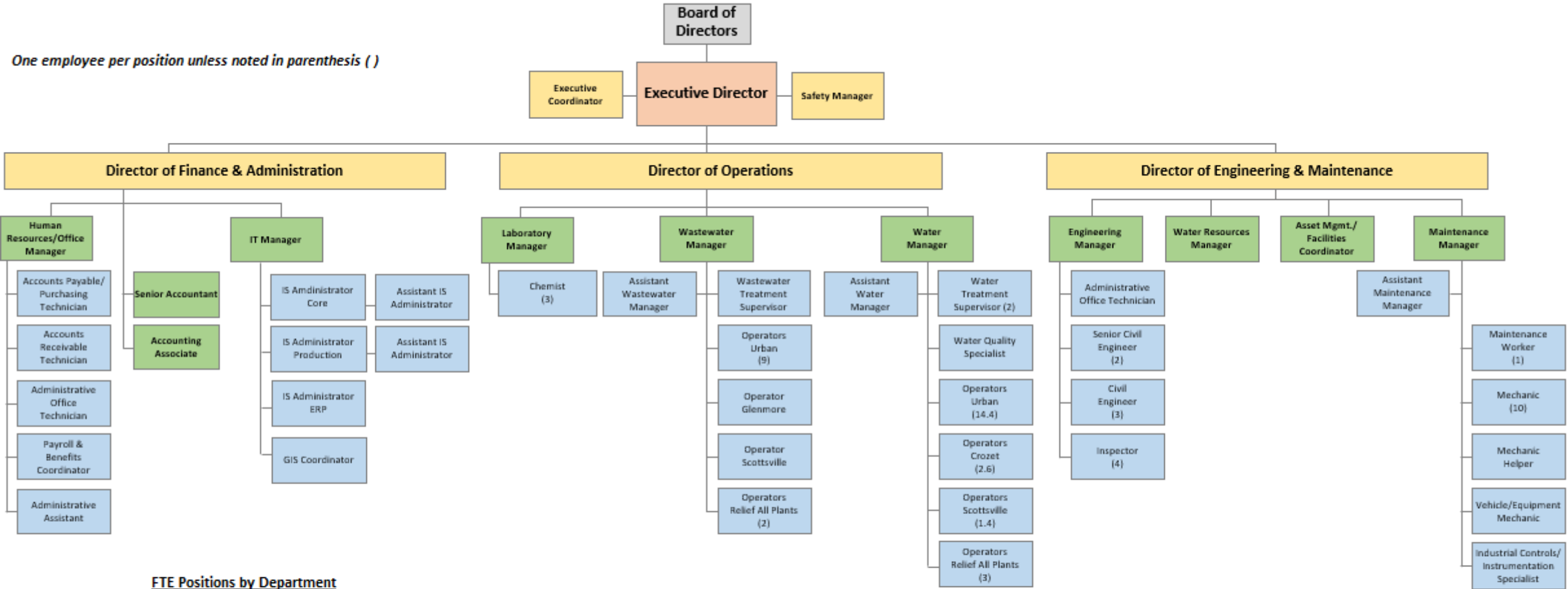
Expenses

Investment and Inflation

<u>Workforce:</u>	<u>\$830 k</u>	<u>Operations:</u>	<u>\$835 k</u>	<u>%</u>
• Merit Pool for Staff (4%)	\$255 k	• Chemicals	\$295 k	14
○ FY 22 mid-year COLA	\$385 k	• Biosolids Transp. & Disposal	\$165 k	27
• VRS, Taxes, Life Insurance	\$130 k	• WW Odor and Corrosion Control	\$45 k	13
• Health Insurance	\$60 k	• Technology	\$285 k	82
		<i>SCADA, Security, Asset Mgmt, Licenses, Support</i>		
• Additional Positions (none)	\$0	• Aeration Equip. Svcs. & CDL Training	\$90 k	New
		• Equipment Rental	<\$45>	

Organizational Chart

One employee per position unless noted in parenthesis ()



FTE Positions by Department

Department	FY 21-22 FTE	FY 22-23 FTE	Change + / (-)
Finance/Admin	12	12	No Change
IT/SCADA	7	7	No Change
Engineering	14	14	No Change
Maintenance	16	16	No Change
Operations	1	1	No Change
Laboratory	4	4	No Change
Wastewater	16	16	No Change
Water	26.4	26.4	No Change
Total	96.4	96.4	0

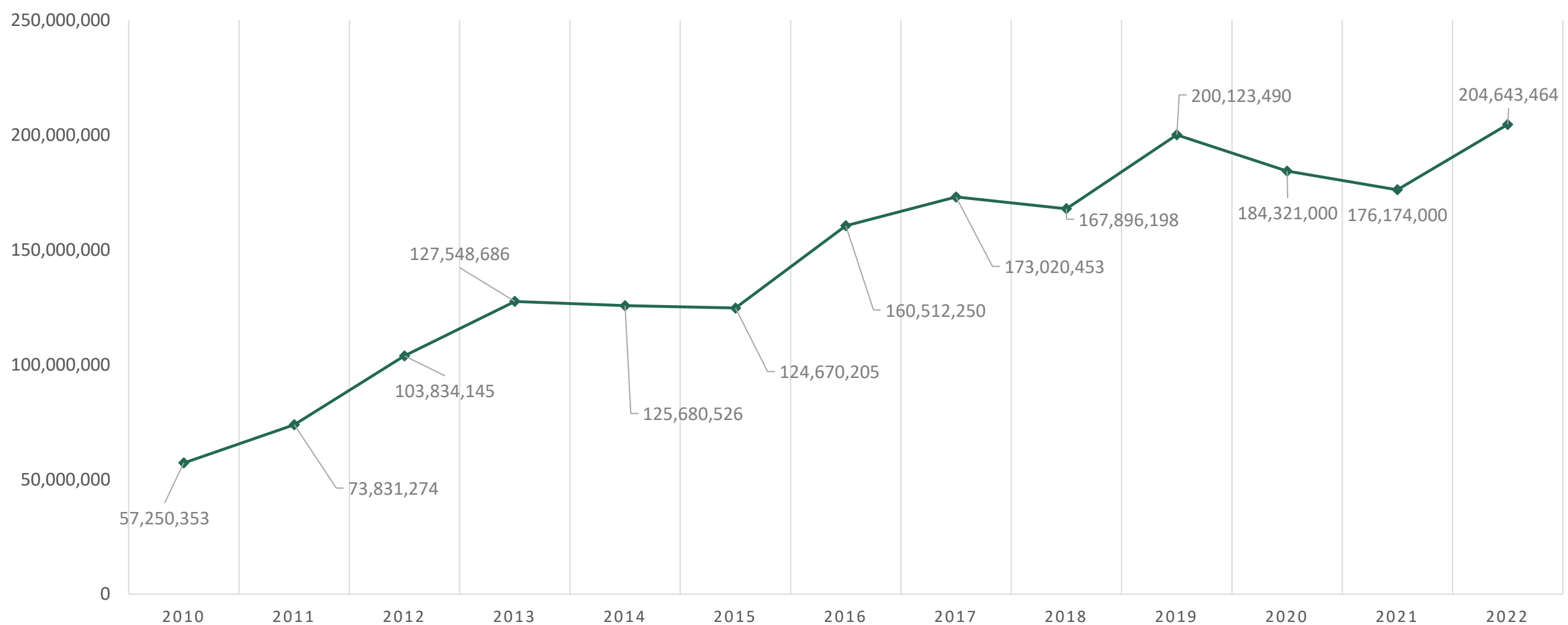
(FTE = Full Time Equivalent)

Financial Forecast

•RWSA Charge Increase (%):	<u>FY</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>
• City		6.9	7.2	7.4	7.4	8.3
• ACSA		9.6	8.1	8.7	9.2	9.9
•FY 23 Capital Budget		\$25.8 m				
•FY 23-27 CIP		\$205.1 m				
•New CIP Debt Anticipated		\$123 m				

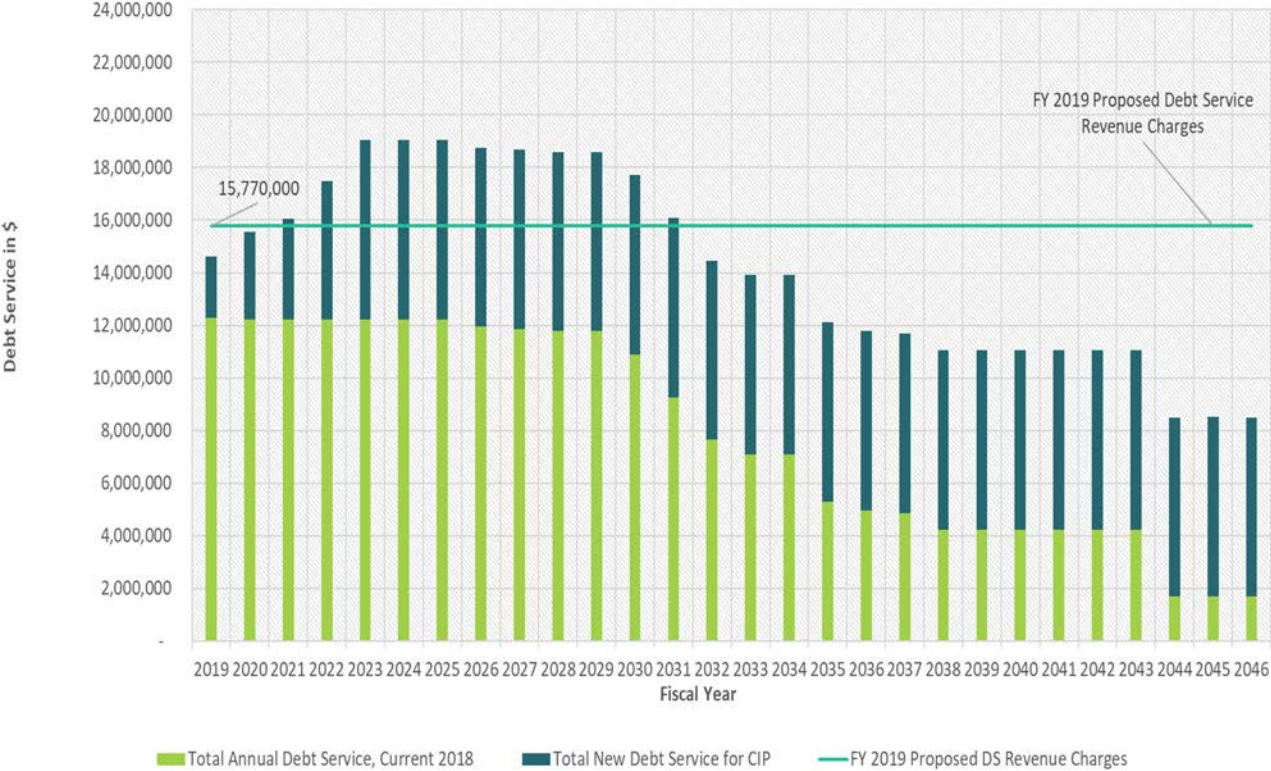
Budget Charges Historical and Future Estimates in annual percentage increases



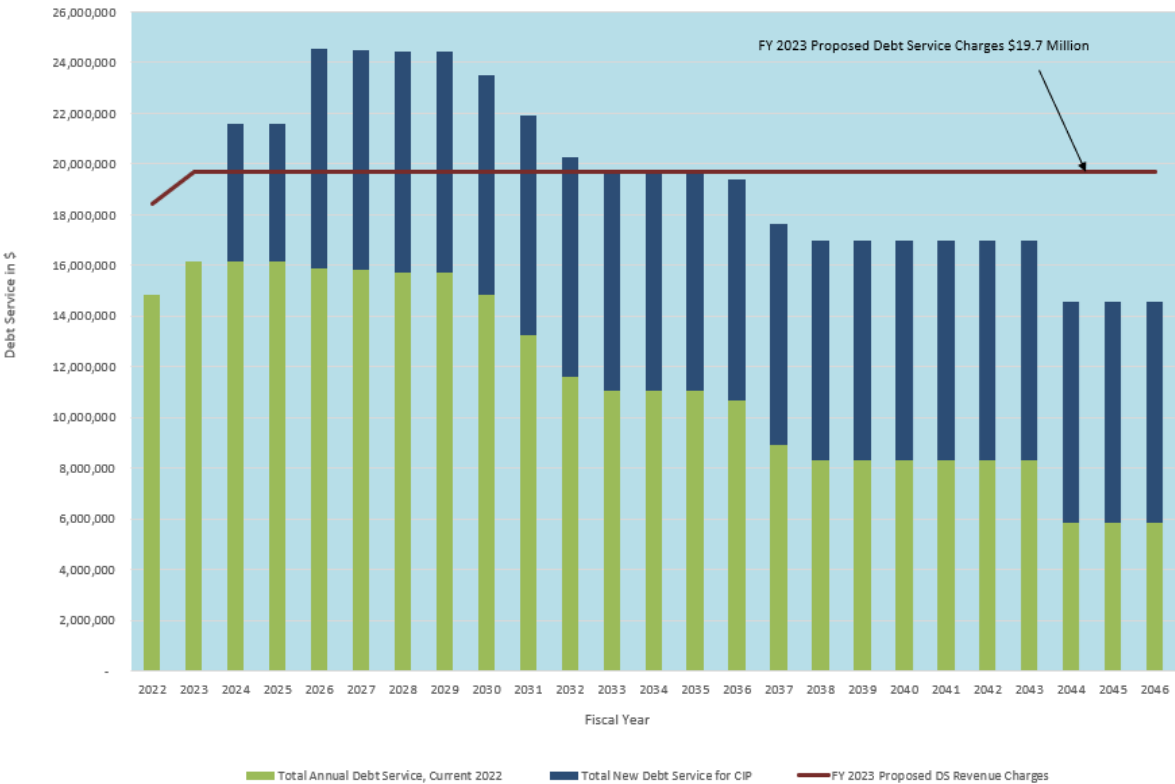


Outstanding Debt

Debt Service Profile FY 2019-2046



Debt Service Profile FY 2023-2046



Debt Service

Budget Summary

FY 2022 – 2023

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➤ **ACSA Charges** \$23.6 m, \$2 m increase = 9.6%

**RESOLUTION
TO ADOPT THE PRELIMINARY RATE SCHEDULE
FOR FISCAL YEAR 2022-2023
BY THE RIVANNA WATER AND SEWER AUTHORITY**

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Questions?

Action to be Considered by the Board:

Approval of the Preliminary Rate Resolution including authorization to Advertise the Preliminary Rate Schedule for a Public Hearing to be held during a meeting of the Board of Directors on May 24, 2022.

Fiscal Year 2022-2023

Proposed Budget

Board of Directors

Draft

3/22/2022



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RIVANNA WATER & SEWER AUTHORITY

FY 2023 Proposed Budget

Prepared: March 8, 2022

Adopted: DRAFT 7

Table of Contents

	<u>Page</u>
Budget Highlights	
Narrative	i-ix
Departmental Summary of Revenues and Expenses	1
Summary of Itemized Rates	2
Summary of Charges to Customers	3
Urban Water:	Summary Sheet 7
	Expense Detail 8-9
Crozet Water:	Summary Sheet 11
	Expense Detail 12-13
Scottsville Water:	Summary Sheet 15
	Expense Detail 16-17
Wastewater: Urban Wastewater:	Summary Sheet 21
	Expense Detail 22-23
Glenmore Wastewater:	Summary Sheet 25
	Expense Detail 26-27
Scottsville Wastewater:	Summary Sheet 29
	Expense Detail 30-31
Support Departments:	
Administration	35-37
Maintenance	39-41
Lab	43-45
Engineering	47-49
Appendices:	
1 - Flow Projections	53
2 - Urban Water Debt Service Rates	54
3 - Urban Wastewater Debt Service Rates	55
4 - Other Rate Centers Debt Service Rates	56
5 - Debt Summary	57
6 - Stone Robinson	58
7 - Detailed Summary of Revenues	59
8 - Detailed Summary of Expenses	60-61
9 - Staffing by Department	62-63
10 - Data for ACSA	64

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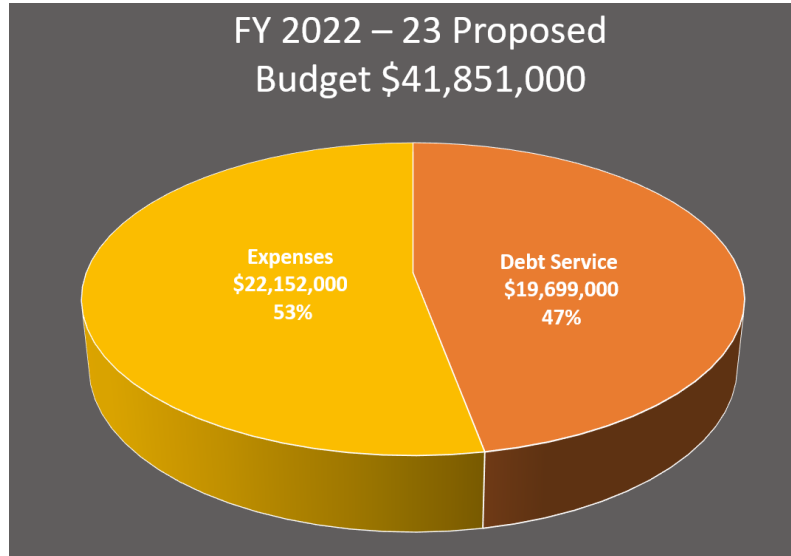
Budget Highlights

***- Executive Summary Narrative
Pages i - ix***

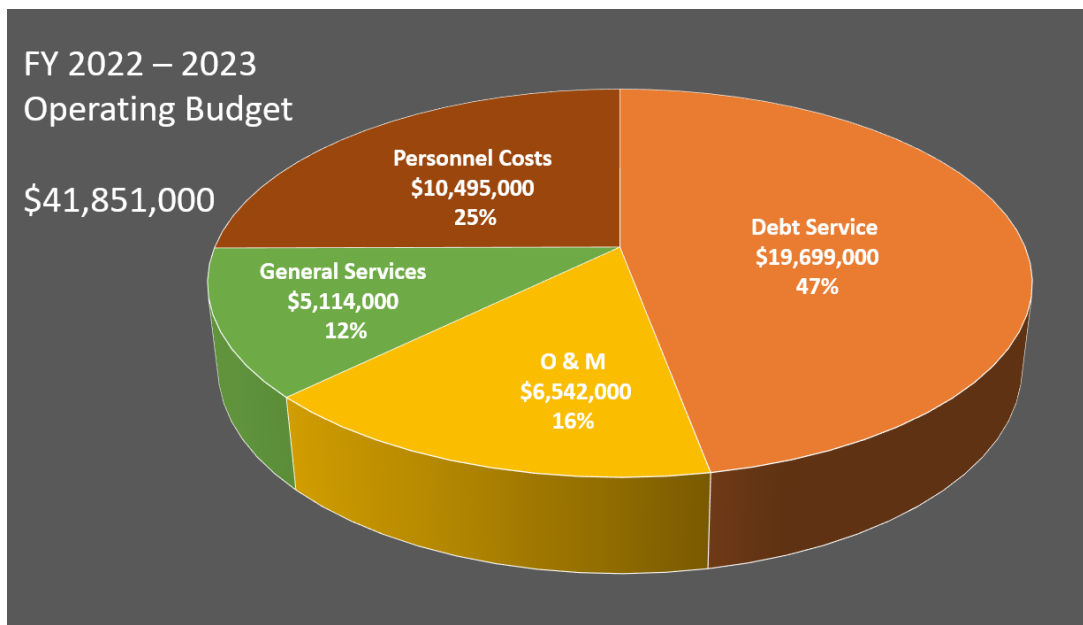
**Rivanna Water and Sewer Authority
Proposed
FY 2022-2023 Budget**

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 2022-2023 budget of \$41,851,000 is proposed 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 goals of Operational Optimization, Workforce Development, Communication and Collaboration, Infrastructure and Master Planning, and Environmental Stewardship. The proposed budget includes \$22,152,000 for Operating expenses and \$19,699,000 for Debt Service charges, including a total budget increase of \$2,900,000, or 7.45%.



