

## BOARD OF DIRECTORS' MEETING September 15, 2022 9:00 A.M.

## **AGENDA**

This meeting is being held pursuant to and in compliance with Va. Code Section 2.2-3708(3) and the ACSA Remote Participation Policy effective September 1, 2022. Va. The ACSA Board of Directors is responsible for receiving public comment. The opportunities for the public to access and participate in the electronic meeting are as follows: Join the meeting virtually through Zoom by visiting our website at <a href="www.serviceauthority.org">www.serviceauthority.org</a>; call in and leave a message prior to the meeting at (434) 977-4511, or email the Board prior to the meeting at <a href="board@serviceauthority.org">board@serviceauthority.org</a>.

9:00 a.m.	1. Call to Order and Establish a Quorum –Statement of the Board Chair
9:05 a.m.	2. Approve Minutes of August 18, 2022
9:10 a.m.	3. Matters from the Public
9:20 a.m.	4. Response to Public Comment
9:30 a.m.	5. Consent Agenda
	a. Monthly Financial Reports
	b. Monthly Capital Improvement Program (CIP) Report
	c. CIP Authorizations
	d. Monthly Maintenance Update
	e. Rivanna Water and Sewer Authority (RWSA) Monthly Update
	f. ACSA Board Policy Future Issues Agenda 2022
	g. Advanced Metering Infrastructure (AMI) Project Update
	h. Exploring a New Strategic Plan for 2023
	<ul> <li>i. ACSA Operations Center Fire Suppression System Replacement Project – Request to use a Design/Build Contract</li> </ul>
9:50 a.m.	6. Imagine a Day Without Water – Resolution
10:00 a.m.	7. Customer Account Arrearages Report – Status Update
10:20 a.m.	8. Update Report – Supplier Issues
10:40 a.m.	9. Transfer of Ownership to Upper Woodbrook Interceptor
11:00 a.m.	10. Items Not on the Agenda
the state of the s	11. Adjourn



## ALBEMARLE COUNTY SERVICE AUTHORITY STATEMENT OF CHAIR TO OPEN SEPTEMBER 15, 2022 MEETING

This meeting today is being held pursuant to and in compliance with Va. Code Section 2.2-3708,3 and the ACSA Remote Participation Policy effective September 1, 2022.

The Directors who are electronically present at this meeting are.... (Name the directors electronically present for the meeting)

The opportunities for the public to access and participate in the electronic meeting are posted on the ACSA's website. Participation will include the opportunity to comment on those matters for which comments from the public will be received.

1	The Board of Directors of the Albemarle County Service Authority
2	(ACSA) met virtually in a regular session on August 18, 2022, at 9:00 a.m.
3	through Zoom.
4	Members Present: Mr. Richard Armstrong; Mr. Nathan Moore; Dr. Lizbeth
5	Palmer; Mr. John Parcells; Mr. Charles Tolbert, Vice-Chair.
6	Members Absent: Clarence Roberts, Chair.
7	Staff Present: Jim Bowling, Daniel Fouch, Quin Lunsford, Jeremy Lynn,
8	Michael Lynn, Alex Morrison, Gary O'Connell, Justin Ray, Justin Weiler,
9	Deanna Davenport, Emily Roach Danielle Trent, April Walker, Theresa
10	Whiting.
11	Staff Absent: None.
12	Public Present: Mike Derdeyn, Flora Pettit PC; Neil Williamson, Free
13	Enterprise Forum.
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15	1. Call to Order and Establish a Quorum – Statement of Board Chair
16	Charles Tolbert, Vice-Chair, stated that he would serve as acting
17	Chair in Clarence Roberts' absence. The Vice-Chair called the meeting to
18	order, and a quorum was established. He then read the Board Chair
19	statement declaring an electronic meeting (Attached as Page).
20	
21	2. <u>Service Recognition – Pete Gorham Retirement – 43 Years</u>
22	Gary O'Connell stated that he would reluctantly like to introduce
23	this item. He stated that this would be Pete Gorham's last Board meeting at
24	the Albemarle County Service Authority, as he will be retiring on August 31,
25	2022 after 43 years of service. He stated that Mr. Gorham has been a great
26	leader in the Engineering department and the ACSA cannot thank him
27	enough. He mentioned that there was a nice retirement reception for Mr.
28	Gorham last week, where employees had an opportunity to thank him
29	directly.
30	Mr. O'Connell stated that Mr. Gorham has done a plethora of things
31	during his time at the ACSA to help provide better service to our

customers. He stated that the CIP program has gone from 8 projects just a decade ago, to 41 active projects. He noted that the resolution mentions Mr. Gorham's humor and wit which have been seen here and there during Board meetings but is something employees witness on a daily basis in the office. He mentioned that Jeremy Lynn, Senior Civil Engineer, is a good successor who will begin as Director of Engineering on September 1, 2022. He added that the staff has a very nice plaque to present to Mr. Gorham, along with a resolution in the Board packet for adoption (Attached as Page\_\_\_\_\_).

Mr. Tolbert stated that he would read the resolution.

Mr. Moore moved to approve the recognition resolution as presented to the Board, seconded by Mr. Tolbert. The Vice-Chair asked for a roll-call vote: Mr. Armstrong, Mr. Parcells, aye; Mr. Moore, Dr. Palmer, aye; Mr. Tolbert, aye.

Mr. Tolbert stated that he, and the Board, wishes him a happy and long retirement. He mentioned that even though this was Mr. Gorham's last official meeting as an ACSA staff member, he was welcome back any time as a member of the public. Dr. Palmer stated that in her 8 years of prior service on the ACSA Board of Directors, the meetings were in-person and she always found Mr. Gorham's explanations very helpful, and his sense of humor always helped. She stated that he will be very much missed by all.

Mr. Gorham stated that he has been extremely fortunate over the years to work with numerous great people who were dedicated to doing the best for the ACSA and its customers, not to mention people who were a pleasure to be around every day. He stated that he has also been very lucky to serve several Boards that were supportive of employees and did a great job of giving direction to the staff. He stated that he believes there are great things ahead for the ACSA and the organization has the people it needs to do anything it decides to do. He noted that many of the excellent people he has worked with over the years are still at the ACSA, plugging away every day.

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1	3.	Approve Minutes of July 21, 2022
2		Mr. Parcells stated that he had had two minor corrections to the
3	min	utes of July 21, 2022. He stated that that first correction was on page
4	12,	line 10. He stated that the word "works" should be "work." He stated
5	that	the second correction was also on page 12, line 18. He noted that
6	ther	e should be an "a" between the words "do" and "dive."
7		Mr. Parcells moved to approve the minutes, seconded by Mr.
8	Arn	nstrong. All members voted aye, except for Dr. Palmer who
9	abs	tained from voting due to her absence at the July 21, 2022
0	me	eting.
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2	4.	Matters from the Public
3		There were no matters from the public.
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5	5.	Response to Public Comment
16		There was no response to public comment.
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8	6.	Consent Agenda
19	a.	Monthly Financial Reports - Mr. Parcells stated that the cover memo
20		summary states that staff will give a presentation on customer
21		arrearages. He asked when that presentation would take place. Mr.
22		O'Connell replied that the presentation is scheduled for the September
23		Board meeting.
24	b.	Monthly CIP —
25	C.	CIP Authorizations –
26	d.	CIP Project Close-Outs
27	e.	Monthly Maintenance Update –
28	f.	Rivanna Water and Sewer Authority (RWSA) Update
29	g.	ACSA Board Policy Future Issues Agenda 2022 –
30	<b>h.</b> .	Advanced Metering Infrastructure (AMI) Project Update – Mr.
31		Parcells asked if the meter vendor has given the ACSA a status of how

many meters they have, and an overall projection of when all the meters will be delivered. He noted that the staff has mentioned several times that ideally, they would like to get all of the remaining meters in and have one mass installation, as this would be more efficient. He stated that he was also curious about the \$5 million that was budgeted in FY 2022, a lot of which was not used. He stated that he assumed that money would be reallocated to FY 2023.

Mr. Lunsford stated that he does not have an update as to when the bulk of the remaining meters will be shipped. He stated that the staff has met several times to discuss the full deployment. He stated that currently, the distributor is accumulating parcels of meters at a time, which are being housed at their warehouse facility. He mentioned that at some point, the staff may evaluate deploying some of those as long as they are refreshed quickly enough to keep the installation team mobilized.

Mr. Lunsford stated that in terms of the funding, when the staff budgets for a capital project, they do not request reappropriation for those capital projects. He stated that the capital projects and associated appropriations are ongoing until the project is complete. He noted that this is different from the reappropriation requests in the next agenda item.

Mr. Parcells stated that it must be frustrating to have to drag the project out like this, given that there are so many meters left to be installed. Mr. Lunsford replied that the staff is anxious to get the rest of the meters deployed, given the success they have seen with the nearly 1,800 meters that have been installed. He stated that the upside of the situation is that staff has had an opportunity to get their hands around processes and procedures, and how to evaluate the data they receive.

Mr. Parcells moved to approve the Consent Agenda, seconded by Mr. Armstrong. The Vice-Chair asked for a roll-call vote: Mr. Armstrong, aye; Mr. Parcells, aye; Mr. Moore, aye; Dr. Palmer, aye; Mr. Tolbert, aye.

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## Year-End Appropriations

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Mr. Lunsford stated that this is an annual exercise to reappropriate budgeted funds in the ACSA's operating budget. He stated that all of the requests presented before the Board today were in progress in FY 2022. which ended June 30, 2022. He stated that as supplies and equipment are delivered and those financial transactions occur, the staff is asking the Board to reappropriate those funds to FY 2023.

Mr. Armstrong moved to approve the reappropriation of \$252,361.43 from FY 2022 to FY 2023, seconded by Mr. Parcells. The Vice-Chair asked for a roll-call vote: Mr. Armstrong, aye; Mr. Parcells, aye; Mr. Moore, aye; Dr. Palmer, aye; Mr. Tolbert, aye.

8. Investment Policy Report – Update

Mr. O'Connell stated that this report is a follow-up to previous Board discussions about the ACSA's Investment Policy, specifically socially responsible investments (SRIs). He stated that Mr. Lunsford will try to help clarify where the ACSA stands in terms of investments, as well as get Board feedback.

Mr. Lunsford stated that staff met with the Board and the ACSA's financial advisors, PFM Asset Management, in March of this year to update the organization's investment policy and further diversify investments that were allowable. He stated that through that conversation, the Board requested some information related to SRI and environmental, social, and governance (ESG) programs to be mindful of what the ACSA is investing its funds in.

Mr. Lunsford stated that after doing some further work with PFM, the staff is asking the Board today to give some specific direction for them

to evaluate and provide different options for the Board to consider. He noted that there is no expectation that any program the Board could consider would greatly impact return. He mentioned that the Code of Virginia, and the ACSA's current policy, greatly limits what the organization can invest in.

Mr. Lunsford stated that the SRI program is an exclusionary approach to investing, as it identifies what the ACSA does not want to invest in. He mentioned that there is no additional cost to implement this type of program. He stated that the ESG program is a bit more complicated, but certainly doable. He stated that there will be some associated cost and, although not excessive, should be a consideration in the Board's evaluation. He mentioned that the ESG program uses various resources to analyze issuers based on their environmental and social impacts, as well as the way they are governed. He noted that the issuer then receives a score for the Board to consider.

Dr. Palmer asked if Mr. Lunsford could explain, in a few words, the difference between what the State will allow and the ACSA's adopted investment policy. She stated that she recalls a lengthy discussion about the topic during her previous time on the Board but is a little behind on discussions since that time.

Mr. Lunsford stated that the ACSA's Investment Policy is more restrictive than the State's. He mentioned that the State establishes what the ACSA is allowed to invest in, and at what levels. He stated that the ACSA's Investment Policy, for all intents and purposes, limits different sector percentage allowances to render them less than what the State would allow.

Dr. Palmer asked if the same sectors were allowed under both policies, but just at different proportion levels. Mr. Lunsford replied that this is correct. He stated, with reasonable certainty, that he believes the ACSA's policy allows investment in all of the investments allowed by the

State. He mentioned that it may exclude some of the sectors that the State allows, but he does not know for sure.

Dr. Palmer stated that in the Board packet on page 22, there is a pie chart that shows allocation of investments by type. She mentioned that on the next page, there is a pie chart that shows investment sector allocation. She stated that there is a bit of difference between the two charts and asked if Mr. Lunsford could explain that difference. Mr. Lunsford replied that the difference between the two charts is the inclusion of the Local Government Investment Pool (LGIP) in the allocations of investments by type chart. He noted that the LGIP investment is not included in the PFM investment portfolio.

Mr. O'Connell asked if Mr. Lunsford could talk about commercial paper and corporate notes, and some examples of institutions the ACSA is investing in. Mr. Lunsford replied that the majority of the commercial paper (the 13% in the pie chart on page 22) is related to bank issuers, but there is potential for other issuers. He stated that the corporate note portion (the 3% in the pie chart on page 22) is also mostly financial institutions, but the ACSA did have a holding with Exxon and Amazon at the end of July. He added that this sliver of the pie chart is where the staff is focused on for any SRI or ESG directive that the Board would like them to consider.

Mr. O'Connell stated that with regard to State limits, there could only be about 15-20 more businesses that the ACSA could invest in. Mr. Lunsford stated that this is mostly correct. He stated that what has been communicated to the ACSA from its advisor, is that there are 15-20 active issuers that meet the qualifications as set forth through the organization's investment policy and State code. He noted that there could be other issuers that are not included in that active set of 15-20 issuers, but it is irregular and not frequent.

Mr. Parcells asked if PFM has indicated examples of some of the other entities that are acceptable, but the ACSA is not investing in. Mr. Lunsford replied that given the way the policy is currently written, there are

no vehicles that would not be used if they met the criteria set forth in that policy. He mentioned that any further consideration of SRI or ESG would limit that pool of available investments even more.

Mr. Parcells stated that he thought he heard Mr. Lunsford say that PFM believes the ACSA is essentially socially responsible with its current investments. Mr. Lunsford replied that this would be correct, depending on how granular the Board wanted to get. He noted, for example, that some organizations have considered a Wal-Mart corporate note to be an ineligible investment because some of the stores sell firearms. He added that it depends on how specific the Board wants to be in their evaluation to potentially exclude or score.

Dr. Palmer stated that The Economist had a special report on these types of investments a few weeks ago. She stated that one of the takeaways with respect to the ESGs was that the rating agencies that are performing these types of evaluations are not up to par. She stated that if there is a cost associated with ESG, she would be concerned about going that route. She added that she is also concerned about having to pay a consultant to perform regular reviews on ESG investments the ACSA might choose.

Mr. Parcells asked if the LGIP breaks out into individual investments in corporations within that pool. He also asked, corollary to that, if the \$12 million difference between the \$30 million under asset management and the \$42 million in ACSA assets sits in the LGIP. Mr. Lunsford replied yes, and he believes it is actually about \$13 million in the LGIP now. He stated that there are thousands of investments in the LGIP, all of which are incredibly liquid and accessible within a day if needed. He mentioned that he can provide a listing of the investments within the LGIP. He noted that the ACSA has no say over what those investments are, but they are all obviously in compliance with State code.

Mr. Parcells stated that he is satisfied that the ACSA is doing the best it can do, and PFM is doing due diligence for the benefit of the

 organization. He stated that he has not heard anything thus far that is contrary to SRI or ESG.

Mr. Armstrong stated that instead of having an ad hoc conversation right now, he wonders if the Board should create a subcommittee that would identify investments that speak to matters like environmental protection or water pollution and quality that it feels should be included in the ACSA's Investment Policy. He stated that this would give Mr. Lunsford some direction when working with PFM.

Mr. O'Connell stated that there are about 20 companies across various sectors that the ACSA can invest in. He stated that every single one of those companies have SRI policies and annual reports, as they are subject to scrutiny from the rating agencies. He mentioned that these 20 companies make up the realm in which the ACSA can invest or not invest, and this is where the staff is seeking guidance. He stated that the sector that would jump out to him is energy, but it depends on how deep the Board wants to dive. He noted, for example, Nestlé has investments in plastic water bottle companies. He stated that this could be seen as conflicting with the role the ACSA plays.

Dr. Palmer stated that she would like the Board to see a list of the 20 companies and have an opportunity rate what they are interested in, to have a more organized conversation. She stated that she is fine with what the ACSA is currently doing, but she understands ensuring the organization is not investing in something egregious.

Mr. Moore stated that as a baseline, a water and sewer company would not want to invest in a company that is polluting water. He stated that he does agree with Dr. Palmer in that having more information to begin with would help the discussion.

Mr. Tolbert stated that if the Board had a list of the 20 companies, it would either solve the problem or show the need for a subcommittee as Mr. Armstrong suggested. He stated that a Board meeting like this is not a good place to make complicated decisions if the research has not been

done ahead of time. He mentioned that he thinks the Board may need a subcommittee to dive deeper at some point but looking at the list would be a good way to start. Mr. Parcells concurred.

Mr. Lunsford stated that staff will compile that list but, in full disclosure, issuers are added to and taken off that list frequently. He stated that PFM is very hesitant to put anything in writing related to that list as credit ratings could change, causing a company to be removed from the list. Mr. Tolbert added that perhaps Mr. Lunsford could include a hedging paragraph with the list pertaining to those fluctuations. Mr. O'Connell added that Mr. Lunsford can also include what sector the company is in, which defines things from a policy standpoint.

Mr. Bowling stated that the Board needs to ensure they comply with the Freedom of Information Act, regarding meetings and public information. Mr. Tolbert stated that his understanding is that any subcommittee can only have two members, otherwise the committee meetings would have to be announced. Mr. Bowling concurred.

Dr. Palmer stated that the Board can send their thoughts to the Board Chair in an email, as opposed to having a bunch of meetings. Mr. Bowling replied that Board members can certainly send an email to the Chair but once the Chair responds, it becomes public information. Dr. Palmer replied that she understands it is public information but is attempting to eliminate the need for a Board meeting. Mr. Bowling stated that he just wants to ensure that the Board and ACSA is open and avoids any accusations of impropriety.

Mr. O'Connell stated that perhaps a future consent agenda can contain information about where the Board lands on the investment policy, so that it is public information. He stated that the staff will first send out the list of the 20 companies, and then everyone can determine if there is a need for future discussions.

August 18, 2022

## 9. Future Board Meetings – Virtual Option Discussion & Resolution

Mr. O'Connell stated that the ACSA has been operating under the County's Emergency Ordinance to conduct virtual meetings. He stated that the ordinance expires September 1, 2022, which would mean the ACSA would go back to in-person Board meetings. He stated that there is included in state law, a means to have some virtual meetings. He stated that Jim Bowling, ACSA Attorney, has put together a Remote Participation Policy for the Board to consider.

Mr. Bowling stated that this is convoluted legislation, which is effective September 1, 2022, and does two things. He stated that first, it continues the present policy, with some changes, the ACSA Board has allowing remote participation for absent Board members who are unable to meet in-person for certain reasons. He stated that second, the legislation allows certain public bodies to have all virtual meetings, including the ACSA.

Mr. Bowling stated that the legislation limits the number of virtual meetings allowed to two per calendar year, or 25% of all meetings, whichever is greater. He stated that if the Board adopts the policy today, the ACSA could have an all-virtual meeting in September, as well as November or December. He stated that the policy does not allow for consecutive virtual meetings, which is why the ACSA could only have two for the remainder of the calendar year.

Mr. Tolbert asked if emergency meetings counted in the allowed number of virtual meetings. Mr. Bowling replied that he does not think that is covered in the new legislation. He stated that he would go out on a limb and say that an emergency meeting probably falls outside of this policy. Mr. Tolbert asked if the County were to adopt another emergency ordinance like they did for the Covid-19 pandemic, would those meetings be counted against the allowed number of virtual meetings. Mr. Bowling stated that they would not, which is included in section five of the policy. He added that

the ACSA could also have all virtual committee meetings, which is covered in section four of the policy.

Dr. Palmer asked if the Board needed to determine which meetings would be virtual ahead of time. Mr. Bowling replied no, noting that it is a "use them or lose them" situation. He stated that the Board may want to consider a virtual September meeting, and then another virtual meeting later. He noted that next year, there is the potential for three virtual meetings, as long as they are not consecutive. Dr. Palmer asked if the year is considered January to December. Mr. Bowling replied yes.

Mr. Tolbert stated that the issue before the Board is whether to adopt the suggested Remote Participation Policy. He stated that if and when the Board adopts the policy, it can then deice which meetings to hold virtually. Mr. Parcells asked what the alternative would be to not adopting this policy. Mr. Bowling replied that if the ACSA does not adopt the policy, it will not be able to have all-virtual meetings and absent Board members would not be allowed to participate remotely.

Mr. Parcells moved to approve adoption of the Remote Participation Policy, as presented to the Board; seconded by Mr. Armstrong. The Vice-Chair asked for a roll-call vote: Mr. Armstrong, aye; Mr. Parcells, aye; Mr. Moore, aye; Dr. Palmer, aye; Mr. Tolbert, aye.

Mr. Tolbert asked if the Board should now discuss which remaining meetings for the calendar year will be virtual. Mr. O'Connell stated that his suggestion would be to discuss it now, while still on the topic. He stated that the staff's suggestion would be to announce a virtual meeting in September, which means the October meeting would need to be in-person. He stated that IT has prepared for an in-person meeting with a virtual option for the public, but they would like to perform some equipment testing. The Board concurred with a virtual meeting for September. Mr. Parcells stated that he would refrain from giving his preference for September, as he will not be able to attend virtual or otherwise. Mr. Tolbert

concluded that, barring any unforeseen circumstances, the ACSA staff and Board will meet virtually in September and in-person in October.

## 10 Operational Presentation – ARC GIS

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Mr. O'Connell stated that Justin Ray, GIS & CMMS Coordinator will be giving the Board an overview presentation of GIS (Attached as Pages \_\_\_\_\_). He noted that the ACSA's GIS is pretty impressive for a utility of its size, as not many around the country have this level of information about their system.

Justin Ray, GIS & CMMS Coordinator, stated that last month he discussed the CMMS side of Cityworks, and this month he would discuss the GIS side of the equation. He noted that he gave a presentation on this a few years ago and similar to that presentation, he would give the Board an overview and go through some of the basics of GIS.

Mr. Ray stated that GIS is digitized representations spatially of the ACSA's infrastructure in the ground, in a mapping database. He stated that the ACSA currently has over 130,000 assets in its database. He stated that GIS is not just one software, as there are a number of ways to access the data. He mentioned that ArcGIS Pro is the new desktop application staff is using, and Field Maps is for mobile users. He stated that ArcGIS Enterprise is a large server and deployment for the software. He noted that GIS is also integrated with a number of software such as the modelling and CCTV software. He added that ArcGIS Enterprise is the backbone for a significant chunk of the ACSA's onsite server and is the backbone that powers things like the Cityworks integration.

Mr. Ray stated that the ACSA just migrated from ArcMap to ArcGIS Pro this year. He mentioned that the ACSA had been using ArcMap for decades. He stated that there was an organizational training with 15 staff members to help with the migration.

Mr. Ray stated that Field Maps is the way GIS is accessed by field staff. He stated that field staff used to have laptops with a software called

ArcPad, which was in place for at least a decade. He mentioned that eventually, the staff migrated to iOS devices with the explorer and collector applications. He mentioned that ESRI, the software vendor, replaced both of those with a single application called Field Maps, which the ACSA transitioned to earlier this year.

Mr. Ray stated that how the GIS is used depends on the employee. He stated that some staff, like construction inspectors, are in the field with GPS units and iPads with Field Maps. He noted that they will collect data as the assets go into the ground, and GPS-locate those features which goes directly into the GIS. He stated that the engineers will digitize new line features in the GIS. He mentioned that he handles map requests all the time that come in from engineering firms, construction firms, realtors, or the

general public needing to know where the ACSA's assets are.

Mr. Ray stated that the GIS database is fairly large and continues to grow. He stated that every asset that goes into the ground becomes a new feature in the database, so it is constantly changing. He stated that imagery is important, and staff can find it very useful. He mentioned that there are a number of different sources for imagery. He stated that there is the ESRI provided imagery which is a little dated and not the best. He stated that there is also the Virginia Geographic Information Network (VGIN) imagery collected by the State every four years, which is much higher resolution imagery. He stated that the ACSA also collaborates with the County and purchases imagery, which offers various angles of an image. He added that the ACSA also has a drone but has not been able to fly it for recent projects due to limitations. He noted that this would change once the new GIS Technician is hired.

Mr. Ray stated that in terms of what is next, there a few CIP projects related to GIS. He stated that the Utility Network project is being approached from a feasibility standpoint, as it would require a complete overhaul of the ACSA's GIS system. He stated that the Cityworks Operational Insights project is very much tied to GIS, as is anything related

to Cityworks. He mentioned that Data Reviewer will be implemented, which is an extension for the GIS software, allowing for better data quality control. He noted that CIP Story Map is a user-friendly way to view all of the CIP projects, which would be available to the public as well. He stated that the hope is that Story Map will be available for next year's CIP. He added that the GIS is in a constant state of change with new software and data upgrades and enhancing its capabilities.

Dr. Palmer stated that she remembered from a while back, that there was some concern over making information regarding the location of certain infrastructure available to the public. She asked what the criteria would be for making that information public. Mr. Ray replied that in general, the ACSA does not give out data to the public. He stated that if he receives a request for the information, he will provide them with a static map of the specific area they are requesting information for. He noted that the only data that is displayed publicly on the website currently is meter locations. He mentioned that there is an upcoming CIP project that will look at what data is in fact sensitive information. April Walker, Director of IT, stated that the upcoming Dashboarding project has a data classification piece that will analyze the date and determine what is classified and what is not. Mr. Ray added that there is a Freedom of Information Act (FOIA) exemption for critical infrastructure, which is the main reason the data has not been given out publicly.