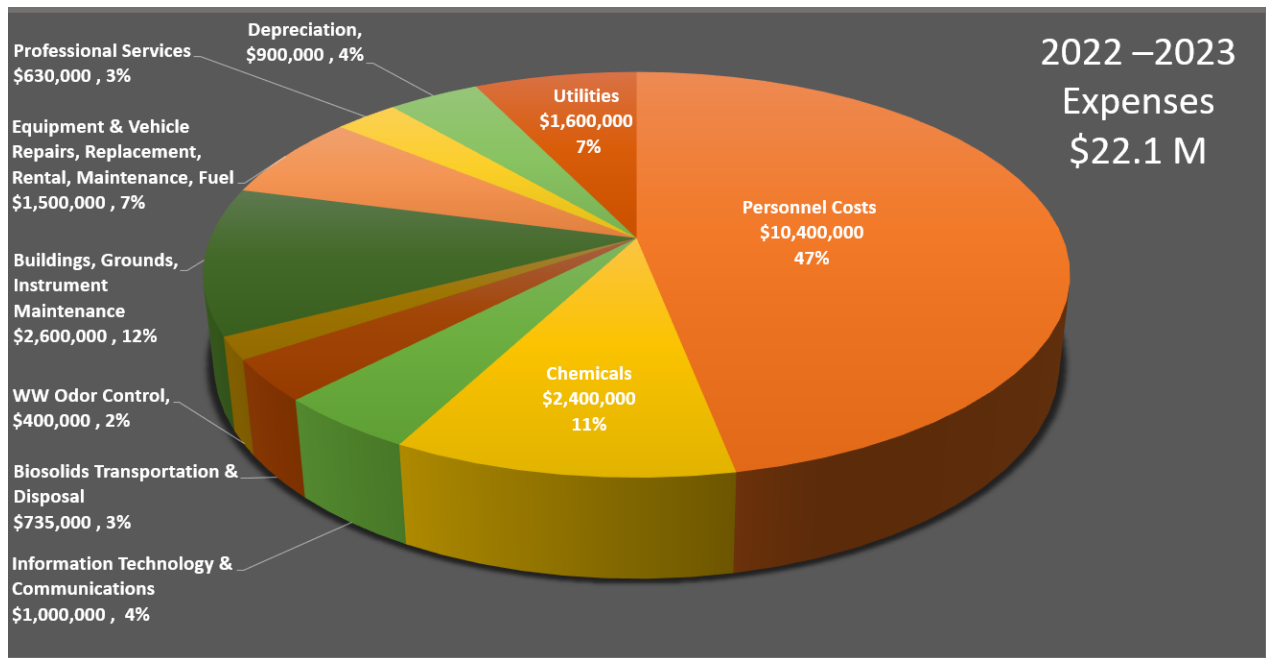
Summary of Budget Expenses
FY 2023
Significant Line - item increases

Draft BOD

	<u>Line Item</u>	<u>Notable Items</u>	<u>Budget Change over Prior year</u>
<u>Personnel cost in general</u>			
• Salary Adjustment	11000		
6% COLA increase from Feb. 2022	11XXX	383,220	
Additional 4% merit proposed July 2022		255,480	
• Health insurance estimate 5% increase	12020	61,000	
• All other Personnel related changes (VRS, Taxes, Life Ins.)	12XXX	129,100	
<i>Total change in personnel and benefit costs</i>			\$ 828,800
<u>General overall changes</u>			
<u>Technology related system costs</u>			
• Security systems	31300		\$ 50,300
• Asset Mgt. & Project Mgt. systems	31325		\$ 72,100
• SCADA Screen reconfigurations for uniformity	31150		\$ 100,000
<u>Urban Water</u>			
• Chemicals	41450		\$ 228,270
<u>Urban Wastewater</u>			
• Increase in Biosolids disposal and transportation	21420		\$ 164,500
• Odor control increase Crozet Interceptor	21420		\$ 46,000
• Blower Service Contract - new	21420		\$ 84,000
• Chemicals	41450		\$ 50,200
<u>All other Dept and Rate Centers</u>			
• Crozet - Chemicals	41450		\$ 18,900
• Administration - IT support services, Lic. Agreements	31200		\$ 64,400
• Maintenance - CDL training	13150		\$ 7,000
• All other changes			<u>\$ (97,537)</u>
FY 2023 Total increases in estimated operating expenses			\$ 1,618,000

**Rivanna Water and Sewer Authority
Proposed
FY 2022-2023 Budget**

Operating expenses include Personnel (salaries and benefits), 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, and depreciation). Debt Service charges represent 47% 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. The proposed budget includes a 4% merit pool for staff salary increases. No additional positions are requested, as we will focus on attracting and retaining qualified staff in our current complement. A detailed outline of our operating expenses is shown below:



To support our Strategic Plan goals, the FY 2022-2023 budget proposes an increase of \$1,619,000 in Operating expenses and an increase of \$1,281,000 in Debt Service charges for a total budget increase of \$2,900,000. Operating rates in the Urban Rate Centers are proposed to increase:

- \$0.307 per 1000 gallons = 13.09% for water
- \$0.147 per 1000 gallons = 5.84% for wastewater

Monthly Debt Service charges to the City will increase:

- \$25,339 = 10.29% for Urban water
- \$8,601 = 2.29% for Urban wastewater

Monthly Debt Service charges to the ACSA will increase:

- \$31,369 = 8.06% for Urban water
- \$17,222 = 5.1% for Urban wastewater
- \$50,052 = 13.94% for non-Urban water and wastewater

Rivanna Water and Sewer Authority
Proposed
FY 2022-2023 Budget

Actual Water and Wastewater Flows

Actual FY 2020-2021 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 \$116,400 charge increase for the ACSA and a \$116,400 charge decrease for the City.

Allocation of flows (based on retail flows):

	<u>FY 2022</u>	<u>FY 2023</u>
City Wastewater	48%	47%
ACSA Wastewater	52%	53%
City Water	49%	49%
ACSA Water	51%	51%

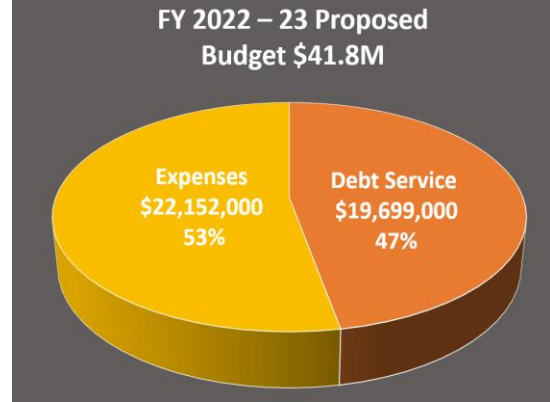
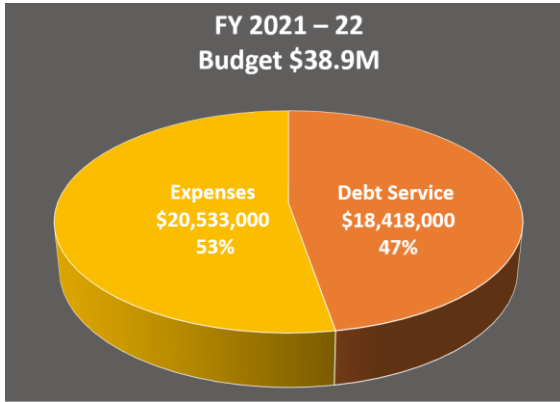
A brief description of proposed budget investments includes:

A. Increase in Operating Expenses:	\$1,619,000
1. Personnel:	\$828,800
a. 4% merit + FY 22 mid-year merit	\$638,700
b. VRS, Taxes, Life Insurance	\$129,100
c. Health Insurance	\$61,000
2. Water and Wastewater Programs, net increase:	\$790,000
a. Water and Wastewater Chemicals	\$295,000
b. Technology, Security, SCADA	\$285,000
c. Biosolids Transportation and Disposal	\$165,000
d. Wastewater Odor Control	\$45,000
B. Increase in Debt Service Charges:	\$1,281,000

Debt Service costs of \$19,699,000 represent the largest component of our budget (47%). These debt costs are estimated to increase \$1,281,000 to support major projects in our FY 23 – 27 CIP including Water Treatment Plant Renovations, Airport Road Water Pump Station, Central Water Line, Crozet Flow Equalization Tank, Ragged Mtn Reservoir to Observatory WTP Water Line, Beaver Creek Reservoir Dam and Pump Station Improvements, and the South Rivanna Reservoir to Ragged Mtn. Reservoir Water Line.

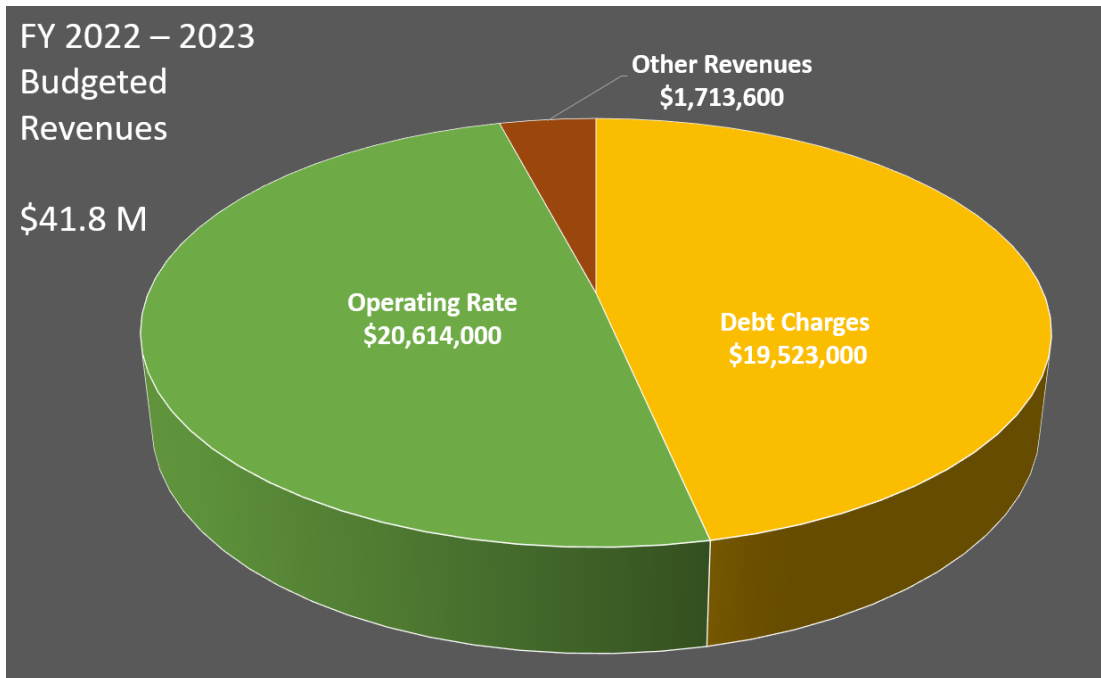
Rivanna Water and Sewer Authority
Proposed
FY 2022-2023 Budget

The Authority's overall ratio of Operating expenses and Debt Service costs is comparable to the last several years, with Operating expenses representing 53% of the total budget and Debt Service costs being 47% of the total budget, as shown below:



Revenues

Revenues for FY 2022 - 2023 are based upon estimated Operating Rate revenues of \$20,614,000, Debt Service charges of \$19,523,000, other non-customer revenues of \$1,713,600 (RSWA allocation, septage receiving, nutrient credits, County septage station support, reserves, and interest income), as shown below:



Rivanna Water and Sewer Authority
Proposed
FY 2022-2023 Budget

A summary of the major investment changes compared to last year follows, and a detailed line-by-line comparison is provided in **Appendix 8** for the Authority as a whole.

Summary of Budget Expenses
FY 2023

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	11000		
6% COLA increase from Feb. 2022	11XXX	383,220	
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<u>General overall changes</u>			
<u>Technology related system costs</u>			
• Security systems	31300		\$ 50,300
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• SCADA Screen reconfigurations for uniformity	31150		\$ 100,000
<u>Urban Water</u>			
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<u>Urban Wastewater</u>			
• Increase in Biosolids disposal and transportation	21420		\$ 164,500
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<u>All other Dept and Rate Centers</u>			
• Crozet - Chemicals	41450		\$ 18,900
• Administration - IT support services, Lic. Agreements	31200		\$ 64,400
• Maintenance - CDL training	13150		\$ 7,000
• All other changes			<u>\$ (97,537)</u>
FY 2023 Total increases in estimated operating expenses			\$ 1,618,000

Rivanna Water and Sewer Authority
Proposed
FY 2022-2023 Budget

Debt Service & Capital Improvements

Debt service requirements for the Capital Improvement Plan (CIP) are included in the budget request. The FY 23-27 CIP totals \$205.1 M, a net increase of \$37.6 M as compared to the FY 22-26 CIP. In FY 2027, project funding totaling \$17.5 M transitioned into the five-year CIP. In addition, one project was added to the five-year CIP totaling \$1.5 M, as well as a budget increase of \$33 M for existing projects. More detailed information on the proposed FY 2023 – 2027 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	2022-2026 Adopted CIP	Projects Completed	New or Additional Project Costs	2023-2027 Adopted CIP	Change \$	Change %
Urban Water Projects	\$ 95,873,000	\$ (1,900,000)	\$ 28,492,000	\$ 122,465,000	\$ 26,592,000	28%
Urban Wastewater Projects	39,725,330	(8,143,330)	12,788,000	44,370,000	4,644,670	10%
Shared Projects	5,110,000	-	80,000	5,190,000	80,000	2%
Non-Urban Projects	29,445,000	(615,000)	4,265,000	33,095,000	3,650,000	11%
Total Project Cost Estimates	\$ 170,153,330	\$ (10,658,330)	\$ 45,625,000	\$ 205,120,000	\$ 34,966,670	17%

The Authority has programmed into the FY 2022-2023 budget charges that fund the additional debt service anticipated by the proposed CIP. Cumulatively, the Authority has built 31.4% of future debt service costs into the rates and charges for all rate centers in FY 2022-2023. 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 40% of the needed future debt service revenues already built into the charges to cover the total funding needed for the next five years (an additional \$4.99 M in annual debt service is estimated to be needed in the next 5 years, and \$2.02 M will already be programmed into the charges with the adoption of the FY 2021-2022 budget). This will require the remaining \$2.97 M to be included in the future debt service charge as an annual increase (\$2.97 M / 5 = \$595,400) over the next five years to fund the Water projects within the CIP.

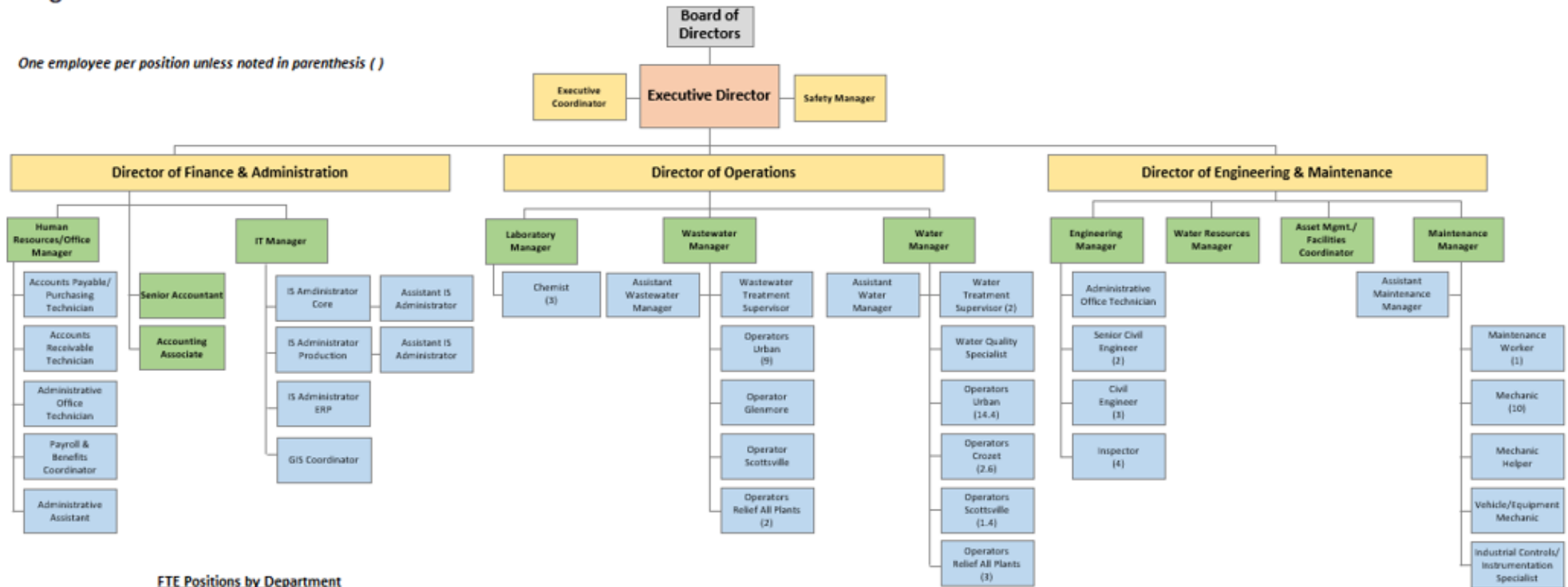
Next Five Years				
	Annual Estimated NEW Debt Service related to 5-year CIP <u>New Debt</u>	New Debt Service Cost built into <u>FY 2023 Rates</u>	Percentage of Debt Service in <u>FY 2023 Rates</u>	
Urban Water	\$ 4,397,400	\$ 939,500	21.4%	
Urban Wastewater	2,140,000	854,700	39.9%	
Non-Urban Rate Centers	2,206,400	950,500	43.1%	
	<u>\$ 8,743,800</u>	<u>\$ 2,744,700</u>	<u>31.4%</u>	

Rivanna Water and Sewer Authority
Proposed
FY 2022-2023 Budget

Rivanna Water & Sewer Authority
Organizational Chart

FY 2022-2023 Proposed Budget

One employee per position unless noted in parenthesis ()



FTE Positions by Department

Department	FY 21-22 FTE	FY 22-23 FTE	Change + / (-)
Finance/Admin	12	12	No Change
IT/SCADA	7	7	No Change
Engineering	14	14	No Change
Maintenance	16	16	No Change
Operations	1	1	No Change
Laboratory	4	4	No Change
Wastewater	16	16	No Change
Water	26.4	26.4	No Change
Total	96.4	96.4	0

(FTE = Full Time Equivalent)

Budget Details

Pages 1 - 64

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Departmental Summary of Revenues and Expenses

Summary of Revenues

	FY 2022	FY 2023	\$ Change	% Change
Operations Revenues				
Urban Water	\$ 8,450,000	\$ 9,228,000	778,000	9.21%
Crozet Water	1,102,000	1,222,000	120,000	10.89%
Scottsville Water	518,000	570,000	52,000	10.04%
Urban Wastewater	9,180,000	9,676,000	496,000	5.40%
Glenmore Wastewater	404,000	444,000	40,000	9.90%
Scottsville Wastewater	326,000	356,000	30,000	9.20%
Administration	553,000	656,000	103,000	18.63%
Maintenance	-	-	-	-
Lab	-	-	-	-
Engineering	-	-	-	-
Total	\$ 20,533,000	\$ 22,152,000	\$ 1,619,000	7.88%
Debt Service Revenues				
Urban Water	\$ 7,675,000	\$ 8,335,000	660,000	8.60%
Crozet Water	1,853,000	2,163,000	310,000	16.73%
Scottsville Water	140,000	151,000	11,000	7.86%
Urban Wastewater	8,732,000	9,019,000	287,000	3.29%
Glenmore Wastewater	8,000	21,000	13,000	162.50%
Scottsville Wastewater	10,000	10,000	-	0.00%
Total	\$ 18,418,000	\$ 19,699,000	\$ 1,281,000	6.96%
Total Revenues	\$ 38,951,000	\$ 41,851,000	\$ 2,900,000	7.45%

Summary of Expenses

	FY 2022	FY 2023	\$ Change	% Change
Operations Expenses				
Urban Water	\$ 5,803,000	\$ 6,212,000	409,000	7.05%
Crozet Water	853,000	940,000	87,000	10.20%
Scottsville Water	362,000	395,000	33,000	9.12%
Urban Wastewater	6,014,000	6,103,000	89,000	1.48%
Glenmore Wastewater	282,000	310,000	28,000	9.93%
Scottsville Wastewater	214,000	231,000	17,000	7.94%
Administration	2,735,000	3,316,000	581,000	21.24%
Maintenance	1,785,000	1,888,000	103,000	5.77%
Lab	544,000	554,000	10,000	1.84%
Engineering	1,941,000	2,203,000	262,000	13.50%
Total	\$ 20,533,000	\$ 22,152,000	\$ 1,619,000	7.88%
Debt Service Expenses				
Urban Water	\$ 7,675,000	\$ 8,335,000	660,000	8.60%
Crozet Water	1,853,000	2,163,000	310,000	16.73%
Scottsville Water	140,000	151,000	11,000	7.86%
Urban Wastewater	8,732,000	9,019,000	287,000	3.29%
Glenmore Wastewater	8,000	21,000	13,000	162.50%
Scottsville Wastewater	10,000	10,000	-	0.00%
Total	\$ 18,418,000	\$ 19,699,000	\$ 1,281,000	6.96%
Total Expenses	\$ 38,951,000	\$ 41,851,000	\$ 2,900,000	7.45%