## 11. <u>Items Not on the Agenda</u>

Dr. Palmer asked if a Board member asks a question about a specific agenda item via email, is it policy for the staff to email the entire Board with the answer. She stated that Mr. Lunsford did this recently, and she was happy to see that the answer went out to the entire Board. Mr. O'Connell replied that if it is a one-on-one issue like a customer inquiry as opposed to say a broader policy issue, the entire Board would probably not be copied. He stated that in the case of Mr. Lunsford's email, the staff saw

## 18 **Albemarle County Service Authority Board of Directors** 1 it as additional information that they felt would be useful for the rest of the 2 Board to have. 3 12. 4 Adjourn There being no further business, Mr. Parcells moved that the 5 meeting be adjourned, seconded by Mr. Moore. All members voted 6 7 aye. 8 9 10 11 12 Gary B. O'Connell, Secretary-Treasurer 13

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## ALBEMARLE COUNTY SERVICE AUTHORITY

### AGENDA ITEM EXECUTIVE SUMMARY

**AGENDA TITLE:** Monthly Financial

Reports

ACTION: Informational

AGENDA DATE: September 15, 2022

STAFF CONTACT/PREPARER:

Quin Lunsford, Director of Finance

ATTACHMENTS: Yes

**BACKGROUND:** Water and sewer financial reports and check registers for the month of August are attached for your review.

### **DISCUSSION:**

- Water consumption for the month of July increased 3.5% compared to June. Water consumption for the month of July 2022 compared to July 2021 decreased 3.9%.
- RWSA's invoice of \$2,041,957 for the month of July was paid on August 10, 2022.
- Unearned water and sewer connection charges totaled \$2,377,008 at month end.
- System connection charges were above budgeted expectations with \$832,710 recognized in July. Total system connection charges for FY 2023 are more than those in FY 2022 by 147%.
- Water and Wastewater revenues for FY 2023 are above budgeted expectations by 6.7%. Please see the water/wastewater trend analysis included illustrating that when adjustment for expected variations in seasonal consumption are considered, revenues are 3.1% lower than budgeted expectations.

**BUDGET IMPACT:** Informational only.

**RECOMMENDATIONS:** None

**BOARD ACTION REQUESTED:** None; informational item only.

#### **ATTACHMENTS:**

- 1. Statement of Net Position
- 2. Year-to-Date Budget to Actual Comparison/Commentary
- 3. Investment Summary
- 4. Capacity/System Development Reserves
- 5. Connection Charges/ERC Analysis
- 6. Monthly Water Consumption
- 7. Water and Sewer Report; Customer Class Report
- 8. Major Customer Analysis
- 9. Water/Wastewater Revenue Trend Analysis
- 10. Aged Receivables Analysis
- 11. Check Register

## ALBEMARLE COUNTY SERVICE AUTHORITY

## STATEMENT OF NET POSITION August 31, 2022

## ASSETS

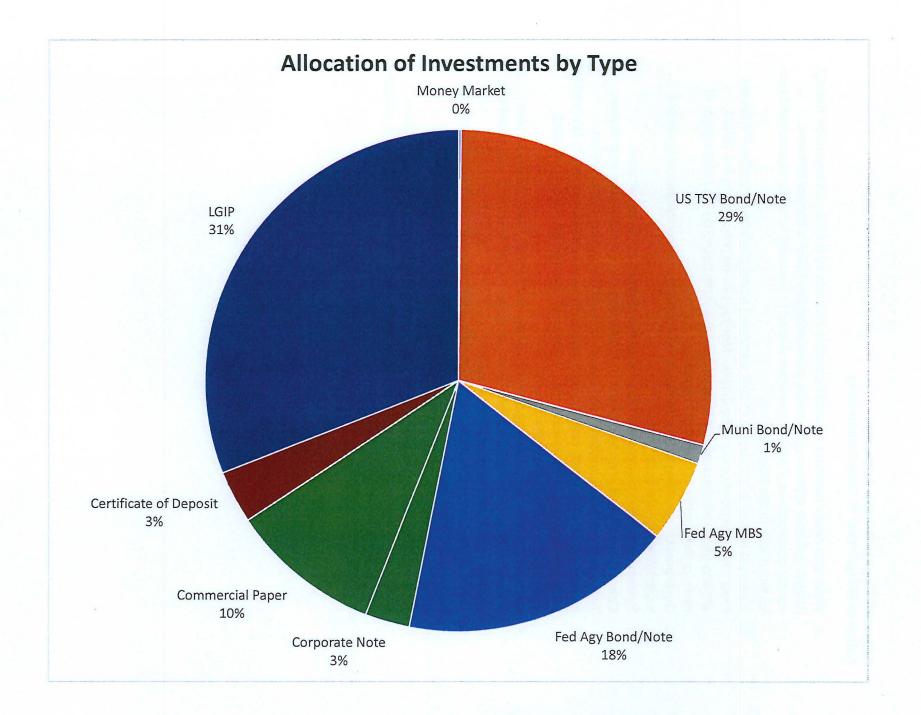
Cash and cash equivalents	\$	9,523,367
Accounts receivable	•	4,967,842
Investments		42,775,867
Capital assets: (net of accumulated depreciation)		177,112,004
Inventory		611,880
Prepaids		240,542
Cash and cash equivalents, restricted		684,777
	<del></del>	
Total assets		235,916,279
,		
DEFERRED OUTFLOWS OF RESOURCES		
Combined deferred outflows of resources		1,174,141
LIABILITIES		
Accounts payable		2,084,582
Accrued liabilities		359,303
Compensated absences		763,469
Net pension liability		695,494
Other post-employment benefits		1,144,368
Unearned connection fees		2,377,008
Long-term debt		5,044,118
Total liabilities		12,468,342
DEFERRED INFLOWS OF RESOURCES		
Combined deferred inflows of resources	-	2,880,258
NET POSITION		221,741,820

## ALBEMARLE COUNTY SERVICE AUTHORITY For the One Month Ending August 31, 2022

	Budget FY 2023	Budget Year-to-Date 2023	August Actual Year-to-Date	Actual vs. Budget	Variance Percentage
Revenues		2020	rodi to bato	<u> </u>	1 orderitage
Water Sales Sewer Service	19,285,000. 15,137,000.	3,214,167. 2,522,833.	3,464,689. 2,655,007.	250,522. 132,174.	7.79% 5.24%
Total operating revenues	34,422,000.	5,737,000.	6,119,696.	382,696.	6.67%_A
Operating Expenses					
Purchase of bulk water Purchase of sewer	(13,774,000.)	(2,295,667.)	(2,350,259.)	(54,592.)	2.38% <b>B</b>
treatment	(10,776,000.)	(1,796,000.)	(1,735,630.)	60,370.	(3.36%) B
Administration	(1,286,500.)	(214,417.)	(161,520.)	52,897.	(24.67%) <b>C</b>
Finance	(2,502,100.)	(417,017.)	(356,098.)	60,919.	(14.61%) <b>C</b>
Information Technology	(1,521,900.)	(253,650.)	(151,783.)	101,867.	(40.16%) <b>C</b>
Engineering	(2,288,400.)	(381,400.)	(362,391.)	19,009.	(4.98%) C
Maintenance	(4,509,000.)	(751,500.)	(560,409.)	191,091.	(25.43%) C
Total operating expenses	(36,657,900.)	(6,109,650.)	(5,678,090.)	431,560.	(7.06%)
Operating gain(loss)	(2,235,900.)	(372,650.)	441,606.	814,256.	(218.50%)
Nonoperating Revenues					
System connection					
charges	5,926,800.	987,800.	1,481,570.	493,770.	49.99% D
Investment/Interest	0,020,000.	007,000.	1,-101,0701	100,770.	10.00% <b>B</b>
Income	100,000.	16,667.	3,077.	(13,590.)	(81.54%) E
Rental income	16,000.	2,667.	2,431.	(236.)	(8.84%)
Miscellaneous revenues	455,000.	75,833.	154,458.	78,625.	103.68% F
Total nonoperating					
revenues (expenses)	6,497,800.	1,082,967.	1,641,536.	558,569.	51.58%
Nonoperating Expenses					
Miscellaneous expenses	(434,200.)	(72,367.)	(322.)	72,045.	(99.56%) <b>G</b>
Bond interest charges	(162,272.)	(27,045.)	0.	27,045.	(100.00%) H
Depreciation	<u> </u>	0.	(691,162.)	(691,162.)	0.00% 1
Total nonoperating					
revenues (expenses)	(596,472.)	(99,412.)	(691,484.)	(592,072.)	595.57%
Capital contributions	0.	0.	268,501.	268,501.	0.00%
Change in Net Position	3,665,428.	610,905.	1,660,159.	1,049,254.	171.75%

## Albemarle County Service Authority Actual-to-Budget Year to Date Commentary

- **A.** Water and sewer revenues exceed budgeted amounts by 6.67%. Consumption through August (gallons) appears reasonable considering the ACSA's normal seasonal consumption pattern. Further information related to seasonal revenue expectations can be found later in the Board packet.
- **B.** Expenses related to purchases of bulk water and sewer treatment from the RWSA are lower than budgeted amounts by 0.14%. Monthly billings prepared by the RWSA allocate total water/wastewater flows to the ACSA/City based on the consumption of each for the quarter immediately preceding.
- **C.** Departmental operating budgets through the current month remain below budgeted expectations for the fiscal year.
- **D.** System connection charges are higher than the prorated budgeted amount. Connection charges are often difficult to project and can fluctuate from year to year. These charges are dependent upon new customers connecting to the system.
- E. Investment income, which includes both interest income and adjustments to fair market value are recorded in these accounts. Investment earnings are below budgeted expectations through the current month.
- **F.** Miscellaneous revenues consist of multiple lines and include inspection fees, plan review, reconnections/initial bill fees, invoiced water usage, and gains associated with sales of capital assets retired from service
- **G.** The budgeted amount includes expected outlays for capital equipment and losses on disposal of capital assets. Equipment is capitalized when placed in service.
- H. Bond interest charges are recorded as incurred.
- I. Depreciation is not a budgeted line-item accounting for the variance. Depreciation expense is considered during the annual budgeting process as this expense is utilized to calculate the required contribution to the 3r reserve.



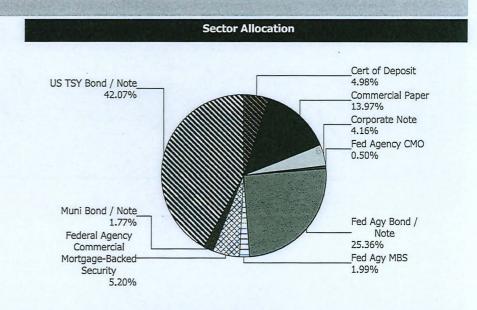
## pfm asset management

## **Portfolio Summary and Statistics**

For the Month Ending August 31, 2022

## ACSA OPERATING FUNDS - 03100100

Account Summary						
Description	Par Value	Market Value	Percent			
U.S. Treasury Bond / Note	13,105,000.00	12,560,089.77	42.07			
Municipal Bond / Note	550,000.00	526,882.00	1.77			
Federal Agency Mortgage-Backed Security	617,811.76	595,262.12	1.99			
Federal Agency Commercial	1,582,358.54	1,553,555.01	5.20			
Mortgage-Backed Security						
Federal Agency Collateralized Mortgage	150,000.00	148,010.15	0.50			
Obligation						
Federal Agency Bond / Note	7,760,000.00	7,568,485.52	25.36			
Corporate Note	1,275,000.00	1,240,350.05	4.16			
Commercial Paper	4,200,000.00	4,168,651.80	13.97			
Certificate of Deposit	1,500,000.00	1,486,596.81	4.98			
Managed Account Sub-Total	30,740,170.30	29,847,883.23	100.00%			
Accrued Interest 61,462.65						
Total Portfolio	30,740,170.30	29,909,345.88				



	Maturity Distribution							
	28.06%	35.46%						
12.01%			21.36%					

2 - 3 Years

581,318.33

1.12%

3 - 4 Years

568,061.06

0.00%

4 - 5 Years

Over 5 Years

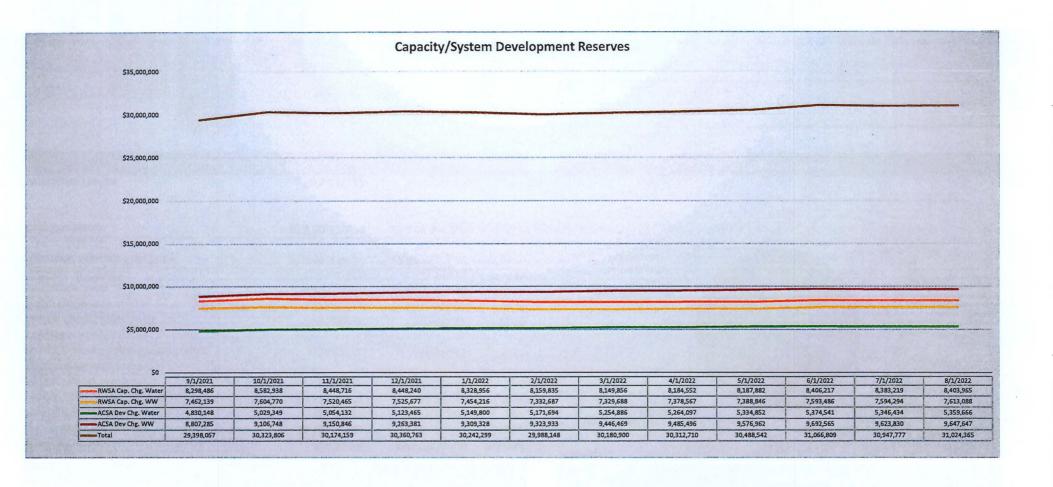
Characteristics	SPANIE NEW
Yield to Maturity at Cost	1,38%
Yield to Maturity at Market	3.43%
Weighted Average Days to Maturity	572

6 - 12 Months

1 - 2 Years

**Unsettled Trades** 

0 - 6 Months



Note: Additions to Capacity/System Development Reserves are from monthly connection charges, reductions to the reserves are from monthly growth related expenses/capital costs.

## Albemarle County Service Authority Connection Fee Analysis July 2022

1000 Table		Jul	y 2022				
Area	I/	July 2022 Monthly Innection Fees		July 2021 Monthly Connection Fees		\$ Change	% Change
Crozet	\$	107,760	\$	94,290	\$	13,470	14%
Urban		724,950		242,460		482,490	199%
Scottsville		-		-		_	_
Total Connection fees	\$	832,710	\$	336,750	\$	495,960	147%
		Throu	gh July		in Te		
	YT	D FY 2023		D FY 2022		\$	%
Area		ection Fees		ection Fees		Change	Change
Crozet	\$	107,760	\$	94,290	\$	13,470	14%
Urban		724,950		242,460	٠	482,490	199%
Scottsville		-		_		_	-
Total Connection fees	\$	832,710	\$	336,750	\$	495,960	147%
Area	J	uly 2022 ERC's	J	uly 2021 ERC's	W 1	Change	% Change
Crozet		8		7	-	1	14%
Urban		54		18		36	200%
Scottsville		-		-		<del>-</del>	-
Total ERC's		62		25		37	148%
		Throu	gh July				
	YT	D FY 2023	YT	D FY 2022			%
Area	·····	ERC's		ERC's		Change	Change
Crozet		8		7		1	14%
Urban		54		18		36	200%
Scottsville		-		_		_	-
Total ERC's - YTD		62		25		37	148%

Note: This analysis shows, both in dollars and ERC's, connections by month and YTD for the period under review. As noted above, connection fees are comparable to the prior year. See the "Three Year Connection Fee Comparison" for further discussion related to this change.

# Albemarle County Service Authority Three Year Connection Fee Comparison July 2022

Area	July 2022 ERC's	July 2021 ERC's	July 2020 ERC's
Crozet	8	7	26
Urban	54	18	75
Scottsville	-	_	-
Total ERC's	62	25	101

Through July						
	YTD 2023	YTD 2023 YTD 2022				
Area	ERC's	ERC's	ERC's			
		_				
Crozet	8	7	26			
Urban	54	18	75			
Scottsville	- -	-				
Total ERC's - YTD	62	25	101			

Note: The information above presents ERCs by month and YTD for the current and past two fiscal years. As noted in the YTD portion of the analysis, YTD ERCs in Fiscal Year 2023 appear reasonable considering continued development within the ACSA's service area.

### Albemarle County Service Authority Consumption Analysis Fiscal Year 2023

				Monthly Preci	ipitation (In.)
	FY 2023 Consumption	FY 2022 Consumption		FY 2023	FY 2022
July	155,932,214	162,247,194	-3.89%	6.42	2.30
August		183,549,927	-100.00%		4.60
September		167,986,757	-100.00%		5.46
October		159,438,005	-100.00%		5.26
November		148,641,595	-100.00%		1.01
December		140,551,064	-100.00%		0.26
January		142,192,560	-100.00%		4.04
February		127,434,073	-100.00%		1.81
March		131,636,356	-100.00%		3.50
April		135,122,656	-100.00%		3.23
May		144,519,955	-100.00%		6.04
June		150,608,842	-100.00%		4.11
	155,932,214	1,793,928,984		6.42	41.62
YTD	155,932,214	162,247,194	-3.89%	6.42	2.30

Note: Consumption through July 2022 is 3.89% less than the same period in fiscal year 2022. Monthly precipitation figures have been included for comparison purposes. Trends in rainfall can sometimes correlate with trends in consumption however, depending on the intensity, days between rain events, or other factors, this may not always be the case.

Note: Precipitation data obtained from National Oceanic and Atmospheric Administration (NOAA): https://www.ncdc.noaa.gov/cdo-web/search.



## Water and Sewer Report

(Volumes in Gallons)

July 2022 Corrected

Billed by Area:	Water	Sewer	Billing by Sewer Plant:		
Crozet Scottsville Urban Red Hill	18,491,296 1,483,587 135,925,351 31,980 155,932,214	16,423,312 829,211 111,016,099 0 128,268,622	AWT less Glenmore Urban Total Scottsville	,	127,439,411 (4,750,358) 122,689,053 829,211 123,518,264
			Metered Consumption (bille	d by invoice):	
G. C.					
Number of Installed Meters:				Urban	1,715,400
Urban	42			Crozet	41,100
Crozet	4			Scottsville	0
Scottsville	0			Total	1,756,500
To	tal 46				
Unmetered Consumption:			Unmetered Leak Consumpt	ion:	
ACSA Fire Flow Consump.	Urban	22,270	4616 Heather Ct-7/3/22	Urban	100
			1294 Stonypoint Rd-7/7/22	Urban	200
	Total	22,270			200
				Total	300

	Water	Sewer		Water	Sewer
Virginia Land Holding	253,039	253,039	Boar's Head Inn	541,812	523,512
Southwood Mobile Homes	2,039,000	2,100,000	Farmington, Inc.	1,004,409	533,448
Turtle Creek Apts.	1,085,764	1,080,664	Westgate Apts.	1,232,893	1,229,593
Barracks West Apartments	1,525,400	1,525,400	<b>Abbington Crossing</b>	1,926,166	1,926,166
Monroe Health and Rehab	956,927	956,927	Four Seasons Apts	1,568,221	1,568,221
Sunrise Senior "Colonnades"	937,110	725,010	Ch'ville/Alb Airport	205,261	206,491
ACRJ	1,020,280	853,280	State Farm	144,200	93,200
Vestminster Canterbury	1,554,690	1,439,690	Hyatt @ Stonefield	343,629	343,429
SEMF Charleston	1,464,801	1,464,801	Doubletree	838,231	838,231
flartha Jefferson Hospital	2,376,936	965,595	Arden Place Apts.	448,132	448,132
Crozet Mobile Home Court	261,900	261,900	Hilton Garden Inn	239,011	239,011
ashion Square Mall	159,785	159,785	The Blake @Charlottesville	224,946	224,946
County of Albemarle	926,547	699,426	The Lodge @ Old Trail	252,582	252,582
Iniversity of Virginia	2,386,957	2,380,598	Gov't-Defense Complex	1,146,332	1,012,191
Wegmans	271,556	271,556	Harris Teeter Stores	226,117	226,117
indicates Industrial Discharge Permit Holders					



**July 2022** 

## WATER

Class Type	Number of Connections by Area						
	<u>Urban</u>	Crozet	Scottsville	<b>Total</b>			
Single-Family Residential	15,627	3,691	196	19,514			
Multi-Family Residential	550	43	3	596			
Commercial (Offices)	202	12	5	219			
Commercial (Other)	917	76	52	1,045			
Industrial	36	9	4	49			
Institutional	171	32	12	215			
<b>Total Water Accounts</b>	17,503	3,863	272	21,638			
Plus Multiple Units	12,690	748	89	13,527			
<b>Total Water Units</b>	30,193	4,611	361	35,165			

## SEWER

Class Type	Number of Connections by Area						
	<u>Urban</u>	Crozet	Scottsville	<b>Total</b>			
Single-Family Residential	13,319	3,413	158	16,890			
Multi-Family Residential	519	41	4	564			
Commercial (Offices)	186	12	5.	203			
Commercial (Other)	712	52	46	810			
Industrial	15	5	. 1	21			
Institutional	133	25	10	168			
<b>Total Sewer Accounts</b>	14,884	3,548	224	18,656			
Plus Multiple Units	12,273	745	56	13,074			
<b>Total Sewer Units</b>	27,157	4,293	280	31,730			

## **POPULATION SERVED**

Population served is the total Single-Family and Multi-Family units using an occupancy of 2.5 residents per unit:

	<u>Urban</u> <u>Crozet</u>		Scottsville	Total	
<b>Total Water Customers</b>	70,793	11,098	713	82,603	
<b>Total Sewer Customers</b>	63,980	10,395	535	74,910	

Albemarle County Service Authority Major Customer Analysis July 2022 and June 2022

	July 2022		June	2022	Increase(Decrease)	Increase(Decrease)
	Water*	Sewer*	Water*	Sewer*	<b>Water Consumption</b>	Sewer Usage
Southwood Mobile Homes	2,039,000	2,100,000	1,655,000	2,050,000	23.20%	2.44%
Abbington Crossing	1,926,166	1,926,166	1,571,998	1,571,998	22.53%	22.53%
Martha Jefferson Hospital	2,376,936	965,595	2,138,315	1,173,315	11.16%	-17.70%
Four Seasons Apts.	1,568,221	1,568,221	1,479,526	1,479,526	5.99%	5.99%
University of Virginia	2,386,957	2,380,598	2,299,273	2,291,756	3.81%	3.88%
Barracks West Apartments	1,525,400	1,525,400	1,473,800	1,473,800	3.50%	3.50%
Westmisnster Canterbury	1,554,690	1,439,690	1,536,450	1,394,450	1.19%	3.24%
SEMF Charleston	1,464,801	1,464,801	1,449,054	1,449,054	1.09%	1.09%
ACRJ	1,020,280	853,280	1,073,840	941,840	-4.99%	-9.40%
Westgate Apts.	1,232,893	1,229,593	1,355,491	1,355,491	-9.04%	-9.29%
Turtle Creek Apts.	1,085,764	1,080,664	1,223,764	1,217,464	-11.28%	-11.24%
County of Albemarle	926,547	699,426	1,581,996	1,247,408	-41.43%	-43.93%

Note: Only major customers of the ACSA have been analyzed above. For purposes of this analysis, major customers are those who, on average, consume over one million gallons per month. Variations can occur for a variety of reasons including but not limited to: conscious conservation efforts, expansion, weather, vacancies, etc.

<sup>\* --</sup> Consumption/usage in gallons.

Albemarle County Service Authority Major Customer Analysis July 2022 and July 2021

	July 2022		July 2	2021	Increase(Decrease)	Increase(Decrease)	
	Water*	Sewer*	Water*	Sewer*	Water Consumption	Sewer Usage	
Abbington Crossing	1,926,166	1,926,166	1,558,900	1,558,900	23.56%	23.56%	
Barracks West Apartments	1,525,400	1,525,400	1,395,800	1,395,800	9.28%	9.28%	
Four Seasons Apts.	1,568,221	1,568,221	1,537,000	1,537,000	2.03%	2.03%	
Southwood Mobile Homes	2,039,000	2,100,000	2,039,000	5,600,666	0.00%	-62.50%	
Martha Jefferson Hospital	2,376,936	965,595	2,409,651	984,951	-1.36%	-1.97%	
Westmisnster Canterbury	1,554,690	1,439,690	1,585,140	1,465,140	-1.92%	-1.74%	
Westgate Apts.	1,232,893	1,229,593	1,309,000	1,302,700	-5.81%	-5.61%	
Turtle Creek Apts.	1,085,764	1,080,664	1,192,000	1,191,000	-8.91%	-9.26%	
University of Virginia	2,386,957	2,380,598	3,048,507	3,037,600	-21.70%	-21.63%	
ACRJ	1,020,280	853,280	1,563,620	1,338,620	-34.75%	-36.26%	
SEMF Charleston	1,464,801	1,464,801	2,357,650	2,357,650	-37.87%	-37 <i>.</i> 87%	
County of Albemarle	926,547	699,426	1,541,649	754,649	-39.90%	-7.32%	

Note: Only major customers of the ACSA have been analyzed above. For purposes of this analysis, major customers are those who, on average, consume over one million gallons per month. Variations can occur for a variety of reasons including but not limited to: conscious conservation efforts, expansion, weather, vacancies, etc.

<sup>\* --</sup> Consumption/usage in gallons.