Total Budgetary Surplus/ (Deficit)

\$ - \$ - \$ -

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 2022	FY 2023	\$ Change	% Change
Operating Rates (\$ per 1,000 Gallons)						
	Operations	Water	\$ 2,346	\$ 2,653	\$ 0.307	13.09%
	Operations	Wastewater	2,517	2,664	0.147	5.84%
Debt Service Charges (\$ Monthly Charge)						
<u>Water</u>						
	Debt Service	CITY	\$ 246,188	\$ 271,527	\$ 25,339	10.29%
	Debt Service	ACSA	388,956	420,325	31,369	8.06%
<u>Wastewater</u>						
	Debt Service	CITY *	\$ 376,036	\$ 384,637	\$ 8,601	2.29%
	Debt Service	ACSA *	337,983	355,205	17,222	5.10%
OTHER RATE CENTERS (Monthly)			FY 2022	FY 2023	\$ Change	% Change
<u>Crozet Water</u>						
	Operations		\$ 88,238	\$ 99,757	\$ 11,519	13.05%
	Debt Service		153,986	180,142	26,156	16.99%
<u>Scottsville Water</u>						
	Operations		\$ 42,892	\$ 47,463	\$ 4,571	10.66%
	Debt Service		11,574	12,525	951	8.22%
	Water Total		\$ 296,690	\$ 339,887	\$ 43,197	14.56%
<u>Glenmore Wastewater</u>						
	Operations		\$ 33,669	\$ 36,970	\$ 3,301	9.80%
	Debt Service		618	1,707	1,089	176.21%
<u>Scottsville Wastewater</u>						
	Operations		\$ 27,189	\$ 29,635	\$ 2,446	9.00%
	Debt Service		824	843	19	2.31%
	Wastewater Total		\$ 62,300	\$ 69,155	\$ 6,855	11.00%
Total Monthly Other Rate Center Charges - ACSA			\$ 358,990	\$ 409,042	\$ 50,052	13.94%

Summary of Charges to Customers

* - FY 2022 Budget reflects mid-year rate change adopted Oct. 2021

	<u>FY 2022</u>	<u>FY 2023</u>	<u>Change</u> <u>\$</u>	<u>Change</u> <u>%</u>
<u>City - Charges From RWSA</u>				
Urban Water				
Operating Rate Charges	\$ 3,906,000	\$ 4,417,300	\$ 511,300	13.1%
Debt Service Charges	2,954,300	3,258,300	304,000	10.3%
	<u>\$ 6,860,300</u>	<u>\$ 7,675,600</u>	<u>\$ 815,300</u>	<u>11.9%</u>
Urban Wastewater				
Operating Rate Charges	\$ 4,096,900	\$ 4,245,800	\$ 148,900	3.6%
Debt Service Charges	* 4,512,500	4,615,700	103,200	2.3%
	<u>\$ 8,609,400</u>	<u>\$ 8,861,500</u>	<u>\$ 252,100</u>	<u>2.9%</u>
Total City Charges	<u>\$ 15,469,700</u>	<u>\$ 16,537,100</u>	<u>\$ 1,067,400</u>	<u>6.9%</u>

<u>ACSA - Charges From RWSA</u>				
Urban Water				
Operating Rate Charges	\$ 4,065,500	\$ 4,597,600	\$ 532,100	13.1%
Debt Service Charges	4,667,500	5,043,900	376,400	8.1%
	<u>\$ 8,733,000</u>	<u>\$ 9,641,500</u>	<u>\$ 908,500</u>	<u>10.4%</u>
Urban Wastewater				
Operating Rate Charges	\$ 4,438,300	\$ 4,787,800	\$ 349,500	7.9%
Debt Service Charges	* 4,055,800	4,262,500	206,700	5.1%
	<u>\$ 8,494,100</u>	<u>\$ 9,050,300</u>	<u>\$ 556,200</u>	<u>6.5%</u>
Other Rate Centers				
Operating Rate Charges	\$ 2,303,900	\$ 2,565,900	\$ 262,000	11.4%
Debt Service Charges	2,004,000	2,342,600	338,600	16.9%
	<u>\$ 4,307,900</u>	<u>\$ 4,908,500</u>	<u>\$ 600,600</u>	<u>13.9%</u>
Total ACSA Charges	<u>\$ 21,535,000</u>	<u>\$ 23,600,300</u>	<u>\$ 2,065,300</u>	<u>9.6%</u>

<u>RWSA Customer Revenue Charges</u>				
Operating Rate Revenues				
Urban Water	\$ 7,971,500	\$ 9,014,900	\$ 1,043,400	13.1%
Urban Wastewater	8,535,200	9,033,600	498,400	5.8%
Other Rate Centers	2,303,900	2,565,900	262,000	11.4%
	<u>\$ 18,810,600</u>	<u>\$ 20,614,400</u>	<u>\$ 1,803,800</u>	<u>9.6%</u>
Debt Service Rate Revenues				
Urban Water	\$ 7,621,800	\$ 8,302,200	\$ 680,400	8.9%
Urban Wastewater	8,568,300	8,878,200	309,900	3.6%
Other Rate Centers	2,004,000	2,342,600	338,600	16.9%
	<u>\$ 18,194,100</u>	<u>\$ 19,523,000</u>	<u>\$ 1,328,900</u>	<u>7.3%</u>
Total RWSA Customer Revenues	<u>\$ 37,004,700</u>	<u>\$ 40,137,400</u>	<u>\$ 3,132,700</u>	<u>8.5%</u>

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Water Rate Centers

Rivanna Water and Sewer Authority

Fiscal Year 2022-2023

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Urban Water Summary

	FY 2022			FY 2023	
	<i>Budgeted FY 2022</i>	Actual for 6 months	Projected 12 months	<i>Proposed Budget</i>	<i>Budget % Change</i>
Projected Flow (MGD)	9.309			9.309	0.00%

Operations Budget

Projected Revenues

Operations Rate	\$ 2.346			\$ 2.653	13.09%
Revenue	\$ 7,971,504	\$ 4,294,703	\$ 8,589,406	\$ 9,014,863	13.09%
Lease Revenues	75,000	54,235	108,470	60,000	-20.00%
Use of Reserves (GAC)	300,000	85,600	171,200	150,000	-50.00%
Miscellaneous	-	-	-	-	
Rate Stabilization Reserves	100,000	50,000	100,000	-	-100.00%
Interest Allocation	3,400	2,726	5,452	3,000	-11.76%
Total Operations Revenues	\$ 8,449,904	\$ 4,487,264	\$ 8,974,528	\$ 9,227,863	9.21%

Projected Expenses

Personnel Cost	\$ 2,039,156	\$ 1,013,641	\$ 2,057,508	\$ 2,234,714	9.59%
Professional Services	279,200	94,651	189,302	222,000	-20.49%
Other Services and Charges	734,150	314,399	628,798	716,300	-2.43%
Communications	98,670	52,697	105,394	100,920	2.28%
Information Technology	80,500	45,945	91,890	104,950	30.37%
Supplies	5,100	3,844	7,688	5,400	5.88%
Operations and Maintenance	2,250,440	1,234,366	2,468,732	2,511,396	11.60%
Equipment Purchases	15,400	7,700	15,400	16,000	3.90%
Depreciation & Reserves	300,000	150,000	300,000	300,000	0.00%
Subtotal Before Allocations	\$ 5,802,616	\$ 2,917,243	\$ 5,864,712	\$ 6,211,680	7.05%
Allocation of Support Departments	2,647,288	1,221,230	2,472,360	3,016,183	13.93%
Total Operations Expenses	\$ 8,449,904	\$ 4,138,473	\$ 8,337,072	\$ 9,227,863	9.21%

Operations Cost per 1,000 gallons	\$2.487	\$2.716	9.21%
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Debt Service Budget

Projected Revenue

Debt Service Rates	CITY	\$ 246,188			\$ 271,527	10.29%
	ACSA	\$ 388,956			\$ 420,325	8.06%
Debt Service Rate Revenue - CITY	\$	2,954,251	\$ 1,477,128	\$ 2,954,256	\$ 3,258,324	10.29%
Debt Service Rate Revenue - ACSA		4,667,474	2,333,736	4,667,472	5,043,900	8.06%
Trust Fund Interest		12,000	421	842	400	-96.67%
Reserve Fund Interest		39,300	12,798	25,596	31,000	-21.12%
Lease Revenue		1,600	-	-	1,600	0.00%
Total Debt Service Revenue		\$ 7,674,625	\$ 3,824,083	\$ 7,648,166	\$ 8,335,224	8.61%

Principal, Interest & Reserves

Total Principal & Interest	\$ 5,215,275	\$ 2,683,666	\$ 5,367,332	\$ 6,964,724	33.54%
Reserve Additions - Interest	39,300	12,798	25,596	31,000	-21.12%
Debt Service Ratio Charge	400,000	200,000	400,000	400,000	0.00%
Est. New Debt Service - CIP Growth	2,020,050	933,997	1,867,994	939,500	-53.49%
Total Debt Principal and Interest	\$ 7,674,625	\$ 3,830,461	\$ 7,660,922	\$ 8,335,224	8.61%

Rate Center Summary

Total Revenues	\$ 16,124,529	\$ 8,311,347	\$ 16,622,694	\$ 17,563,087	8.92%
Total Expenses	16,124,529	7,968,934	15,997,994	17,563,087	8.92%
Surplus/(Deficit)	\$ -	\$ 342,413	\$ 624,700	\$ -	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Urban Water

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 1,281,750	\$ 655,132	\$ 1,342,180	\$ 1,414,600	\$ 132,850	10.36%
11010	Overtime & Holiday Pay	145,000	75,583	151,166	169,650	24,650	17.00%
12010	FICA	109,146	54,481	108,962	121,195	12,049	11.04%
12020	Health Insurance	299,000	121,395	242,790	321,000	22,000	7.36%
12026	Employee Assistance Program	300	173	346	350	50	16.67%
12030	Retirement	106,385	52,793	105,586	118,685	12,300	11.56%
12040	Life Insurance	17,175	8,188	16,376	16,834	(341)	-1.99%
12050	Fitness Program	3,400	773	1,546	3,000	(400)	-11.76%
12060	Worker's Comp Insurance	26,100	12,587	23,484	27,300	1,200	4.60%
	Subtotal	\$ 1,988,256	\$ 981,105	\$ 1,992,436	\$ 2,192,614	\$ 204,358	10.28%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 1,500	\$ 1,664	\$ 3,328	\$ 4,000	\$ 2,500	166.67%
13150	Education & Training	22,600	14,429	28,858	10,100	(12,500)	-55.31%
13200	Travel & Lodging	5,300	789	1,578	2,500	(2,800)	-52.83%
13250	Uniforms	19,000	14,430	28,860	23,000	4,000	21.05%
13325	Recruiting & Medical Testing	1,500	575	1,150	1,500	-	0.00%
13350	Other	1,000	649	1,298	1,000	-	0.00%
	Subtotal	\$ 50,900	\$ 32,536	\$ 65,072	\$ 42,100	\$ (8,800)	-17.29%
	Professional Services						
20100	Legal Fees	\$ 20,000	\$ 14,468	\$ 28,936	\$ 10,000	\$ (10,000)	-50.00%
20200	Financial & Admin. Services	-	3,238	6,476	-	-	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	259,200	76,945	153,890	212,000	(47,200)	-18.21%
	Subtotal	\$ 279,200	\$ 94,651	\$ 189,302	\$ 222,000	\$ (57,200)	-20.49%
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 32,900	\$ 15,722	\$ 31,444	\$ 34,400	\$ 1,500	4.56%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	77,000	34,116	68,232	50,000	(27,000)	-35.06%
21253	Safety Programs/Supplies	19,600	4,731	9,462	28,200	8,600	43.88%
21300	Authority Dues/Permits/Fees	6,890	2,505	5,010	7,000	110	1.60%
21350	Laboratory Analysis	52,760	20,786	41,572	36,700	(16,060)	-30.44%
21400	Utilities	490,000	224,848	449,696	520,000	30,000	6.12%
21420	General Other Services	55,000	11,691	23,382	40,000	(15,000)	-27.27%
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 734,150	\$ 314,399	\$ 628,798	\$ 716,300	\$ (17,850)	-2.43%
22000	Communication						
22100	Radio	\$ 3,670	\$ 2,644	\$ 5,288	\$ 4,000	\$ 330	8.99%
22150	Telephone & Data Service	86,000	45,959	91,918	86,000	-	0.00%
22200	Cell Phones, Wireless data	9,000	4,094	8,188	10,920	1,920	21.33%
	Subtotal	\$ 98,670	\$ 52,697	\$ 105,394	\$ 100,920	\$ 2,250	2.28%
31000	Information Technology						
31100	Computer Hardware	\$ 12,000	\$ 280	\$ 560	\$ 10,000	\$ (2,000)	-16.67%
31150	SCADA Maint. & Support	65,500	41,641	83,282	79,150	13,650	20.84%
31200	Maintenance & Support Services	500	4,024	8,048	3,150	2,650	530.00%
31250	Software Purchases	2,500	-	-	-	(2,500)	-100.00%
31300	Security Systems	-	-	-	8,650		
31325	Asset Mgt / Project Mgt Systems	-	-	-	4,000		
	Subtotal	\$ 80,500	\$ 45,945	\$ 91,890	\$ 104,950	\$ 11,800	14.66%
33000	Supplies						
33100	Office Supplies	\$ 2,700	\$ 1,020	\$ 2,040	\$ 3,000	\$ 300	11.11%
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	2,400	2,824	5,648	2,400	-	0.00%
	Subtotal	\$ 5,100	\$ 3,844	\$ 7,688	\$ 5,400	\$ 300	5.88%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 159,400	\$ 51,228	\$ 102,456	\$ 224,400	\$ 65,000	40.78%
41150	Building/land Lease, Rental	175,000	175,000	350,000	175,000	-	0.00%
41300	Dam Maintenance	115,440	83,000	166,000	123,700	8,260	7.16%
41350	Pipeline/Appurtenances	130,000	128,281	256,562	75,000	(55,000)	-42.31%
41400	Materials, Supplies & Tools	40,000	66,396	132,792	40,000	-	0.00%
41450	Chemicals	1,115,400	581,277	1,162,554	1,343,671	228,271	20.47%
41500	Vehicle Maintenance	10,000	2,876	5,752	10,000	-	0.00%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Urban Water

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41550	Equipment Repair, Replace, Maint.	250,000	106,242	212,484	233,000	(17,000)	-6.80%
41600	Instrumentation & Metering	140,200	26,114	52,228	171,625	31,425	22.41%
41650	Fuel & Lubricants	25,000	7,007	14,014	25,000	-	0.00%
41700	General Other Maintenance	90,000	6,945	13,890	90,000	-	0.00%
<i>Subtotal</i>		\$ 2,250,440	\$ 1,234,366	\$ 2,468,732	\$ 2,511,396	\$ 260,956	11.60%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -		\$ -	#DIV/0!
81250	Equipment (over \$10,000)	-	-	-		-	#DIV/0!
81300	Vehicle Replacement Fund	15,400	7,700	15,400	16,000	600	3.90%
<i>Subtotal</i>		\$ 15,400	\$ 7,700	\$ 15,400	\$ 16,000	\$ 600	3.90%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ 960,343	\$ 457,407	\$ 939,857	\$ 1,170,531	\$ 210,188	21.89%
95300	Engineering Allocation	912,156	416,414	832,828	1,035,528	123,372	13.53%
95150	Maintenance Allocation	535,418	245,907	494,029	566,450	31,032	5.80%
95200	Laboratory Allocation	239,371	101,502	205,646	243,674	4,303	1.80%
<i>Subtotal</i>		\$ 2,647,288	\$ 1,221,230	\$ 2,472,360	\$ 3,016,183	\$ 368,895	13.93%
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		\$ 8,449,904	\$ 4,138,473	\$ 8,337,072	\$ 9,227,863	\$ 765,309	9.06%

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Crozet Water Summary

Projected Flow (MGD)

FY 2022			FY 2023	Budget % Change
Budgeted FY 2022	Actual for 6 months	Projected 12 months	Proposed Budget	
0.555			0.555	0.00%

Operations Budget

Projected Revenues

Operations Rate (monthly)

	\$ 88,238			\$ 99,757	13.05%
Revenue	\$ 1,058,856	\$ 529,428	\$ 1,058,856	\$ 1,197,084	13.05%
Leases	30,000	20,027	40,054	25,000	-16.67%
Use of Reserves	13,000	-	-	-	-100.00%
Interest Allocation	500	382	764	400	-20.00%
Total Operations Revenues	\$ 1,102,356	\$ 549,837	\$ 1,099,674	\$ 1,222,484	10.90%

Projected Expenses

Personnel Cost	\$ 324,463	\$ 160,312	\$ 325,686	\$ 352,559	8.66%
Professional Services	15,100	24,117	48,234	22,900	51.66%
Other Services and Charges	104,450	52,951	105,902	118,700	13.64%
Communications	17,530	8,973	17,946	17,600	0.40%
Information Technology	5,250	9,131	18,262	4,950	-5.71%
Supplies	1,500	522	1,044	1,500	0.00%
Operations and Maintenance	296,900	140,679	281,358	358,500	20.75%
Equipment Purchases	28,000	1,500	3,000	3,000	-89.29%
Depreciation	60,000	30,000	60,000	60,000	0.00%
Subtotal Before Allocations	\$ 853,193	\$ 428,185	\$ 861,432	\$ 939,709	10.14%
Allocations of Support Departments	249,160	114,937	232,653	282,780	13.49%
Total Operations Expenses	\$ 1,102,353	\$ 543,122	\$ 1,094,085	\$ 1,222,489	10.90%

Operations Cost per 1,000 gallons \$5.442 \$6.035 10.90%

Debt Service Budget

Projected Revenue

Debt Service Rates (monthly)

	\$ 153,986			\$ 180,142	16.99%
Debt Service Rate Revenue - ACSA	\$ 1,847,832	\$ 923,916	\$ 1,847,832	\$ 2,161,704	16.99%
Trust Fund Interest	2,900	97	194	80	-97.24%
Use of Reserves	-	-	-	-	
Reserve Fund Interest	2,500	808	1,616	1,200	-52.00%
Total Debt Service Revenue	\$ 1,853,232	\$ 924,821	\$ 1,849,642	\$ 2,162,984	16.71%

Principal, Interest & Reserves

Total Principal & Interest - Existing	\$ 1,216,667	\$ 608,334	\$ 1,216,668	\$ 1,217,280	0.05%
Estimated New Principal & Interest	634,070	808	1,616	944,500	48.96%
Reserve Additions - Interest	2,500	317,035	634,070	1,200	-52.00%
Total Debt Principal and Interest	\$ 1,853,237	\$ 926,177	\$ 1,852,354	\$ 2,162,980	16.71%

Rate Center Summary

Total Revenues	\$ 2,955,588	\$ 1,474,658	\$ 2,949,316	\$ 3,385,468	14.54%
Total Expenses	2,955,590	1,469,299	2,946,439	3,385,469	14.54%
Surplus/(Deficit)	\$ (2)	\$ 5,359	\$ 2,877	\$ (1)	
Rates - (Monthly)					
ACSA	\$ 242,224			\$ 279,899	15.55%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Crozet Water

Object Code	Line Item	Adopted Budget FY 2021-2022	Six Month Actual 12/31/2021	Projected Year end 6/30/2022	Proposed Budget FY 2022-2023	2023 Variance \$	2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 203,300	\$ 104,050	\$ 213,162	\$ 224,300	\$ 21,000	10.33%
11010	Overtime & Holiday Pay	25,000	12,311	24,622	25,000	-	0.00%
12010	FICA	17,465	8,658	17,316	19,071	1,606	9.20%
12020	Health Insurance	48,100	19,303	38,606	51,700	3,600	7.48%
12026	Employee Assistance Program	50	28	56	50	-	0.00%
12030	Retirement	16,874	8,386	16,772	18,819	1,945	11.53%
12040	Life Insurance	2,724	1,300	2,600	2,669	(55)	-2.02%
12050	Fitness Program	600	116	232	400	(200)	-33.33%
12060	Worker's Comp Insurance	4,100	1,917	3,834	4,300	200	4.88%
	Subtotal	\$ 318,213	\$ 156,069	\$ 317,200	\$ 346,309	\$ 28,096	8.83%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 250	\$ 222	\$ 444	\$ 250	\$ -	0.00%
13150	Education & Training	1,200	1,382	2,764	1,200	-	0.00%
13200	Travel & Lodging	400	102	204	400	-	0.00%
13250	Uniforms	3,700	2,350	4,700	3,700	-	0.00%
13325	Recruiting & Medical Testing	200	94	188	200	-	0.00%
13350	Other	500	93	186	500	-	0.00%
	Subtotal	\$ 6,250	\$ 4,243	\$ 8,486	\$ 6,250	\$ -	0.00%
	Professional Services						
20100	Legal Fees	\$ -	\$ -	\$ -	\$ -	\$ -	
20200	Financial & Admin. Services	-	-	-	-	-	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	15,100	24,117	48,234	22,900	7,800	51.66%
	Subtotal	\$ 15,100	\$ 24,117	\$ 48,234	\$ 22,900	\$ 7,800	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 2,200	\$ 1,051	\$ 2,102	\$ 2,300	\$ 100	4.55%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	-	-	-	-	-	#DIV/0!
21253	Safety Programs/Supplies	5,150	345	690	7,700	2,550	49.51%
21300	Authority Dues/Permits/Fees	1,000	-	-	1,700	700	70.00%
21350	Laboratory Analysis	16,100	10,343	20,686	21,000	4,900	30.43%
21400	Utilities	80,000	41,212	82,424	86,000	6,000	7.50%
21420	General Other Services	-	-	-	-	-	#DIV/0!
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 104,450	\$ 52,951	\$ 105,902	\$ 118,700	\$ 14,250	13.64%
22000	Communication						
22100	Radio	\$ 330	\$ 440	\$ 880	\$ 400	\$ 70	21.21%
22150	Telephone & Data Service	16,000	8,019	16,038	16,000	-	0.00%
22200	Cell Phones, Wireless data	1,200	514	1,028	1,200	-	0.00%
	Subtotal	\$ 17,530	\$ 8,973	\$ 17,946	\$ 17,600	\$ 70	0.40%
31000	Information Technology						
31100	Computer Hardware	\$ 2,250	\$ -	\$ -	\$ 1,250	\$ (1,000)	-44.44%
31150	SCADA Maint. & Support	3,000	8,296	16,592	1,500	(1,500)	-50.00%
31200	Maintenance & Support Services	-	835	1,670	-	-	
31250	Software Purchases	-	-	-	-	-	#DIV/0!
31300	Security Systems	-	-	-	2,200		
31325	Asset Mgt / Project Mgt Systems	-	-	-	-		
	Subtotal	\$ 5,250	\$ 9,131	\$ 18,262	\$ 4,950	\$ (2,500)	-47.62%
33000	Supplies						
33100	Office Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	1,500	522	1,044	1,500	-	0.00%
	Subtotal	\$ 1,500	\$ 522	\$ 1,044	\$ 1,500	\$ -	0.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 18,200	\$ 24,892	\$ 49,784	\$ 24,200	\$ 6,000	32.97%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Crozet Water

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41350	Pipeline/Appurtenances	5,000	7,000	14,000	2,000	(3,000)	-60.00%
41400	Materials, Supplies & Tools	2,500	11,269	22,538	5,000	2,500	100.00%
41450	Chemicals	204,400	81,999	163,998	223,300	18,900	9.25%
41500	Vehicle Maintenance	1,500	449	898	1,000	(500)	-33.33%
41550	Equipment Repair, Replace, Maint.	40,000	14,143	28,286	40,000	-	0.00%
41600	Instrumentation & Metering	11,500	-	-	28,000	16,500	143.48%
41650	Fuel & Lubricants	5,000	927	1,854	5,000	-	0.00%
41700	General Other Maintenance	8,800	-	-	30,000	21,200	240.91%
<i>Subtotal</i>		\$ 296,900	\$ 140,679	\$ 281,358	\$ 358,500	\$ 61,600	20.75%
81000	<i>Equipment Purchases</i>						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	
81250	Equipment (over \$10,000)	25,000	-	-	-	(25,000)	
81300	Vehicle Replacement Fund	3,000	1,500	3,000	3,000	-	0.00%
<i>Subtotal</i>		\$ 28,000	\$ 1,500	\$ 3,000	\$ 3,000	\$ (25,000)	-89.29%
95000	<i>Allocations from Departments</i>						
95100	Administrative Allocation	\$ 87,304	\$ 41,582	\$ 85,442	\$ 106,412	\$ 19,108	21.89%
95300	Engineering Allocation	77,630	35,439	70,879	88,130	10,500	13.53%
95150	Maintenance Allocation	62,465	28,689	57,637	66,086	3,621	5.80%
95200	Laboratory Allocation	21,761	9,227	18,695	22,152	391	1.80%
<i>Subtotal</i>		\$ 249,160	\$ 114,937	\$ 232,653	\$ 282,780	\$ 33,620	13.49%
Depreciation		\$ 60,000	\$ 30,000	\$ 60,000	\$ 60,000	\$ -	0.00%
<i>Subtotal</i>		\$ 60,000	\$ 30,000	\$ 60,000	\$ 60,000	\$ -	0.00%
Total		\$ 1,102,353	\$ 543,122	\$ 1,094,085	\$ 1,222,489	\$ 117,936	10.70%

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Scottsville Water Summary

Projected Flow (MGD)

FY 2022			FY 2023	Budget % Change
Budgeted FY 2022	Actual for 6 months	Projected 12 months	Proposed Budget	
0.047			0.047	0.00%

Operations Budget

Projected Revenues

Operations Rate (monthly)

Revenue	\$ 42,892			\$ 47,463	10.66%
Use of reserves	\$ 514,704	\$ 257,352	\$ 514,704	\$ 569,556	10.66%
Interest Allocation	3,250	3,250	6,500	-	-100.00%
	200	184	368	200	0.00%
Total Operations Revenues	\$ 518,154	\$ 260,786	\$ 521,572	\$ 569,756	9.96%

Projected Expenses

Personnel Cost	\$ 195,695	\$ 97,664	\$ 198,438	\$ 212,797	8.74%
Professional Services	2,900	7,515	15,030	5,000	72.41%
Other Services and Charges	28,100	16,413	32,826	27,100	-3.56%
Communications	4,930	3,295	6,590	6,400	29.82%
Information Technology	1,250	11,914	23,828	4,400	252.00%
Supplies	770	71	142	100	-87.01%
Operations and Maintenance	87,200	64,416	128,832	97,925	12.30%
Equipment Purchases	1,500	1,158	2,316	1,600	6.67%
Depreciation	40,000	20,000	40,000	40,000	0.00%
Subtotal Before Allocations	\$ 362,345	\$ 222,446	\$ 448,002	\$ 395,322	9.10%
Allocations of Support Departments	155,813	71,814	145,145	174,433	11.95%
Total Operations Expenses	\$ 518,158	\$ 294,260	\$ 593,147	\$ 569,755	9.96%

Operations Cost per 1,000 gallons \$30.204 \$33.212 9.96%

Debt Service Budget

Projected Revenue

Debt Service Rates - Monthly

Debt Service Rate Revenue - ACSA	\$ 11,574			\$ 12,525	8.22%
Trust Fund Interest	\$ 138,888	\$ 69,444	\$ 138,888	\$ 150,300	8.22%
Reserve Fund Interest	300	10	20	10	-96.67%
	1,200	391	782	850	-29.17%
Total Debt Service Revenue	\$ 140,388	\$ 69,845	\$ 139,690	\$ 151,160	7.67%

Principal, Interest & Reserves

Total Principal & Interest	\$ 125,892	\$ 63,942	\$ 127,884	\$ 148,726	18.14%
Estimated New Principal & Interest	13,299	5,654	11,308	1,589	-88.05%
Reserve Additions-Interest	1,200	391	782	850	-29.17%
Total Debt Principal and Interest	\$ 140,391	\$ 69,987	\$ 139,974	\$ 151,165	7.67%

Rate Center Summary

Total Revenues	\$ 658,542	\$ 330,631	\$ 661,262	\$ 720,916	9.47%
Total Expenses	658,549	364,247	733,121	720,920	9.47%
Surplus/ (Deficit)	\$ (7)	\$ (33,616)	\$ (71,859)	\$ (4)	
Rates - Monthly					
ACSA	\$ 54,466			\$ 59,988	10.14%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Scottsville Water

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 124,900	\$ 63,394	\$ 129,898	\$ 137,800	\$ 12,900	10.33%
11010	Overtime & Holiday Pay	13,000	7,539	15,078	13,000	-	0.00%
12010	FICA	10,549	5,278	10,556	11,536	987	9.36%
12020	Health Insurance	29,700	11,764	23,528	31,800	2,100	7.07%
12026	Employee Assistance Program	25	17	34	30	5	20.00%
12030	Retirement	10,367	5,109	10,218	11,561	1,194	11.52%
12040	Life Insurance	1,674	792	1,584	1,640	(34)	-2.03%
12050	Fitness Program	350	70	140	200	(150)	-42.86%
12060	Worker's Comp Insurance	2,500	1,161	2,322	2,600	100	4.00%
	Subtotal	\$ 193,065	\$ 95,124	\$ 193,358	\$ 210,167	\$ 17,102	8.86%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 180	\$ 135	\$ 270	\$ 180	\$ -	0.00%
13150	Education & Training	400	808	1,616	400	-	0.00%
13200	Travel & Lodging	200	59	118	200	-	0.00%
13250	Uniforms	1,400	1,439	2,878	1,400	-	0.00%
13325	Recruiting & Medical Testing	150	57	114	150	-	0.00%
13350	Other	300	42	84	300	-	0.00%
	Subtotal	\$ 2,630	\$ 2,540	\$ 5,080	\$ 2,630	\$ -	0.00%
	Professional Services						
20100	Legal Fees		\$ 5,658	\$ 11,316	\$ -	\$ -	
20200	Financial & Admin. Services		-	-	-	-	
20250	Bond Issue Costs		-	-	-	-	
20300	Engineering & Technical Services	2,900	1,857	3,714	5,000	2,100	72.41%
	Subtotal	\$ 2,900	\$ 7,515	\$ 15,030	\$ 5,000	\$ 2,100	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 900	\$ 430	\$ 860	\$ 900	\$ -	0.00%
21150	Advertising & Communication		-	-	-	-	
21250	Watershed Management		4,800	9,600	-	-	
21253	Safety Programs/Supplies	5,900	339	678	4,200	(1,700)	-28.81%
21300	Authority Dues/Permits/Fees	500	600	1,200	500	-	0.00%
21350	Laboratory Analysis	5,800	2,987	5,974	5,500	(300)	-5.17%
21400	Utilities	15,000	7,257	14,514	16,000	1,000	6.67%
21420	General Other Services	-	-	-	-	-	#DIV/0!
21430	Governance & Strategic Support		-	-	-	-	
21450	Bad Debt		-	-	-	-	
	Subtotal	\$ 28,100	\$ 16,413	\$ 32,826	\$ 27,100	\$ (1,000)	-3.56%
22000	Communication						
22100	Radio	\$ 330	\$ 240	\$ 480	\$ 400	\$ 70	21.21%
22150	Telephone & Data Service	3,700	2,679	5,358	5,000	1,300	35.14%
22200	Cell Phones, Wireless data	900	376	752	1,000	100	11.11%
	Subtotal	\$ 4,930	\$ 3,295	\$ 6,590	\$ 6,400	\$ 1,470	29.82%
31000	Information Technology						
31100	Computer Hardware	\$ 750	\$ -	\$ -	\$ 1,250	\$ 500	66.67%
31150	SCADA Maint. & Support	500	11,914	23,828	1,300	800	160.00%
31200	Maintenance & Support Services		-	-	-	-	
31250	Software Purchases		-	-	-	-	0.00%
31300	Security Systems	-	-	-	1,850		
31325	Asset Mgt / Project Mgt Systems	-	-	-	-		
	Subtotal	\$ 1,250	\$ 11,914	\$ 23,828	\$ 4,400	\$ 1,300	104.00%
33000	Supplies						
33100	Office Supplies		\$ -	\$ -	\$ -	\$ -	#DIV/0!
33150	Subscriptions/Reference Material		-	-	-	-	#DIV/0!
33350	Postage & Delivery	770	71	142	100	(670)	-87.01%
	Subtotal	\$ 770	\$ 71	\$ 142	\$ 100	\$ (670)	-87.01%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 5,900	\$ 18,016	\$ 36,032	\$ 16,800	\$ 10,900	184.75%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	1,500	1,500	#DIV/0!
41350	Pipeline/Appurtenances	-	2,627	5,254	-	-	
41400	Materials, Supplies & Tools	3,700	8,286	16,572	2,500	(1,200)	-32.43%
41450	Chemicals	32,800	28,497	56,994	31,025	(1,775)	-5.41%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Scottsville Water

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41500	Vehicle Maintenance	800	275	550	800	-	0.00%
41550	Equipment Repair, Replace, Maint.	20,000	3,191	6,382	25,800	5,800	29.00%
41600	Instrumentation & Metering	13,200	-	-	10,000	(3,200)	-24.24%
41650	Fuel & Lubricants	1,000	674	1,348	1,000	-	0.00%
41700	General Other Maintenance	9,800	2,850	5,700	8,500	(1,300)	-13.27%
<i>Subtotal</i>		\$ 87,200	\$ 64,416	\$ 128,832	\$ 97,925	\$ 10,725	12.30%
81000	<i>Equipment Purchases</i>						
81200	Rental & Leases		\$ 408	\$ 816	\$ -	-	#DIV/0!
81250	Equipment (over \$10,000)		-	-	-	-	
81300	Vehicle Replacement Fund	1,500	750	1,500	1,600	100	6.67%
<i>Subtotal</i>		\$ 1,500	\$ 1,158	\$ 2,316	\$ 1,600	\$ 100	6.67%
95000	<i>Allocations from Departments</i>						
95100	Administrative Allocation	\$ 43,652	\$ 20,791	\$ 42,721	\$ 53,206	\$ 9,554	21.89%
95300	Engineering Allocation	38,815	17,720	35,439	44,065	5,250	13.53%
95150	Maintenance Allocation	62,465	28,689	57,637	66,086	3,621	5.80%
95200	Laboratory Allocation	10,881	4,614	9,348	11,076	195	1.79%
<i>Subtotal</i>		\$ 155,813	\$ 71,814	\$ 145,145	\$ 174,433	\$ 18,620	11.95%
Depreciation		\$ 40,000	\$ 20,000	\$ 40,000	\$ 40,000	\$ -	0.00%
<i>Subtotal</i>		\$ 40,000	\$ 20,000	\$ 40,000	\$ 40,000	\$ -	0.00%
Total		\$ 518,158	\$ 294,260	\$ 593,147	\$ 569,755	\$ 49,747	9.60%

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Wastewater Rate Centers

Rivanna Water and Sewer Authority

Fiscal Year 2022-2023

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Urban Wastewater Summary

Projected Flow (MGD)

FY 2022			FY 2023	Budget % Change
Budgeted FY 2022	Actual for 6 months	Projected 12 months	Proposed Budget	
9.289			9.289	0.00%

Operations Budget

Projected Revenues

Operations Rate

	\$ 2.517			\$ 2.664	5.84%
Revenue	\$ 8,535,195	\$ 4,256,139	\$ 8,512,278	\$ 9,033,662	5.84%
Stone Robinson WWTP	20,589	8,472	16,944	39,036	89.60%
Septage Acceptance	475,000	289,955	579,910	500,000	5.26%
Nutrient Credits	45,000	104,475	208,950	100,000	122.22%
Rate Stabilization Reserve	100,000	50,000	100,000	-	-100.00%
Miscellaneous Revenue	-	-	-	-	
Interest Allocation	3,800	3,049	6,098	3,300	-13.16%
Total Operations Revenues	\$ 9,179,584	\$ 4,712,090	\$ 9,424,180	\$ 9,675,998	5.41%

Projected Expenses

Personnel Cost	\$ 1,289,471	\$ 658,845	\$ 1,337,201	\$ 1,325,384	2.79%
Professional Services	208,500	102,279	204,558	75,000	-64.03%
Other Services and Charges	2,011,700	945,154	1,890,308	2,276,980	13.19%
Communications	9,800	6,350	12,700	1,900	-80.61%
Information Technology	56,500	39,573	79,146	110,400	95.40%
Supplies	1,200	492	984	1,200	0.00%
Operations and Maintenance	1,672,520	1,020,300	2,040,600	1,698,660	1.56%
Equipment Purchases	294,250	25,000	50,000	143,000	-51.40%
Depreciation & Reserves	470,000	235,000	470,000	470,000	0.00%
Subtotal before allocations	\$ 6,013,941	\$ 3,032,993	\$ 6,085,497	\$ 6,102,524	1.47%
Allocations of Support Departments	3,165,643	1,460,371	2,955,057	3,573,474	12.88%
Total Operations Expenses	\$ 9,179,584	\$ 4,493,364	\$ 9,040,554	\$ 9,675,998	5.41%

Operations Cost per 1,000 gallons

\$2.707

\$2.854

5.43%

Debt Service Budget

* - Mid year rate change in DS Rate

Projected Revenue

Debt Service Rate

CITY *	\$ 376,036			\$ 384,637	2.29%
ACSA *	\$ 337,983			\$ 355,205	5.10%
Debt Service Rate Revenue - CITY	\$ 4,512,430	\$ 2,256,216	\$ 4,512,432	\$ 4,615,642	2.29%
Debt Service Rate Revenue - ACSA	4,055,792	2,009,898	4,019,796	4,262,465	5.10%
County MOU - Septage	109,440	109,441	218,882	109,440	0.00%
Trust Fund Interest	18,500	630	1,260	500	-97.30%
Reserve Fund Interest	36,300	11,833	23,666	31,000	-14.60%
Total Debt Service Revenue	\$ 8,732,462	\$ 4,388,018	\$ 8,776,036	\$ 9,019,047	3.28%

Principal, Interest & Reserves

Total Principal & Interest	\$ 7,689,212	\$ 3,849,835	\$ 7,699,670	\$ 7,808,347	1.55%
Reserve Additions - Interest	36,300	11,833	23,666	31,000	-14.60%
Debt Service Ratio Charge	325,000	162,500	325,000	325,000	0.00%
Est. New Debt Service - CIP Growth	681,950	335,746	671,492	854,700	25.33%
Total Debt Principal and Interest	\$ 8,732,462	\$ 4,359,914	\$ 8,719,828	\$ 9,019,047	3.28%

Rate Center Summary

Total Revenues	\$ 17,912,046	\$ 9,100,108	\$ 18,200,216	\$ 18,695,045	4.37%
Total Expenses	17,912,046	8,853,278	17,760,382	18,695,045	4.37%
Surplus/(Deficit)	\$ -	\$ 246,830	\$ 439,834	\$ -	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Urban Wastewater

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 847,100	\$ 428,957	\$ 879,007	\$ 877,400	\$ 30,300	3.58%
11010	Overtime & Holiday Pay	55,000	24,866	49,732	55,000	-	0.00%
12010	FICA	69,011	33,612	67,224	71,329	2,318	3.36%
12020	Health Insurance	200,300	106,476	212,952	204,800	4,500	2.25%
12026	Employee Assistance Program	200	127	254	200	-	0.00%
12030	Retirement	70,309	33,299	66,598	73,614	3,305	4.70%
12040	Life Insurance	11,351	5,208	10,416	10,441	(910)	-8.02%
12050	Fitness Program	1,200	752	1,504	1,200	-	0.00%
12060	Worker's Comp Insurance	10,000	5,290	8,998	11,000	1,000	10.00%
	Subtotal	\$ 1,264,471	\$ 638,587	\$ 1,296,685	\$ 1,304,984	\$ 40,513	3.20%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 2,000	\$ 1,395	\$ 2,790	\$ 2,000	\$ -	0.00%
13150	Education & Training	7,400	10,507	21,014	4,900	(2,500)	-33.78%
13200	Travel & Lodging	2,600	1,398	2,796	500	(2,100)	-80.77%
13250	Uniforms	11,000	6,236	12,472	11,000	-	0.00%
13325	Recruiting & Medical Testing	1,000	340	680	1,000	-	0.00%
13350	Other	1,000	382	764	1,000	-	0.00%
	Subtotal	\$ 25,000	\$ 20,258	\$ 40,516	\$ 20,400	\$ (4,600)	-18.40%
	Professional Services						
20100	Legal Fees	\$ 5,000	\$ 4,876	\$ 9,752	\$ 5,000	\$ -	
20200	Financial & Admin. Services	-	610	1,220	-	-	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	203,500	96,793	193,586	70,000	(133,500)	-65.60%
	Subtotal	\$ 208,500	\$ 102,279	\$ 204,558	\$ 75,000	\$ (133,500)	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 66,200	\$ 31,636	\$ 63,272	\$ 70,300	\$ 4,100	6.19%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	10,000	20,510	41,020	20,900	10,900	109.00%
21300	Authority Dues/Permits/Fees	46,500	14,536	29,072	46,000	(500)	-1.08%
21350	Laboratory Analysis	25,200	7,702	15,404	11,680	(13,520)	-53.65%
21400	Utilities	940,000	435,840	871,680	940,000	-	0.00%
21420	General Other Services	923,800	434,930	869,860	1,188,100	264,300	28.61%
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 2,011,700	\$ 945,154	\$ 1,890,308	\$ 2,276,980	\$ 265,280	13.19%
22000	Communication						
22100	Radio	\$ 3,000	\$ 2,163	\$ 4,326	\$ -	\$ (3,000)	-100.00%
22150	Telephone & Data Service	2,000	2,201	4,402	-	(2,000)	-100.00%
22200	Cell Phones, Wireless data	4,800	1,986	3,972	1,900	(2,900)	-60.42%
	Subtotal	\$ 9,800	\$ 6,350	\$ 12,700	\$ 1,900	\$ (7,900)	-80.61%
31000	Information Technology						
31100	Computer Hardware	\$ 7,000	\$ -	\$ -	\$ 10,000	\$ 3,000	42.86%
31150	SCADA Maint. & Support	48,500	33,462	66,924	90,800	42,300	87.22%
31200	Maintenance & Support Services	-	4,700	9,400	-	-	
31250	Software Purchases	1,000	1,411	2,822	-	(1,000)	-100.00%
31300	Security Systems	-	-	-	5,600	5,600	
31325	Asset Mgt / Project Mgt Systems	-	-	-	4,000	-	
	Subtotal	\$ 56,500	\$ 39,573	\$ 79,146	\$ 110,400	\$ 49,900	88.32%
33000	Supplies						
33100	Office Supplies	\$ 1,000	\$ 312	\$ 624	\$ 1,000	\$ -	0.00%
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	200	180	360	200	-	0.00%
	Subtotal	\$ 1,200	\$ 492	\$ 984	\$ 1,200	\$ -	0.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 91,160	\$ 13,819	\$ 27,638	\$ 76,160	\$ (15,000)	-16.45%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	114,360	106,428	212,856	125,000	10,640	9.30%
41400	Materials, Supplies & Tools	41,000	49,460	98,920	57,000	16,000	39.02%
41450	Chemicals	677,000	489,921	979,842	727,200	50,200	7.42%
41500	Vehicle Maintenance	15,000	17,320	34,640	15,000	-	0.00%
41550	Equipment Repair, Replace, Maint.	440,000	294,573	589,146	508,900	68,900	15.66%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Urban Wastewater