**Albemarle County Service Authority** 

**Major Customer Analysis** 

Year-to-date Comparison: Current Year/Prior Year -- July

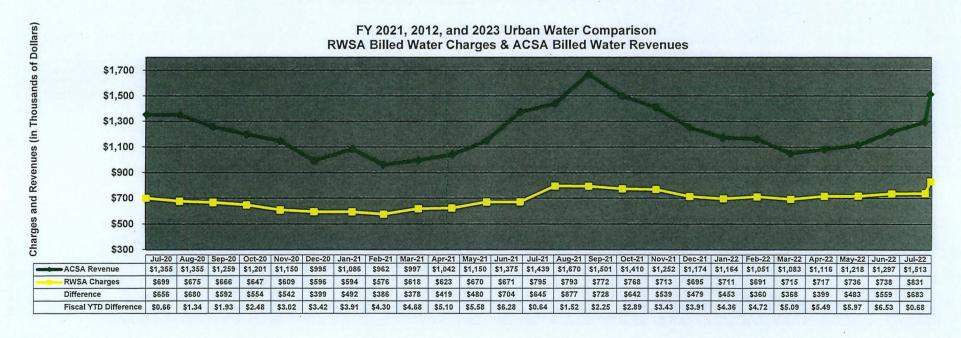
	YTD FY	YTD FY 2023		2022	Increase(Decrease)	Increase(Decrease)
	Water*	Sewer*	Water*	Sewer*	<b>Water Consumption</b>	Sewer Usage
Abbington Crossing	1,926,166	1,926,166	1,558,900	1,558,900	23.56%	23.56%
Barracks West Apartments	1,525,400	1,525,400	1,395,800	1,395,800	9.28%	9.28%
Four Seasons Apts.	1,568,221	1,568,221	1,537,000	1,537,000	2.03%	2.03%
Southwood Mobile Homes	2,039,000	2,100,000	2,039,000	5,600,666	0.00%	-62.50%
Martha Jefferson Hospital	2,376,936	965,595	2,409,651	984,951	-1.36%	-1.97%
Westmisnster Canterbury	1,554,690	1,439,690	1,585,140	1,465,140	-1.92%	-1.74%
Westgate Apts.	1,232,893	1,229,593	1,309,000	1,302,700	-5.81%	-5.61%
Turtle Creek Apts.	1,085,764	1,080,664	1,192,000	1,191,000	-8.91%	-9.26%
University of Virginia	2,386,957	2,380,598	3,048,507	3,037,600	-21.70%	-21.63%
ACRJ	1,020,280	853,280	1,563,620	1,338,620	-34.75%	-36.26%
SEMF Charleston	1,464,801	1,464,801	2,357,650	2,357,650	-37.87%	-37.87%
County of Albemarle	926,547	699,426	1,541,649	754,649	-39.90%	-7.32%

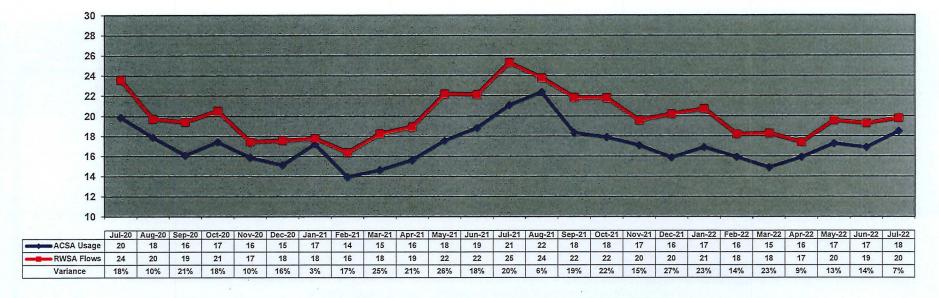
Note: Only major customers of the ACSA have been analyzed above. For purposes of this analysis, major customers are those who, on average, consume over one million gallons per month. Variations can occur for a variety of reasons including but not limited to: conscious conservation efforts, expansion, weather, vacancies, etc.

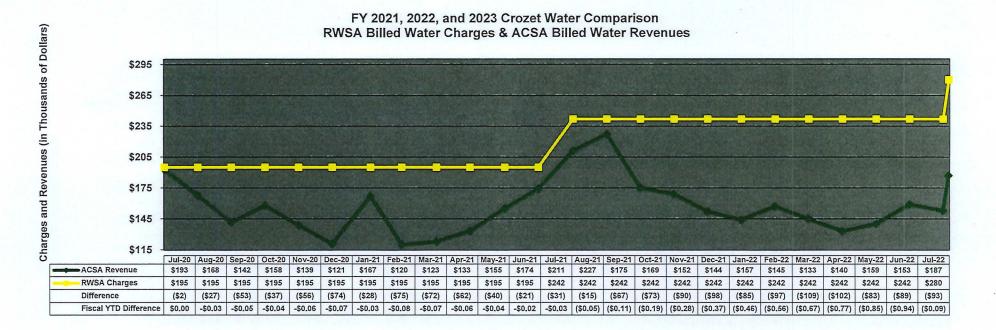
<sup>\* --</sup> Consumption/usage in gallons.

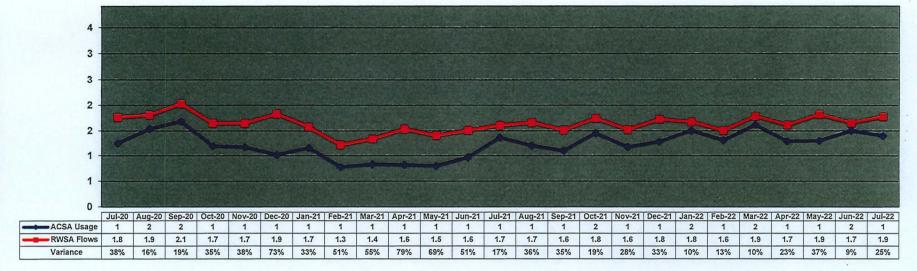
## FY 2021, 2022, and 2023 Urban Water Comparison RWSA Flows & ACSA Customer Usage

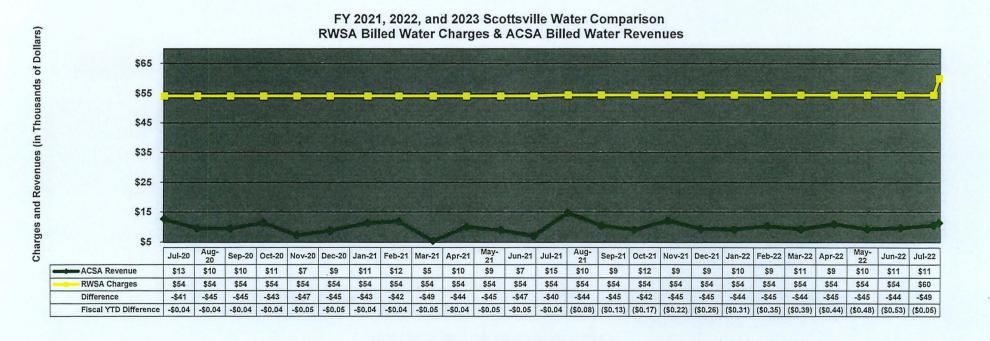


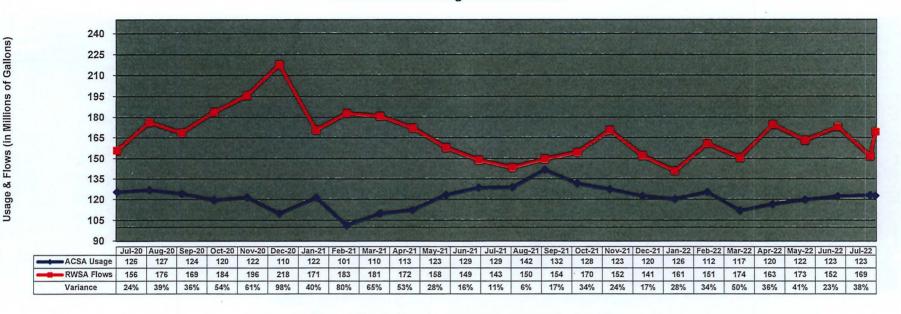




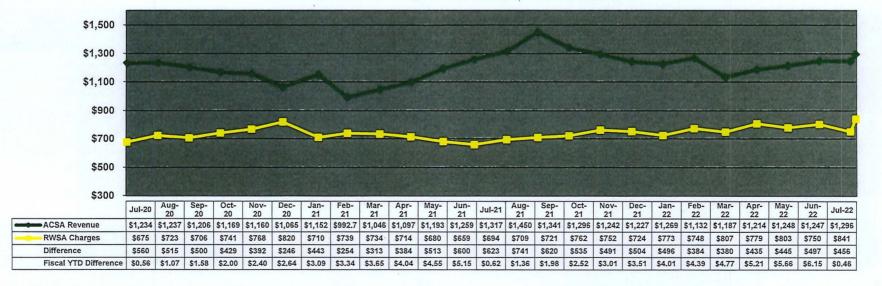




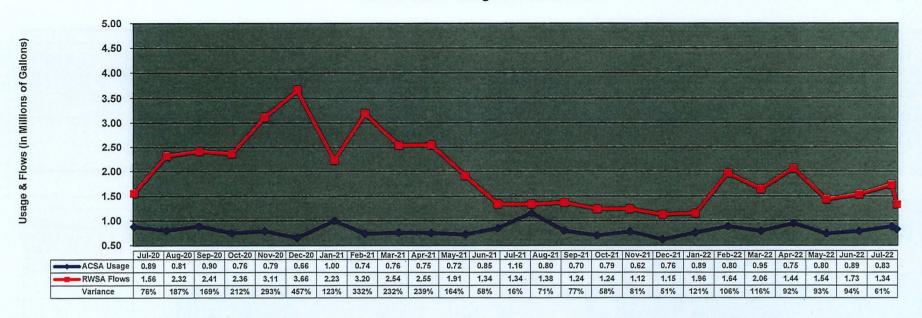




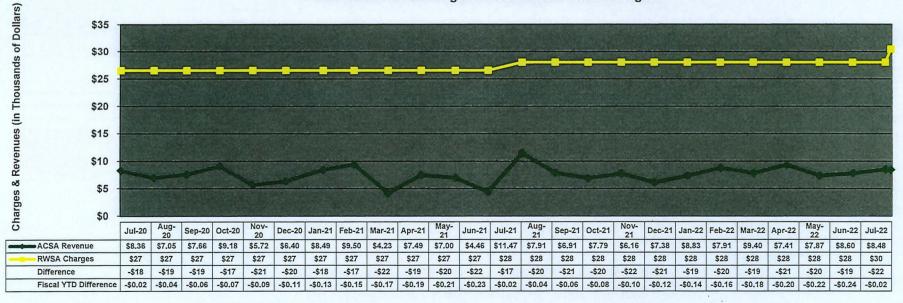
FY 2021, 2022, and 2023 Urban (including Glenmore) & Crozet Sewer Comparison ACSA Billed Sewer Usage & RWSA Billed Sewer Charges



#### FY 2021, 2022, and 2023 Scottsville Sewer Comparison ACSA Customer Usage & RWSA Flows



# FY 2021, 2022, and 2023 Scottsville Sewer Comparison ACSA Billed Sewer Usage & RWSA Billed Sewer Charges



# Single-Family Residential Water Usage

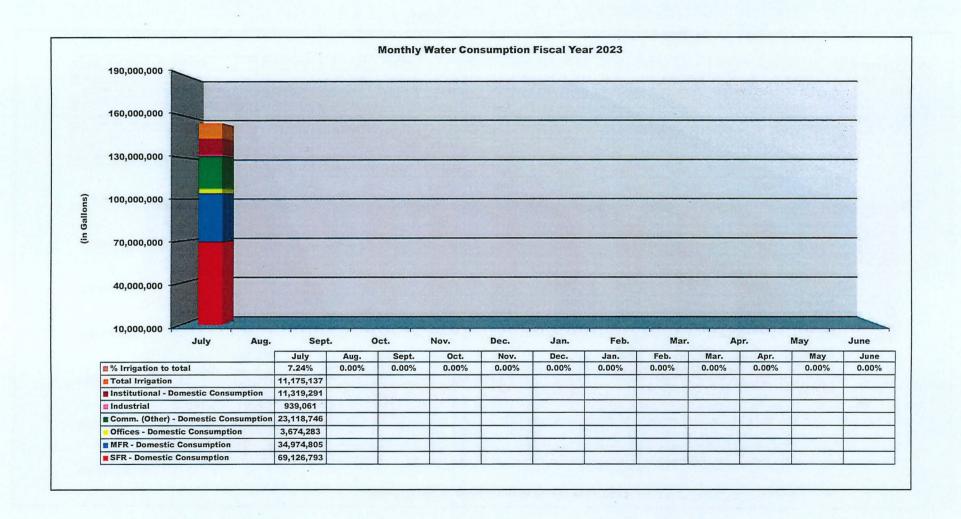
(Including irrigation through exclusion, irrigation, and auxiliary meters)

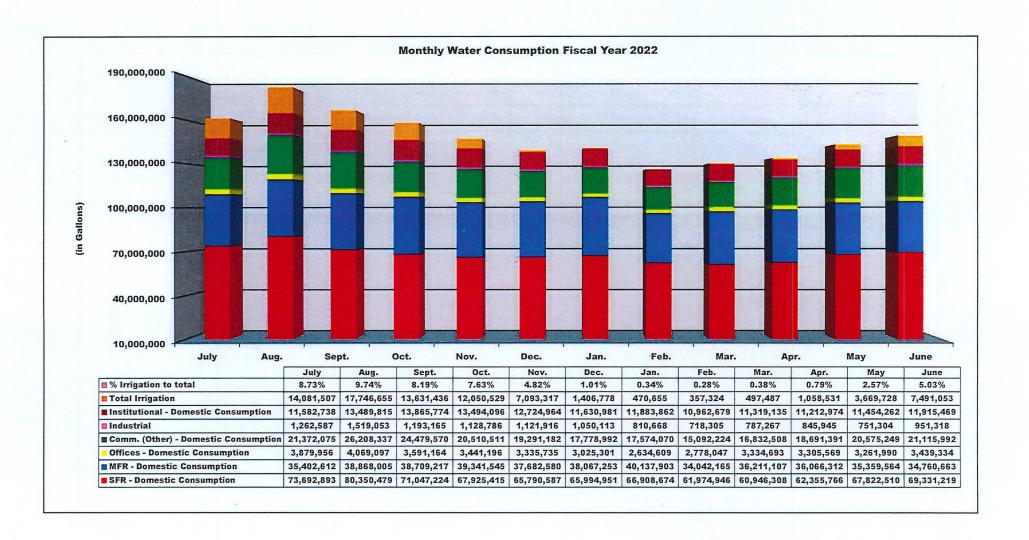
						FY	2021		IEZ-E	100 m		
	July	August	September	October	November	December	January	February	March	April	May	June
Level 1 (0 - 3,000 gallons)	45,910,300	45,665,700	45,167,300	44,787,100	45,134,400	44,331,500	45,900,400	43,314,333	43,786,600	44,618,100	45,900,923	46,255,313
Level 2 (3,001 - 6,000 gallons)	21,030,200	19,112,200	17,329,000	16,285,100	16,315,200	14,519,300	18,251,700	12,572,600	13,283,000	14,314,500	17,440,134	19,373,374
Level 3 (6,001 - 9,000 gallons)	7,266,400	5,921,900	4,575,900	4,441,300	3,890,700	2,817,300	4,255,500	2,201,100	2,371,500	2,609,300	4,280,004	6,283,886
Level 4 (over 9,000 gallons)	9,237,400	7,302,100	4,762,100	4,978,000	3,886,400	1,744,700	2,307,000	1,477,100	1,583,000	1,631,400	3,370,714	7,573,293
Total	83,444,300	78,001,900	71,834,300	70,491,500	69,226,700	63,412,800	70,714,600	59,565,133	61,024,100	63,173,300	70,991,775	79,485,866

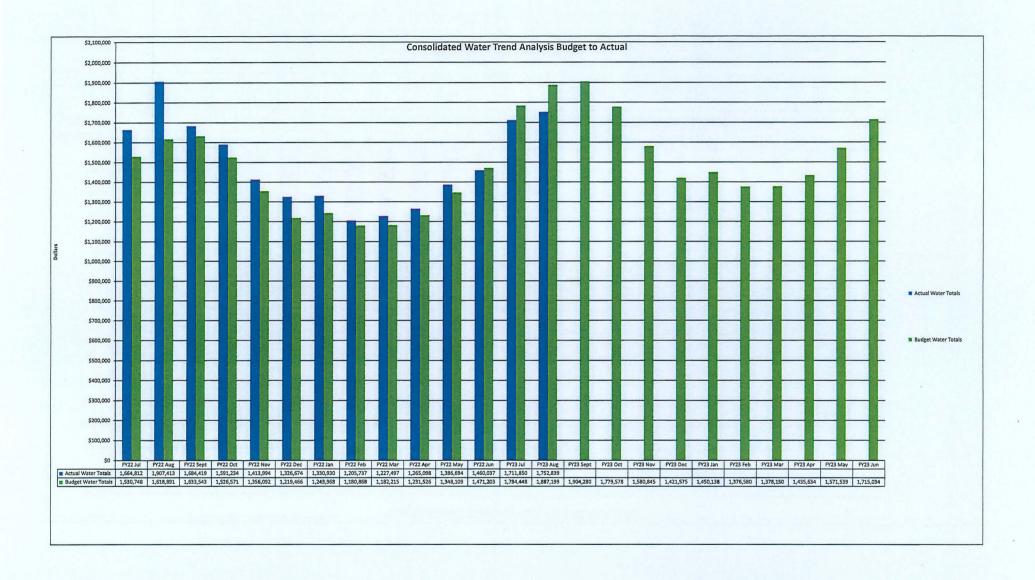
						FY:	2022					
	July	August	September	October	November	December	January	February	March	April	May	June
Level 1 (0 - 3,000 gallons)	45,715,768	46,650,649	45,763,766	45,032,204	45,171,862	45,419,967	45,519,835	43,528,147	44,213,375	44,847,991	45,928,802	46,038,996
Level 2 (3,001 - 6,000 gallons)	18,273,794	20,170,499	17,049,266	15,725,032	15,151,382	14,875,487	15,122,551	12,929,554	12,730,722	13,260,281	16,086,013	16,576,525
Level 3 (6,001 - 9,000 gallons)	6,123,440	7,439,890	5,100,810	4,617,427	3,808,811	2,996,781	3,076,904	2,659,279	2,230,016	2,424,233	3,744,303	4,334,397
Level 4 (over 9,000 gallons)	8,544,212	14,373,474	7,815,394	7,173,929	4,280,811	2,811,464	3,100,290	2,921,259	1,746,818	1,865,133	3,644,494	5,309,110
						Hary and Experience	ALC: NO.	ROM STATE	KIND CLO	TWING TO SERVICE		
Total	78,657,214	88,634,512	75,729,236	72,548,592	68,412,866	66,103,699	66,819,580	62,038,239	60,920,931	62,397,638	69,403,612	72,259,028

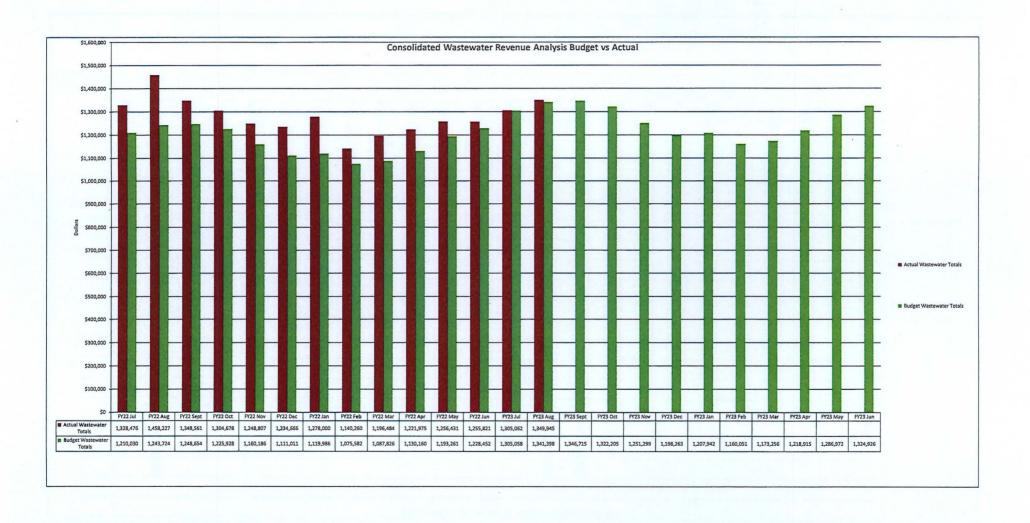
						FY	2023					
	July	August	September	October	November	December	January	February	March	April	May	June
Level 1 (0 - 3,000 gallons)	45,619,811	Mary Control										
Level 2 (3,001 - 6,000 gallons)	16,371,636											
Level 3 (6,001 - 9,000 gallons)	4,850,324											
Level 4 (over 9,000 gallons)	7,208,522							SENTITE ACTOR				
	STATE OF THE				LANT BESTATAL							
Total	74,050,293				Market Hall							

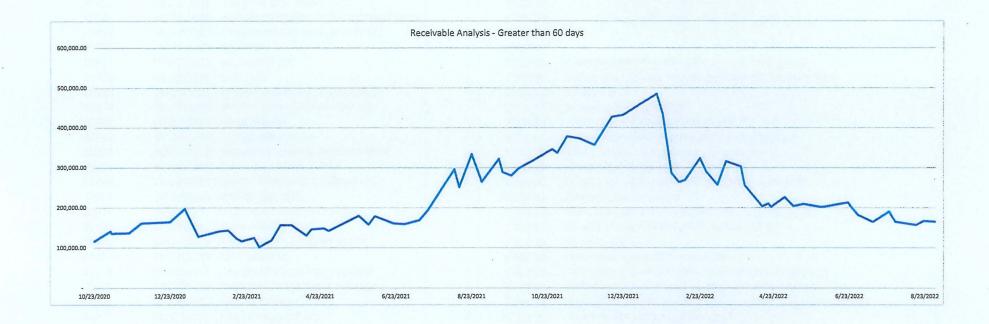
System-Wide Irrigation Water Usage  (All usage measured through exclusion, irrigation, and auxiliary meters)												
FY 2022	July	August	September	October	November	December	January	February	March	April	May	June
Level 1 (0 - 3,000 gallons)	186,665											
Level 2 (3,001 - 6,000 gallons)	827,558											
Level 3 (6,001 - 9,000 gallons)	990,172											
Level 4 (over 9,000 gallons)	9,170,743											
Total	11,175,137					-					-	











# Albemarle County Service Authority August 2022 Checks

CHECK NUMBER		VENDOR NAME	AMOUNT	DESCRIPTION OF ITEMS OVER \$5,000
63467	08/15/2022	S L Williamson Company Incorporated	321,314.04	Hessian Hills WMRP Pavement Restoration
63494	08/15/2022	Metra Industries	214,776.64	Hessian Hills WMRP Construction Retainage
63570	08/31/2022	Prism Contractors	36,485.52	Hollymead Drainage Basin Rehab July 22
63512	08/31/2022	Core & Main LP	19,667.92	Inventory stock
63421		Fortiline Incorporated	18,419.56	Frames, Covers & Valve Box Extensions
63407	08/15/2022	County of Albemarle	16,486.03	800 MHz Radio System Annual Infrast Cost 22-23
63565	08/31/2022	•	15,869.08	Transaction Fees for July 22
63546	08/31/2022	Mansfield Oil Company of Gainesville, Inc.	10,898.96	Monthly Fuel
63575	08/31/2022	RSG Landscaping LLC	10,431.42	Landscaping - July and August 2022
63397	08/15/2022	Bank of America	9,340.55	Office Supplies, Memberships, Tools, Travel, Software Renewals
63483	08/15/2022	University of Virginia Foundation	8,000.00	Ragged Mountain Phase 1 WMRP Easement Compensation
63482	08/15/2022	UVA Darden School Foundation	7,960.00	Lead Team 4 Growth & Change, A Morrison 9/26-30/22
63420	08/15/2022	Flora Pettit PC	7,938.00	General Representation - June 2022
63430	08/15/2022	Infrastructure Solutions Group	7,873.75	Unit #32 Repair
63438	08/15/2022	Linco Incorporated	7,313.47	FY 2022 Sanitary Sewer Replacement July 22
63525	08/31/2022	eTEC Mechanical Corporation	6,722.73	HVAC Final Pay Request w/Retainage Release July 22
63484	08/15/2022	Verizon Wireless	6,631.54	Monthly Cellular Service
63399	08/15/2022	Brown, Edwards & Company LLP	6,500.00	FY 2022 Financial Statement and Compliance Audit
63414	08/15/2022	Dominion Energy Virginia	6,403.65	Monthly Energy Service
63556	08/31/2022	Norfolk Southern Railway Company	6,240.00	Annual AMI lease at Norfolk Southern site
63517	08/31/2022	Daly Computers Inc	6,210.00	Unitrends Support Renewal 8/1/22-7/31/2023
63591	08/31/2022	USABlueBook	5,572.86	Hydrant Buddy Cordless and various
63416	08/15/2022	Evoqua Water Technologies LLC	5,470.92	Bioxide Delivery 7/15/22
63462	08/15/2022	Quarles Petroleum Incorporated	5,412.39	Monthly Fuel
63515	08/31/2022	Cues, Inc.	5,200.00	GraniteNet software renew6/24/22-6/23/23PO20220106
63571	08/31/2022	Provantage LLC	5,190.00	Computer Replacements for Environmental Group
63501	08/31/2022	Ascensus	4,800.00	
63405	08/15/2022	Commonwealth Underground LLC	4,500.00	
63552	08/31/2022	Michael Baker International Incorporated	3,906.97	
63523	08/31/2022	Ed's Floor Care Services LLC	3,703.33	
63398	08/15/2022	Beverage Tractor & Equipment Incorporated	3,668.43	
63472	08/15/2022	St John, Bowling, Lawrence & Quagliana LLP	3,625.00	
63513	08/31/2022	Cosner Brothers Body Shop Incorporated	3,530.02	
63422	08/15/2022	Frank & Associates Incorporated	3,500.00	
63487	08/15/2022	WaterPIO	3,500.00	
63406	08/15/2022	Core & Main LP	3,305.32	
63567 ·	08/31/2022	PFM Asset Management LLC	2,979.73	
63457	08/15/2022	PFM Asset Management LLC	2,887.83	
63478	08/15/2022	Tyler Technologies Incorporated	2,608.00	

63522	08/31/2022	E Source Companies LLC	2,600.00				
63536	08/31/2022	JDL Industries - Atlanta Inc.	2,591.66				
63439	08/15/2022	Lowes Companies Incorporated	2,394.91				
63606	08/31/2022	Minnesota Life Insurance Company	2,029.73				
63520	08/31/2022	Dominion Energy Virginia	1,996.86				
63572	08/31/2022	Rappahannock Electric Cooperative	1,894.82				
63602	08/31/2022	Guardian	1,827.81		•		
63589	08/31/2022	UniFirst Corporation	1,772.85				
63498	08/31/2022	Amerigas	1,688.08				
63480	08/15/2022	UniFirst Corporation	1,554.54				
63465	08/15/2022	Rivanna Water & Sewer Authority	1,532.58				
63440	08/15/2022	Luck Stone Corporation	1,482.66				
63509	08/31/2022	Comcast Business	1,450.59				
63485	08/15/2022	Virginia Utility Protection	1,444.80				
63464		Rivanna Solid Waste Authority	1,424.00				
63543	08/31/2022	Michael R Lynn	1,197.33				
63474	08/15/2022	Support Warehouse Limited	1,058.00				
63441	08/15/2022	Mailing Services of Virginia	1,033.70				
63527		Ferguson Enterprises, LLC #1300	993.56				
63410	08/15/2022	Cues Incorporated	881.09				
63396	08/15/2022	Atlas Copco USA Holdings Incorporated	856.00				
63390	08/15/2022	Advance Stores Company Incorporated	825.16				
63577	08/31/2022	S L Williamson Company Incorporated	820.13	•			
63490	08/15/2022	Winchester Building Supply Company Incorporated	760.00				
63548	08/31/2022	Mayer Electric Supply Company Inc.	724.28				
63461	08/15/2022	Prism Contractors	692.37	-			
63435	08/15/2022	LB Technology Incorporated	687.50				
63481	08/15/2022	HD Supply Facilities Maintenance LTD	684.81				
63583	08/31/2022	Syn-Tech Systems	680.00				
63598	08/31/2022	ACAC	676.00				
63590	08/31/2022	United Rentals (North America), Inc.	673.30				
63604	08/31/2022	Herbert Beskin Trustee	669.00	•			
63419	08/15/2022	Ferguson US Holdings Incorporated	659.12				
63508	08/31/2022	Comcast	636.96				
63592	08/31/2022	VACORP	630.01				
63446	08/15/2022	ODP Business Solutions LLC	604.73				
63408	08/15/2022	Crown Communication LLC	515.00				
63582		Super Shoes Store/Macro Retailing, LLC	514.96				
63443		Mayer Electric Supply Company Incorporated	505.82				
63596		WA Wells Excavating, LLC	460.00				
63500	08/31/2022	Aqua Air Laboratories Incorporated	450.00				

	00/21/2022	Transurar of Virginia	430.90
63610		Treasurer of Virginia Advance Auto Parts	425.10
63496			418.60
63545	08/31/2022	Mailing Services of Virginia Denis Muchiri	416.91
63444	08/15/2022		404.24
63542		Luck Stone Corporation	341.82
63505		Cardinal Home Center	
63588		Troy's Auto & Diesel LLC	324.89
63479	08/15/2022	U S Bank	305.01
63450		Leanna Muthiah	300.00
63452		Thomas Brady	300.00
63549	08/31/2022	Deanne McDaniel	287.50
63553	08/31/2022		286.70
63594		VoiceLink Communications	284.82
63463		Ricoh USA Incorporated	275.00
63574		Ricoh USA Inc.	275.00
63516		The Daily Progress	260.20
63607		Piedmont Family YMCA	257.40
63608	08/31/2022	•	239.76
63504		Beverly Campbell	231.24
63436		Seanna Leath	230.03
63468		Sherwin Williams Company	225.90
63530		Anne Goodman	223.30
63499		Appalachian Power	219.56
63473	08/15/2022		214.80
63557	· · · · · · · · · · · · · · · · · · ·	Veronica O'Brien	210.40
63529		Gingerich Outdoor Power Specialist	204.96
63424		Phillip Gerringer	203.15
63555	08/31/2022	Sumesh Nair	202.00
63534		Jon Ihlefeld	201.45
63412	08/15/2022	Leslie Richard	200.00
63447	08/15/2022	Brenda Melan	200.00
63448		Harold Hallock	200.00
63559	08/31/2022	Danielle Thorpe	200.00
63562	08/31/2022	Patrick Dougherty	200.00
63564	08/31/2022	Robert Kimball	200.00
63573	08/31/2022	Republic Services	198.93
63445	08/15/2022	Ernane Vieira Neto	195.51
63605	,,	Lendmark Financial Services	192.27
63580	08/31/2022	Nina Scott	183.18
63392		Angie Akacki	175.67
63568		Carlos Portillo	172.86
63488	08/15/2022	Shana Whindleton	171.76

63502	08/31/2022	Roland L Bega	163.00
63585	08/31/2022	Charles M Thomas	163.00
63417	08/15/2022	Flexible Benefit Administrators, Inc	160.25
63535	08/31/2022	James River Communications Incorporated	159.00
63532	08/31/2022	Sara Harrison	158.22
63493	08/15/2022	Virginia Department	150.00
63611	08/31/2022	Virginia Department	150.00
63460	08/15/2022	Priority Elevator	149.00
63495	08/31/2022	Action Lock	148.75
63540	08/31/2022	Elena Lavrentyeva	138.61
63442	08/15/2022	Mansfield Oil Company of Gainesville, Inc.	137.38
63475	08/15/2022	T&N Printing Incorporated	135.00
63404	08/15/2022	HTM/MTE Associates Incorporated	134.27
63427	08/15/2022	Hathaway	134.17
63603	08/31/2022	The Gym	130.00
63541	08/31/2022	Porsche Liggins	129.08
63503	08/31/2022	Better Living Incorporated	128.46
63433	08/15/2022	Azzaam Kapadia	125.60
63437	08/15/2022	Sarah Lennox	124.75
63456	08/15/2022	Nishant Patel	120.55
63401	08/15/2022	Jonathon Caylor	119.50
63415	08/15/2022	William Duff	119.50
63469	08/15/2022	Ronald Dwayne Shifflett	119.50
63471	08/15/2022	Jeffrey N Sprouse	119.50
63395	08/15/2022	American Pest Management Incorporated	118.00
63566	08/31/2022	Performance Signs LLC	115.00
63491	08/15/2022	Eric Woods	107.79
63434	08/15/2022	George Keen	105.90
63449	08/15/2022	James Garman	100.00
63451	08/15/2022	Margaret Phillips	100.00
63560	08/31/2022	George Evans	100.00
63558	08/31/2022	ODP Business Solutions LLC	99.45
63507	08/31/2022	Michael Collins	99.18
63537	08/31/2022	Jim Price Chevrolet	97.51
63423	08/15/2022	Laura Fraser	95.76
63579	08/31/2022	Beverly Scott	87.99
63551	08/31/2022	Sarah McDonald	85.57
63550	08/31/2022	Herman McDonald	82.28
63418	08/15/2022	FedEx Freight Incorporated	80.98
63411	08/15/2022	Peter Dailey	72.71
63391	08/15/2022	Advantage Office Systems	70.00
63486	08/15/2022	William A Wells	70.00

63519	08/31/2022	Document Destruction of Virginia LLC	69.95
63544	08/31/2022	Gregory MacDonald	67.12
63459	08/15/2022	Justin Platt	63.66
63511	08/31/2022	Susan Corbett	61.91
63576	08/31/2022	Kenneth Rublee	61.66
63586	08/31/2022	David Thompson	61.20
63510	08/31/2022	Commonwealth of Virginia/DOLI	60.00
63563	08/31/2022	Polly Sibert	60.00
63569	08/31/2022	Jennifer Powers	58.19
63431	08/15/2022	MyFleetCenter.com	56.68
63470	08/15/2022	Specialty Fasteners of Charlottesville	55.72
63531	08/31/2022	Grainger	54.48
63454	08/15/2022	Janina Painter	52.95
63526	08/31/2022	FedEx	51.26
63539	08/31/2022	Terri M Knight	50.86
63394	08/15/2022	Jason Amatucci	48.08
63497	08/31/2022	Albemarle Lock & Safe Company	48.00
63597	08/31/2022	Timothy Winchester	46.61
63413	08/15/2022	Data West Corporation	45.00
63584	08/31/2022	Brian Teachout	44.05
63593	08/31/2022	Venture Construction Company	40.78
63599	08/31/2022	Anytime Fitness-Pantops	40.00
63600	08/31/2022	Anytime Fitness-Ruckersville	40.00
63601	08/31/2022	Anytime Fitness - Zion VA	40.00
63609	08/31/2022	Snap Fitness Hollymead	39.96
63547	08/31/2022	Alexis Mason	39.74
63455	08/15/2022	Madelenne Parker	37.89
63426	08/15/2022	Jennifer Harmon	35.35
63538	08/31/2022	Danielle Joseph	34.99
63429	08/15/2022	Joyce Hockett	34.19
63402	08/15/2022	Central Virginia Electric Cooperative	32.78
63587	08/31/2022	James Travis	31.70
63521	08/31/2022	Janet Dragone	30.81
63506	08/31/2022	City of Charlottesville	30.10
63453	08/15/2022	Timothy Darrah	30.00
63561	08/31/2022	Joseph Lombardo	30.00
63554	08/31/2022	Loring Myles	24.79
63393	08/15/2022	Albemarie Lock & Safe Company	24.00
63533	08/31/2022	Jaime Henna	23.49
63425	08/15/2022	Mark Harder	21.96
63524	08/31/2022	Caroline Elvig	21.94
63432	08/15/2022	Price Chevrolet Company	20.00
		· ·	

			•
63528	08/31/2022	Don S Garber	19.79
63428	08/15/2022	High Peak Sportswear	18.39
63466	08/15/2022	Evan Robinson	16.87
63581	08/31/2022	Robert B Spann	16.72
63578	08/31/2022	Ben Saul	16.01
63403	08/15/2022	City of Charlottesville	13.85
63595	08/31/2022	Brittney Whitside	13.70
63400	08/15/2022	Cardinal Home Center	11.01
63477	08/15/2022	Marife Toledo-Canete	6.98
63476	08/15/2022	Thryv, Inc.	6.50
63458	08/15/2022	Piedmont Power	5.99
63409	08/15/2022	Crozet Hardware	5.69
63489	08/15/2022	Chris Widick	5.37
63518	08/31/2022	Crystal Dickson	3.95
63514	08/31/2022	County of Albemarle	2.24
			889,530.22

### ALBEMARLE COUNTY SERVICE AUTHORITY

#### AGENDA ITEM EXECUTIVE SUMMARY

**AGENDA TITLE:** FY 2023 Capital

Improvement Program (CIP)

STAFF CONTACT(S)/PREPARER: Jeremy M. Lynn, P.E., Director of

Engineering

AGENDA DATE: September 15, 2022

**CONSENT AGENDA:** 

ACTION:

INFORMATION:

**ATTACHMENTS: YES** 

**BACKGROUND:** Monthly CIP Memo including a status report on active CIP Projects, changes to the CIP Schedule, the revised CIP Schedule, and a list of Active Private Development Projects.

#### **DISCUSSION:**

- Questions about the status of active CIP Projects.
- Schedule changes for three projects.

**BUDGET IMPACT:** None.

**RECOMMENDATIONS:** None.

**BOARD ACTION REQUESTED:** Approval of the Consent Agenda.

#### **ATTACHMENTS:**

- Monthly CIP Report
- List of CIP schedule changes
- Revised CIP Schedule
- List of Active Private Development Projects

# Albemarle County Service Authority (ACSA) Capital Improvement Project Report September 2022

### a) Risk Assessment Improvements Phase 1 (Account Code 1621):

Consultant:

Dewberry Engineers, Inc. (Dewberry)

Project Status:

Design

Percent Complete:

100%

Contractor:

Undetermined

Construction Start:

2022

Completion:

2023

Total Budget:

\$1,063,950

Appropriated Funds:

\$529,048

Project Description - After the attacks of September 11, 2001 industry leaders were tasked by the federal government to prioritize requirements for the protection of the nation's critical infrastructure. The Water Sector, encompassing both water and wastewater, was one of the categories /identified that were expected to remain resilient and continue operating regardless of emergency events. As part of the on-going preparedness program for the ACSA to remain resilient a Vulnerability Assessment was completed in conjunction with our community partners. All our critical assets were analyzed for risks caused by both natural and human-made hazards, using the AWWA Standard J100: Risk and Resilience Management of Water and Wastewater Systems. The result was a report to establish mitigation measures to lower risks and increase resiliency. Some mitigation measures have already been completed with others phased over upcoming fiscal years based upon priority.

9/7/2022: ACSA staff and Dewberry have been working closely with Harrisonburg Construction Co., Inc. (HCC) to identify any cost savings through value engineering following receipt of their bid. A total reduction of \$6,000 was identified and the contract will be adjusted by change order following execution of the contract. A Board authorization is proposed for this project.

# b) Energy Audit (Account Code 1625):

Consultant:

OBG, A Ramboll Company (Ramboll)

Project Status:

Study

Percent Complete:

Construction Start:

95%

Contractor:

Unknown N/A

Completion:

October 2022 (Study)

Total Budget: \$390,000 Appropriated Funds: \$296,000

**Project Description -** This project will consist of a comprehensive energy audit of the Operations Center and all pump stations. It will evaluate current energy consumption and the factors that drive it, as well as, an analysis of utility rate structures to identify potential cost savings. Surveys will be conducted of all systems, including operation and maintenance procedures to determine where energy conservation can be improved.

7/12/2022: The Draft Final Report has been received and is currently under review.

### c) Avon Street Maintenance Yard (Account Code 1622):

Consultant: Dewberry Engineers, Inc. (Dewberry)

Project Status: Design Percent Complete: 65%

Contractor: Undetermined

Construction Start: 2023 Completion: 2024

Total Budget: \$4,315,000 Appropriated Funds: \$634,312

**Project Description -** As part of the Operations Center Expansion Study our consultant reviewed all properties owned by the ACSA that could be utilized as we grow. The Avon Street property has long been held as a future location to build additional facilities in a central location, as needed. The current Maintenance Yard at our Operations Center is becoming overcrowded with equipment and materials, causing us to locate some equipment and larger materials in the former ACSA Maintenance Yard at the Crozet Water Treatment Plant, which we lease from RWSA. This project will begin to develop the Avon Street property into a much larger vehicle and materials storage facility, including a training area for our equipment operators.

8/8/2022: Dewberry has finalized design of the stormwater connection for the future improvements to our Avon Street entrance. This storm pipe will be installed as part of the County's Avon Street Extended Sidewalk Project. The County is in the process of obtaining change order pricing from their contractor for installation of this stormwater stub-out.

# d) HVAC System Upgrade (Account Code 1619):

Consultant: Whitman, Requardt & Associates, Inc. (WRA)

Project Status: Construction

Percent Complete:

100%

Contractor:

eTEC Mechanical Corporation (eTEC)

**Construction Start:** 

February 2019

Completion: Total Budget:

August 2022 \$1,378,000

Appropriated Funds:

\$1,034,297

**Project Description** - During recent years it has become apparent that the HVAC system serving the Administration Building is in need of replacement. This evaluation will review the existing HVAC system and recommend solutions and alternatives. HVAC efficiency and life cycle cost analysis will be performed as part of the evaluation.

9/7/2022: Closeout documents have been received and final payment to eTEC has been processed. This project will be removed from the CIP list.

#### e) Four-Story Backflow Prevention Device Retrofit (Account Code 1765):

Consultant:

ACSA/Dewberry Engineers, Inc. (Dewberry)

Project Status:

Design

Percent Complete:

100%

Contractor:

Undetermined

Construction Start:

2022

Completion:

2023

Total Budget: Appropriated Funds: \$348,000 \$360,295

**Project Description -** In late 2018 ACSA staff became aware of four-story residential structures being constructed without proper backflow prevention devices. Section 8 of the ACSA Rules and Regulations details the ACSA Backflow Prevention Program. This program is in accordance with 12VAC5-590-570 through 12VAC5-590-630 of the Virginia Waterworks Regulations. The Containment Policy in 12VAC5-590-610 outlines the requirement for a backflow prevention (BFP) assemblies on the domestic water service line to high rise structures, defined as four (4) or more stories.

9/7/2022: ACSA staff have identified three phases for this project based on geographic areas. Phase 1 will be the Out of Bounds neighborhood which includes 24 homes. A Request for Quotes is currently being developed by ACSA staff.

# f) Scottsville Phase 4 Water Main Replacement (Account Code 1758):

Consultant:

Whitman, Requardt & Associates, Inc. (WRA)

Project Status:

Design

Percent Complete:

90%

Contractor:

Undetermined

Construction Start: Completion:

2024 2026

Total Budget:

\$5,004,900

Appropriated Funds:

\$499,410

Project Description - This project continues our systematic program to replace undersized and deteriorating asbestos-cement and cast iron water mains throughout our water systems. The design will begin in FY 2019 and carry over into FY 2020. Construction is not anticipated to begin until FY 2025.

9/7/2022: F&R is scheduled to complete the geotechnical borings during the month of September 2022.

### g) Crozet Phase 4 Water Main Replacement (Account Code 1756):

Consultant:

Michael Baker International, Inc. (Baker)

Project Status:

Design 100%

Percent Complete:

Undetermined

Contractor: Construction Start:

2023

Completion:

2025

Total Budget:

\$6,183,500

Appropriated Funds:

\$520,911

Project Description - Our Strategic Plan calls for the eventual replacement of all asbestos-cement and PVC (pre-1990) water mains in our system, as they are older and made of a weaker material than the current industry norm. This project continues our systematic program to replace the aging and undersized asbestos-cement and PVC water mains in the Crozet Water System. This is the fourth of five phases that have been defined to carry out these improvements.

With a design revision, ACSA staff has been able to eliminate one of the remaining easements. To date 14 of 18 easements required for construction have been acquired.

### h) Ragged Mountain Phase 1 Water Main Replacement (Account Code 1760):

Consultant:

Dewberry Engineers, Inc. (Dewberry)

Project Status:

Design 90%

Percent Complete: Contractor:

Undetermined

Construction Start: Completion:

2022 2023

Total Budget:

\$951,400

Appropriated Funds:

\$124,975

**Project Description -** This project will replace the oldest active water main remaining in our system, which was part of the water main that served customers out Reservoir Road. This cast iron pipe is over 90 years old and is severely tuberculated, which greatly reduces the flow capacity in this section.

8/8/2022: The Deed of Easement from University of Virginia Foundation has been executed and recorded in the Clerk's Office. VDOT has twice been unsuccessful in their advertisement of the Morey Creek Bridge Replacement and is evaluating their next steps.

# i) Jefferson Village Water Main Replacement (Account Code 1747):

Consultant:

Dewberry Engineers, Inc. (Dewberry)

Project Status:

Construction

Percent Complete:

0%

Contractor:

Commonwealth Excavating, Inc. (CEI)

Construction Start: Completion:

2022

Total Budget:

2023 \$2,451,000

Appropriated Funds:

\$1,614,340

**Project Description -** This project addresses the goal in our Strategic Plan for the eventual replacement of all asbestos-cement water mains in our system. The existing water mains are approximately 49 years old and have reached the end of their useful life. As a former well system that was connected to public water, many of the mains are also undersized.

9/7/2022: The Notice to Proceed date of August 29, 2022 has been established and construction activities are expected to begin the week of September 5, 2022.

# j) Northfields Water Main Replacement (Account Code 1764):

Consultant:

OBG, A Ramboll Company (Ramboll)

Project Status:

Design 50%

Contractor:

Undetermined

Construction Start:

Percent Complete:

2025

Completion:

2027

Total Budget:

\$8,130,000

Appropriated Funds:

\$583,497

**Project Description -** This project addresses the goal in our Strategic Plan for the eventual replacement of all asbestos-cement water mains in our system. The existing water mains are approximately 54 years old and have reached the end of their useful life. As a former well system that was connected to public water, most of the mains are also undersized.

9/7/2022: The VDOT Land Use Permit Application for the test holes and geotechnical borings has been received, and we are waiting on a schedule from F&R to complete this work.

### k) Hessian Hills Water Main Replacement (Account Code 1753):

Consultant:

Michael Baker International, Inc. (Baker)

**Project Status:** 

Construction

Percent Complete:

99%

Contractor:

Metra Industries, Inc. (Metra)

Construction Start:

April 2021

Completion: Total Budget:

August 2022 \$5,070,000

Appropriated Funds:

\$5,107,562

**Project Description -** The water mains in the Hessian Hills area are of a similar age and material as the water mains in the Barterbrook Phase 2 Project, plus they are in the same general area. By extension we are assuming their condition is similar with respect to tuberculation and they are also undersized throughout most of the subdivision. This project follows our Strategic Plan goal to replace aging and undersized water mains throughout our system. It will also eliminate a small amount of PVC main installed in the early 1980's.

8/8/2022: All pavement restoration work is complete and S.L. Williamson is currently working on VDOT's punch-list.

# I) Briarwood Water Main Replacement (Account Code 1766):

Consultant:

OBG, A Ramboll Company (Ramboll)

Project Status:

Design

Percent Complete:

50%

Contractor:

Undetermined

Construction Start: Completion:

2025 2026

Total Budget:

\$2,430,000

Appropriated Funds:

\$255,338

**Project Description -** Our Strategic Plan calls for the eventual replacement of PVC (pre-1990) water mains in our system, as they are older and made of weaker material than the current industry norm. This project will replace the PVC water mains that have been in service since the early 1980's. The design phase has been initiated and will carry over into FY 2023. Construction is expected to take place in FY 2025 and FY 2026.

5/10/2022: Comments on the 50% design documents have been returned to Ramboll for the preparation of the 90% design.

# m) Barracks West Water Main Replacement (Account Code 1796):

Consultant:

Dewberry Engineers, Inc. (Dewberry)

Project Status:

Design

Percent Complete:

50%

Contractor:

Undetermined

Construction Start:

2025

Completion:

2026

Total Budget:

\$3,385,000

Appropriated Funds:

\$209,335

**Project Description -** This project will replace the undersized and aging cast iron and galvanized water mains that were installed in the late 1960's. These water mains are original to the Old Salem Apartments development, now called Barracks West. This project follows our Strategic Plan goal to replace aging and undersized water mains throughout our system and will provide for an opportunity to improve fire protection to these multi-family apartments.

8/8/2022: A site meeting was held on August 3, 2022 with Dewberry to incorporate several alignment revisions in advance of sharing the plans with the property owner.

# n) Broadway Street Water Main Replacement (Account Code 1768):

Consultant:

Whitman, Requardt & Associates, Inc.

**Project Status:** 

Design

Percent Complete:

90%

Contractor:

Undetermined

Construction Start:

2023 2023

Completion: Total Budget:

\$792,800

Appropriated Funds:

\$99,820

Project Description - This project will replace the ductile iron water main that was installed in the early 1970's and has been found to be in

deteriorating condition based on recent excavations. With the redevelopment of the Woolen Mills Factory and Albemarle County's increased attention on economic revitalization of this corridor, replacement of this water main is crucial in transforming this area.

8/8/2022: 90% Design Documents have been received and they are currently under review by ACSA staff.

# o) Raintree and Fieldbrook Water Main Replacement (Account Code 1771):

Consultant: Michael Baker International, Inc. (Baker)

Project Status: Design Percent Complete: 0%

Contractor: Undetermined

Construction Start: 2027 Completion: 2028

Total Budget: \$5,947,300 Appropriated Funds: \$290,887

**Project Description -** Our Strategic Plan calls for the eventual replacement of PVC (pre-1990) water mains in our system, as they are older and made of weaker material than the current industry norm. This project will replace the PVC water mains that have been in service since the 1980's and will eliminate pipe saddles at the water service connections that have been failing due to corrosion.

9/7/2022: Baker has received the field survey information and is working on the 50% Design Documents.

# p) Pantops Drainage Basin Rehabilitation (Account Code 1824):

Consultant: O'Brien & Gere Engineers, Inc. (OBG)

Project Status: Construction

Percent Complete: 100%

Contractor: Prism Contractors & Engineers, Inc. (Prism) &

Linco, Inc. (Linco)

Construction Start: March 2021
Completion: August 2022
Total Budget: \$400,700
Appropriated Funds: \$515,056

**Project Description -** The wastewater flow metering in 2015 for the update of the RWSA sewer interceptor model has shown the Pantops Area is experiencing peak wet weather flows due to infiltration and inflow (I/I). This project will continue our efforts to maintain the integrity of our wastewater

collection system by reducing I/I. The sanitary sewer evaluation survey (SSES) will include the ACSA collection system east of the South Fork Rivanna River and north of I-64, including the Peter Jefferson Place Pump Station. The sanitary sewer evaluation survey (SSES) will consist of manhole inspections, sewer flow monitoring, smoke testing, night flow isolation and measurement, flooded dye testing and CCTV of sewer mains.

9/7/2022: Prism has completed all of the rehabilitation efforts for the Pantops Drainage Basin. This project will be removed from the CIP list.

### q) Hollymead Drainage Basin Rehabilitation (Account Code 1825):

Consultant:

O'Brien & Gere Engineers, Inc. (OBG)

**Project Status:** 

Construction

Percent Complete:

99%

Contractor:

Prism Contractors & Engineers, Inc. (Prism) &

Linco, Inc. (Linco)

Construction Start:

October 2021

Completion:

October 2022

Total Budget:

\$454,700

Appropriated Funds:

\$472,786

**Project Description -** ACSA staff has identified other large drainage basins to be evaluated for infiltration and inflow (I/I) to continue our efforts to maintain the integrity of our wastewater collection system. The study area includes the oldest portions of the Hollymead Subdivision, as well as, the offsite portion of the sewer main that serves the westernmost area of Forest Lakes South. The Forest Lakes Offsite Sewer will be the primary collector for the upcoming extensive Brookhill development and the evaluation of this trunk main will provide an excellent baseline of pipe integrity in advance of the future construction activities around this sewer.