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41600	Instrumentation & Metering	249,000	40,413	80,826	144,400	(104,600)	-42.01%
41650	Fuel & Lubricants	30,000	8,971	17,942	40,000	10,000	33.33%
41700	General Other Maintenance	15,000	(605)	(1,210)	5,000	(10,000)	66.67%
<i>Subtotal</i>		\$ 1,672,520	\$ 1,020,300	\$ 2,040,600	\$ 1,698,660	\$ 26,140	1.56%
81000	<i>Equipment Purchases</i>						
81200	Rental & Leases	\$ 77,250	\$ -	\$ -	\$ 26,000	\$ (51,250)	-66.34%
81250	Equipment (over \$10,000)	167,000	-	-	67,000	(100,000)	
81300	Vehicle Replacement Fund	50,000	25,000	50,000	50,000	-	0.00%
<i>Subtotal</i>		\$ 294,250	\$ 25,000	\$ 50,000	\$ 143,000	\$ (151,250)	-51.40%
95000	<i>Allocations from Departments</i>						
95100	Administrative Allocation	\$ 1,047,647	\$ 498,990	\$ 1,025,299	\$ 1,276,943	\$ 229,296	21.89%
95300	Engineering Allocation	853,934	389,834	779,669	969,430	115,496	13.53%
95150	Maintenance Allocation	1,008,370	463,125	930,421	1,066,813	58,443	5.80%
95200	Laboratory Allocation	255,692	108,422	219,668	260,288	4,596	1.80%
<i>Subtotal</i>		\$ 3,165,643	\$ 1,460,371	\$ 2,955,057	\$ 3,573,474	\$ 407,831	12.88%
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		\$ 9,179,584	\$ 4,493,364	\$ 9,040,554	\$ 9,675,998	\$ 492,414	5.36%

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Glenmore Wastewater Summary

Projected Flow (MGD)

FY 2022			FY 2023	Budget % Change
Budgeted FY 2022	Actual for 6 months	Projected 12 months	Proposed Budget	
0.113			0.113	

Operations Budget

Projected Revenues

Operations Rate (monthly)

Revenue	\$ 404,028	\$ 202,014	\$ 404,028	\$ 443,640	9.80%
Interest Allocation	200	138	276	150	-25.00%
Total Operations Revenues	\$ 404,228	\$ 202,152	\$ 404,304	\$ 443,790	9.79%

Projected Expenses

Personnel Cost	\$ 94,885	\$ 48,392	\$ 98,333	\$ 115,815	22.06%
Professional Services	12,900	95,000	190,000	5,000	
Other Services and Charges	34,300	17,692	35,384	35,750	4.23%
Communications	3,130	1,483	2,966	-	-100.00%
Information Technology	2,000	661	1,322	4,425	121.25%
Supplies	-	69	138	-	
Operations and Maintenance	121,650	38,197	76,394	134,950	10.93%
Equipment Purchases	3,800	1,900	3,800	3,800	0.00%
Depreciation	10,000	5,000	10,000	10,000	0.00%
Subtotal before allocations	\$ 282,665	\$ 208,394	\$ 418,337	\$ 309,740	9.58%
Allocations of Support Departments	121,562	55,835	112,588	134,045	10.27%
Total Operations Expenses	\$ 404,227	\$ 264,229	\$ 530,925	\$ 443,785	9.79%

Operations Cost per 1,000 gallons

\$9.801

\$10.760

Debt Service Budget

Projected Revenue

Debt Service Rate (monthly)

Debt Service Rate Revenue - ACSA	\$ 7,412	\$ 3,708	\$ 7,416	\$ 20,484	176.36%
Trust Fund Interest	-	-	-		
Reserve Fund Interest	200	78	156	80	-60.00%
Total Debt Service Revenue	\$ 7,612	\$ 3,786	\$ 7,572	\$ 20,564	170.15%

Principal, Interest & Reserves

Total Principal & Interest	\$ 1,578	\$ 1,536	\$ 3,072	\$ 18,717	1086.12%
Estimated New Principal & Interest	5,834	2,170	4,340	1,761	-69.81%
Reserve Additions - Interest	200	78	156	80	-60.00%
Total Debt Principal and Interest	\$ 7,612	\$ 3,784	\$ 7,568	\$ 20,558	170.07%

Rate Center Summary

Total Revenues	\$ 411,840	\$ 205,938	\$ 411,876	\$ 464,354	12.75%
Total Expenses	411,839	268,013	538,493	464,343	12.75%
Surplus/(Deficit)	\$ 1	\$ (62,075)	\$ (126,617)	\$ 11	
Rates (Monthly)					
ACSA	\$ 34,287			\$ 38,677	12.80%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Glenmore Wastewater

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 62,200	\$ 31,539	\$ 64,627	\$ 77,100	\$ 14,900	23.95%
11010	Overtime & Holiday Pay	4,000	1,907	3,814	4,000	-	0.00%
12010	FICA	5,064	2,479	4,958	6,204	1,140	22.51%
12020	Health Insurance	15,100	7,926	15,852	18,600	3,500	23.18%
12026	Employee Assistance Program	15	10	20	15	-	0.00%
12030	Retirement	5,163	2,445	4,890	6,469	1,306	25.30%
12040	Life Insurance	833	382	764	917	84	10.08%
12050	Fitness Program	80	53	106	80	-	0.00%
12060	Worker's Comp Insurance	800	387	774	800	-	0.00%
	Subtotal	\$ 93,255	\$ 47,128	\$ 95,805	\$ 114,185	\$ 20,930	22.44%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 100	\$ 104	\$ 208	\$ 100	\$ -	0.00%
13150	Education & Training	500	538	1,076	500	-	0.00%
13200	Travel & Lodging	50	94	188	50	-	0.00%
13250	Uniforms	780	478	956	780	-	0.00%
13325	Recruiting & Medical Testing	100	26	52	100	-	0.00%
13350	Other	100	24	48	100	-	0.00%
	Subtotal	\$ 1,630	\$ 1,264	\$ 2,528	\$ 1,630	\$ -	0.00%
	Professional Services						
20100	Legal Fees		\$ -	\$ -		\$ -	
20200	Financial & Admin. Services		-	-		-	
20250	Bond Issue Costs		-	-		-	
20300	Engineering & Technical Services	12,900	95,000	190,000	5,000	(7,900)	-61.24%
	Subtotal	\$ 12,900	\$ 95,000	\$ 190,000	\$ 5,000	\$ (7,900)	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 300	\$ 143	\$ 286	\$ 350	\$ 50	16.67%
21150	Advertising & Communication		-	-		-	
21250	Watershed Management		-	-		-	
21253	Safety Programs/Supplies	600	548	1,096	600	-	0.00%
21300	Authority Dues/Permits/Fees	3,400	2,940	5,880	3,600	200	5.88%
21350	Laboratory Analysis	2,000	1,140	2,280	3,200	1,200	60.00%
21400	Utilities	28,000	12,921	25,842	28,000	-	0.00%
21420	General Other Services	-	-	-	-	-	#DIV/0!
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 34,300	\$ 17,692	\$ 35,384	\$ 35,750	\$ 1,450	4.23%
22000	Communication						
22100	Radio	\$ 330	\$ 240	\$ 480		\$ (330)	-100.00%
22150	Telephone & Data Service	2,200	960	1,920		(2,200)	-100.00%
22200	Cell Phones, Wireless data	600	283	566		(600)	-100.00%
	Subtotal	\$ 3,130	\$ 1,483	\$ 2,966	\$ -	\$ (3,130)	-100.00%
31000	Information Technology						
31100	Computer Hardware	\$ 1,000	\$ 476	\$ 952	\$ 1,250	\$ 250	25.00%
31150	SCADA Maint. & Support	1,000	17	34	1,125	125	12.50%
31200	Maintenance & Support Services		168	336		-	
31250	Software Purchases		-	-	-	-	
31300	Security Systems	-	-	-	2,050		
31325	Asset Mgt / Project Mgt Systems	-	-	-	-		
	Subtotal	\$ 2,000	\$ 661	\$ 1,322	\$ 4,425	\$ 375	18.75%
33000	Supplies						
33100	Office Supplies		\$ 69	\$ 138	\$ -	\$ -	
33150	Subscriptions/Reference Material		-	-	-	-	
33350	Postage & Delivery		-	-	-	-	
	Subtotal	\$ -	\$ 69	\$ 138	\$ -	\$ -	#DIV/0!
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 5,200	\$ 2,043	\$ 4,086	\$ 14,000	\$ 8,800	169.23%
41150	Building/land Lease, Rental		-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Glenmore Wastewater

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41350	Pipeline/Appurtenances	-	-	-	-	-	
41400	Materials, Supplies & Tools	9,200	621	1,242	7,500	(1,700)	-18.48%
41450	Chemicals	5,000	2,458	4,916	5,000	-	0.00%
41500	Vehicle Maintenance	750	338	676	750	-	0.00%
41550	Equipment Repair, Replace, Maint.	34,000	2,627	5,254	40,000	6,000	17.65%
41600	Instrumentation & Metering	10,000	-	-	5,000	(5,000)	-50.00%
41650	Fuel & Lubricants	2,500	1,974	3,948	2,700	200	8.00%
41700	General Other Maintenance	55,000	28,136	56,272	60,000	5,000	9.09%
Subtotal		\$ 121,650	\$ 38,197	\$ 76,394	\$ 134,950	\$ 13,300	10.93%
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	\$ 21,826	\$ 10,396	\$ 21,360	\$ 26,603	\$ 4,777	21.89%
95300	Engineering Allocation	29,111	13,290	26,580	33,049	3,938	13.53%
95150	Maintenance Allocation	62,465	28,689	57,637	66,086	3,621	5.80%
95200	Laboratory Allocation	8,160	3,460	7,011	8,307	147	1.80%
Subtotal		\$ 121,562	\$ 55,835	\$ 112,588	\$ 134,045	\$ 12,483	10.27%
Depreciation		\$ 10,000	\$ 5,000	\$ 10,000	\$ 10,000	\$ -	0.00%
Subtotal		\$ 10,000	\$ 5,000	\$ 10,000	\$ 10,000	\$ -	0.00%
Total		\$ 404,227	\$ 264,229	\$ 530,925	\$ 443,785	\$ 37,508	9.28%

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Scottsville Wastewater Summary

Projected Flow (MGD)

FY 2022			FY 2023	Budget % Change
Budgeted FY 2022	Actual for 6 months	Projected 12 months	Proposed Budget	
0.065			0.065	

Operations Budget

Projected Revenues

Operations Rate (monthly)

Revenue	\$ 27,189			\$ 29,635	9.00%
Interest Allocation	\$ 326,268	\$ 163,134	\$ 326,268	\$ 355,620	9.00%
	100	105	210	120	20.00%
Total Operations Revenues	\$ 326,368	\$ 163,239	\$ 326,478	\$ 355,740	9.00%

Projected Expenses

Personnel Cost	\$ 94,875	\$ 48,391	\$ 98,331	\$ 115,795	22.05%
Professional Services	10,250	482	964	5,000	-51.22%
Other Services and Charges	21,800	11,628	23,256	26,650	22.25%
Communications	3,400	2,021	4,042	3,770	10.88%
Information Technology	1,500	1,873	3,746	4,125	175.00%
Supplies	-	-	-	-	
Operations and Maintenance	58,100	50,685	101,370	52,000	-10.50%
Equipment Purchases	3,800	1,900	3,800	3,800	0.00%
Depreciation	20,000	10,000	20,000	20,000	0.00%
Subtotal before allocations	\$ 213,725	\$ 126,980	\$ 255,509	\$ 231,140	8.15%
Allocations of Support Departments	112,639	51,737	104,354	124,604	10.62%
Total Operations Expenses	\$ 326,364	\$ 178,717	\$ 359,863	\$ 355,744	9.00%

Operations Cost per 1,000 gallons \$13.756 \$14.994 109.00%

Debt Service Budget

Projected Revenue

Debt Service Rate (monthly)

Debt Service Rate Revenue - ACSA	\$ 824			\$ 843	2.31%
Trust Fund Interest	\$ 9,882	\$ 4,944	\$ 9,888	\$ 10,110	2.31%
Reserve Fund Interest	-	1	2	-	#DIV/0!
	500	156	312	100	-80.00%
Total Debt Service Revenue	\$ 10,382	\$ 5,101	\$ 10,202	\$ 10,210	-1.66%

Principal, Interest & Reserves

Total Principal & Interest	\$ 7,453	\$ 3,727	\$ 7,454	\$ 7,447	-0.08%
Estimated New Principal & Interest	2,431	1,216	2,432	2,667	9.71%
Reserve Additions - Interest	500	156	312	100	-80.00%
Total Debt Principal and Interest	\$ 10,384	\$ 5,099	\$ 10,198	\$ 10,214	-1.64%

Rate Center Summary

Total Revenues	\$ 336,750	\$ 168,340	\$ 336,680	\$ 365,950	8.67%
Total Expenses	336,748	183,816	370,061	365,958	8.67%
Surplus/(Deficit)	\$ 2	\$ (15,476)	\$ (33,381)	\$ (8)	
Rates (Monthly)					
ACSA	\$ 28,013			\$ 30,478	8.80%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Scottsville Wastewater

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 62,200	\$ 31,538	\$ 64,625	\$ 77,100	\$ 14,900	23.95%
11010	Overtime & Holiday Pay	4,000	1,907	3,814	4,000	-	0.00%
12010	FICA	5,064	2,479	4,958	6,204	1,140	22.51%
12020	Health Insurance	15,100	7,926	15,852	18,600	3,500	23.18%
12026	Employee Assistance Program	15	10	20	15	-	0.00%
12030	Retirement	5,163	2,445	4,890	6,469	1,306	25.30%
12040	Life Insurance	833	382	764	917	84	10.08%
12050	Fitness Program	80	53	106	70	(10)	-12.50%
12060	Worker's Comp Insurance	800	387	774	800	-	0.00%
	Subtotal	\$ 93,255	\$ 47,127	\$ 95,803	\$ 114,175	\$ 20,920	22.43%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 100	\$ 104	\$ 208	\$ 100	\$ -	0.00%
13150	Education & Training	500	538	1,076	500	-	0.00%
13200	Travel & Lodging	100	94	188	100	-	0.00%
13250	Uniforms	750	478	956	750	-	0.00%
13325	Recruiting & Medical Testing	70	26	52	70	-	0.00%
13350	Other	100	24	48	100	-	0.00%
	Subtotal	\$ 1,620	\$ 1,264	\$ 2,528	\$ 1,620	\$ -	0.00%
	Professional Services						
20100	Legal Fees		\$ -	\$ -		\$ -	
20200	Financial & Admin. Services		-	-		-	
20250	Bond Issue Costs		-	-		-	
20300	Engineering & Technical Services	10,250	482	964	5,000	(5,250)	-51.22%
	Subtotal	\$ 10,250	\$ 482	\$ 964	\$ 5,000	\$ (5,250)	
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 800	\$ 382	\$ 764	\$ 850	\$ 50	6.25%
21150	Advertising & Communication	-	-	-		-	
21250	Watershed Management	-	-	-		-	
21253	Safety Programs/Supplies	600	543	1,086	600	-	0.00%
21300	Authority Dues/Permits/Fees	3,400	2,940	5,880	3,600	200	5.88%
21350	Laboratory Analysis	2,000	1,140	2,280	1,600	(400)	-20.00%
21400	Utilities	15,000	6,623	13,246	20,000	5,000	33.33%
21420	General Other Services	-	-	-	-	-	
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 21,800	\$ 11,628	\$ 23,256	\$ 26,650	\$ 4,850	22.25%
22000	Communication						
22100	Radio	\$ 330	\$ 240	\$ 480	\$ 500	\$ 170	51.52%
22150	Telephone & Data Service	2,800	1,674	3,348	3,000	200	7.14%
22200	Cell Phones, Wireless data	270	107	214	270	-	0.00%
	Subtotal	\$ 3,400	\$ 2,021	\$ 4,042	\$ 3,770	\$ 370	10.88%
31000	Information Technology						
31100	Computer Hardware	\$ 1,000	\$ -	\$ -	\$ 1,250	\$ 250	25.00%
31150	SCADA Maint. & Support	500	1,390	2,780	1,125	625	125.00%
31200	Maintenance & Support Services		483	966	-	-	
31250	Software Purchases		-	-	-	-	
31300	Security Systems	-	-	-	1,750		
31325	Asset Mgt / Project Mgt Systems	-	-	-	-	-	
	Subtotal	\$ 1,500	\$ 1,873	\$ 3,746	\$ 4,125	\$ 875	58.33%
33000	Supplies						
33100	Office Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	-	-	-	-	-	
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 16,600	\$ 10,783	\$ 21,566	\$ 17,250	\$ 650	3.92%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	-	192	384	-	-	
41400	Materials, Supplies & Tools	2,000	805	1,610	2,000	-	0.00%
41450	Chemicals	5,000	247	494	2,500	(2,500)	-50.00%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Rate Center: Scottsville Wastewater

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41500	Vehicle Maintenance	500	338	676	600	100	20.00%
41550	Equipment Repair, Replace, Maint.	17,000	29,680	59,360	10,000	(7,000)	-41.18%
41600	Instrumentation & Metering	5,000	2,562	5,124	5,000	-	0.00%
41650	Fuel & Lubricants	1,000	1,185	2,370	1,000	-	0.00%
41700	General Other Maintenance	11,000	4,893	9,786	13,650	2,650	24.09%
<i>Subtotal</i>		\$ 58,100	\$ 50,685	\$ 101,370	\$ 52,000	\$ (6,100)	-10.50%
81000	<i>Equipment Purchases</i>						
81200	Rental & Leases	\$ -	\$ -	\$ -		\$ -	
81250	Equipment (over \$10,000)	-	-	-		-	
81300	Vehicle Replacement Fund	3,800	1,900	3,800	3,800	-	0.00%
<i>Subtotal</i>		\$ 3,800	\$ 1,900	\$ 3,800	\$ 3,800	\$ -	0.00%
95000	<i>Allocations from Departments</i>						
95100	Administrative Allocation	\$ 21,826	\$ 10,396	\$ 21,360	\$ 26,603	\$ 4,777	21.89%
95300	Engineering Allocation	29,111	13,290	26,580	33,049	3,938	13.53%
95150	Maintenance Allocation	53,542	24,591	49,403	56,645	3,103	5.80%
95200	Laboratory Allocation	8,160	3,460	7,011	8,307	147	1.80%
<i>Subtotal</i>		\$ 112,639	\$ 51,737	\$ 104,354	\$ 124,604	\$ 11,965	10.62%
Depreciation		\$ 20,000	\$ 10,000	\$ 20,000	\$ 20,000	\$ -	0.00%
<i>Subtotal</i>		\$ 20,000	\$ 10,000	\$ 20,000	\$ 20,000	\$ -	0.00%
Total		\$ 326,364	\$ 178,717	\$ 359,863	\$ 355,744	\$ 27,630	8.47%