9/7/2022: Prism has completed rehabilitation work on approximately 171 of 172 manholes.

# r) Airport Trunk Sewer Upgrade (Account Code 1828):

Consultant:

Michael Baker International, Inc. (Baker)

**Project Status:** 

Design

Percent Complete:

90%

Contractor:

Undetermined

Construction Start:

2026

Completion: Total Budget:

2028 \$5,908,800

Appropriated Funds:

\$378,459

**Project Description -** With the continued growth in the Hollymead Town Center area, the existing sewer collector serving the airport and the area west of Route 29 is in need of upgrading to handle full build-out. The existing sewer was originally sized to serve the light industrial zoning designated for that area at the time of construction. The increased density specified in the County Comprehensive Plan for the same drainage basin will exceed the capacity of the existing sewer. A study of the drainage basin was completed in 2016 with the recommendation the sewer main be increased in size by replacing it in place.

9/7/2022: ACSA staff continues to make efforts to obtain the necessary easements for construction of this replacement sewer. To date, 7 of 24 easements have been obtained.

### s) <u>Biscuit Run Sewer Replacement (Account Code 1830)</u>:

Consultant: OBG, A Ramboll Company (Ramboll)

Project Status: Design Percent Complete: 100%

Contractor: Linco, Inc. (Linco)

Construction Start: 2022 Completion: 2022 Total Budget: \$479,600 Appropriated Funds: \$84,916

**Project Description -** During a routine inspection the ACSA's Maintenance Department discovered an existing gravity main and manhole along an intermittent stream that drains into Biscuit Run had been exposed due to runoff. This project will replace the sewer segment that crosses the stream with ductile iron pipe and will reinforce the stream bank where the sewer manhole is exposed.

8/8/2022: Linco has received the final construction drawings and is currently preparing a fee proposal for the work. ACSA staff is still awaiting the approval of DEQ for the stream disturbance necessary for the project.

# t) FY 2021 Miscellaneous Sewer Rehabilitation (Account Code 1904):

Consultant: OBG, A Ramboll Company (Ramboll)

Project Status: Construction

Percent Complete: 85%

Contractor: Prism Contractors & Engineers, Inc. (Prism)

Construction Start: October 2020 Completion: September 2022

Total Budget: \$200,000

Appropriated Funds:

\$200,000

Project Description - This project continues our annual "find and fix" program of sanitary sewer rehabilitation to reduce I&I in our system. The ACSA made the decision to split our miscellaneous rehabilitation Contract Documents into separate contracts: one for repair and replacement work, and the other for trenchless pipe rehabilitation plus internal manhole rehabilitation. This contract will be utilized to perform trenchless rehabilitation, including sewer lining, segmental lining, top hats, internal point repairs and manhole rehabilitation that doesn't require excavation work, to correct problems in our system found with systematic CCTV inspection by ACSA crews. It will also be used to complete rehabilitation recommendations generated from the SSES's of larger drainage basins.

9/7/2022: The final manhole rehabilitation in Belvedere has been completed, which closes out Work Order No. 2. On Work Order No. 6, the two manholes along Berkmar Drive have been rehabilitated.

# u) <u>FY 2022 Miscellaneous Sewer Repair/Replacement (Account Code 1905)</u>:

Consultant:

OBG, A Ramboll Company (Ramboll)

Project Status:

Construction Underway

Percent Complete:

Linco, Inc. (Linco)

Contractor: Construction Start:

December 2021

Completion:

October 2022

Total Budget:

\$200,000

Appropriated Funds:

\$200,000

**Project Description** - This project continues our annual "find and fix" program of sanitary sewer rehabilitation to reduce I&I in our system. The ACSA made the decision to split our miscellaneous rehabilitation Contract Documents into separate contracts: one for repair and replacement work, and the other for trenchless pipe rehabilitation plus internal manhole rehabilitation. This contract will be utilized to make point repairs and undertake pipe replacement, which requires excavation work, to correct problems in our system found with systematic CCTV inspection by ACSA crews. It will also be used to complete rehabilitation recommendations generated from the SSES's of larger drainage basins.

7/12/2022: Linco has completed the point repair of a gravity sewer main near the Fontaine Research Park associated with Work Order No. 1. ACSA Maintenance has performed some easement clearing in Highlands to provide access for Linco to complete another sewer point repair.

# v) FY 2022 Miscellaneous Sewer Rehabilitation (Account Code 1906):

Consultant:

OBG, A Ramboll Company (Ramboll)

Project Status:

Construction

Percent Complete:

Underway

Contractor:

Prism Contractors & Engineers, Inc. (Prism)

Construction Start:

October 2021

Completion:

October 2022

Total Budget:

\$200,000

Appropriated Funds:

\$200,000

**Project Description -** This project continues our annual "find and fix" program of sanitary sewer rehabilitation to reduce I&I in our system. The ACSA made the decision to split our miscellaneous rehabilitation Contract Documents into separate contracts: one for repair and replacement work, and the other for trenchless pipe rehabilitation plus internal manhole rehabilitation. This contract will be utilized to perform trenchless rehabilitation, including sewer lining, segmental lining, top hats, internal point repairs and manhole rehabilitation that doesn't require excavation work, to correct problems in our system found with systematic CCTV inspection by ACSA crews. It will also be used to complete rehabilitation recommendations generated from the SSES's of larger drainage basins.

# 9/7/2022: One manhole behind ConAgra under Work Order No. 2 has been rehabilitated.

# w) Bellair - Liberty Hills Sewer (Account Code 1829):

Consultant:

Michael Baker International, Inc. (Baker)

Project Status:

Design

Percent Complete:

10%

Contractor:

Undetermined

Construction Start:

2025 2026

Completion: Total Budget:

\$3,493,715

Appropriated Funds:

\$380,295

**Project Description -** Over the past several years, there has been an uptick in residents of the Bellair Subdivision seeking to connect to public sanitary sewer service since most residents are currently served by private septic fields. In an effort to gauge community interest for such a project, ACSA staff mailed out a survey to the residents seeking feedback on their interest. Based on initial feedback received, a majority of the property owners are interested in connecting to public sewer if it was made available.

9/7/2022: Baker has received the field survey information and is working on the 50% Design Documents.

# Madison Park Pump Station Upgrade (Account Code 1735):

Consultant:

Whitman, Requardt & Associates, Inc. (WRA)

**Project Status:** 

Construction

Percent Complete:

0%

Contractor:

Anderson Construction, Inc. (ACI)

**Construction Start:** 

2022 2023

Completion:

\$1,550,000

Total Budget: Appropriated Funds:

\$2,003,831

Project Description - This wastewater pump station was constructed 33 years ago by private development and the original equipment is wearing down. In addition the building is undersized creating difficulty in performing routine maintenance and making it impossible to install the control panels necessary to include this pump station in our new SCADA System. A study to evaluate the best option for upgrading this pump station will be performed, followed by design and construction.

9/7/2022: The nearby developer has verbally agreed to reimburse the ACSA for the increased costs for the necessary upgrades. Upon receipt of the funds, a change order will be issued to ACI to incorporate these upgrades into the project.

# y) Sewer Pump Station Comminutors (Account Code 1827):

Consultant:

Whitman, Reguardt & Associates, Inc. (WRA)

**Project Status:** 

Construction

Percent Complete:

0%

Contractor:

East Coast Utility Contractors, Ltd. (ECUC)

**Construction Start:** 

2022 2023

Completion:

**Total Budget:** 

\$731,300

Appropriated Funds:

\$616,193

**Project Description -** Three sewer pump stations: Glenmore, Georgetown Green, and Crozet have all been experiencing higher than normal amounts of solid debris that have been causing undue wear and tear on our pumps, reducing their effective life. They have also been subjected to clogging from the fibrous cloth wipes that are marketed as flushable but do not break down in the sanitary sewer collection system. Maintenance identified the need to install comminutors (aka grinders) in the wet wells or just upstream of them, to eliminate these solids that are adversely impacting our pumps.

8/8/2022: ECUC has performed field visits to each of the sites to confirm equipment measurements and has placed the order for the grinders.

### z) Lewis Hill - West Leigh Water Connection (Account Code 1754):

Consultant:

ACSA Engineering Department

Project Status:

Design 95%

Percent Complete: Contractor:

ACSA Maintenance Department

Construction Start:

2022 2023

Completion: Total Budget:

\$80,900

Appropriated Funds:

\$7.125

Project Description - The existing PVC water main that serves as the primary connection between West Leigh Subdivision and Lewis Hill Subdivision is at risk for failure due to the encroachment of a nearby stream. The water main has been taken out of service to avoid a catastrophic failure and the resulting large volume of lost water. This project re-establishes the connection from West Leigh by taking advantage of the recent water main replacement along Sheffield Road with an 8" diameter pipe.

9/7/2022: A site meeting with the HOA was held on August 23, 2022 to discuss the preliminary design. ACSA staff is currently putting together a summary of the benefits of the interconnect to pass along to the HOA.

# aa) Huntington Village Water Connection (Account Code 1770):

Consultant:

ACSA Engineering Department

Project Status:

Design

Percent Complete:

50%

Contractor:

Undetermined

Construction Start: Completion:

2022 2022

Total Budget:

\$60,700

Appropriated Funds:

\$3,533

Project Description - The existing water main that serves as the only feed into Huntington Village off Old Ivy Road is at risk of failure due to an existing rock retaining wall that was constructed overtop of the water main. This project provides a second water connection into Huntington Village which is comprised of approximately 135 residential customers. It is anticipated all the work will be coordinated in-house by Maintenance Department personnel.

9/7/2022: ACSA staff are waiting on pricing for preparation of a Maintenance of Traffic (MOT) plan from a local traffic control contractor.

### bb) Briarwood Pump Station Generator (Account Code 1767):

Consultant:

ACSA Engineering Department

**Project Status:** 

Construction

Percent Complete:

60%

Contractor:

**ACSA Maintenance Department** 

Construction Start:

October 2021 August 2022

Completion: Total Budget:

\$54,100

Appropriated Funds:

\$54,100

**Project Description -** This wastewater pump station was constructed in 1995 by private development and didn't include a permanent generator. In an effort to reduce risk and increase resiliency at the station, Maintenance identified the need to install a generator at this site to avoid deployment of one of our portable generators.

9/7/2022: The new standby generator has arrived in Richmond and ACSA staff is waiting on a delivery date to the site. After installation, minor gate modifications may be required to address an issue identified by the County Building Inspector.

# cc) <u>Exclusion Meters Replacement (Account Code 1759)</u>:

Consultant:

ACSA Engineering Department

Project Status:

Construction

Percent Complete:

26%

Contractor:

ACSA Maintenance Department

Construction Start:

September 2019

Completion:

2024

Total Budget:

\$742,500

Appropriated Funds:

\$247,500

**Project Description -** In the mid 1990's with the development of Glenmore, many new customers installed irrigation systems for their properties and wanted to have their sewer bills reduced by the amount of water that was diverted to irrigate their properties. Private meters were installed behind their ACSA meter to record this volume and it was "excluded" from the calculation of their sewer charges and these became known as exclusion meters. On January 1, 2006 the ACSA Rules and Regulations were modified to no longer allow exclusion meters and required that all future

irrigation meters would be tapped separately off our water mains, to be owned and controlled by the ACSA. At that time the existing exclusion meters were grandfathered and allowed to stay in place unless the irrigation system was voluntarily abandoned. This project is a multi-year replacement program by our in-house CIP Crew to install dedicated, ACSA owned irrigation meters that will eliminate all remaining exclusion meters in our system.

8/8/2022: ACSA Maintenance is currently working on exclusion meters in the vicinity of Darby Road (west) in advance of Glenmore's repaving efforts scheduled for late October 2022. This new group totals 69 private exclusion meters. There are currently 364 exclusion meters remaining in our system.

#### dd) Woodbrook Force Main Replacement Project (Account Code 1826):

Consultant: ACSA Engineering Department

Project Status: Study Percent Complete: 100%

Contractor: Pure Technologies (Pure)

Construction Start: N/A

Completion: March 2020 (Study)

Total Budget: \$149,468 Appropriated Funds: \$228,745

**Project Description -** This project will address the ACSA's Strategic Plan to complete condition assessments on all sanitary sewer force mains at pump stations within the ACSA wastewater system. This project will utilize SmartBall and transient pressure monitoring technology to determine any problem areas that require correction or further detailed investigation. Following the Sewer Force Main Condition Assessment efforts, Pure Technologies recommended replacement of a portion of the Woodbrook Force Main due to thinning pipe wall conditions discovered.

8/8/2022: ACSA staff recently received a fee proposal from Ramboll for Design Phase Services, which was significantly higher than anticipated. ACSA staff will be meeting with Linco to determine if a GIS-based design would be acceptable as an alternative to a full design.

# ee) SCADA System Phase 3 (Account Code 1605):

Consultant: Whitman, Reguardt & Associates, Inc. (WRA)

Project Status: Design Percent Complete: 100%

Contractor: Undetermined

Construction Start: 2022 Completion: 2023 Total Budget:

\$943,115

Appropriated Funds:

\$324,472

Project Description - The ACSA Utility System has over 40 critical assets that include water and wastewater pump stations, water storage tanks and master PRV stations. They are considered critical because malfunctions or failures at any of the assets could have a drastic effect on our utility system and our customers. These assets are currently monitored by site visits of assigned Maintenance personnel. This project will create a Supervisory Control and Data Acquisition (SCADA) System that will allow ACSA employees to remotely monitor the operations of these critical assets from the main office building. It will also allow personnel to change the operational settings of some pump stations from the main office building. Using alarms, we will be able to more quickly evaluate problems and prevent some failures before they happen. The project will be completed in three phases over a three year period.

9/7/2022: ACSA staff has completed the competitive negotiation stage and is recommending award of the construction contract to M.C. Dean. A Board authorization is proposed for this project.

JML/jl 060806CIPMonthly090722

# Albemarle County Service Authority (ACSA)

# CIP Schedule Revisions September 2022

- 1. The design phase of the Energy Audit Project has been extended to October 2022 and the construction phase extended to June 2023.
- 2. The design phase of the Briarwood Water Main Replacement Project has been extended to February 2023.
- 3. The design phase of the Airport Trunk Sewer Upgrade Project has been extended to December 2022.

Capital Improvement Program	T	Percent	ГТ	2022	2023	2021	2021 2021	2021	2021	2021	2022	2022 2	2022 2	2022 20	22 2022	202	2 2022	2022	2022	2022	2022	2023	2023	2023	2023	2023	2023
Proposed Project Schedule Worksheet: September 2022	Acct. #		PM	Forecast	Forecast		Aug Sep														Dec						
Risk Assessment Improvements	1621	0%	AM	117,000	1 01 00 11 11	oury	ring sep	Ger	1101	Dec	Ollin	T C D	, in the second	TXPI IVI	ny ounc	our,	Tiug	Бер	Ott	1101	Dec	Oan	TCB	IVA	7xp1	iviay	ounc
Data Management and Dashboarding	1000	100%	1 22.12	,	20,000																						
Billing System Analysis and Replacement		100%			50,000	<u> </u>											1										
ESRI Utility Network Implementation		100%			50,000	1																					
Cityworks Operational Insights Impelmentation		100%			45,000		100											1									
Energy Audit	1625	0%	AM		40,000									75 A			1										
Avon Street Maintenance Yard	1622	100%	AM	60,000	3,750,000																						
ACSA Facilities - Security System Upgrade		100%		-	158,000	10												1									
AMI Implementation	1620	15%	PG	5,000,000																							
Four-Story Backflow Prevention Assembly Retrofit	1765	0%	AM															-									
Scottsville Phase 4 Water Main Replacement	1758	0%	AM		100,000					E S																	
Crozet Phase 4 Water Main Replacement	1756	0%	JL		1,412,050																						
Ragged Mountain Phase 1 Water Main Replacement	1760	0%	JL		417,000													-									
Jefferson Village Water Main Replacement	1747	0%	RN	262,300																							
Northfields Water Main Replacement	1764	0%	RN																								
Hessian Hills Water Main Replacement	1753	0%	JL	3,456,675																							
Briarwood Water Main Replacement	1766	0%	JW																								
Barracks West Water Main Replacement	1796	0%	JW	452,500																							
Townwood Water Main Replacement		0%			170,000																						
Broadway Street Water Main Replacement	1768	0%	RN		650,000																						A .
Raintree and Fieldbrook PVC Water Main Replacement	1771	0%	几	432,300																							
Pantops Drainage Basin Rehabilitation	1824	0%	RN																								
Hollymead Drainage Basin Rehabilitation	1825	0%	RN																						<		
Airport Trunk Sewer Upgrade	1828	100%	几		115,000																						
Northfields Phase 5 Sewer		100%	RN		70,000																						
Biscuit Run Sewer Replacement	1830	0%	RN	206,000	206,000																						
FY 2021 Miscellaneous Sewer Rehabilitation	1904	0%	几						SH										1								
FY 2022 Miscellaneous Sewer Repair/Replacement	1905	0%	JL	200,000						(F) (1)					T. 1849											2 1	3
FY 2022 Miscellaneous Sewer Rehabilitation	1906	0%	JL	200,000																							
FY 2023 Miscellaneous Sewer Repair/Replacement	1905	0%	几		200,000			+																			
FY 2023 Miscellaneous Sewer Rehabilitation	1906	0%	几		200,000																						
Oak Forest Pump Station Abandonment	1807	0%	JL	· · · · · · · · · · · · · · · · · · ·																							
Bellair - Liberty Hills Sewer	1829	100%	JL	80,515																							
Madison Office Park Pump Station Upgrade	1735	0%	JL	123,875	425,000																						
Sewer Pump Station Comminutors	1827	0%	RN	291,300																							
Lewis Hill - West Leigh Water Connection	1754	0%	RN																								
Parkview Drive Water Connection		0%																									
Huntington Village Water Connection	1770	0%	RN																								
Briarwood Pump Station Generator	1767	0%	AM																								
Exclusion Meters Replacement	1759	0%	JL																								
Pipe Saddles Replacement	1763	0%																									
SCADA System Phase 3	1605	100%	AM	186,800																							
Developer Participation		100%	+	100,000	100,000													-					$\longrightarrow$				
Total Capital Projects to be appropriated in the Fiscal Year	-	-		¢ 11 160 265	¢ 0 170 050	20		-										-			<del></del>		$\longrightarrow$				
Total Capital Flojects to be appropriated in the Fiscal Year				\$ 11,169,265	φ 0,1/8,030	TEA																					

In house construction

Engineering

Construction

# Albemarle County Service Authority (ACSA) Active Private Development Projects September 2022

- a. <u>Albemarle Business Campus Block 1 (Scottsville)</u>: Water and sewer main extension to serve 128 multi-family units. The site is located to the northeast of the Old Lynchburg Road and Country Green Road intersection.
- **b.** Albemarle Business Campus Block 5 (Scottsville): Water and sewer main extension to serve a storage facility and retail spaces between Old Lynchburg Road and Wahoo Way.
- c. Ashcroft Phase 2 Sections 6 & 7 (Rivanna): Water main extension to serve 14 residences. The project is located at the upper end of Summit Ridge Trail.
- **d.** Berkmar Drive Apartments (Rio): Water and sewer main extensions to serve 10 apartment buildings, totaling 261 units. The project is located along Berkmar Drive, south of the Forest Springs Mobile Home Park.
- e. <u>Boys and Girls Club Drivers Ed Site (Jack Jouett)</u>: Water main extension to serve a new Boys and Girls Club. The project is located southeast of Jack Jouett Middle School.
- f. <u>Brookhill Blocks 9-11 (Rivanna)</u>: Water and sewer main extension to serve 85 single family homes in the Brookhill subdivision, located east of Stella Lane between Ashwood Blouvard and Archer Avenue.
- g. <u>Brookhill Blocks 16 & 17 (Rivanna)</u>: Water and sewer main extensions to serve 135 single family homes in the Brookhill subdivision, located north of Polo Grounds Road and East of the Montgomery Ridge Subdivision.
- h. Flow Automotive 1300 Richmond Road (Rivanna): Water main extension to provide water service and fire protection to a new/renovated car dealership. This project is located along Richmond Road, across from People Place.
- i. Galaxie Farm Subdivision (Scottsville): Water and sewer main extension to serve 65 residential units. This project is located along Scottsville Road, south of Mountain View Elementary.
- j. <u>Georgetown Hydraulic (Jack Jouett)</u>: Water main extension to serve a commercial office building at the intersection of Georgetown Road and Hydraulic Road.

- k. Glenbrook at Foothills Phase 3 (White Hall): Water and sewer main extensions to serve 120 residential units between the Parkside Village and Glenbrook at Foothills subdivisions along Park Ridge Drive.
- I. Old Trail Village Block 7C (White Hall): Water and sewer main extensions to serve 30 residential units. This project is located along Old Trail Drive near Golf View Drive.
- m. <u>Pleasant Green Phase 2 (white Hall)</u>: Water and sewer main extensions to serve 134 residential units. This project is located to the southeast of the Orchard Acres subdivision.
- n. <u>Proffit Road Townhomes South (Rivanna)</u>: Water and sewer main extension to serve 31 town home units. This project is located along Proffit Road, south of Martha Jefferson Outpatient Care Center.
- o. <u>PVCC Advanced Technical Training Center (Scottsville)</u>: Water main extension to serve new building on PVCC campus off College Drive.
- p. Regents School of Charlottesville (Samuel Miller): Water and sewer main extension to serve a private school, grades K-12. The site is located west of Trinity Presbyterian Church, along Reservoir Road.
- **q.** Rivanna Station Nicholson Building Addition (Rivanna): Water main extension to serve an expansion of the Nicholson Building and a parking garage at NGIC, located east Route 29 and south of Boulders Road.
- r. Rivanna Village Phase 2 (Scottsville): Water and sewer main extensions to serve 178 residential units. This project is located east of the Glenmore Ground Storage Tank and Rivanna Village Phase 1.
- **s.** Southwood Phase 1 Blocks 9-11 (Scottsville): Water and sewer main extensions to serve 70 single family units and 16 condominium units. This project is located west of Horizon Road and south of Hickory Street.
- t. <u>Stonefield Block D1 (Jack Jouett)</u>: Water main extension to serve a 220 unit apartment building at the intersection of Inglewood Drive and Bond Street.
- u. <u>Umansky Subaru of Charlottesville Major Amendment (Rio)</u>: Water main relocation to facilitate the proposed building expansion of the Umansky Subaru. The project is located to the east of Walmart, along Hilton Heights Road.

v. White Gables Major Amendment (Samuel Miller): Water main extension to serve three multi-family condominium buildings, with 30 units each. This site is located to the east of the existing White Gables neighborhood along Old Ivy Road.

JML/jl 0506 Active Private Development Projects 090722

#### AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: FY 2023 CIP Authorizations  STAFF CONTACT(S)/PREPARER: Jeremy M. Lynn, P.E., Director of Engineering	AGENDA DATE: September 15, 2022		
	ACTION: INFORMATION:		
	CONSENT AGENDA:		
	ACTION: INFORMATION:		
	ATTACHMENTS: (YES)		

**BACKGROUND:** Authorization for three CIP Projects, all of which have been included in the CIP Rate Model Budget. The first authorization is the award and funding of the construction of the Security Improvements – Priority One Project. The second authorization is the award and funding of the construction of the SCADA System Project – Phase 3. The third authorization is the funding to cover contract development and bid phase services for the On-Call Sanitary Sewer Repair/Rehabilitation Project.

#### **DISCUSSION:**

- Initiates construction of the priority items identified in the ACSA's Vulnerability Assessment.
- ❖ Initiates construction of the final phase of the SCADA System Project.
- Provides ACSA staff with the professional expertise of our term contract consultant during contract development and bid phase services of the On-Call Sanitary Sewer Repair/Rehabilitation Project.
- Continues the efforts of our "Find & Fix Program" to reduce I&I throughout our sanitary sewer system.

**BUDGET IMPACT:** The cost of the Security Improvements – Priority One Project are \$194,000 more than anticipated in the CIP Rate Model, however this should be offset by cost savings on other CIP projects. The cost of the SCADA System Phase 3 Project will be within the amount budgeted in the CIP Rate Model. The cost of contract development and bid phase services for the On-Call Sanitary Sewer Repair/Rehabilitation Project will be within the amount budgeted for under Miscellaneous Sewer Rehabilitation.

**RECOMMENDATIONS:** Authorize funding for these projects to keep our CIP Project Schedule moving forward and improving our utility system.

**BOARD ACTION REQUESTED:** Approve the Consent Agenda.

#### **AGENDA ITEM EXECUTIVE SUMMARY**

#### **ATTACHMENTS:**

- ❖ Detailed memo of the proposed CIP authorizations.
- \* Recommendation of award prepared by Dewberry Engineers Inc. for the Security Improvements Priority One Project.
- \* Recommendation of award prepared by Whitman, Requardt & Associates, LLP for the SCADA System Project Phase 3.
- Proposal prepared by Ramboll for contract document development and bid phase services on the On-Call Sanitary Sewer Repair/Rehabilitation Project.



# MEMORANDUM

To: Board of Directors

From: Jeremy M. Lynn, P.E., Director of Engineering

Date: September 15, 2022

Re: FY 2023 CIP Authorizations

cc: James M. Bowling, IV

The following projects require Board authorization:

A. <u>Security Improvements – Priority One Project</u>: On July 1, 2022, the ACSA accepted bids for the Security Improvements – Priority One Project. One (1) contractor, Harrisonburg Construction Company Inc., submitted a bid of \$311,000 on the project. Attached is a letter dated August 31, 2022, from Dewberry Engineers, Inc. recommending award of the contract to Harrisonburg Construction Co., Inc. for their bid of \$311,000. The ACSA staff concurs with Dewberry's recommendation.

#### **Board Action**

We request the Board of Directors appropriate \$311,000 from the FY 2023 3R Fund for the construction of the Security Improvements – Priority One Project.

B. SCADA System Project - Phase 3: On May 13, 2022, the ACSA accepted proposals for Phase 3 of our SCADA System Project. One (1) control systems integrator (CSI), M.C. Dean, submitted a proposal for the project. The proposal was evaluated and determined to meet the required elements as specified in the request for proposals. The negotiated price is \$900,446. The Engineer's Estimate was \$950,130. Attached is a letter, dated August 30, 2022, from Whitman, Requardt and Associates, LLP (WRA) recommending award of the contract to MC Dean for their proposed fee of \$900,446. The ACSA staff concurs with WRA's recommendation.

#### **Board Action**

We request the Board of Directors appropriate \$900,446 from the FY 2023 3R Fund for the construction of the SCADA System Project – Phase 3.

C. On-Call Sanitary Sewer Repair/Rehabilitation Project: The current ACSA On-Call Sewer Rehabilitation and Replacement contracts have reached the maximum number of times they can be renewed and will end in October 2022. Ramboll has prepared the attached proposal letter, dated August 30, 2022, to update the Sewer Repair and Rehabilitation contract documents and bid phase services. The ACSA staff has reviewed this proposal and finds it satisfactory. The cost for updating the contract documents and providing bid phase services is \$33,000.

#### **Board Action**

We request the Board of Directors appropriate \$33,000 from the FY 2023 3R Fund for the On-Call Sanitary Sewer Repair/Rehabilitation Project.

JML/jml Attachments 010101CIPAuthorizations091522



Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060 804.290.7957 804.290.7928 fax www.dewberry.com

August 31, 2022

Mr. Alexander J. Morrison, P.E. Senior Civil Engineer Albemarle County Service Authority 168 Spotnap Road Charlottesville, Virginia 22911

RE:

Security Improvements – Priority One Project Bid Evaluation and Recommendation

Dear Mr. Morrison:

Dewberry has reviewed the bids received on July 1, 2022 for the above-referenced project. Our review indicates that the lowest, responsive and responsible bidder is:

Harrisonburg Construction Co., Inc. 1518 Viola Way Charlottesville, VA 22902

Total Bid Amount: \$311,000.00

Based upon our review, we recommend that a contract be awarded to Harrisonburg Construction Co., Inc. for the Total Bid Amount shown above.

The above bid was the only bid received for the project. In our opinion, this was due to two main factors. One is that the nature of the project, with diverse improvements at several facilities, may have limited the number of capable bidders. The second factor is that contractors have been, and continue to be, extremely busy as a whole. That factor, as well as inflation and high volatility of supply prices, served to drive the price of this project well above the estimated project cost. Dewberry investigated some value engineering options, which will result in a slight reduction to the project cost. We don't anticipate that re-bidding the project would result in significantly lower bids and/or more bidders.

Should you have any questions or require additional information, please feel free to contact me at (804) 205-3338 or by email at kpennock@dewberry.com.

Sincerely,

**Dewberry Engineers Inc.** 

Kevin A. Pennock P.E.

Associate, Senior Project Manager

**Enclosures** 

 $P:\ACSA15\S0119299\Construction\Construction\Contract\2022.08.22\ ACSA\ Priority\ One-Award\ Recommendation. docx and the property of the pr$ 



# Whitman, Requardt & Associates, LLP

Engineers · Architects · Environmental Planners

Est. 1915

August 30, 2022

Mr. Alexander Morrison Senior Civil Engineer Albemarle County Service Authority 168 Spotnap Road Charlottesville, Virginia 22911

Re:

SCADA Implementation Project - Phase 3

Recommendation of Project Award

Dear Mr. Morrison:

The intent of this letter is to complement the letter issued by WRA, dated June 2, 2022, regarding review of the received responses to Request for Proposal (RFP) No. 1605-3 for the referenced project. The June 2, 2022 letter summarized the review of received bids and recommended that competitive negotiations begin with M.C. Dean (MCD).

## Competitive Negotiation Summary

Following the issuance of the June 2, 2022 letter, the ACSA and WRA began competitive negotiations with MCD. The ACSA and WRA identified modifications to the project's scope of work for consideration by MCD. The modifications were outlined in a WRA memorandum, dated July 14, 2022, and transmitted to MCD. The memorandum is included as Attachment A.

The ACSA and WRA held a virtual meeting with MCD on July 21, 2022, to discuss the July 14, 2022 memorandum and project scope modifications. The meeting and discussion of the project scope modifications resulted in additional action items and cost reduction considerations for MCD. The additional cost reduction considerations are summarized as follows:

- 1. Finalize the mechanical and remaining costs for the Fontana and Camelot PRVs and submit the cost differences from what was bid.
- 2. Provide breakdown of mechanical costs at each facility.
- 3. Provide installation costs of doghouse manholes at all 5 required PRV locations that were excluded from the bid response.
- 4. Confirm electrical subcontract costs at all installations and provide price reductions where appropriate or applicable.
- 5. Identify additional risks and associated contingencies included in submitted bid price for possible risk reduction review.
- 6. Provide VE considerations following further review of Camelot or other PRV locations. Coordinate field review with the ACSA.

The additional cost reduction considerations were provided and clarified through email correspondence with MCD, through July 25, 2022. Since the July 21, 2022 meeting and follow up communications, MCD has provided responses to the ACSA for the project scope modifications and the additional cost reduction considerations.

The most recent cost review and response from MCD is dated August 25, 2022, and is included as Attachment B. The August 25, 2022, response from MCD specifically addresses the follow up action items and additional cost reduction considerations outlined above. The response also includes an updated summary of cost adjustments for the project as offered by MCD, along with future consideration of value engineering options following the completion of all required facility surveys and field reviews to be performed at the beginning of the construction phase.

9030 Stony Point Parkway, Suite 220

Richmond, Virginia 23235

The competitive negotiations with MCD resulted in an overall cost reduction of \$54,587 (5.7%), with the adjusted contract value reduced to \$900,446.60 by MCD. The corrected, adjusted contract value is \$900,446 due to the corrected bid price of \$955,033, summarized in the June 2, 2022 bid review letter.

#### Award Recommendation

With the completion of a successful competitive negotiation process and a cost reduction of 5.7%, it is WRA's understanding that the adjusted contract value of \$900,446 is within the ACSA's budget. The adjusted contract value is also below WRA's final construction cost estimate of \$950,130.

Based on the results of the competitive negotiation process, it is WRA's recommendation that the project proceeds to the construction phase, with MCD being awarded the project for the adjusted contract price of \$900,446.

WRA looks forward to working with the ACSA and MCD throughout the construction phase and through final completion of this important ACSA project.

Very truly yours,

Whitman, Requardt and Associates, LLP

Charles Luck, P.E.

Vice President

CC:

Jeremy Lynn – ACSA Greg Horn – WRA File 46480-020



Attachment A

**Project Scope Modifications Memorandum** 



# Whitman, Requardt & Associates, LLP

Engineers · Architects · Environmental Planners

# **MEMORANDUM**

Date: 07-14-2022

To: Alex Morrison From: Greg Horn

Subject: Scope of Work Changes

Work Order Number: 46480.020

Project: SCADA Implementation Project Phase 3

CC: Charles Luck, Howard Anby

#### 1. Fontana and Camelot PRV's:

- a. The "doghouse" manhole and insertion flow meters shown on the plans for these sites will not be installed. In lieu of these items, install a Cla-Val XP2F Flow Monitoring Kit with 4-20mA output on the existing 8" Cla-Valves in both PRV vaults.
- b. Install a 2" Sensus OMNI+ T2 Water Meter with pulse output electronic register and strainer on each of the 2" domestic water flow lines in both PRV vaults. Install the water meters between the existing 2" Cla-valves and the existing ½" turn brass shut off valves. Note that the existing 2" piping will need to be reworked to accommodate the new meters. Pulse output signals from the water meters shall be connected to PLC discrete inputs.
- c. Provide an adjusted unit cost reflecting paragraphs a and b above.

#### 2. Woodlands and Forest Lakes PRV's:

- a. Provide normally closed (energize to open) solenoid control pilot kits on all 2" PRV's at these sites only.
- b. All other sites (less what is noted in 3B) will be normally open (energize to close) solenoid control pilot kits on the 2" PRV's.

#### 3. Ashcroft Lower PRV:

- a. This site does not require an electrical service, freestanding outdoor electrical enclosure, PLC, OIT and associated panel hardware and components and a timber rail fence is required in lieu of bollards. Also, the two pressure transmitters and hatch intrusion switch are existing.
- b. The requirement for the installation of solenoid control and repair kits as well as valve position limit switches for the 2" inch PRV's is waived for this site only.
- c. Provide an adjusted unit cost reflecting paragraphs a and b above.

## 4. RFP Summary Fee Form:

a. Item #6 description is listed as Four Seasons PRV Vault. Confirm that item #6 description should be listed as Glenmore PRV Vault.

801 South Caroline Street

Baltimore, Maryland 21231

Attachment B

MCD August 25, 2022 Cost Review Response





(703) 802-6231

3014 Mudpike Road Christiansburg, VA 24068 (540) 585-4255 (540) 381-5731 1580 CF Pours Drive arrisonburg, VA 22802 (540) 442-6270 (540) 442-1689 2315 Silverdale Drive Johnson City, TN 37601 Phone: (423) 283-7541 FAX: (423) 282-0560

10100 Nokesville Road Manassas, VA 20110 (703) 296-1068 (703) 361

425 Southlake Boulevard, Suite 2B Richmond, VA 23236 (804) 378-0368 (804) 378-0368

August 25, 2022

Alexander Morrison PE Senior Civil Engineer Albemarle County Service Authority 168 Spotnap Road Charlottesville, VA 22911

Subject: SCADA Implementation Phase 3 - Response to Action Items for M.C. Dean from ACSA meeting.

Dear Mr. Morrison:

On behalf of M.C. Dean, I would like thank you for the opportunity to let us respond to your inquires and action Items listed below, dated July 25, 2022.

1. Finalize the mechanical and remaining costs for the Fontana and Camelot PRVs and submit the cost differences from what was bid.

MCD Response: Based on our previous conversations and the information gained from our final site visit, additional questions and concerns remain about the installation at these sites. As a result, M.C. Dean has not provided any adjustment of cost for this item at this moment in alignment with your EMAIL of Tuesday 7/26/2022 at 11:53 AM.

2. Provide breakdown of mechanical costs at each facility.

MCD Response: After a complete review from our internal Mechanical Installation team, the mechanical cost for each of the sites remains at \$16,293.59.

3. Provide installation costs of doghouse manholes at all 5 required PRV locations that were excluded from the bid response.

MCD Response: After a complete review with our internal Mechanical Installation team, the total estimated cost for all 5 required PRV location is \$33,168 or \$6,633 per site with the following considerations and notes:

- All trenching/Digging will be performed with a standard excavator.
- Hydro excavation is not included in this estimate.

#### NOTES:

- a. Hydro Excavation is sometimes required when digging/trenching is performed within 10' of a live
- b. Hydro Excavation cost ranges from \$ 2500-\$ 3500/day plus Labor and other related cost.
- c. M.C. Dean suggests a full follow-up site review of exact trenching location and adjust costs as a change order after contract award.
- 4. Confirm electrical subcontract costs at all installations and provide price reductions where appropriate or applicable.

MCD Response: After a complete review by our internal Electrical installation team, there will be a Total Price Reduction for all Sites of \$19,648 or \$ 2456 price reduction per site.

Identify additional risks and associated contingencies included in submitted bid price for possible risk reduction review.

MCD Response: After a complete review from our Controls & Instrumentation, Mechanical, and Electrical resources, no excess contingencies or unmitigated risks not specifically called out herein were identified. As such, the line item costs will remain unchanged.

6. Provide VE considerations following further review of Camelot or other PRV locations. Coordinate field review with the ACSA.

MCD Response: After a complete review from our internal mechanical installation team, M.C. Dean still has concerns about the installation of the planned flow meters at these locations. After contract award, we will work with Albemarle County to complete full site surveys and analysis at all locations to determine the best Value Engineering approach to this challenge.

As a result of the above responses, please see our updated Summary of Costs below:

ITEM	PUMP STATION/PRV	Old Budget	Adjustment	New Budget	
1	Northfields PS	\$125,119.41		\$122,663	
	Doghouse Manholes		\$ -		
	Electrical Contractor		\$ (2,456.00)		
2	Woodlands PRV	\$115,768.13		\$ 119,945.13	
	Doghouse Manholes		\$ 6,633.00		
	Electrical Contractor		\$ (2,456.00)		
3	lw PRV	\$115,768.13		\$ 119,945.13	
	Doghouse Manholes		\$ 6,633.00		
	Electrical Contractor		\$ (2,456.00)		
4	Camelot PRV	\$115,768.13		\$ 113,312.13	
	Doghouse Manholes		\$ -		
	Electrical Contractor		\$ (2,456.00)		
5	Forest Lakes North PRV	\$116,500.70		\$ 120,677.70	
	Doghouse Manholes		\$ 6,633.00		
	Electrical Contractor		\$ (2,456.00)		
6	Glenmore PRV	\$116,500.70		\$ 120,677.70	
	Doghouse Manholes		\$ 6,633.00		
	Electrical Contractor		\$ (2,456.00)		
7	Fontana PRV	\$116,500.70		\$ 114,044.70	
	Doghouse Manholes		\$ -		
	Electrical Contractor		\$ (2,456.00)		
8	Ashcroft Lower PRV	\$116,500.70		\$52,573.70	
	Descope Labor		\$ (19,910.00)		
	Descope Material		\$ (20,570.00)		
	Descope Equiment		\$ (597.00)		
	Descope Subconractors		\$ (22,850.00)		
9	Contingency Item	\$16,607.00	0	\$ 16,607.00	
RAND	TOTAL	\$955,033.60	\$ (54,587.00)	\$ 900,446.60	

All of us at M.C. Dean appreciate the opportunity to explore these questions with you in an open and collaborative manner. Our entire team is excited at working with Albemarle County again on the next phase of their improvements program. If you have any further questions or concers, please do not hesitate to contact me via phone or email

Regards,

Erick Quint

Project Leader

Erick.Quint@mcdean.com

571-355-5489





Mr. Richard Nelson Civil Engineer Albemarle County Service Authority 168 Spotnap Road Charlottesville, VA 22911

# Response to RFP for Miscellaneous Sewer Repair/Rehabilitation Contracts – Development of Contract Documents

Date August 30, 2022

Dear Richard,

As requested, please find attached Ramboll's proposed fee estimate and scope for the subject project. These documents were developed based upon previous work performed by Ramboll as well as subsequent discussions with ACSA personnel. The following clarifications and assumptions were made in development of this fee:

#### **SCOPE - CLARIFICATIONS AND ASSUMPTIONS**

#### **GENERAL**

- Existing bid documents (developed for the 2019 contract) will be utilized as the basis for the bid documents provided under this contract.
- Ramboll will update two (2) separate project manuals for the purpose of bidding one Replacement Contract and one Rehabilitation (trenchless) Contract.
- · Ramboll will prepare for and attend two separate prebid meetings.
- Ramboll will review bids received and provide a letter of recommendation for each contract.
- The project is generally divided into the following distinct tasks:
  - Task 1 Project Initiation
  - Task 2 Review Existing Information
  - Task 3 Update/Develop Bid Documents
  - Task 4 Bid Phase Services

#### TASK 1 - PROJECT INITIATION

A project kick-off meeting will be held to review the project scope, schedule
and objectives as well as to discuss ACSA preferences for bid items to include
and technical specifications to develop. Communication points of contact and

Ramboll 4435 Waterfront Drive Suite 205 Glen Allen, VA 23060 USA

T 804-822-4200 F 804-270-5808 https://ramboll.com

# RAMBOLL

reporting protocols will be established to ensure the timely exchange of project information. The kick-off meeting will also serve as a means to obtain relevant existing information available for review during the following task, including the following:

- Current construction contract overview of items under each contract;
- · History of usage (i.e. quantity of each bid item used annually);
- ACSA General Water and Sewer Specifications updates (upcoming modifications to be incorporated);
- · ACSA standard front-end documents.

#### TASK 2 - REVIEW EXISTING INFORMATION

- A review of the information referenced above will be performed. The primary purpose of this task
  will be to identify/confirm specific bid items that will be included in the Bid Documents as well as
  technical specifications that will be developed to supplement the ACSA General Water and Sewer
  Specifications.
- Ramboll will review the identified bid items against the ACSA standards to determine where technical specifications are required.
- Ramboll will review the previous contract as well as ACSA historical use of the contract to develop proposed quantities to be included in the Bid Form.
- Upon completion of this task, Ramboll will provide ACSA with the proposed Bid Form (including proposed quantities) as well as a list of proposed technical specifications. Upon receipt of comments/agreement from ACSA on the information provided, Ramboll will begin work on developing the required bid documents (Task 3, detailed below)

#### **TASK 3 - DEVELOP BID DOCUMENTS**

- Ramboll will prepare 90% complete and Final Bid Document Submittals consisting of Contract Specifications (Front-end documents and Technical Specifications) for ACSA's open-ended sanitary sewer rehabilitation and replacement contracts.
- Ramboll will annotate the ACSA standard front-end documents as required and will prepare technical specifications for items to be included in the bid form.
- · Ramboll will utilize previously developed contracts as a basis for items to include.
- The technical specifications will be prepared in CSI/Masterformat, will detail the requirements for the installation and rehabilitation of pipelines and miscellaneous items and will be thoroughly coordinated with the ACSA General Water and Sewer Specifications and standard details.
- For the purpose of this proposal it is assumed that Ramboll will submit 2 hard copies and 1 electronic copy of each 90% submittal (2 contracts) as well as 2 hard copies and 1 electronic copy of each Final Bid Ready Submittal (2 contracts); it is assumed that contractor copies will be distributed electronically.

#### TASK 4 -BID PHASE SERVICES

- Ramboll will provide Bid Phase Services for both contracts.
- · Ramboll will prepare for and attend 2 prebid meetings.
- Ramboll will issue 2 addenda (one for each contract)
- Ramboll will review bids received and provide recommendation of award for each contract.
- · Attendance at the bid opening is not included.

# RAMBOLL

We propose to perform this work under the terms and conditions of our Annual Services Contract. The fee for services as set forth and described above shall be calculated on the basis of Ramboll's 2022 Hourly Billing Rate sheet for employees by job category as set forth in the contract fee schedule, plus reimbursable expenses at cost. The estimated not to exceed budget is \$33,000. Project costs will be tracked and invoiced monthly on a time-and-materials basis.

Upon your review, please contact me at your convenience with any questions or comments. We look forward to continuing our successful working relationship with you and the Authority on this project.

Yours sincerely,

Ramboll

Robert E. Bell, Jr.

Vice President Water

2022 Sanitary Sewer Rehabilitation Contract - 2 CONTRACTS Albemarle County Service Authority

		LABO	OR CLASSIFICA	TIONS				COST PER
	Officer 2	Project Manager 2	Engineer 3	Eng Tech 3 (Drafter)	Admin, Assist, 2	TOTAL	DIRECT EXPENSES	TASK
	\$240	\$210	\$182	\$131	\$91			
TASK	(HRS)	(HRS)	(HRS)	(HRS)	(HRS)	(HRS)	(\$)	(\$)
PROJECT INITIATION								
Project Initiation/Review Existing Information	2	6	12	0	2	22		\$4,106.00
SUB-TOTAL	2	6	12	0 .	2	22	\$120.00	\$4,226.00
DEVELOP AND SUBMIT 90% PROJECT MANUAL								
Jpdate Front End Documents	0	4	8	0	8	20		\$3,024.00
Jpdate Bid Tab	0	4	6	0	0	10		\$1,932.00
Jpdate Technical Specification Sections	. 2	4	_ 8	0	6	20		\$3,322.00
Jpdate Project Details/Drawings	0	2	4	4	. 0	10		\$1,672.00
Develop Bid Documents	2	2	8	2	6	20_		\$3,164.00
SUB-TOTAL	4	16	34	6	20	80	\$185.00	\$13,299.00
DEVELOP AND SUBMIT FINAL PROJECT MANUAL					,			
Address Comments from ACSA	1	4	6	2	4	17		\$2,798.00
Develop Final Bid Documents	1	2	4	, 0	4	11		\$1,752.00
SUB-TOTAL	2	6	10	2	8	28	\$215.00	\$4,765.00
BID PHASE SERVICES								
Preparation for and attendance at 2 prebid meetings	0	12	8	2	0	22		\$4,238.00
ssue addenda, as required	. 2	4	8	0	2	16		\$2,958.00
Review bids received and provide recommendation of award	2	4	10	0	2	18		\$3,322.00
SUB-TOTAL	4	20	26	2	4	56	\$190.00	\$10,708.00

TOTALS 186 \$710,00 \$32,998.00

#### AGENDA ITEM EXECUTIVE SUMMARY

#### **CONSENT AGENDA**

**AGENDA TITLE:** Air Relief Valves

AGENDA DATE: September 15, 2022

**STAFF CONTACT(S)/PREPARER:** 

**ACTION: None** 

Roland Bega & Weasel Roach

**ATTACHMENTS**: Yes

**BACKGROUND:** Air release valves are an important part of a water system. The ARVs will discharge air from a non-pressurized pipe enabling the efficient filling of the pipeline and continuously releasing air from a pressurized environment. This prevents the build up of air pockets within the pipeline and admits large amounts of air into the system when vacuum conditions could cause possible collapse.

**DISCUSSION:** Air relief valves protect the pipeline and maintain its efficiency. These valves are perfect for venting large quantities of air when filling water lines. They can also allow air back into the system when emptying a water line. This is important because some pipe or tanks can collapse under negative pressure which is known as air lock. An air lock is a restriction or complete stoppage of water flow caused by vapor trapped in a high point within the distribution system. The air relief valve must be sized properly to function properly.

Water pipelines and sewer force mains are common areas to find ARVs. There are 296 ARVs in the Service Authority system.

As air accumulates at high points in the system, a line restriction can occur and cause pressure surges or water hammers. This can cause pipes to burst from pressure or cause pump failure.

ARV valves are installed at the highest points in a pipeline where air naturally collects. Air bubbles enter the valve and displace the liquid inside, lowering the liquid level. When the level drops to where it no longer buoys the float, the float drops, this motion pulls the seat away from the orifice triggering the valve to open and vent the accumulated air into the atmosphere (Attachment 1).

Air Control is important for four reasons:

- 1. Corrosion Prevention (Air Discharge)
- 2. Increasing System Efficiency (Air Discharge)
- 3. Hydraulic Protection (Air Intake & Discharge)
- 4. Contamination Prevention (Air Intake)

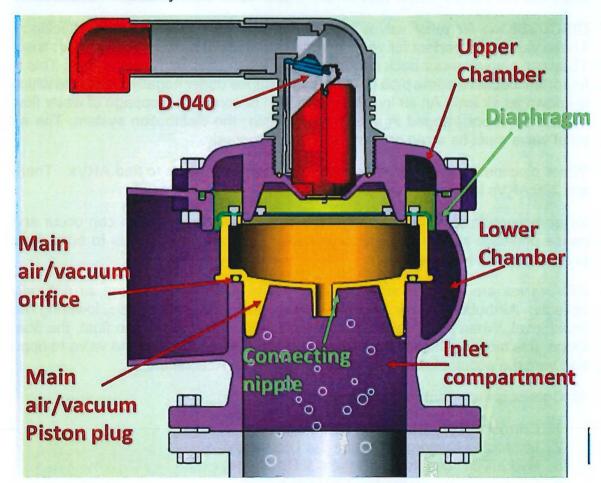
There are three basic types of ARV: Air-Release, Air/Vacuum and Combination Air Valves for water and sewer service. Additionally, there are different types of Air Relief Valves for water(Attachment 2) and sewer (Attachment 3

Per health department regulations, The Maintenance Department Uses Cityworks to inspect ARVs annually (Attachment 4).

**BOARD ACTION REQUESTED: None** 

#### **ATTACHMENTS:**

Attachment 1 Cutaway View of an ARV



# AGENDA ITEM EXECUTIVE SUMMARY CONSENT AGENDA

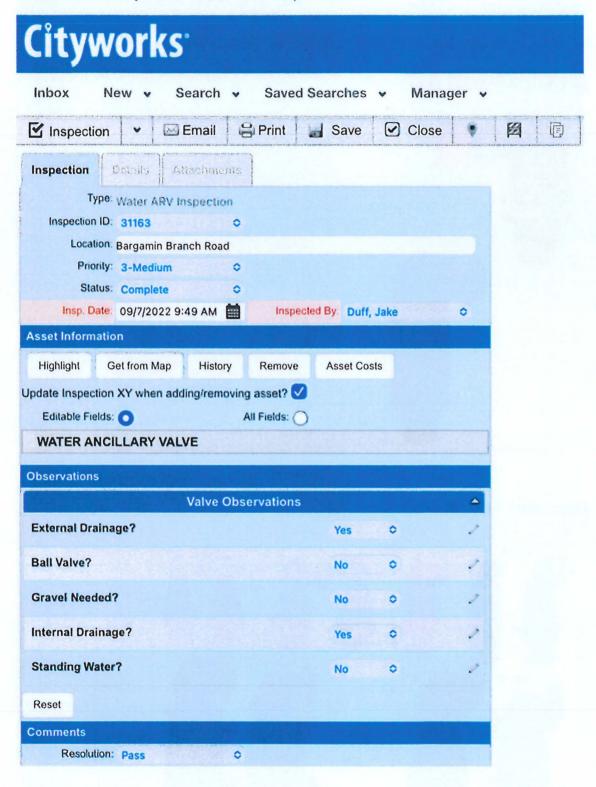
# Attachment 2 Water ARVs



# Attachment 3 Sewer ARVs



# Attachment 4 Cityworks Water ARV Inspection



#### AGENDA ITEM EXECUTIVE SUMMARY

**AGENDA TITLE:** Rivanna Water & Sewer Authority (RWSA) Monthly

Update

STAFF CONTACT(S)/PREPARER:

Gary O'Connell, Executive Director ansis 00

AGENDA DATE: September 15, 2022

**CONSENT AGENDA:** Informational

**ATTACHMENTS:** Yes

**BACKGROUND:** This report continues the monthly updates on the Rivanna Water & Sewer Authority (RWSA) projects and Board meetings. Below are some updates on RWSA major projects and issues, including updates from the August 23<sup>rd</sup> RWSA Board Meeting and other communications.