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Support Departments

Fiscal Year 2022-2023

Rivanna Water and Sewer Authority

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Administration Summary

FY 2022			FY 2023	Budget % Change
Budgeted FY 2022	Actual for 6 months	Projected 12 months	Proposed Budget	

Operations Budget

Projected Revenues & Sources

Payment for Services SWA	\$ 551,000	\$ 277,002	\$ 554,004	\$ 654,000	18.69%
Bond Proceeds Funding Bond Issuance Costs	\$ -	\$ 513,307	\$ 513,307	\$ -	
Miscellaneous Revenue	2,000	11,562	11,562	2,000	0.00%
Total Operations Revenues	\$ 553,000	\$ 801,871	\$ 1,078,873	\$ 656,000	18.63%

Projected Expenses

Personnel Cost	\$ 2,177,998	\$ 1,047,886	\$ 2,134,432	\$ 2,450,092	12.49%
Professional Services	163,200	570,071	633,528	170,000	4.17%
Other Services and Charges	86,200	52,564	105,128	162,600	88.63%
Communications	21,000	13,024	26,048	24,780	18.00%
Information Technology	171,900	121,528	243,056	404,876	135.53%
Supplies	21,500	9,473	18,946	23,000	6.98%
Operations and Maintenance	68,600	19,287	38,574	67,850	-1.09%
Equipment Purchases	25,200	7,600	15,200	13,100	-48.02%
Depreciation	-	-	-	-	
Total Operations Expenses	\$ 2,735,598	\$ 1,841,433	\$ 3,214,912	\$ 3,316,298	21.23%

Department Summary					
Total Revenues		\$ 553,000	\$ 801,871	\$ 1,078,873	\$ 656,000 18.63%
Total Expenses		2,735,598	1,841,433	3,214,912	3,316,298 21.23%
Net Costs Allocable to Rate Centers		\$ (2,182,598)	\$ (1,039,562)	\$ (2,136,039)	\$ (2,660,298) 21.89%
<u>Allocations to the Rate Centers</u>					
Urban Water	44.00%	\$ 960,343	\$ 457,407	\$ 939,857	\$ 1,170,531
Crozet Water	4.00%	87,304	41,582	85,442	106,412
Scottsville Water	2.00%	43,652	20,791	42,721	53,206
Urban Wastewater	48.00%	1,047,647	498,990	1,025,299	1,276,943
Glenmore Wastewater	1.00%	21,826	10,396	21,360	26,603
Scottsville Wastewater	1.00%	21,826	10,396	21,360	26,603
	100.00%	\$ 2,182,598	\$ 1,039,562	\$ 2,136,039	\$ 2,660,298

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Administration

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 1,552,600	\$ 755,446	\$ 1,549,552	\$ 1,776,200	\$ 223,600	14.40%
11010	Overtime & Holiday Pay	2,000	-	-	2,000	-	0.00%
12010	FICA	118,927	50,020	100,040	136,032	17,105	14.38%
12020	Health Insurance	295,800	135,842	271,684	294,100	(1,700)	-0.57%
12026	Employee Assistance Program	300	151	302	300	-	0.00%
12030	Retirement	128,866	63,838	127,676	149,023	20,157	15.64%
12040	Life Insurance	20,805	9,908	19,816	21,137	332	1.60%
12050	Fitness Program	4,000	1,341	2,682	3,500	(500)	-12.50%
12060	Worker's Comp Insurance	8,200	3,689	7,378	9,700	1,500	18.29%
	Subtotal	\$ 2,131,498	\$ 1,020,235	\$ 2,079,130	\$ 2,391,992	\$ 260,494	12.22%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 1,500	\$ 544	\$ 1,088	\$ 1,600	\$ 100	6.67%
13150	Education & Training	22,000	13,730	27,460	34,000	12,000	54.55%
13200	Travel & Lodging	4,000	4,034	8,068	3,500	(500)	-12.50%
13250	Uniforms	2,000	442	884	2,000	-	0.00%
13325	Recruiting & Medical Testing	4,000	1,603	3,206	4,000	-	0.00%
13350	Other	13,000	7,298	14,596	13,000	-	0.00%
	Subtotal	\$ 46,500	\$ 27,651	\$ 55,302	\$ 58,100	\$ 11,600	24.95%
	Professional Services						
20100	Legal Fees	\$ 60,000	\$ 17,723	\$ 35,446	\$ 60,000	\$ -	0.00%
20200	Financial & Admin. Services	103,200	13,872	27,744	60,000	(43,200)	-41.86%
20250	Bond Issue Costs	-	513,307	520,000	-	-	0.00%
20300	Engineering & Technical Services	-	25,169	50,338	50,000	50,000	0.00%
	Subtotal	\$ 163,200	\$ 570,071	\$ 633,528	\$ 170,000	\$ 6,800	4.17%
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 4,800	\$ 2,294	\$ 4,588	\$ 4,800	\$ -	0.00%
21150	Advertising & Communication	17,800	9,219	18,438	15,000	(2,800)	-15.73%
21250	Watershed Management	-	-	-	-	-	0.00%
21253	Safety Programs/Supplies	5,000	2,702	5,404	5,000	-	0.00%
21300	Authority Dues/Permits/Fees	40,000	31,267	62,534	44,100	4,100	10.25%
21350	Laboratory Analysis	-	-	-	-	-	0.00%
21400	Utilities	1,100	704	1,408	1,200	100	9.09%
21420	General Other Services	10,000	830	1,660	5,000	(5,000)	-50.00%
21430	Governance & Strategic Support	5,000	5,548	11,096	85,000	80,000	1600.00%
21450	Bad Debt	2,500	-	-	2,500	-	0.00%
	Subtotal	\$ 86,200	\$ 52,564	\$ 105,128	\$ 162,600	\$ 76,400	88.63%
22000	Communication						
22100	Radio	\$ 1,000	\$ 721	\$ 1,442	\$ 1,800	\$ 800	80.00%
22150	Telephone & Data Service	11,000	4,688	9,376	11,000	-	0.00%
22200	Cell Phones, Wireless data	9,000	7,615	15,230	11,980	2,980	33.11%
	Subtotal	\$ 21,000	\$ 13,024	\$ 26,048	\$ 24,780	\$ 3,780	18.00%
31000	Information Technology						
31100	Computer Hardware	\$ 26,000	\$ 18,339	\$ 36,678	\$ 60,000	\$ 34,000	130.77%
31150	SCADA Maint. & Support	26,000	7,773	15,546	90,245	64,245	247.10%
31200	Maintenance & Support Services	101,900	81,094	162,188	188,350	86,450	84.84%
31250	Software Purchases	18,000	14,322	28,644	66,181	48,181	267.67%
31300	Security Systems	-	-	-	-	-	0.00%
31325	Asset Mgt / Project Mgt Systems	-	-	-	100	100	0.00%
	Subtotal	\$ 171,900	\$ 121,528	\$ 243,056	\$ 404,876	\$ 232,876	135.47%
33000	Supplies						
33100	Office Supplies	\$ 15,000	\$ 6,109	\$ 12,218	\$ 15,000	\$ -	0.00%
33150	Subscriptions/Reference Material	500	414	828	1,000	500	100.00%
33350	Postage & Delivery	6,000	2,950	5,900	7,000	1,000	16.67%
	Subtotal	\$ 21,500	\$ 9,473	\$ 18,946	\$ 23,000	\$ 1,500	6.98%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 53,000	\$ 13,489	\$ 26,978	\$ 53,000	\$ -	0.00%
41150	Building/land Lease, Rental	4,300	2,742	5,484	5,000	700	16.28%
41300	Dam Maintenance	-	-	-	-	-	0.00%
41350	Pipeline/Appurtenances	-	-	-	-	-	0.00%
41400	Materials, Supplies & Tools	5,000	285	570	3,250	(1,750)	-35.00%
41450	Chemicals	-	-	-	-	-	0.00%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Administration

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41500	Vehicle Maintenance	3,300	1,080	2,160	3,300	-	0.00%
41550	Equipment Repair, Replace, Maint.	-	-	-		-	
41600	Instrumentation & Metering	-	-	-		-	
41650	Fuel & Lubricants	3,000	1,691	3,382	3,300	300	10.00%
41700	General Other Maintenance	-	-	-		-	
<i>Subtotal</i>		\$ 68,600	\$ 19,287	\$ 38,574	\$ 67,850	\$ (750)	-1.09%
81000	<i>Equipment Purchases</i>						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	
81250	Equipment (over \$10,000)	10,000	-	-	-	(10,000)	-100.00%
81300	Vehicle Replacement Fund	15,200	7,600	15,200	13,100	(2,100)	-13.82%
<i>Subtotal</i>		\$ 25,200	\$ 7,600	\$ 15,200	\$ 13,100	\$ (2,100)	-48.02%
95000	<i>Allocations from Departments</i>						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	
95300	Engineering Allocation	-	-	-	-	-	
95150	Maintenance Allocation	-	-	-	-	-	
95200	Laboratory Allocation	-	-	-	-	-	
<i>Subtotal</i>		\$ -	\$ -	\$ -	\$ -	\$ -	
Depreciation		-	-	-	-	-	
<i>Subtotal</i>		\$ -	\$ -	\$ -	\$ -	\$ -	
Total		\$ 2,735,598	\$ 1,841,433	\$ 3,214,912	\$ 3,316,298	\$ 580,600	21.22%

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Maintenance Summary

FY 2022			FY 2023	Budget % Change
Budgeted FY 2022	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	\$ 1,398,596	\$ 684,179	\$ 1,392,053	\$ 1,477,565	5.65%
Professional Services	-	-	-	-	
Other Services and Charges	61,200	7,998	15,996	33,600	-45.10%
Communications	15,730	8,718	1,124	24,500	55.75%
Information Technology	9,500	276	552	32,500	242.11%
Supplies	2,000	269	538	2,500	25.00%
Operations and Maintenance	89,600	55,500	111,000	104,900	17.08%
Equipment Purchases	208,100	62,750	125,500	212,600	2.16%
Depreciation	-	-	-	-	

Total Operations Expenses

\$ 1,784,726	\$ 819,690	\$ 1,646,763	\$ 1,888,165	5.80%
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Department Summary					
Total Revenues	\$ -	\$ -	\$ -	\$ -	
Total Expenses	1,784,726	819,690	1,646,763	1,888,165	
Net Costs Allocable to Rate Centers	\$ (1,784,726)	\$ (819,690)	\$ (1,646,763)	\$ (1,888,165)	
<u>Allocations to the Rate Centers</u>					
Urban Water	30.00%	\$ 535,418	\$ 245,907	\$ 494,029	\$ 566,450
Crozet Water	3.50%	62,465	28,689	57,637	66,086
Scottsville Water	3.50%	62,465	28,689	57,637	66,086
		-		-	
Urban Wastewater	56.50%	1,008,370	463,125	930,421	1,066,813
Glenmore Wastewater	3.50%	62,465	28,689	57,637	66,086
Scottsville Wastewater	3.00%	53,542	24,591	49,403	56,645
	100.00%	\$ 1,784,725	\$ 819,690	\$ 1,646,764	\$ 1,888,166

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Maintenance

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 951,600	\$ 463,877	\$ 951,449	\$ 995,650	\$ 44,050	4.63%
11010	Overtime & Holiday Pay	10,000	3,979	7,958	10,000	-	0.00%
12010	FICA	73,562	34,194	68,388	76,932	3,370	4.58%
12020	Health Insurance	223,900	120,497	240,994	235,100	11,200	5.00%
12026	Employee Assistance Program	200	142	284	250	50	25.00%
12030	Retirement	78,983	36,097	72,194	83,535	4,552	5.76%
12040	Life Insurance	12,751	5,648	11,296	11,848	(903)	-7.08%
12050	Fitness Program	700	-	-	-	(700)	-100.00%
12060	Worker's Comp Insurance	16,500	7,423	14,846	17,200	700	4.24%
	Subtotal	\$ 1,368,196	\$ 671,857	\$ 1,367,409	\$ 1,430,515	\$ 62,319	4.55%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 250	\$ -	\$ -	\$ 150	\$ (100)	-40.00%
13150	Education & Training	14,500	6,440	12,880	31,000	16,500	113.79%
13200	Travel & Lodging	500	-	-	500	-	0.00%
13250	Uniforms	13,900	4,872	9,744	14,100	200	1.44%
13325	Recruiting & Medical Testing	500	570	1,140	500	-	0.00%
13350	Other	750	440	880	800	50	6.67%
	Subtotal	\$ 30,400	\$ 12,322	\$ 24,644	\$ 47,050	\$ 16,650	54.77%
	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.	\$ 7,000	\$ 3,345	\$ 6,690	\$ 7,200	\$ 200	2.86%
21150	Advertising & Communication	-	-	-	-	-	
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	51,700	2,956	5,912	22,900	(28,800)	-55.71%
21300	Authority Dues/Permits/Fees	-	-	-	-	-	
21350	Laboratory Analysis	-	-	-	-	-	
21400	Utilities	-	-	-	-	-	
21420	General Other Services	2,500	1,697	3,394	3,500	1,000	40.00%
21430	Governance & Strategic Support	-	-	-	-	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 61,200	\$ 7,998	\$ 15,996	\$ 33,600	\$ (27,600)	-45.10%
22000	Communication						
22100	Radio	\$ 5,330	\$ 3,846	\$ 7,692	\$ 6,500	\$ 1,170	21.95%
22150	Telephone & Data Service	800	334	668	800	-	0.00%
22200	Cell Phones, Wireless data	9,600	4,538	9,076	17,200	7,600	79.17%
	Subtotal	\$ 15,730	\$ 8,718	\$ 17,436	\$ 24,500	\$ 8,770	55.75%
31000	Information Technology						
31100	Computer Hardware	\$ 5,000	\$ 69	\$ 138	\$ 12,500	\$ 7,500	150.00%
31150	SCADA Maint. & Support	-	-	-	-	-	
31200	Maintenance & Support Services	2,500	207	414	3,000	500	20.00%
31250	Software Purchases	2,000	-	-	2,000	-	0.00%
31300	Security Systems	-	-	-	-	-	
31325	Asset Mgt / Project Mgt Systems	-	-	-	15,000	15,000	
	Subtotal	\$ 9,500	\$ 276	\$ 552	\$ 32,500	\$ 23,000	242.11%
33000	Supplies						
33100	Office Supplies	\$ 2,000	\$ 269	\$ 538	\$ 2,500	\$ 500	25.00%
33150	Subscriptions/Reference Material	-	-	-	-	-	
33350	Postage & Delivery	-	-	-	-	-	
	Subtotal	\$ 2,000	\$ 269	\$ 538	\$ 2,500	\$ 500	25.00%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 10,250	\$ 4,708	\$ 9,416	\$ 12,150	\$ 1,900	18.54%
41150	Building/land Lease, Rental	-	-	-	-	-	
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	2,500	1,517	3,034	3,500	1,000	40.00%
41400	Materials, Supplies & Tools	20,750	17,578	35,156	24,500	3,750	18.07%
41450	Chemicals	-	-	-	-	-	
41500	Vehicle Maintenance	13,000	4,561	9,122	21,150	8,150	62.69%
41550	Equipment Repair, Replace, Maint.	26,600	8,028	16,056	27,100	500	1.88%
41600	Instrumentation & Metering	1,500	3,036	6,072	1,500	-	0.00%

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Maintenance

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41650	Fuel & Lubricants	15,000	16,072	32,144	15,000	-	0.00%
41700	General Other Maintenance	-	-	-	-	-	
Subtotal		\$ 89,600	\$ 55,500	\$ 111,000	\$ 104,900	\$ 15,300	17.08%
81000	Equipment Purchases						
81200	Rental & Leases	\$ 100	\$ 250	\$ 500	\$ 1,000	\$ 900	900.00%
81250	Equipment (over \$10,000)	83,000	-	-	83,000	-	0.00%
81300	Vehicle Replacement Fund	125,000	62,500	125,000	128,600	3,600	2.88%
Subtotal		\$ 208,100	\$ 62,750	\$ 125,500	\$ 212,600	\$ 4,500	2.16%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	
95300	Engineering Allocation	-	-	-	-	-	
95150	Maintenance Allocation	-	-	-	-	-	
95200	Laboratory Allocation	-	-	-	-	-	
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	
Depreciation		-	-	-	\$ -	-	
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	
Total		\$ 1,784,726	\$ 819,690	\$ 1,663,075	\$ 1,888,165	\$ 103,439	5.80%

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Laboratory Summary

FY 2022			FY 2023	Budget % Change
<i>Budgeted FY 2022</i>	Actual for 6 months	Projected 12 months	<i>Proposed Budget</i>	

Operations Budget

Projected Revenues
N/A

Projected Expenses

Personnel Cost	\$ 411,036	\$ 188,695	\$ 384,520	\$ 415,324	1.04%
Professional Services	-	-	-	-	
Other Services and Charges	7,900	1,321	2,642	11,780	49.11%
Communications	1,300	562	-	1,700	30.77%
Information Technology	200	180	360	1,000	400.00%
Supplies	1,300	951	1,902	1,250	-3.85%
Operations and Maintenance	120,590	38,127	76,254	121,050	0.38%
Equipment Purchases	1,700	850	1,700	1,700	0.00%
Depreciation	-	-	-	-	
<i>Total Operations Expenses</i>	\$ 544,026	\$ 230,686	\$ 467,378	\$ 553,804	1.80%



Department Summary						
Total Revenues		\$ -	\$ -	\$ -	\$ -	
Total Expenses		544,026	230,686	467,378	553,804	1.80%
Net Costs Allocable to Rate Centers		\$ (544,026)	\$ (230,686)	\$ (467,378)	\$ (553,804)	
<u>Allocations to the Rate Centers</u>						
Urban Water	44.00%	\$ 239,371	\$ 101,502	\$ 205,646	\$ 243,674	
Crozet Water	4.00%	21,761	9,227	18,695	22,152	
Scottsville Water	2.00%	10,881	4,614	9,348	11,076	
		-	-	-	-	
Urban Wastewater	47.00%	255,692	108,422	219,668	260,288	
Glenmore Wastewater	1.50%	8,160	3,460	7,011	8,307	
Scottsville Wastewater	1.50%	8,160	3,460	7,011	8,307	
	100.00%	\$ 544,025	\$ 230,685	\$ 467,379	\$ 553,804	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Laboratory

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022 vs. 2023 Variance \$	2022 vs. 2023 Variance %
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022			
10000	Salaries & Benefits						
11000	Salaries	\$ 286,350	\$ 133,747	\$ 274,624	\$ 288,000	\$ 1,650	0.58%
11010	Overtime & Holiday Pay	7,800	9,993	19,986	8,000	200	2.56%
12010	FICA	22,502	10,586	21,172	22,644	142	0.63%
12020	Health Insurance	56,000	19,157	38,314	58,700	2,700	4.82%
12026	Employee Assistance Program	50	31	62	60	10	20.00%
12030	Retirement	23,767	10,516	21,032	24,163	396	1.67%
12040	Life Insurance	3,837	1,635	3,270	3,427	(410)	-10.69%
12050	Fitness Program	700	-	-	200	(500)	-71.43%
12060	Worker's Comp Insurance	5,200	2,339	4,678	5,300	100	1.92%
	Subtotal	\$ 406,206	\$ 188,004	\$ 383,138	\$ 410,494	\$ 4,288	1.06%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 200	\$ -	\$ -	\$ 200	\$ -	0.00%
13150	Education & Training	1,680	-	-	1,680	-	0.00%
13200	Travel & Lodging	1,500	-	-	1,500	-	0.00%
13250	Uniforms	1,000	481	962	1,000	-	0.00%
13325	Recruiting & Medical Testing	250	210	420	250	-	0.00%
13350	Other	200	-	-	200	-	0.00%
	Subtotal	\$ 4,830	\$ 691	\$ 1,382	\$ 4,830	\$ -	0.00%
	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.	\$ 400	\$ 191	\$ 382	\$ 500	\$ 100	25.00%
21150	Advertising & Communication	-	-	-		-	
21250	Watershed Management	-	-	-		-	
21253	Safety Programs/Supplies	1,900	-	-	6,580	4,680	246.32%
21300	Authority Dues/Permits/Fees	4,500	-	-	4,500	-	0.00%
21350	Laboratory Analysis	1,000	194	388	100	(900)	-90.00%
21400	Utilities	-	-	-		-	
21420	General Other Services	100	936	1,872	100	-	0.00%
21430	Governance & Strategic Support	-	-	-		-	
21450	Bad Debt	-	-	-		-	
	Subtotal	\$ 7,900	\$ 1,321	\$ 2,642	\$ 11,780	\$ 3,880	49.11%
22000	Communication						
22100	Radio	\$ -	\$ -	\$ -	\$ -	\$ -	
22150	Telephone & Data Service	-	-	-		-	
22200	Cell Phones, Wireless data	1,300	562	1,124	1,700	400	30.77%
	Subtotal	\$ 1,300	\$ 562	\$ 1,124	\$ 1,700	\$ 400	
31000	Information Technology						
31100	Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!
31150	SCADA Maint. & Support	-	-	-		-	
31200	Maintenance & Support Services	200	180	360	1,000	800	400.00%
31250	Software Purchases	-	-	-		-	#DIV/0!
31300	Security Systems	-	-	-		-	
31325	Asset Mgt / Project Mgt Systems	-	-	-		-	
	Subtotal	\$ 200	\$ 180	\$ 360	\$ 1,000	\$ 800	400.00%
33000	Supplies						
33100	Office Supplies	\$ 800	\$ 851	\$ 1,702	\$ 1,000	\$ 200	25.00%
33150	Subscriptions/Reference Material	-	-	-		-	#DIV/0!
33350	Postage & Delivery	500	100	200	250	(250)	-50.00%
	Subtotal	\$ 1,300	\$ 951	\$ 1,902	\$ 1,250	\$ (50)	-3.85%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ -	\$ 122	\$ 244	\$ -	\$ -	
41150	Building/Land Lease, Rental	-	-	-		-	
41300	Dam Maintenance	-	-	-		-	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Laboratory

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41350	Pipeline/Appurtenances	-	-	-	-	-	
41400	Materials, Supplies & Tools	37,000	11,647	23,294	37,000	-	0.00%
41450	Chemicals	28,000	1,077	2,154	28,000	-	0.00%
41500	Vehicle Maintenance	3,500	119	238	3,500	-	
41550	Equipment Repair, Replace, Maint.	14,800	128	256	15,000	200	1.35%
41600	Instrumentation & Metering	36,740	24,631	49,262	37,000	260	0.71%
41650	Fuel & Lubricants	550	403	806	550	-	0.00%
41700	General Other Maintenance	-	-	-	-	-	
<i>Subtotal</i>		\$ 120,590	\$ 38,127	\$ 76,254	\$ 121,050	\$ 460	0.38%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	
81250	Equipment (over \$10,000)	-	-	-	-	-	
81300	Vehicle Replacement Fund	1,700	850	1,700	1,700	-	0.00%
<i>Subtotal</i>		\$ 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	-	-	-	-	-	
<i>Subtotal</i>		\$ -	\$ -	\$ -	\$ -	\$ -	
Depreciation		-	-	-	-	-	
<i>Subtotal</i>		\$ -	\$ -	\$ -	\$ -	\$ -	
Total		\$ 544,026	\$ 230,686	\$ 468,502	\$ 553,804	\$ 9,778	1.80%

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Engineering Summary

FY 2022			FY 2023	Budget % Change
<i>Budgeted FY 2022</i>	Actual for 6 months	Projected 12 months	<i>Proposed Budget</i>	

Operations Budget

Projected Revenues

Payment for Services SWA

\$ - \$ 573 \$ 1,146 \$ -

Total Operations Revenues

\$ - \$ 573 \$ 1,146 \$ -

Projected Expenses

Personnel Cost	\$ 1,623,811	\$ 761,540	\$ 1,523,080	\$ 1,794,679	10.52%
Professional Services	20,000	4,041	8,082	125,000	525.00%
Other Services and Charges	21,600	6,554	13,108	18,000	-16.67%
Communications	15,922	6,514	13,028	18,772	17.90%
Information Technology	118,500	71,618	143,236	145,000	22.36%
Supplies	8,790	2,576	5,152	5,000	-43.12%
Operations and Maintenance	98,635	22,967	45,934	75,300	-23.66%
Equipment Purchases	33,500	10,750	21,500	21,500	-35.82%
Depreciation	-	-	-	-	

Total Operations Expenses

\$ 1,940,758 \$ 886,560 \$ 1,773,120 \$ 2,203,251 13.53%

Department Summary

Total Revenues	\$ -	\$ 573	\$ 1,146	\$ -	
Total Expenses	1,940,758	886,560	1,773,120	2,203,251	13.53%

Net Costs Allocable to Rate Centers

\$ (1,940,758) \$ (885,987) \$ (1,771,974) \$ (2,203,251)

Allocations to the Rate Centers

Urban Water	47.00%	\$ 912,156	\$ 416,414	\$ 832,828	\$ 1,035,528
Crozet Water	4.00%	77,630	35,439	70,879	88,130
Scottsville Water	2.00%	38,815	17,720	35,439	44,065
Urban Wastewater	44.00%	853,934	389,834	779,669	969,430
Glenmore Wastewater	1.50%	29,111	13,290	26,580	33,049
Scottsville Wastewater	1.50%	29,111	13,290	26,580	33,049
	100.00%	\$ 1,940,757	\$ 885,987	\$ 1,771,975	\$ 2,203,251

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Engineering

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 1,149,900	\$ 574,699	\$ 1,149,398	\$ 1,289,100	\$ 139,200	12.11%
11010	Overtime & Holiday Pay	15,000	2,522	5,044	12,000	(3,000)	-20.00%
12010	FICA	89,115	42,374	84,748	99,534	10,419	11.69%
12020	Health Insurance	196,000	69,383	138,766	205,600	9,600	4.90%
12026	Employee Assistance Program	150	115	230	200	50	33.33%
12030	Retirement	95,442	48,372	96,744	108,155	12,713	13.32%
12040	Life Insurance	15,409	7,523	15,046	15,340	(69)	-0.45%
12050	Fitness Program	4,000	2,076	4,152	3,000	(1,000)	-25.00%
12060	Worker's Comp Insurance	20,300	9,134	18,268	22,200	1,900	9.36%
	Subtotal	\$ 1,585,316	\$ 756,198	\$ 1,512,396	\$ 1,755,129	\$ 169,813	10.71%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 3,100	\$ 1,090	\$ 2,180	\$ 3,100	\$ -	0.00%
13150	Education & Training	14,200	2,332	4,664	16,000	1,800	12.68%
13200	Travel & Lodging	15,100	1,081	2,162	15,600	500	3.31%
13250	Uniforms	4,495	492	984	3,750	(745)	-16.57%
13325	Recruiting & Medical Testing	600	95	190	500	(100)	-16.67%
13350	Other	1,000	252	504	600	(400)	-40.00%
	Subtotal	\$ 38,495	\$ 5,342	\$ 10,684	\$ 39,550	\$ 1,055	2.74%
	Professional Services						
20100	Legal Fees	\$ 5,000	\$ 368	\$ 736	\$ 5,000	\$ -	0.00%
20200	Financial & Admin. Services	-	3,673	7,346	-	-	
20250	Bond Issue Costs	-	-	-	-	-	
20300	Engineering & Technical Services	15,000	-	-	120,000	105,000	700.00%
	Subtotal	\$ 20,000	\$ 4,041	\$ 8,082	\$ 125,000	\$ 105,000	525.00%
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 3,900	\$ 1,864	\$ 3,728	\$ 4,100	\$ 200	5.13%
21150	Advertising & Communication	200	-	-	200	-	0.00%
21250	Watershed Management	-	-	-	-	-	
21253	Safety Programs/Supplies	8,000	4,495	8,990	6,500	(1,500)	-18.75%
21300	Authority Dues/Permits/Fees	1,500	-	-	1,500	-	0.00%
21350	Laboratory Analysis	2,500	-	-	250	(2,250)	-90.00%
21400	Utilities	500	195	390	450	(50)	-10.00%
21420	General Other Services	-	-	-	-	-	
21430	Governance & Strategic Support	5,000	-	-	5,000	-	
21450	Bad Debt	-	-	-	-	-	
	Subtotal	\$ 21,600	\$ 6,554	\$ 13,108	\$ 18,000	\$ (3,600)	-16.67%
22000	Communication						
22100	Radio	\$ 3,670	\$ 2,644	\$ 5,288	\$ 4,600	\$ 930	25.34%
22150	Telephone & Data Service	1,500	744	1,488	1,500	-	0.00%
22200	Cell Phones, Wireless data	10,752	3,126	6,252	12,672	1,920	17.86%
	Subtotal	\$ 15,922	\$ 6,514	\$ 13,028	\$ 18,772	\$ 2,850	17.90%
31000	Information Technology						
31100	Computer Hardware	\$ 12,000	\$ 3,046	\$ 6,092	\$ 12,000	\$ -	0.00%
31150	SCADA Maint. & Support	-	-	-	-	-	
31200	Maintenance & Support Services	102,000	68,275	136,550	53,800	(48,200)	-47.25%
31250	Software Purchases	4,500	297	594	2,000	(2,500)	-55.56%
31300	Security Systems	-	-	-	28,200	28,200	
31325	Asset Mgt / Project Mgt Systems	-	-	-	49,000	49,000	
	Subtotal	\$ 118,500	\$ 71,618	\$ 143,236	\$ 145,000	\$ 26,500	22.36%
33000	Supplies						
33100	Office Supplies	\$ 4,000	\$ 1,588	\$ 3,176	\$ 3,500	\$ (500)	-12.50%
33150	Subscriptions/Reference Material	4,290	636	1,272	900	(3,390)	-79.02%
33350	Postage & Delivery	500	352	704	600	100	20.00%
	Subtotal	\$ 8,790	\$ 2,576	\$ 5,152	\$ 5,000	\$ (3,790)	-43.12%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 12,440	\$ 9,388	\$ 18,776	\$ 20,200	\$ 7,760	62.38%
41150	Building/land Lease, Rental	26,400	760	1,520	1,800	(24,600)	-93.18%
41300	Dam Maintenance	-	-	-	-	-	
41350	Pipeline/Appurtenances	15,395	4,501	9,002	16,300	905	5.88%
41400	Materials, Supplies & Tools	14,900	1,926	3,852	6,000	(8,900)	-59.73%
41450	Chemicals	-	-	-	-	-	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Department: Engineering

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41500	Vehicle Maintenance	24,000	2,359	4,718	24,000	-	0.00%
41550	Equipment Repair, Replace, Maint.	500	108	216	1,000	500	100.00%
41600	Instrumentation & Metering	-	-	-	-	-	-
41650	Fuel & Lubricants	5,000	3,925	7,850	6,000	1,000	20.00%
41700	General Other Maintenance	-	-	-	-	-	-
Subtotal		\$ 98,635	\$ 22,967	\$ 45,934	\$ 75,300	\$ (23,335)	-23.66%
81000	Equipment Purchases						
81200	Rental & Leases	\$ -	\$ -	\$ -	\$ -	\$ -	-
81250	Equipment (over \$10,000)	12,000	-	-	-	(12,000)	-
81300	Vehicle Replacement Fund	21,500	10,750	21,500	21,500	-	0.00%
Subtotal		\$ 33,500	\$ 10,750	\$ 21,500	\$ 21,500	\$ (12,000)	-35.82%
95000	Allocations from Departments						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	-
95300	Engineering Allocation	-	-	-	-	-	-
95150	Maintenance Allocation	-	-	-	-	-	-
95200	Laboratory Allocation	-	-	-	-	-	-
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	-
Depreciation		-	-	-	\$ -	-	-
Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	-
Total		\$ 1,940,758	\$ 886,560	\$ 1,773,120	\$ 2,203,251	\$ 262,493	13.53%

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APPENDICES

Rivanna Water and Sewer Authority

Fiscal Year 2022-2023

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Flow Projections

		(1,000 GALLONS)			(MILLION GALLONS PER DAY)		
		<u>FY 2022</u>	<u>FY 2023</u>	<u>% Change</u>	<u>FY 2022</u>	<u>FY 2023</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		<u>3,617,627</u>	<u>3,617,627</u>	<u>0.00%</u>	<u>9.911</u>	<u>9.911</u>	<u>0.00%</u>
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		<u>3,455,444</u>	<u>3,455,444</u>	<u>0.00%</u>	<u>9.467</u>	<u>9.467</u>	<u>0.00%</u>

Allocation (Urban Area Only)	<u>FY 2022</u>	<u>FY 2023</u>	<u>Allocation % Change</u>
<u>Water</u>			
City	49%	49%	0.00%
ACSA	51%	51%	0.00%
<u>Wastewater</u>			
City	48%	47%	-2.08%
ACSA	52%	53%	1.92%

FY 2023 allocations are based on FY 2021 retail flows reported by the City and ACSA.

		(1,000 GALLONS)			(MILLION GALLONS PER DAY)		
		<u>FY 2022</u>	<u>FY 2023</u>	<u>% Change</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>% Change</u>
Allocation (Urban Area Only)							
<u>Water</u>							
	City	1,664,873	1,664,873	0.00%	4.561	4.561	0.00%
	ACSA	<u>1,732,827</u>	<u>1,732,827</u>	<u>0.00%</u>	<u>4.747</u>	<u>4.747</u>	<u>0.00%</u>
		3,397,700	3,397,700				
<u>Wastewater</u>							
	City	1,627,392	1,593,488	-2.08%	4.459	4.366	-2.09%
	ACSA	<u>1,763,008</u>	<u>1,796,912</u>	<u>1.92%</u>	<u>4.830</u>	<u>4.923</u>	<u>1.93%</u>
		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 2023	City %	City Amount	Annual Total
ALLOCATION BASED ON FLOWS					
<i>Regional Water System Projects:</i>					
9.2% of 2019 Refunding Bond	\$	129,236	49.00%	\$ 63,326	
14.2% of 2015B Bond - New Projects		240,051	49.00%	117,625	180,951
<i>Revenues that offset Debt Service</i>					
Trust Fund Interest		(400)	49.00%	(196)	
Use of Reserves		-	FIXED	-	
Lease Revenues		(1,600)	49.00%	(784)	(980)
RATES BASED ON FIXED AGREEMENTS					
<i>2003 & 2012 Urban Water Agreement</i>					
Water Supply Expansion (15%/85%)					
100% of 2012B Revenue Bond		1,341,306	15.00%	201,196	
9.0% of 2015B Bond - Refunding		142,481	15.00%	21,372	
Water Pipeline (20%/80%)					
10.4% of 2018 Bond		234,670	20.00%	46,934	
Non-Water Supply - Other Projects (48%/52%)					
47.4% of 2015B Bond - Refunding		750,398	48.00%	360,191	
77.8% of 2015B Bond - New Projects		1,315,207	48.00%	631,299	
37.7% of 2018 Bond		851,496	48.00%	408,718	
91.6% of 2021 Bond		1,743,918	48.00%	837,081	
South Rivanna Expansion of 1999					
10.3% of 2015B Bond - Refunding		163,061	0.00%	-	2,506,791
<i>Southern Loop Water Line, West Branch</i>					
0.8% of 2019 Refunding Bond		10,715	24.51%	2,626	2,626
<i>South Rivanna Connector Main</i>					
3.0% of 2019 Refunding Bond		42,185	52.00%	21,936	21,936
DEBT SERVICE PROJECTED FROM 5-YEAR CIP					
<i>CIP Growth Charge from 2022-2026 CIP</i>		939,500	FIXED	391,000	391,000
<i>Debt Service Coverage Ratio / Policy Charge</i>		400,000	39.00%	156,000	156,000
Total Debt Service For Rate Computation	\$	8,302,224		\$ 3,258,324	\$ 3,258,324

ACSA Allocation of Debt Service Costs		Estimated Debt Service Budget FY 2023	ACSA %	ACSA Amount	Annual Total
ALLOCATION BASED ON FLOWS					
<i>Regional Water System Projects:</i>					
9.2% of 2019 Refunding Bond	\$	129,236	51.00%	\$ 65,910	
14.2% of 2015B Bond - New Projects		240,051	51.00%	122,426	188,336
<i>Revenues that offset Debt Service</i>					
Trust Fund Interest		(400)	51.00%	(204)	
Use of Reserves		-	FIXED	-	
Lease Revenues		(1,600)	51.00%	(816)	(1,020)
RATES BASED ON FIXED AGREEMENTS					
<i>2003 & 2012 Urban Water Agreement</i>					
Water Supply Expansion (15%/85%)					
100% of 2012B Revenue Bond		1,341,306	85.00%	1,140,110	
9.0% of 2015B Bond - Refunding		142,481	85.00%	121,109	
Water Pipeline (20%/80%)					
10.4% of 2018 Bond		234,670	80.00%	187,736	
Non-Water Supply - Other Projects (48%/52%)					
47.4% of 2015B Bond - Refunding		750,398	52.00%	390,207	
77.8% of 2015B Bond - New Projects		1,315,207	52.00%	683,908	
37.7% of 2018 Bond		851,496	52.00%	442,778	
91.6% of 2021 Bond		1,743,918	52.00%	906,837	
South Rivanna Expansion of 1999					
10.3% of 2015B Bond - Refunding		163,061	100.00%	163,061	4,035,746
<i>Southern Loop Water Line, West Branch</i>					
0.8% of 2019 Refunding Bond		10,715	75.49%	8,089	8,089
<i>South Rivanna Connector Main</i>					
3.0% of 2019 Refunding Bond		42,185	48.00%	20,249	20,249
DEBT SERVICE PROJECTED FROM 5-YEAR CIP					
<i>CIP Growth Charge from 2022-2026 CIP</i>		939,500	FIXED	548,500	548,500
<i>Debt Service Coverage Ratio / Policy Charge</i>		400,000	61.00%	244,000	244,000
Total Debt Service For Rate Computation	\$	8,302,224		\$ 5,043,900	\$ 5,043,900

SUMMARY OF DEBT SERVICE REVENUES:		
CITY SHARE OF TOTAL DEBT SERVICE	\$ 3,258,324	39%
ACSA SHARE OF TOTAL DEBT SERVICE	5,043,900	61%
	\$ 8,302,224	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 2023	City %	City Amount	
ALLOCATION BASED ON FLOWS					
<i>System Projects Rate</i>					
	22.9% of 2015B Bond Refunding	\$ 362,534	47%	\$ 170,391	
	100% 2005A Bond VRA/VRLF	150,976	47%	70,959	
	88.5% of 2009A Bond VRA/VRLF	1,419,716	47%	667,267	
	37.9% of 2011 A,B Bond VRA/RLF	192,130	47%	90,301	
	24.5% of 2019 Refunding Bond	343,632	47%	161,507	
	100% of 2016 Bond	626,927	47%	294,656	
	6.3% of 2021 Bond	119,942	47%	56,373	
	2.4% of 2018 Bond	54,432	47%	25,583	1,537,037
<i>Revenues/Reserves that offset Debt Service</i>					
	County MOU - Septage	(109,440)	47%	(51,437)	
	Use of Reserves	-	Fixed	-	
	Trust Fund Interest	(500)	47%	(235)	(51,672)
ALLOCATION BASED ON FIXED AGREEMENTS					
<i>2014 Wastewater Agreement</i>					
<i>Meadowcreek</i>	97.9% of 2010A and 10.9% of 2019 Bonds	1,095,428	Segments	708,286	
<i>Wet Weather MCWWTP</i>	11.5% of 2009A and 62.1% of 2011 A/B Bonds	499,293	Segments	270,138	
<i>Moore's Creek Pump Stn.</i>	100% of 2011 D/E Bond	296,945	Segments	184,550	
<i>Rivanna Pump Stn. & F.M.</i>	5.8% of 2019 and 100% of 2014A Bonds	1,851,607	Segments	961,045	
<i>Albemarle Berkley Pump Stn.</i>	3.4% of 2019 Refunding Bond	47,165	0%	-	
<i>Crozet Interceptor</i>	2.3% of 2019 and 13.8% of 2018	343,802	0%	-	
<i>Schenks Branch Agreement</i>	16.1% of 2019, 2.1% of 2010A, and 100% of 2015A Bonds	315,009	100%	315,009	2,439,028
<i>Four Party Rate</i>					
<i>Regional System Projects</i>	3.9% of 2019 Refunding Bond	53,915	N/A	16,562	
<i>Crozet Interceptor</i>	0.7% of 2019 Refunding Bond	10,743	N/A	3,300	
<i>Facilities Purchase</i>	1.4% of 2019 Refunding Bond	19,677	N/A	6,045	25,907
<i>Moore's Creek Relief IS, Pt 1</i>	0.3% of 2019 Refunding Bond	4,474	30%	1,342	1,342
DEBT SERVICE PROJECTED FROM 5-YEAR CIP					
	<i>CIP Growth Charge from 2022-2026 CIP</i>	854,700	Fixed	495,000	495,000
	<i>Debt Service Coverage Ratio / Policy Charge</i>	325,000	52%	169,000	169,000
Total		\$ 8,878,107		\$ 4,615,642	\$ 4,615,642