RWSA Board Meeting and other Updates and Approvals at the August 23<sup>rd</sup> Board Meeting:

- Wholesale Metering Report for July 2022: Update on the metering system installed at the City-County border as part of the Water Supply Plan. The current water use average is City at 48.6% and ACSA at 51.4%. The ACSA has a maximum capacity of 11.9 MGD and the City has a maximum capacity of 6.71 MGD under the terms of the Agreement (see attached memorandum).
- **<u>Drought Monitoring Report</u>**: Our region is at normal for all indicators, with all urban reservoirs at 100% capacity. Total rainfall observed for 2022 (January through July) is 27.69 inches (see attached memorandum).
- Resolution to Amend FY 2022 2023 Water Rates and Charges: In June 2022, the City, ACSA and the RWSA entered into a "Northern Area Drinking Water Projects Agreement" to allocate the debt service costs for four new drinking water infrastructure projects and all future capacity and non-capacity water facilities located north of the South Fork Rivanna River. As part of this Agreement, debt service costs for these projects were shifted from the City to the ACSA, resulting in a change in the charges for FY 2022 2023. RWSA is required to hold a public hearing after adopting a preliminary rate schedule to make this change. It is proposed that the Public Hearing be held on September 27, 2022, with the charges to be retroactively effective on July 1, 2022 (see attached memorandum).

#### AGENDA ITEM EXECUTIVE SUMMARY

# **RWSA Major Capital Project Updates:**

## • South Rivanna and Observatory Water Treatment Plant Renovations

Design Engineer:

Short Elliot Hendrickson, Inc. (SEH)

Construction Contractor:

**English Construction Company** 

Construction Start:

May 2020

Percent Completion:

67%

Completion Date:

May 2023

Base Construction Contract:

\$37,467,169.49

Approved Capital Budget:

\$43,000,000

## **Current Status:**

The new Administration Building has been completed at the SRWTP. Improvements to the new Lab/Control Room in the Filter Building and final modifications to various chemical feed processes continues. Work at the OBWTP includes the new Chemical Storage Building, sedimentation basin improvements, foundation work for the GAC expansion and a large retaining wall. Shutdown of the OBWTP is planned for December – February 2023.

#### History:

The Observatory project will consider the design and costs for upgrading the plant systems to achieve a consistent 7 MGD plant capacity, as well as consider the costs involved with upgrading the plant to 10 or 12 MGD capacity. Much of the Observatory Water Treatment Plant is original to the 1953 construction.

At the South Rivanna Water Treatment Plant significant needs were identified and assembled into a single project. The projects include: 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 of the electrical gear from a sub-terrain location at the Sludge Pumping Station; a new Administration building onsite for additional office, lab, control room and storage space; improvements to storm sewers to accept allowable WTP discharges; and the construction of a new metal building to cover the existing liquid lime feed piping and tanks. The scope of this project will not increase plant treatment capacity, which is at 12 MGD.

# Airport Road Water Pump Station and Piping

Design Engineer:

Short Elliot Hendrickson (SEH)

Contractor:

Anderson Construction

Construction Start:

December 2021

## AGENDA ITEM EXECUTIVE SUMMARY

Percent Complete:

15%

Completion Date:

December 2023

Base Contract:

\$8,520,312

Budget:

\$10,000,000

#### Current Status:

1,100 feet of pipe has been installed at the Kohl's site. Clearing and grubbing of the pump station site is complete and grading will begin this month.

# History:

The Route 29 Pipeline and Pump Station Master Plan was developed in 2007 and originally envisioned as 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.

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

Design Engineer:

Michael Baker International (Baker)

Project Start:

August 2018

Project Status:

Easement Acquisition & Design (20%)

**Construction Start:** 

2025

Completion:

2028

Current Project Estimate:

\$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 been completed, with efforts at the proposed PS site underway as well. Easement negotiations with one private owner, UVA, and the UVA Foundation continue. In a follow-up from staff's meeting with the UVA Foundation on Foxhaven Farm in June, discussion continues on a portion of the proposed pipe alignment on the farm, just South of the Birdwood Golf Course.

# History:

Raw water is currently transferred from the Ragged Mountain Reservoir (RMR) to the Observatory Water Treatment Plant by way of two 18-inch cast iron raw water lines, which have been in service for more than 110 and 70 years, respectively. The proposed water line will be able to reliably transfer water to the expanded Observatory

#### AGENDA ITEM EXECUTIVE SUMMARY

Plant, which, upon completion, will have the capacity to treat 10 million gallons per day (mgd). The new single water line will be constructed of 36-inch ductile iron and will be approximately 14,000 feet in length.

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. Integration of the new pump station with the planned South Rivanna Reservoir (SRR) to RMR Pipeline is being planned in the interest of improved operational and cost efficiencies and emergency redundancy. An integrated pump station would also include the capacity to transfer up to 16 mgd of raw water from RMR back to the SRR WTP.

# • South Rivanna Reservoir to Ragged Mountain Reservoir Raw Water Line-Birdwood to Old Garth Road

Design Engineer:

Project Start:

**Project Status:** 

**Construction Start:** 

Completion: **Current Project Estimate:**  Kimley-Horn June 2021

90% Design

January 2023

December 2023

\$1,980,000

#### **Current Status:**

Preparation of engineering plans and specifications is substantially complete for a 0.25mile 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. A railroad permit has been submitted and County permitting can begin once all easements are finalized.

# History:

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.

# • Beaver Creek Dam, Pump Station and Piping Improvements

Design Engineer:

Design Engineer:

**Project Start:** 

**Project Status:** 

Schnabel Engineering (Dam)

Hazen and Sawyer (Pump Station)

February 2018

85% NRCS Planning Process

#### AGENDA ITEM EXECUTIVE SUMMARY

Construction Start:

2024

Completion:

2027

Budget:

\$30,870,000

#### **Current Status:**

A Joint Permit Application and supporting documents will be submitted to VDEQ this month. Remaining NRCS requirements, including review and approval of the planning study, are scheduled for completion this winter with submission of the revised Plan Environmental Assessment to the NRCS this month. An application for design funding from NRCS will be submitted in 2022.

#### History:

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, and the dam be replaced. This CIP project includes investigation, preliminary design, public outreach, permitting, easement acquisition, final design, and construction of the anticipated modifications. Work for this project includes a new relocated raw water pump station and intake. A federal grant totaling \$341,000 was secured from the National Rural Conservation Service (NRCS) to cover the costs of an Environmental Assessment for the dam modifications. Staff will continue to pursue federal funding for later phases of the project to cover a portion (70%) of final design and construction costs.

# • South Fork Rivanna River Crossing

Design Engineer:

Michael Baker International (Baker)

Project Start:

November 2020

**Project Status:** 

50% Design Spring 2023

Construction Start:

Opining 2020

Completion:

April 2024

Budget:

\$5,850,000

# **Current Status:**

Baker has recommended a water line route that will include a trenchless crossing under 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. Easement work will begin soon and will include a water line easement on County of Albemarle property for Brook Hill River Park along Rio Mills Road.

#### AGENDA ITEM EXECUTIVE SUMMARY

#### History:

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.

# South Fork Rivanna Reservoir to Ragged Mtn. Reservoir Water Line Right-of-Wav

Design Engineer:

Michael Baker International (Baker)

Project Start:

October 2017

**Project Status:** 

**Easement Acquisition Underway** 

Completion Date:

2022

Total Capital Project 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.

## History:

The approved 50-year Community Water Supply Plan includes the future construction of a raw water line from the South Fork Rivanna Reservoir to the Ragged Mountain Reservoir. This water line will replace the existing Upper Sugar Hollow Pipeline along an alternative alignment to increase raw water transfer capacity in the Urban Water System. 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.

#### Upper Schenks Branch Interceptor, Phase II

Design Engineer:

Frazier Engineering, P.A.

**Project Start:** 

July 2021

**Project Status:** 

Design

**Construction Start:** Completion:

**TBD TBD** 

**Current Project Estimate:** 

\$4,725,000

#### AGENDA ITEM EXECUTIVE SUMMARY

#### **Current Status**

After a recent meeting with City and County staff, RWSA is preparing project summary information and an easement on County property with a valuation estimate for the County's review.

# • SRR to RMR Pipeline - Pretreatment Pilot Study

Design Engineer:

Project Start:

Project Status:

Completion:

Budget:

SEH/DiNatale

August 2020

100% (Phase 1)

90% (Phase 2)

December 2022 \$22,969 (Phase 1)

\$116,401 (Phase 2)

# **Current Status**:

Phase 2 of the study continues with detailed reservoir water quality modeling performed by DiNatale Water Consultants. The more detailed modeling work has been completed, and staff has a meeting with the Consultant to review findings and determine overall next steps for the project.

#### History:

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 four 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.

# Central Water Line Project – Routing Study

Design Engineer:

Michael Baker International (Baker)

Project Start:

July 2021 7% Design

Project Status:

#### AGENDA ITEM EXECUTIVE SUMMARY

**Construction Start:** 

2024

Completion:

2028

Budget:

\$41,000,000

#### **Current Status**:

Detailed field investigation and design are underway. The RWSA Board approved the Southern (Cherry) Route in June 2022.

# History:

The hydraulic connectivity in the Urban System is less than desired, creating operational challenges and reduced system flexibility and redundancy. 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 Urban service area.

#### Security Enhancements

Construction Contractor:

Security 101

Construction Start:

March 2020

Percent Complete:

50% (WA 5), 0% (WA6)

Based Construction Contract +

Change Orders to Date = Current Value:

\$718,428 (WA1) + \$91,130 (WA2) +128,166 (WA3) + \$189,698 (WA4)

+76,920 (WA5) + \$120,994 (WA6)

= \$1,325,339 (total)

Completion:

October 2022 (WA5), May 2023 (WA6)

February 2022 (WA 4)

Budget: \$2,810,000

#### **Current Status:**

WA5, which authorizes card access installation at Glenmore Water Resource Recovery Facility (GWRRF), Scottsville Water Resource Recovery Facility (SVWRRF), and Red Hill Water Treatment Plant (RHWTP), began during the week of June 20th. Conduit and cable pulling is complete at all facilities covered in the WA, and the only work that remains is wiring and programming by Security 101. WA6 will include card access installation at RWSA's remote sites, including all dams and pump stations. This work was authorized in early August, with completion scheduled for May 2023.

#### **AGENDA ITEM EXECUTIVE SUMMARY**

#### History:

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 a RWSA facilities including treatment plants, 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.

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# **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 JULY 2022

DATE:

**AUGUST 23, 2022** 

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

	Month	Daily Average		
City Usage (gal)	148,779,466	4,799,388	48.6%	
ACSA Usage (gal)	157,417,994	5,078,000	51.4%	
Total (gal)	306,197,460	9,877,337		

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 July 2021), and that usage relative to the maximum allocation for each party (6.71 MGD for the City and 11.99 MGD for ACSA). Completed in 2019 for a cost of about \$3.2 M, our Wholesale Metering Program consists of 25 remote meter locations around the City boundary and 3 finished water flow meters at treatment plants.

Note: Staff detected a read issue with Meter Site 15 – Ivy Road at Colonnade Drive in March and has determined that the meter's register will require replacement. Staff will report a flow estimate for this site using available data until the issue is resolved. Staff ordered a new register and meter but has not received them due to supply chain issues.

Note: Staff detected a read issue with Meter Site 9 - Moores Creek Lane in June and has resolved the issue with the meter. RWSA will begin using data form the meter for next month.

++Note: Staff detected a read issue with Meter Site 24 – Greenbrier Terrace in late July and staff has resolved the issue. Staff reported a flow estimate for this site using available data from the current month and an average, and will use actual data from the date of repair.

Note: Staff detected a read issue with Meter Site 32 – Fontaine Ave in July and has determined that the meters register needs to be replaced. Staff ordered a new register and meter but has not received them due to supply chain issues. Staff will report a flow estimate for this site using available data from the current month and an average until the issue is resolved.

Figure 1: City of Charlottesville Monthly Water Usage and Allocation

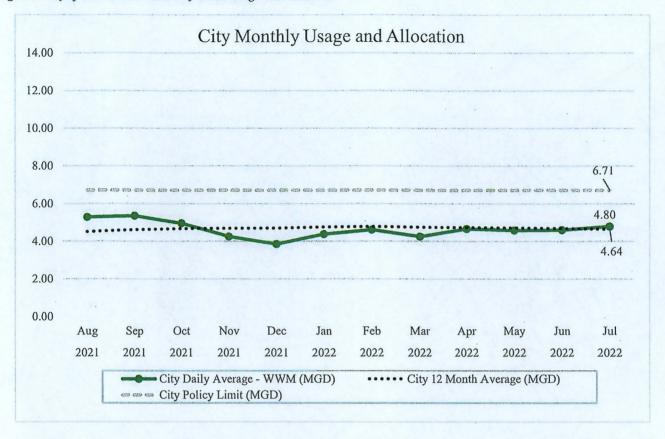
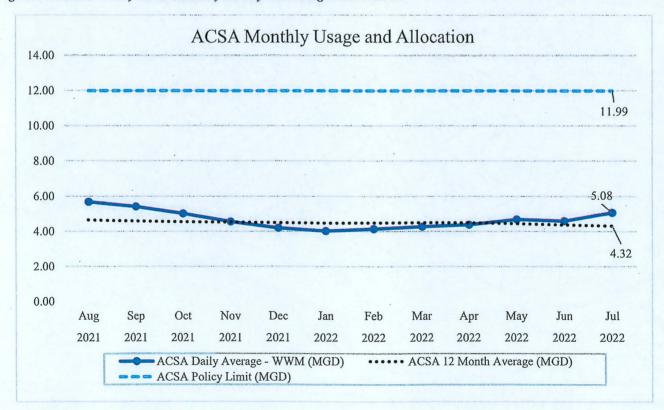
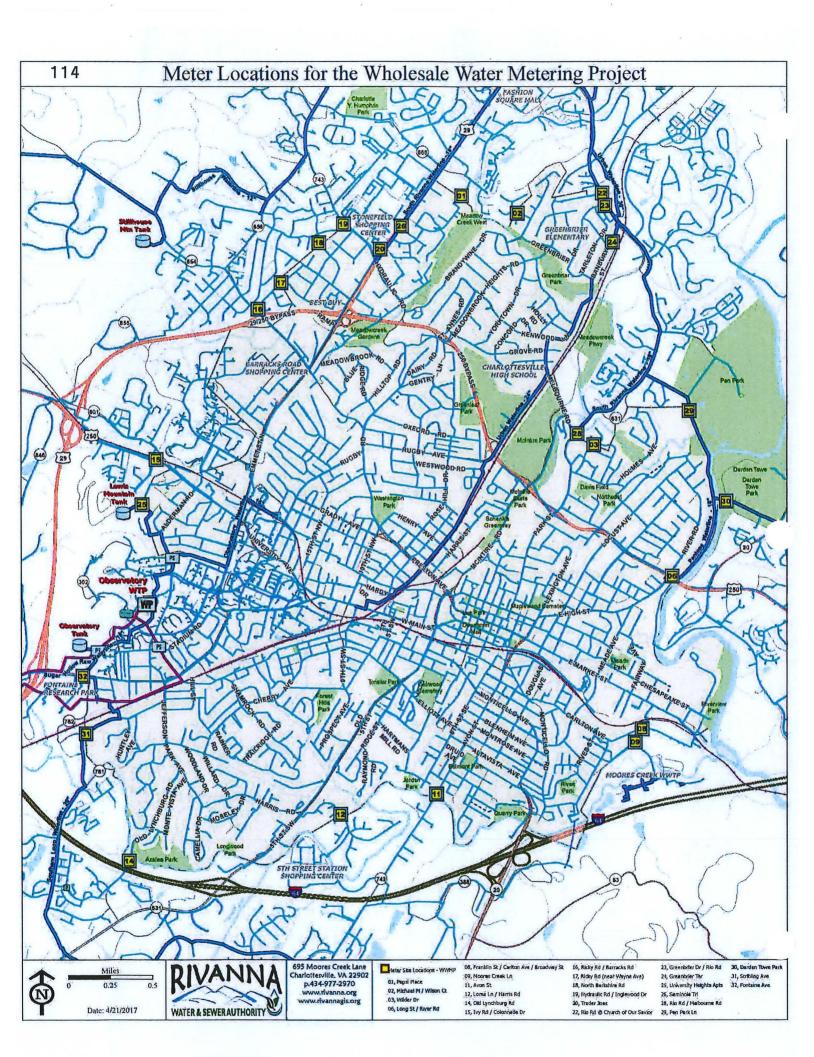


Figure 2: Albemarle County Service Authority Monthly Water Usage and Allocation









WATER & SEWER AUTHORITY

TO:

RIVANNA WATER & SEWER AUTHORITY

**BOARD OF DIRECTORS** 

FROM:

JENNIFER WHITAKER, DIRECTOR OF ENGINEERING &

**MAINTENANCE** 

**REVIEWED:** 

BILL MAWYER, EXECUTIVE DIRECTOR

**SUBJECT:** 

DROUGHT MONITORING REPORT

DATE:

**AUGUST 23, 2022** 

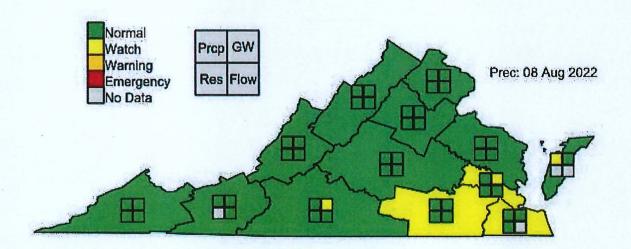
Drinking Water Supply and Drought Monitoring, as of August 11, 2022:

# A. U.S. Drought Monitoring Report:

No drought phases have been initiated. Albemarle County is noted to be normal.

# B. VDEQ Drought Status Report:

Our region is at normal for all indicators.



- C. Urban Reservoirs Status (Sugar Hollow, South Rivanna, Ragged Mountain):
  - 100 % full.

### **Precipitation**

Charlottesville Precipitation								
Year	Month	Observed (in.)	Normal (in.)	Departure (in.)				
2021	Total: Jan - Dec	33.82	41.61	-7.79				
2022	January	3.79	2.96	0.83				
	February	1.48	2.35	-0.87				
	March	3.19	3.54	-0.35				
	April	3.05	3.17	-0.12				
	May	6.17	4.17	2.00				
	June	3.66	4.38	-0.72				
	July	6.35	3.37	2.98				
	Total: Jan - July	27.69	23.94	+3.75				

Source: National Weather Service, National Climatic Data Center.



#### **MEMORANDUM**

TO: RIVANNA WATER & SEWER AUTHORITY BOARD OF

DIRECTORS

FROM: LONNIE WOOD, DIRECTOR OF FINANCE & ADMINISTRATION

**REVIEWED BY:** BILL MAWYER, EXECUTIVE DIRECTOR

SUBJECT: RESOLUTION TO AMEND FY 2022 - 2023 WATER RATES AND

CHARGES; AUTHORIZATION TO SCHEDULE A PUBLIC

HEARING

DATE: **AUGUST 23, 2022** 

This recommendation is to approve the Preliminary Rate Schedule and authorize a Public Hearing during the September Board meeting to consider changes to the debt service charges for drinking water in the Urban area in FY 2022 - 2023. Charges will increase \$22,000 per month for the Albemarle County Service Authority (ACSA) and decrease by the same amount for the City.

### Background

The City, ACSA and the Authority entered into a "Northern Area Drinking Water Projects Agreement" in June 2022 to allocate the debt service costs for four new drinking water infrastructure projects and all future capacity and non-capacity water facilities located north of the South Fork As part of this Agreement, debt service costs for these projects were shifted from Rivanna River. the City to the ACSA, resulting in a change in the charges for FY 2022 – 2023.

The Authority is required to hold a public hearing after adopting a preliminary rate schedule to make this change. This rate schedule will then be published twice at least 14 days before the Public Hearing and at least 6 days apart. The attached Preliminary Rate Schedule includes all of the proposed rates and charges, with only the water debt service charges being different than the charges adopted in May 2022. It is proposed that the Public Hearing be held on September 27, 2022, with the charges to be retroactively effective on July 1, 2022. Additionally, since the monthly invoices for July, August and September 2022 will have already been posted and paid, there will be a retroactive adjustment occurring in the October invoice to the ACSA and to the City.

### **Board Action Requested:**

Approve the Preliminary Rate Schedule and authorize a Public Hearing to be held during the September 27, 2022 regular meeting of the Board of Directors to set the Urban Water rates and charges for FY 2022 - 2023 to be retroactively effective on July 1, 2022.

Preliminary Rate Schedule Attached:

Public Notice



### RESOLUTION

### PRELIMINARY RATE SCHEDULE

WHEREAS, the Rivanna Water and Sewer Authority Board of Directors has reviewed the proposed budget and associated water rates and charges 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 charges; of which there is at least 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 preliminary rate schedule for purposes of notification of a public hearing to be held on September 27, 2022 at 2:15 p.m. during the regularly scheduled Board of Directors meeting, with charges to be retroactively effective July 1, 2022.

### **Preliminary Rate Schedule**

### Water Rates and Charges

		A	djusted*	As	Adopted				
<u>Urban Area</u>			FY 2023		FY 2023	\$	Change	% Change	
ACSA & City	Operating	\$	2,653	\$	2.653	No	o Change	No change	Per 1,000 gallons
City	Debt Service	\$	249,497	\$	271,527	\$	(22,030)	-8.1%	Per month
ACSA	Debt Service	\$	442,355	\$	420,325	\$	22,030	5.2%	Per month

<sup>\* -</sup> adjusted for Northern Area Cost Agreement

### Crozet

ACSA	Operating	\$ 99,757	Per month
ACSA.	Debt Service	\$ 180,142	Per month

### **Scottsville**

ACSA	Operating	\$ 47,463	Per month
ACSA	Debt Service	\$ 12,525	Per month



# RIVANNA WATER & SEWER AUTHORITY PUBLIC HEARING CONCERNING THE PRELIMINARY RATE SCHEDULE FOR FY 2022 – 2023 RETROACTIVELY EFFECTIVE ON JULY 1, 2022

### Public Hearing:

Rivanna Water & Sewer Authority will hold a public hearing on Tuesday, September 27, 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 rates and charges to the City of Charlottesville and the Albemarle County Service Authority, to be retroactively effective July 1, 2022. Adopted rates may or may not be what are advertised.

### Preliminary Rate Schedule

### Water Rates and Charges

		A	djusted*	As	Adopted				
Urban Area			FY 2023		FY 2023		Change	% Change	
ACSA & City	Operating	\$	2.653	\$	2.653	Ne	o Change	No change	Per 1,000 gallons
City	Debt Service	\$	249,497	\$	271,527	\$	(22,030)	-8.1%	Per month
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#### Crozet

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ACSA	Debt Service	\$ 180,142	Per month

#### Scottsville

ACSA	Operating	\$ 47,463	Per month
ACSA	Debt Service	\$ 12,525	Per month

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

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

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

Oct. '22	Nov. '22	Dec. '22	Jan. '23	ture Poli Feb. '23	March '23	April '23	May '23	June '23	Pending Issues
Out ZZ				. 981 - 25					
October 20th Recognitions	November 17th Recognitions	December 15th Recognitions	<b>January 19th</b> Recognitions	February 16th Recognitions	March 16th Recognitions	April 20th Recognitions	May 18th Recognitions	June 15th Recognitions	Water Supply Plan Project Status Water Treatment Plants
Monthly Financial and	Monthly Financial and	Monthly Financial and	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	Monthly Financial and	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	Monthly Financial and CIP Reports	RWSA CIP Central Water Line
	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorization	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Capital Project Authorizations	Annual Water Quality Reports (
	Exclusion Meter Program -	Operational Presentation - 4 Story Backflow	Operational Presentation	Operational Presentation	Operational Presentation	Operational Presentation	Operational Presentation	Operational Presentation	Board Organizational Meeting each Annual Report - January
Energy Audit Report	Maintenance Annual Financial Report	Budget Guidelines and Schedule for FY '24 Budget	Board Organizational Meeting	PAFR (Popular Annual Financial Report) Presentation	Proposed CIP Presentation	Proposed Capital Improvements Program (CIP) FY '24 Presentation	Proposed FY 2024 Budget and Rates Workshop	Public Hearing on Proposed FY '24 Budget, Rates and CIP	Water Audit and Energy Aud
Recognition for Tony Gibson	Water Audit Report	Annual Investment Report	ACSA Annual Report 2021	Security Assessment Updates; IT Report	AMI Update	Public Hearing on Proposed FY '24 Capital Improvements Program (CIP)		Adoption of Proposed FY '24 Budget, Rates and CIP	Strategic Plan Updates-2023-2 January and July
Operational Presentations - ARV's and Auto Flushers		Recognition for Jim Bowling	Strategic Plan Updated 2020-2022 Final Report	New Strategic Plan Draft 2023-2025		Proposed FY '24 Budget and Rates Overview Presentation		Amendments to Personnel Management Plan	Annual Water Conservation Re January
Construction and Engineering Contracts - Processes		New Attorney Appointment	Water Supply Plan and Treatment Projects Updates	Customer Experience Report		Resolution Scheduling Budget and Rates Public Hearing for June 15, 2023			National Drinking Water Week- Imagine a Day Without Water - Se
		Recognition for Calvin Underwood		Best Practices Review Panel - Report		National Drinking Water Week Resolution			AMI Updates - Customer Portal
		Customer Survey							Federal/State Water Quality Regu
					·				Emergency Preparedness - Reç Exercise
	**************************************								Annual Investments Repor December
									Operational Presentations
									ACSA Customer Communicat
									Avon Satellite Operations Cer
									Federal Infrastructure Grant Fu
									Data Management and Manage Dashboards
Executive Session	Executive Director Mid Year Performance				Executive Director Annual Review				

9/15/2022

### AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Advanced Metering

Infrastructure (AMI) Monthly Update

STAFF CONTACT/PREPARER: Quin Lunsford, Director of Finance AGENDA DATE: September 15, 2022

**ACTION:** Informational

ATTACHMENTS: No.

BACKGROUND: The ACSA Board authorized staff at its October 2019 meeting to execute agreements related to the AMI project. Monthly status updates are provided below:

DISCUSSION: Authority staff continues to collaborate closely with the selected vendor (Core & Main/Sensus) and the project management consultant (Esource). Notable accomplishments since the last update include:

- We continue to monitor meters that have been deployed and are notifying customers daily of irregular consumption/leaks. Feedback from customers continues to be extremely positive.
- While supply chain disruptions continue to impact meter/meter component orders, our vendor is accumulating meters for the ACSA's project. Currently, we have 2,000 meters and 800 smart points/radios on hand and expect delivery of another 1,600 meters and 3,500 smart points/radios within the next 1-2 weeks. We remain hopeful that orders continued to be fulfilled over the course of the next few months so coordination for full deployment can begin early in calendar year 2023.
- Our Engineering Department continues to leverage information available in the AMI system to monitor different aspects of the water system and address possible issues or evaluate abnormalities. We have strategically deployed a small population of enhanced meters that in addition to recording consumption also monitor pressure and temperature. Automated reports have also been created to monitor daily consumption data on ACSA auto flushers to ensure they are operating as intended.

**BUDGET IMPACT:** Informational only.

**RECOMMENDATIONS:** None

BOARD ACTION REQUESTED: None; informational item only.

ATTACHMENTS: N/A

### AGENDA ITEM EXECUTIVE SUMMARY

### **CONSENT AGENDA**

**AGENDA TITLE:** Exploring a New

Strategic Plan for 2023

STAFF CONTACT(S)/PREPARER:

Gary O'Connell, Executive Director

AGENDA DATE: September 15, 2022

**ACTION:** Yes

**ATTACHMENTS: No** 

**BACKGROUND:** The current 2020-2022 Strategic Plan is coming to an end at the end of the year. We will be doing a final presentation and update on the current Strategic Plan that is scheduled for next January.

**DISCUSSION:** We have been at work on preparing for this fall the upcoming new Strategic Plan that would cover the next three years (2023-2025).

Listed below are several strategy processes that we have scheduled for further assessment and review:

- We are scheduled to conduct customer and employee surveys this fall as part of the Customer Experience Project to use as feedback in the strategic planning process.
- Scheduling another Best Practices Review Panel (of three experienced utility general managers) to help us take a look at where we are and strategically where we should be heading.
- Allison Linney, local organizational and strategy consultant who we have worked with, will be facilitating a workshop with the Leadership Team in early December to assist us in developing the plan. If the Board concurs, we would like to conduct individual Board interviews on your thoughts on the strategic plan and issues you believe we should be addressing in the future.

We likely will see these items to consider as part of a Strategic Plan, some are new and some are carryovers for completion:

- Explore our vision statement again it is currently "serve and conserve";
- Lessons learned from the Customer Experience (CX) assessment looking organizationally at how we serve our customers in some depth and some specific new actions to address (new);
- New billing system to replace a 30+ year old billing software (RFP being developed on this), this a major project for the ACSA;
- o Data warehouse (dashboards; continuation and expansion of current work);
- Urban water audit (continuation and expansion of current work to the Urban water system);

- Unidirectional flushing (new);
- Succession (continuing focus and effort);
- Diversity, recruitment (new and relook at some current Human Resource processes);
- Avon Satellite facility (current project to be completed in the 2025 timeframe);
- Completion of AMI (schedule dependent on meter delivery);
- Best Practices Review Panel strategic recommendations: customer survey feedback to address;
- Document management (new software system to take our paper documents digital);
- o Technology plan update, and maybe others.

We have scheduled for a February 2023 presentation to the Board a draft of the new Strategic Plan.

**BOARD ACTION REQUESTED:** As part of this proposed process update, I ask the Board to provide some feedback on the process, the issues, and any strategic policy areas you would like us to explore. As mentioned earlier, if the Board concurs, that we schedule this fall individual Board discussions on the strategic issues you see for our future.

**ATTACHMENTS:** None

### AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: ACSA Operations	AGENDA DATE: September 15, 2022
Center Fire Suppression System Replacement Project – Request to use a Design/Build Contract	ACTION: INFORMATION:
	CONSENT AGENDA:
STAFF CONTACT(S)/PREPARER: Alexander J. Morrison, P.E., Senior Civil Engineer	ACTION: INFORMATION:
OWN Engineer	ATTACHMENTS: NO

**BACKGROUND:** ACSA Facilities staff have recently utilized our *Fire Alarm & Life Safety Services* contract with Siemens Industry, Inc. (Siemens), for maintenance and repairs on the existing fire suppression system. During these repairs, it was noted that the existing piping has severe internal corrosion and wall thickness degradation. An in-depth review was conducted by Siemens and it was determined that the existing piping is beyond it's useful life, requiring continued repairs. The existing piping has been in service for 29 years and the useful life is generally 10-20 years. A complete system replacement is recommended. The negative impact that the pipe corrosion and wall thickness degradation will have during full use of the fire suppression system is unclear. Due to the high risk and consequence of failure, the use of a lengthy sealed bidding process is not practical, and the use of a Design/Build Contract is practical and fiscally advantageous.

**DISCUSSION:** In accordance with Chapter 43.1 (Construction Management and Design-Build Contracting) of the *Code of Virginia*, the use of a Design/Build Contract requires Board of Director's approval. The criticality of a timely replacement is outlined in the *Background* section above. Specific items related to this request, as well as the proposed scope of work, are listed below:

- ➤ The Fire Alarm & Life Safety Services contract with Siemens does not include the scope of work for a system replacement.
- > The sealed bidding process would require the use of a term contract engineer to develop bid documents. This procedure would increase the length of time to reach construction and would increase the overall cost of the project.
- > The system replacement will include both the Administration Building system and the Maintenance Building system.
- > Existing piping beyond the riser will be replaced in place.
- > Existing antiquated fire suppression control panels, which are slated for replacement, will be included in this project.

### AGENDA ITEM EXECUTIVE SUMMARY

- A nitrogen generator will be installed with each fire suppression system which will double the useful life of the new piping system.
- > Timely replacement of the existing piping will ensure proper operation of the fire suppression system in the event of a fire.

BUDGET IMPACT: None at this time.

**RECOMMENDATIONS:** Approve the use of a Design/Build Contract for the ACSA Operations Center Fire Suppression System Replacement Project.

**BOARD ACTION REQUESTED:** Authorize ACSA staff to utilize a Design/Build Contract for the ACSA Operations Center Fire Suppression System Replacement Project.

### AGENDA ITEM EXECUTIVE SUMMARY

**AGENDA TITLE:** Imagine a Day

Without Water

STAFF CONTACT(S)/PREPARER:

Emily Roach, Human Resources &

Administration Manager

AGENDA DATE: September 15, 2022

**ACTION:** Yes

**ATTACHMENTS:** Yes

BACKGROUND: "Imagine a Day Without Water" is an annual, national campaign held to educate communities on how essential and valuable water is, and the need for further investment in this precious resource. Held on October 20, 2022 this year, the day was envisioned as a day of advocacy and education to encourage Americans to think about what it would mean to go without water for one day. With an estimated 2.2 million Americans living without water service and the stress of climate change and aging infrastructure, there is growing concern about the stability of water supplies and service. Raising awareness about the state of water infrastructure is a crucial step to ensuring water systems keep flowing for generations to come.

This year, as part of the eighth annual celebration, the ACSA, RWSA, and City of Charlottesville will once again host their annual "Imagine a Day Without Water" student art contest. This year, students are being asked to convey the theme "Value of Water." The contest will be open to all youth in grades K-12 that live in the City of Charlottesville and/or Albemarle County. There will be gift card prizes awarded to the winners of each grade category (K-2, 3-4, 5-6, 7-8, and 9-12), as well as a "fan favorite" selected by the community.

**BOARD ACTION REQUESTED:** Approve the attached Resolution proclaiming October 20, 2022 as "Imagine a Day Without Water".

ATTACHMENTS: Imagine a Day Without Water Flyer & Art Contest Entry Form Imagine a Day Without Water Resolution

**2022 Youth Art Contest** 

# Imasine a Day without Water

Open to:

All Youth that live in the City of Charlottesville

& Albemarle County in Grades K to 12th.

### Theme: "Value of Water"

Water is essential for life. You need water for everything from brushing your teeth, growing the food you eat, and making the things you use everyday. This year tell us why or how you value water and save water in our community.

### **SEP 28TH - OCT 31ST**

### **Contest Rules**

\II entries must convey the theme of the contest:

#### "Value of Water"

- Entries must be the work of one individual student, no collaborations.
- Multiple entries from the same student will be accepted.
- Original artwork or photography only. Entries submitted with copyrighted characters or images will not be accepted.
- Artwork can be any 2-dimensional size. Suggestion sizes are horizontal 11" x 8.5" for drawings and 4:3 ratio for photography.
- Any medium may be used (paint, colored pencils, crayons, markers, photography, etc.) No 3-D entries, please.
- Teachers may submit for students or students can submit independently through their parents.
- Submission Options:
  - Submit digitally through our Art Contest Platform Upload Form (accepts: JPEG/JPG, PNG, or GIF images).
  - Mail your entry to Water Conservation, 305 4th Street NW,
     Charlottesville, VA 22903.
  - In person at JMRL Central, Northside, and Crozet branches. Check JMRL.org for hours of service.



### For the Students: \$200 gift card

One winner in each category

- Grades K-2
- Grades 3-4
- Grades 5-6
- Grades 7-8
- Grades 9-12
- Fan Favorite (voting Nov 14th 28th)

### or For the Teacher

Teachers that have their students participate with be eligible for \$200 gift card for classroom projects.

- Most classroom submissions
- A random winner each from a CCS, ACPS, and a private school or organization

The more students that participate will increase the odds of winning!





Albemarle County
Service Authority
Serving & Conserving



### **Official Entry Form**



# 2022 Charlottesville "Imagine a Day without Water" Art Contest: Value of Water

Name:		Age:
School:		Grade:
Division Category: (Please check one)	Grades: K-2	
	Grades: 7-8	Grades: 9-12 □
<b>Teacher Sponsor Na</b>	ame (if applicable):	
<b>Home Phone Numb</b>	er: ( )	
E-mail Address:		(Parent/Teacher signature)
Please write legibly! Posters become the proper returned. The contest sponso	<b>Electronic submissions will</b> ty of the contest sponsors (C rs have the right to display o	i must completely fill this out to be a valid entry.  fill this out as part of your digital submission.  ity of Charlottesville, ACSA and RWSA) and will not be to otherwise use the submissions for future promotions  !! Please attach this form to the back of your poster!

- Winners will be recognized through a press release and their work will be exhibited in public venues.
- A panel of judges (to be selected by the contest sponsors) will select the winning posters for each grade division.
- Posters will be judged on message (keep in mind the theme), originality, creativity and overall presentation.
- Posters must be submitted by October 31st using one of the official submission processes by the end of business day.
- The Fan Favorite winner will be selected by online voting from the top entries (number based on entries). The link with the eligible entries will be available at www.charlottesville.gov/artcontest starting on November 14th through November 28th.
- One student may not win both the fan favorite and judges pick, and if the student is chosen for both, the fan favorite runner-up will win the Fan Favorite prize.
- The winners of all categories will be announced by December 7<sup>th</sup>, 2022.

For updates and full list of rules and contest information, please go to our website. www.charlottesville.gov/artcontest.

### **Submit Online:**

www.charlottesville.gov/artcontest.

### Submit by Mail:

Water Conservation, 305 4th Street NW, Charlottesville, VA 22903.

### **Submit in Person:**

At JMRL Central, Northside, and Crozet branches. Check JMRL.org for hours of service.

### QUESTIONS?

Contact: Jill Greiner

Water Efficiency Program Coordinator 434-970-3877

waterconservation@charlottesville.gov

Important: Each poster mailed or delivered in person *MUST* have the official entry form attached to the back.
All information must be filled in completely and legibly. Illegible and incomplete entries will be disqualified. Please print or type ALL information.
Entry forms may be copied if needed.

# RESOLUTION PROCLAIMING IMAGINE A DAY WITHOUT WATER OCTOBER 20, 2022

WHEREAS, water is essential for everything we do in life; and

WHEREAS, we need water to make a cup of coffee, fight fires, swim on a hot summer day, or even take a bath; and

WHEREAS, most sectors of our economy rely on water, and without water our economy would grind to a halt; and

WHEREAS, while nature provides water, it takes pipes, pumps, treatment plants, and people working 24/7 to deliver clean, safe water to our homes and businesses, and then remove and treat wastewater so it can safely be returned to the environment; and

**WHEREAS**, water infrastructure is largely invisible because it is out of sight and out of the minds of most people and needs our attention;

NOW, THEREFORE, BE IT RESOLVED that the Albemarle County Service Authority Board of Directors hereby proclaims October 20, 2022 as "Imagine a Day Without Water" to help Albemarle County residents and Albemarle County Service Authority customers recognize the value of safe, clean water to our community.

Certified to be a true copy of a Resolution adopted by the Albemarle County Service Authority Board of Directors at a regularly scheduled meeting on September 15, 2022 by a vote of to .

\*\*\*\*\*\*\*

Clarence Roberts, Chair - ACSA Board

### AGENDA ITEM EXECUTIVE SUMMARY

**AGENDA TITLE:** Customer Account Arrearages Report – Status Update

STAFF CONTACT/PREPARER: Quin Lunsford, Director of Finance AGENDA DATE: September 15, 2022

**ACTION:** Informational

**ATTACHMENTS:** Yes

BACKGROUND: In March of 2020, the ACSA instituted a moratorium on disconnections for non-payment to ensure customers impacted by the COVID-19 Pandemic were not disconnected from water/sewer service. Through two Federal/State utility relief grant programs (CARES Act and ARPA), the ACSA was able to apply over \$375,000 in assistance to eligible customer accounts.

Collections on arrearages over 60 days have improved from a high of nearly \$500,000 in January 2022 to approximately \$165,000 at the end of August but further improvement is needed to return to pre-pandemic levels.

At the February 17, 2022, Board meeting, staff requested and the Board approved an end to the moratorium for water disconnections for non-payment. The end of the moratorium allowed staff an opportunity to begin conversations with customers in arrears to request payment, establish payment-plans for those not able to pay in-full, and ultimately disconnect service if contact was not able to be established.

**DISCUSSION:** Beginning in late February, the ACSA contacted customers in arrears via phone, mail, and email to begin attempting to collect in earnest and/or establish payment plans for customers that were unable to pay in full. These efforts have resulted in 95 individual customer payment plans being established which total over \$74,000 in arrearages or an average of \$800 per account.

Each customer that established a payment plan was required to make payment on their current amount due. Customers were permitted to establish payment terms that were manageable for their current financial situation and range from 6 - 24 months in length. In addition to the monthly amount due on the payment plan, customers are also required to pay the current amount due for water/sewer use. The ACSA's Customer Service Team has worked tirelessly to assist these customers in need and continue to do so.

We have unfortunately encountered about 50 customers that are unresponsive to telephone inquiry, mail, or email that continue to use ACSA services. All communication attempts with these customers have been documented. In a final effort to establish contact and initiate payment, beginning the week of September 6<sup>th</sup>, the ACSA has mailed "certified" letters (attached) to each of these customers. This letter requests that they make payment or contact the ACSA within the next two weeks to avoid disconnection.

The ACSA team is working hard to ensure collections for services rendered occur while understanding hardships many have been endured over the last two years. Our team will continue to work with customers on an individual basis to ensure our customers are served well and treated fairly.

### **AGENDA ITEM EXECUTIVE SUMMARY**

**BUDGET IMPACT:** Informational only.

**RECOMMENDATIONS: None** 

BOARD ACTION REQUESTED: None; informational item only.

ATTACHMENTS: Certified Letter – Request for Payment on Arrearages



September 9, 2022

ACSA Customer Customer's Mailing Address Charlottesville, VA 22901

Account Number: OXXXXXXXXXXXXX

Service Address: Customer's Service Address

The Albemarle County Service Authority (ACSA) records indicate that you have not made payment on your water and/or sewer account since January 5, 2022. Your current outstanding balance is \$951.92.

To avoid disconnection of water service, please contact the ACSA's Customer Service team at 434-977-4511, option 1 or <a href="mailto:customerserviceauthority.org">customerserviceauthority.org</a> to arrange payment.

The ACSA understands that some customers may not be able to pay the entire outstanding balance and is encouraging those customers to establish a payment plan to pay on past due accounts.

If arrangements for payment are not made within two weeks of the date on this letter, your water service will be scheduled for disconnection.

If you have any questions, comments, or concerns please let us know.

Sincerely,

Quin Lunsford Director of Finance Albemarle County Service Authority

### AGENDA ITEM EXECUTIVE SUMMARY

AGENDA TITLE: Update Report -

Supplier Issues

AGENDA DATE: September 15, 2022

STAFF CONTACT/PREPARER:

Quin Lunsford, Director of Finance

**ACTION:** Informational

**ATTACHMENTS:** Yes

**BACKGROUND:** The ACSA, like other water/sewer utilities across the country and world, has been impacted by supply chain challenges over the past two and a half years. These challenges derive from COVID-19 impacts, military conflicts, labor issues and hacking attacks resulting in delays, shortages, and cost increases for many of the different materials, equipment, and services the ACSA requires.

A short presentation has been prepared to illustrate specific impacts as they relate to the ACSA and action taken by staff to ensure our customers receive clean, safe, and reliable water and wastewater services.

**DISCUSSION:** The national and worldwide economies continue to recover from COVID-19 disruptions. The pandemic continues to impact many of the ACSA's vendors who have encountered considerable difficulties procuring raw materials, electrical, computer chip, and other components in addition to labor shortages.

The ACSA has taken action to mitigate impacts from these delays and shortages to the extent possible. The presentation today focuses on the following specific challenges:

- Water/Wastewater pipes for repair, replacement, and new construction
- Water/sewer hardware
- Energy, specifically gasoline and diesel fuel
- Information technologies
- Fleet vehicles/heavy machinery
- Generators
- Water meters/meter components
- Training and other 3<sup>rd</sup> party services

Additionally, we will review steps taken to mitigate issues related to critical components and limited or delayed availability.

**BUDGET IMPACT:** Informational only.

**RECOMMENDATIONS: None** 

**BOARD ACTION REQUESTED:** None; informational item only.

**ATTACHMENTS:** PowerPoint presentation – Supply Chain and Continuity Challenges

# Supply Chain and Continuity Challenges

September 15, 2022



# Presentation Overview



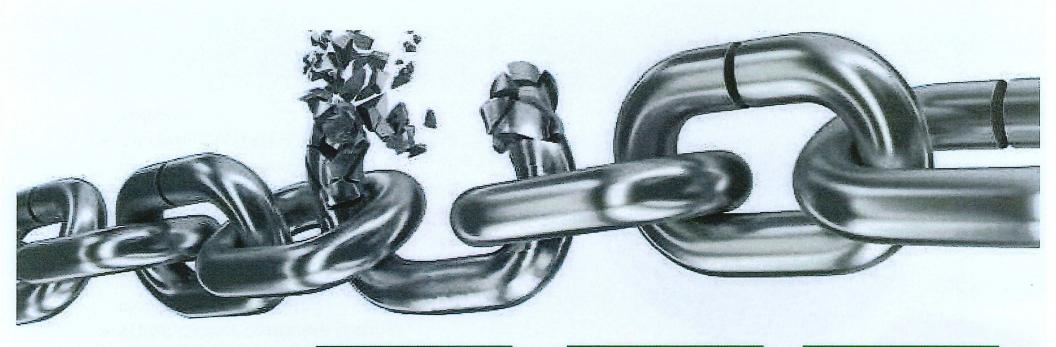
WATER/WASTEWATER UTILITY SUPPLY CHAIN DISRUPTIONS AND CHALLENGES



ACSA SPECIFIC DISRUPTIONS AND RESPONSES



MOVING FORWARD



Overview of Supply Chain Disruptions

### Material

- Water and Sewer Pipes
- Water/Sewer hardware (fittings, manholes, vaults, etc.)
- Gasoline/Diesel

### Equipment

- Information Technology
- Fleet Vehicles
- Heavy Machinery
- Generators
- Meters/Meter Components

### Other

- Training
- 3<sup>rd</sup> party services

# Maintenance

### Material

- Water and Sewer Pipes New Installations and Repairs
- Water/Sewer hardware (fittings, manholes, vaults, etc.)
- Gasoline/Diesel fuel

### Equipment

- Ford F-550 waiting on installation of dump bed/power take-off
- All-terrain forklift 65 week for order delivery



# Engineering



### Material

Jefferson Village Water Main Replacement Project

 Notice of Award provided in March 2022; 40-week lead time estimated for pipe shipments



### Equipment

80 KW Cummins Generator and ASCA Automatic Transfer Switch – ordered 8/30/21, delivered 7/21/22



### 3<sup>rd</sup> Party Services

Significant delays for Food Service Establishments needing grease interceptors serviced



# Information Technology

### Equipment

- IT Hardware In-Office
  - Computers
  - Servers
  - Printers
- Work from home hardware
  - Webcams
  - MiFi's
  - Keyboard/mice
  - Audio headsets



# Administration

### 3<sup>rd</sup> Party Services

- Onboarding/Employee Service Providers
  - New employee drug screening
    - Significant delays in results, delaying start dates
  - Delays/lack of response for workers compensation inquiries
- Training/Trainers
  - Difficulties finding available trainers
    - CPR
    - Asbestos Training



# Finance

### Material

- Envelopes
  - Lead-time more than tripled

### Equipment

- Meters/Meter Components
  - Significant delays in AMI project
  - Inventory for regular replacement/new connections
  - Hydrant Meter availability







# Moving Forward

- Longer view/projections on future material/equipment needs
- · Enhanced monitoring of inventory on-hand
  - Pipe/fittings/etc.
  - Meters/meter components
- Consideration of alternatives
- Retention of assets/equipment
  - Fleet vehicles
  - IT hardware



# Questions?

### AGENDA ITEM EXECUTIVE SUMMARY

**AGENDA TITLE:** Transfer of Ownership to Upper Woodbrook

Interceptor

STAFF CONTACT(S)/PREPARER:

Gary O'Connell, Executive Director

AGENDA DATE: September 15, 2022

**ACTION:** Yes

**ATTACHMENTS:** Yes

BACKGROUND: In the Spring of 2022, Rivanna Water and Sewer Authority (RWSA) rehabilitated a significant portion of the Woodbrook Interceptor (WBI) (see attached map). The upper portion of the WBI originates just northeast of the Fashion Square Mall and contains approximately 3,400 LF of 8" ductile iron and 10" vitrified clay piping and 13 manholes. Upper WBI carries on average approximately 130,000 gallons per day of dry weather sanitary sewage, mostly from residential and small non-residential sewer connections. The nature and volume of the discharges into this sewer aligns better with sewers owned and operated by the Albemarle County Service Authority (ACSA), thus our staff recommends that ownership of the Upper WBI be transferred to ACSA. The RWSA Board recently took similar action on this request.

The Woodbrook Interceptor (WBI) was constructed in 1973-1977 and carries sanitary sewage from the Urban Area of north Albemarle County to the Rivanna Interceptor and the Moores Creek Advanced Water Resource Recovery Facility. The uppermost reach of WBI is known as the Upper WBI and is an 8-10" sanitary sewer that originates just northeast of the Fashion Square Mall. From the first manhole (MH-34A) to the manhole on WBI where the 8" and 10" come together (MH26), the sewer is characterized by small residential and non-residential direct connections and acts as a low-flow collector sewer. At WBI-MH-26, the 8" and 10" portions of WBI come together and upsize to 12", and the downstream portions of WBI function as a more typical RWSA Interceptor, with higher flows and fewer direct connections. At the time of construction, the ACSA and RWSA established an understanding that these smaller diameter, lower flow sections would eventually revert to ACSA ownership.

In the fall of 2021, Closed-Circuit Television footage revealed that the 10" vitrified clay portion of Upper WBI needed significant sewer and manhole rehabilitation, to include cured in place piping (CIPP) and manhole coatings. These efforts were completed by RWSA in June 2022. With the 10" vitrified clay portion of the Upper WBI rehabilitated to the confluence at MH-26 and the overall lower flow characteristics of Upper WBI, our staff recommends the Upper WBI (8" and 10" sections) from WBI-MH-34A and WBI-MH-63A, respectively, to WBI-MH-26 be transferred to the ACSA.

### AGENDA ITEM EXECUTIVE SUMMARY

**BOARD ACTION REQUESTED:** Authorize the Executive Director to execute a deed with the Rivanna Water and Service Authority (RWSA) that will transfer ownership of approximately 3,400 LF of the Woodbrook Interceptor upstream of WBI-MH-26 to the ACSA. RWSA will retain ownership of MH-26 and all of WBI downstream of this manhole.

ATTACHMENTS: Map of Woodbrook (WBI) Interceptor Sewer Lines