ACSA Allocation of Debt Service Costs		Estimated Debt Service Budget FY 2023	ACSA %	ACSA Amount	
ALLOCATION BASED ON FLOWS					
<i>System Projects Rate</i>					
	22.9% of 2015B Bond Refunding	\$ 362,534	53%	\$ 192,143	
	100% 2005A Bond VRA/VRLF	150,976	53%	80,017	
	88.5% of 2009A Bond VRA/VRLF	1,419,716	53%	752,449	
	37.9% of 2011 A,B Bond VRA/RLF	192,130	53%	101,829	
	24.5% of 2019 Refunding Bond	343,632	53%	182,125	
	100% of 2016 Bond	626,927	53%	332,271	
	6.3% of 2021 Bond	119,942	53%	63,569	
	2.4% of 2018 Bond	54,432	53%	28,849	1,733,252
<i>Revenues/Reserves that offset Debt Service</i>					
	County MOU - Septage	(109,440)	53%	(58,003)	
	Use of Reserves	-	53%	-	
	Trust Fund Interest	(500)	53%	(265)	(58,268)
ALLOCATION BASED ON FIXED AGREEMENTS					
<i>2014 Wastewater Agreement</i>					
<i>Meadowcreek</i>	97.9% of 2010A and 10.9% of 2019 Bonds	1,095,428	Segments	387,142	
<i>Wet Weather MCWWTP</i>	11.5% of 2009A and 62.1% of 2011 A/B Bonds	499,293	Segments	229,155	
<i>Moore's Creek Pump Stn.</i>	100% of 2011 D/E Bond	296,945	Segments	112,395	
<i>Rivanna Pump Stn. & F.M.</i>	5.8% of 2019 and 100% of 2014A Bonds	1,851,607	Segments	890,562	
<i>Albemarle Berkley Pump Stn.</i>	3.4% of 2019 Refunding Bond	47,165	100%	47,165	
<i>Crozet Interceptor</i>	2.3% of 2019 and 13.8% of 2018	343,802	100%	343,802	
<i>Schenks Branch Agreement</i>	16.1% of 2019, 2.1% of 2010A, and 100% of 2015A Bonds	315,009	0%	-	2,010,221
<i>Four Party Rate</i>					
<i>Regional System Projects</i>	3.9% of 2019 Refunding Bond	53,915	N/A	37,353	
<i>Crozet Interceptor</i>	0.7% of 2019 Refunding Bond	10,743	N/A	7,443	
<i>Facilities Purchase</i>	1.4% of 2019 Refunding Bond	19,677	N/A	13,632	58,428
<i>Moore's Creek Relief IS, Pt 1</i>	0.3% of 2019 Refunding Bond	4,474	70%	3,132	3,132
DEBT SERVICE PROJECTED FROM 5-YEAR CIP					
	<i>CIP Growth Charge from 2022-2026 CIP</i>	854,700	Fixed	359,700	359,700
	<i>Debt Service Coverage Ratio / Policy Charge</i>	325,000	48%	156,000	156,000
Total		\$ 8,878,107		\$ 4,262,465	\$ 4,262,465

SUMMARY OF DEBT SERVICE REVENUES:			
CITY SHARE OF TOTAL DEBT SERVICE	\$	4,615,642	52%
ACSA SHARE OF TOTAL DEBT SERVICE		4,262,465	48%
	\$	8,878,107	100%

OTHER RATE CENTERS DEBT SERVICE RATES

Summary of Debt Service Payments Due

	Existing Estimated Debt Service Budget FY 2023	Estimated New Debt Service	ACSA Monthly Rate
WATER			
<u>Crozet Water</u>			
<i>System Upgrades</i>			
13.9% of 2019 Refunding Bond	\$ 193,615		
17.0% of 2012A Bond (new money)	-		
7.4% of 2015B Bond Refunding	117,151		
5.9% of 2015B Bond New Projects	99,739		
35.7% of 2018 Bond	806,775		
Estimated DS - CIP Growth Charge	944,500	\$ 310,430	
<i>Revenues that offset Debt Service</i>			
Use of Reserves	-		
Trust Fund Interest	(80)	-	
	\$ 2,161,700	\$ 310,430	\$ 180,142
<u>Scottsville Water</u>			
<i>System Upgrades</i>			
3.4% of 2019 Refunding Bond	\$ 47,636		
4.2% of 2012A Bond (new money)	-		
2.7% of 2015B Bond Refunding	42,744		
2.1% of 2015B Bond New Projects	35,500		
1.2% of 2021 Bond	22,846		
Estimated DS - CIP Growth Charge	1,589	\$ 1,590	
<i>Revenues that offset Debt Service</i>			
Trust Fund Interest	(10)	-	
	\$ 150,305	\$ 1,590	\$ 12,525
WASTEWATER			
<u>Glenmore Wastewater</u>			
<i>System Upgrades</i>			
0.1% of 2015B Bond Refunding	\$ 1,583		
0.9% of 2021 Bond	17,134		
Estimated DS - CIP Growth Charge	1,761	\$ 1,761	
<i>Revenues that offset Debt Service</i>			
Trust Fund Interest	-	-	
	\$ 20,478	\$ 1,761	\$ 1,707
<u>Scottsville Wastewater</u>			
<i>Facilities Purchase</i>			
0.3% of 2012A Refunding Bond	\$ -		
<i>System Upgrades</i>			
0.3% of 2019 Refunding Bond	4,281		
0.2% of 2015B Bond Refunding	3,166		
Estimated DS - CIP Growth Charge	2,667	\$ 240	
<i>Revenues that offset Debt Service</i>			
Trust Fund Interest	-	-	
	\$ 10,114	\$ 240	\$ 843
TOTAL	\$ 2,342,597	\$ 314,021	\$ 195,217

DEBT SUMMARY

	Total Revenue Bond Debt	Total FY 2023 Debt Service
<u>CURRENT EXISTING DEBT</u>		
<u>DEBT BY BOND ISSUE</u>		
2005 A Bond VRA/VRLF	\$ 658,721	\$ 150,976
2009A Bond	12,137,527	1,604,199
2010A Bond	7,473,285	962,522
2011A Bond	3,811,640	443,608
2011B Bond	544,167	63,332
2011D,E Bond	2,672,531	296,944
2012A Bond (refunding & new money)	685,000	701,553
2012B Bond	20,700,000	1,341,306
2014A Bond	22,023,266	1,770,751
2015A Bond	885,327	70,593
2015B Bond (refunding & new money)	35,820,000	3,273,616
2016 Bond	7,922,000	626,926
2018 Bond	35,085,000	2,258,609
2019 Bond	17,245,000	696,465
2021 Bond	36,980,000	1,903,841
	\$ 204,643,464	\$ 16,165,241

Ratio of Debt Service / Total Debt 7.9%

PRINCIPAL AND INTEREST PAYMENTS BY CENTER - Annual

Urban Water	\$ 6,964,724
Crozet Water	1,217,280
Scottsville Water	148,726
Urban Wastewater	7,808,347
Glenmore Wastewater	18,717
Scottsville Wastewater	7,447
	\$ 16,165,241

Stone Robinson School WWTP Estimated Charges

	<i>Total</i>	<i>Monthly</i>
Expenses		
<i>Fixed Costs</i>		
Wages	\$ 8,194	
Benefits	4,212	
Mileage	1,217	
Subtotal	\$ 13,623	
Overhead at 35%	4,768	
Total Fixed Charge	\$ 18,391	
 <i>Variable Costs</i>		
Repairs, Maintenance, Other	\$ 2,700	
Shed for Stone R. (41400)	7,000	
Engineering Consultant	10,000	
Subtotal	\$ 19,700	
Overhead at 35%	945	
Total Variable Charge	\$ 20,645	
Total Annual Charge Estimate	\$ 39,036	\$ 3,253

All Rate Centers

Detailed Summary of Revenues

	FY 2022	FY 2023	\$ Change	% Change
<u>OPERATIONS</u>				
Operations Rate Revenues	\$ 18,810,555	\$ 20,614,425	\$ 1,803,870	9.59%
Other Operations Revenues				
Interest Allocation	\$ 8,200	\$ 7,170	\$ (1,030)	-12.56%
Stone Robinson WWTP	20,589	39,036	18,447	89.60%
Septage/Sludge Acceptance	475,000	500,000	25,000	5.26%
Leases	105,000	85,000	(20,000)	-19.05%
Administration	553,000	656,000	103,000	18.63%
Nutrient Credits	45,000	100,000	55,000	122.22%
Use of Reserves	516,250	150,000	(366,250)	-70.94%
Miscellaneous	-	-	-	
	\$ 1,723,039	\$ 1,537,206	\$ (185,833)	-10.79%
Total Operations Revenues	\$ 20,533,594	\$ 22,151,631	\$ 1,618,037	7.88%
<u>DEBT SERVICE</u>				
Debt Service Rate Revenues				
City	\$ 7,466,681	\$ 7,873,966	\$ 407,285	5.45%
ACSA	10,727,280	11,648,963	921,683	8.59%
	\$ 18,193,961	\$ 19,522,929	\$ 1,328,968	7.30%
Other Debt Service Revenues				
Interest	113,700	65,220	(48,480)	-42.64%
County MOU - Septage	109,440	109,440	-	0.00%
Leases	1,600	1,600	-	0.00%
	\$ 224,740	\$ 176,260	\$ (48,480)	-21.57%
Total Debt Service Revenues	\$ 18,418,701	\$ 19,699,189	\$ 1,280,488	6.95%
Total Revenues	\$ 38,952,295	\$ 41,850,820	\$ 2,898,525	7.44%
<i>Reserves used as revenues offset</i>	<u>\$ 516,250</u>	<u>\$ 150,000</u>	<u>\$ (366,250)</u>	<u>-171%</u>
<i>Actual Revenues</i>	38,436,045	41,700,820	3,264,775	

Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail

Authority as a Whole

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
10000	Salaries & Benefits						
11000	Salaries	\$ 6,521,900	\$ 3,242,379	\$ 6,618,522	\$ 7,157,250	\$ 635,350	9.74%
11010	Overtime Pay	280,800	140,607	281,214	302,650	21,850	7.78%
12010	FICA	520,405	244,161	488,322	570,681	50,276	9.66%
12020	Health Insurance	1,379,000	619,669	1,239,338	1,440,000	61,000	4.42%
12026	Employee Assistance Program	1,305	804	1,608	1,470	165	12.64%
12030	Retirement	541,319	263,300	526,600	600,493	59,174	10.93%
12040	Life Insurance	87,392	40,966	81,932	85,170	(2,222)	-2.54%
12050	Fitness Program	15,110	5,234	10,468	11,650	(3,460)	-22.90%
12060	Worker's Comp Insurance	94,500	44,314	85,356	101,200	6,700	7.09%
	Subtotal	\$ 9,441,731	\$ 4,601,434	\$ 9,333,360	\$ 10,270,564	\$ 828,833	8.78%
13000	Other Personnel Costs						
13100	Employee Dues & Licenses	\$ 9,180	\$ 5,258	\$ 10,516	\$ 11,680	\$ 2,500	27.23%
13150	Education & Training	84,980	50,704	101,408	100,280	15,300	18.00%
13200	Travel & Lodging	29,750	7,651	15,302	24,850	(4,900)	-16.47%
13250	Uniforms	58,025	31,698	63,396	61,480	3,455	5.95%
13325	Recruiting & Medical Testing	8,370	3,596	7,192	8,270	(100)	-1.19%
13350	Other	17,950	9,204	18,408	17,600	(350)	-1.95%
	Subtotal	\$ 208,255	\$ 108,111	\$ 216,222	\$ 224,160	\$ 15,905	7.64%
	Professional Services						
20100	Legal Fees	\$ 90,000	\$ 43,093	\$ 86,186	\$ 80,000	\$ (10,000)	-11.11%
20200	Financial & Admin. Services	103,200	21,393	42,786	60,000	(43,200)	-41.86%
20250	Bond Issue Costs	-	513,307	520,000	-	-	0.00%
20300	Engineering & Technical Services	518,850	320,363	640,726	489,900	(28,950)	-5.58%
	Subtotal	\$ 712,050	\$ 898,156	\$ 1,289,698	\$ 629,900	\$ (82,150)	-11.54%
	Other Services and Charges						
21100	General Liability/Property Ins.	\$ 119,400	\$ 57,058	\$ 114,116	\$ 125,700	\$ 6,300	5.28%
21150	Advertising & Communication	18,000	9,219	18,438	15,200	(2,800)	-15.56%
21250	Watershed Management	77,000	38,916	77,832	50,000	(27,000)	-35.06%
21253	Safety Programs/Supplies	108,450	37,169	74,338	103,180	(5,270)	-4.86%
21300	Authority Dues/Permits/Fees	107,690	54,788	109,576	112,500	4,810	4.47%
21350	Laboratory Analysis	107,360	44,292	88,584	80,030	(27,330)	-25.46%
21400	Utilities	1,569,600	729,600	1,459,200	1,611,650	42,050	2.68%
21420	General Other Services	991,400	450,084	900,168	1,236,700	245,300	24.74%
21430	Governance & Strategic Support	10,000	5,548	11,096	90,000	80,000	800.00%
21450	Bad Debt	2,500	-	-	2,500	-	
	Subtotal	\$ 3,111,400	\$ 1,426,674	\$ 2,853,348	\$ 3,427,460	\$ 316,060	10.16%
22000	Communication						
22100	Radio	\$ 17,990	\$ 13,178	\$ 26,356	\$ 18,200	\$ 210	1.17%
22150	Telephone & Data Service	126,000	67,258	134,516	123,300	(2,700)	-2.14%
22200	Cell Phones, Wireless data	47,422	23,201	46,402	58,842	11,420	24.08%
	Subtotal	\$ 191,412	\$ 103,637	\$ 207,274	\$ 200,342	\$ 8,930	4.67%
31000	Information Technology						
31100	Computer Hardware	\$ 67,000	\$ 22,210	\$ 44,420	\$ 109,500	\$ 42,500	63.43%
31150	SCADA Maint. & Support	145,000	104,493	208,986	265,245	120,245	82.93%
31200	Maintenance & Support Services	207,100	159,966	319,932	249,300	42,200	20.38%
31250	Software Purchases	28,000	16,030	32,060	70,181	42,181	150.65%
31300	Security Systems	-	-	-	50,300	50,300	
31325	Asset Mgt / Project Mgt Systems	-	-	-	72,100	72,100	
	Subtotal	\$ 447,100	\$ 302,699	\$ 605,398	\$ 816,626	\$ 369,526	82.65%
33000	Supplies						
33100	Office Supplies	\$ 25,500	\$ 10,218	\$ 20,436	\$ 26,000	\$ 500	1.96%
33150	Subscriptions/Reference Material	4,790	1,050	2,100	1,900	(2,890)	-60.33%
33350	Postage & Delivery	11,870	6,999	13,998	12,050	180	1.52%
	Subtotal	\$ 42,160	\$ 18,267	\$ 36,534	\$ 39,950	\$ (2,210)	-5.24%
41000	Operation & Maintenance						
41100	Building & Grounds	\$ 372,150	\$ 148,488	\$ 296,976	\$ 458,160	\$ 86,010	23.11%
41150	Building/land Lease, Rental	205,700	178,502	357,004	181,800	(23,900)	-11.62%
41300	Dam Maintenance	115,440	83,000	166,000	125,200	9,760	8.45%
41350	Pipeline/Appurtenances	267,255	250,546	501,092	221,800	(45,455)	-17.01%
41400	Materials, Supplies & Tools	176,050	168,273	336,546	184,750	8,700	4.94%
41450	Chemicals	2,067,600	1,185,476	2,370,952	2,360,696	293,096	14.18%
41500	Vehicle Maintenance	72,350	29,715	59,430	80,100	7,750	10.71%

**Rivanna Water and Sewer Authority
Fiscal Year 2022-2023 Proposed Budget
Expense Detail**

Authority as a Whole

Object Code	Line Item	Adopted Budget FY 2021-2022	Current Year Activity		Proposed Budget FY 2022-2023	2022	2022
			Six Month Actual 12/31/2021	Projected Year end 6/30/2022		vs. 2023 Variance \$	vs. 2023 Variance %
41550	Equipment Repair, Replace, Maint.	842,900	458,720	917,440	900,800	57,900	6.87%
41600	Instrumentation	467,140	96,756	193,512	402,525	(64,615)	-13.83%
41650	Fuel & Lubricants	88,050	42,829	85,658	99,550	11,500	13.06%
41700	General Other Maintenance	189,600	42,219	84,438	207,150	17,550	9.26%
<i>Subtotal</i>		\$ 4,864,235	\$ 2,684,524	\$ 5,369,048	\$ 5,222,531	\$ 358,296	7.37%
81000	<i>Equipment Purchases</i>						
81200	Rental & Leases	\$ 77,350	\$ 658	\$ 1,316	\$ 27,000	\$ (50,350)	-65.09%
81250	Equipment (over \$10,000)	297,000	-	-	150,000	(147,000)	-49.49%
81300	Vehicle Replacement Fund	240,900	120,450	240,900	243,100	2,200	0.91%
<i>Subtotal</i>		\$ 615,250	\$ 121,108	\$ 242,216	\$ 420,100	\$ (195,150)	-31.72%
95000	<i>Allocations from Departments</i>						
95100	Administrative Allocation	\$ -	\$ -	\$ -	\$ -	\$ -	
95300	Engineering Allocation	-	-	-	-	-	
95150	Maintenance Allocation	-	-	-	-	-	
95200	Laboratory Allocation	-	-	-	-	-	
<i>Subtotal</i>		\$ -	\$ -	\$ -	\$ -	\$ -	
Depreciation		\$ 900,000	\$ 450,000	\$ 900,000	\$ 900,000	\$ -	0.00%
<i>Subtotal</i>		\$ 900,000	\$ 450,000	\$ 900,000	\$ 900,000	\$ -	0.00%
Total		\$ 20,533,593	\$ 10,714,610	\$ 21,053,098	\$ 22,151,633	\$ 1,618,040	7.88%

Audit Check	
Less revenue allocation in Admin.	(656,000)
Less revenue allocation in Maint.	-
Less revenue allocation in Eng.	-
Detail Check on Expenses	\$ 21,495,633
<i>Total Summary Sheet Rate Center Only</i>	\$ 21,495,634

RWSA Staffing by Department

OPERATIONS	Approved Positions FY 2022	Changes	Positions FY 2023
<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		4
Administrative Office Technician	1		1
(Director FTE included) Subtotal	14	0	14
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
<u>Plant Operators (14 total)</u>			
Operators - Relief Shift Differential all plants	2		2
Operators - Urban	9		9
Operator - Glenmore	1		1
Operator - Scottsville	1		1
Subtotal	16		16
Water Department			
Water Manager	1		1
Water Assistant Manager	1		1
Water Quality Specialist	1		1
Water Treatment Plant Supervisor	2		2

RWSA Staffing by Department

OPERATIONS	Approved Positions FY 2022	Changes	Positions FY 2023
Plant Operators			
Operators - Relief Shift Differential all plants	3		3
Operators - Urban	14.6		14.6
Operators - Crozet	2.4		2.4
Operators - Scottsville	1.4		1.4
Subtotal	26.4	0.0	26.4
Subtotal	77.4	0	77.4

Joint Administrative Staff

			FTE Split		
			RWSA	SWA	
Executive Director	1	1	0.85	0.15	1.00
Executive Coordinator	1	1	0.60	0.40	1.00
Director of Finance & Administration	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
Executive Coordinator	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 - SCADA	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
Information Systems Asst. Administrator - SCADA	1	1	1.00	0.00	1.00

Administration and allocation with RSWA	19	0	19	14.40	4.60	19.00
Total all positions	96.40	0.00	96.40			
FTE Position Allocated to RSWA	-4.30		-4.60			
Total Adjusted FTEs	92.10		91.80			

Data for ACSA

	<u>FY 2022</u>	<u>FY 2023</u>	<u>Change</u>
Total RWSA Expenses			
Water	\$ 19,739,000	\$ 21,669,000	\$ 1,930,000
Wastewater	18,661,000	19,525,000	864,000
Add Administration revenue allocation	553,000	656,000	103,000
Add Maintenance revenue allocation	-	-	-
Add Engineering revenue allocation	-	-	-
			-
Total	<u>\$ 38,953,000</u>	<u>\$ 41,850,000</u>	<u>\$ 2,897,000</u>

**RWSA Rate Charges Allocated to
ACSA, by Service Area****Water**

Urban	\$ 8,732,941	\$ 9,641,480	\$ 908,539
Crozet	2,906,688	3,358,788	452,100
Scottsville	653,592	719,856	66,264
Total	<u>\$ 12,293,221</u>	<u>\$ 13,720,124</u>	<u>\$ 1,426,903</u>

Wastewater

Urban	\$ 8,060,138	\$ 9,050,306	\$ 990,168
Scottsville	336,150	365,730	29,580
Stone Robinson School	30,589	39,036	8,447
Glenmore	411,440	464,124	52,684
			-
Total	<u>\$ 8,838,317</u>	<u>\$ 9,919,196</u>	<u>\$ 1,080,879</u>

Total for ACSA	<u>\$ 21,131,538</u>	<u>\$ 23,639,320</u>	<u>\$ 2,507,782</u>
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