



SOUTH GRANVILLE WATER AND SEWER AUTHORITY

BOARD OF DIRECTORS REGULAR MEETING

October 13, 2026

MEETING START TIME: 6:00 P.M.

LOCATION: Butner Town Hall Council Chambers

THIS PUBLIC MEETING IS NOT AVAILABLE REMOTELY.
THE MEETING WILL BE RECORDED AND MADE AVAILABLE
TO THE PUBLIC ON THE SGWASA WEBSITE WITHIN
SEVERAL DAYS FOLLOWING THE MEETING.



Board of Directors Regular Meeting – October 13, 2026 6:00 pm
Meeting Agenda

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Agenda Item-1

Call to Order/Welcome

Kenneth McLamb, Stem Commissioner, SGWASA Chair

Agenda Item-2

Roll Call

Krystle Lee, Board Secretary

Agenda Item-3

Invocation

Georgana Kicinski, Creedmoor Commissioner/SGWASA Vice Chair

Agenda Item-4

Pledge of Allegiance

Jimmy Gooch, Granville County Commissioner

Agenda Item-5

Conflict of Interest Declarations

If any Board member has a direct or indirect interest in any matter that comes before the Board, the member shall disclose the nature of the interest to the other members on the record during the meeting, and the disclosure shall be entered into the minutes. The member having such an interest shall not participate in any discussion, deliberation, or vote on the matter for which the conflict exists. If an objection is raised at or prior to the discussion, hearing, or vote concerning a member's participation and that member does not voluntarily recuse himself or herself, the remaining disinterested members of the Board shall, by majority vote, determine whether the member shall be excused from participation.

The decision of the remaining members shall be final and shall be recorded in the minutes.

Agenda Item-6

Adjustments/Approval of the Meeting Agenda

This item provides the Board an opportunity to request additions, deletions, or reordering of agenda items prior to conducting business. Any requested changes should be limited to matters appropriate for Board consideration, and time-sensitive items not listed should be added only when necessary and clearly stated for the record. After discussion, the Chair will entertain a motion to approve the agenda as presented or as amended; approval establishes the order of business for the meeting.

Agenda Item 7 - Review & Approval of Minutes



**South Granville Water and Sewer Authority
Special Board of Directors Meeting
September 8, 2026 at 5:00 p.m.**

Meeting Minutes

1. Call to Order and Welcome

A special meeting of the SGWASA Board of Directors was called to order at 5:00 p.m. by Commissioner Kenneth McLamb, Chair.

2. Roll Call

Board Members Present: Commissioner Kenneth McLamb, Chair, Councilperson Thomas Lane, Mayor Pro Tem Vicky Daniels, Mayor Pro Tem Archer Wilkins, Commissioner Jimmy Gooch, Commissioner Russ May, Commissioner Georgana Kicinski, Vice Chair

Officials Present: Executive Director Scott Schroyer, Assistant Executive Director Chris Summerlin, Finance Director Richard Balmer, Public Information Officer/Board Secretary Krystle Lee, Attorney James Wrenn

3. Invocation

Commissioner Kenneth McLamb, Chair offered a prayer.

4. Pledge of Allegiance

Mayor Pro Tem Vicky Daniels led the Pledge of Allegiance.

5. Conflict of Interest Declarations

No conflict of interest declarations were made by the Board.

6. Meeting Agenda Adjustments & Approval

The Board proceeded with the meeting agenda, as presented. No changes were requested.

7. Review & Approval of Minutes

The Board reviewed the August 2026 Board meeting minutes.

Board Action: Commissioner Georgana Kicinski, Vice Chair, moved to approve the minutes as presented. Mayor Pro Tem Archer Wilkins seconded the motion. The motion passed unanimously.

8. Public Comments

No public comments were received.

9. Board Discussion Items

Councilperson Thomas Lane: None
Vice Chair Georgana Kicinski: None
Commissioner Jimmy Gooch: None
Chair Kenneth McLamb: None
Mayor Pro Tem Vicky Daniels: None
Commissioner Russ May: None
Mayor Pro Tem Archer Wilkins: None

10. Surplus Personal Property

Brief Description: Executive Director Scott N. Schroyer presented an informational update regarding surplus personal property identified in accordance with the Board-approved Disposal of Surplus Personal Property Procedure; and reported that several items, vehicles, equipment, and other assets had been declared surplus and that minimum bid values had been established for applicable items.

Items Listed: 2010 Ford Explorer, Epson Receipt Printer, 2009 Ford F-350, SCAG Lawn Mower 2010 Ford F-250, Commercial X-Mark Mower (x2), 2017 Ford F-250, WWTP Lab Equipment Lot, 2008 Ford Ranger, Eagle Microsystems Ton Scales, HP DesignJet 510 Mapping Printer, Scrap Metal Lot

Items that do not receive a qualified bid during the initial auction will be considered for a second auction, or another appropriate method of disposition based on the value and condition of the property.

The Board was provided background regarding its pre-authorization to utilize GovDeals for disposal of surplus personal property and the corresponding administrative procedure governing the process. SGWASA's most recent surplus equipment auction had been conducted in May 2024.

Board Action: No formal Board action was required.

11. Utility Service, Capacity Management, and Infrastructure Extension Policy Draft

Brief Description: The Board reviewed a presentation of the proposed [\(draft\) Utility Service, Capacity Management, and Infrastructure Extension Policy framework](#), presented by Executive Director Scott N. Schroyer. The draft overviewed a comprehensive approach for evaluating utility service requests, capacity allocation, and infrastructure extensions while supporting system reliability, responsible growth, infrastructure planning, and financial sustainability.

The proposed framework outlined principles for managing water and wastewater capacity as a finite resource, managing growth-related costs to existing ratepayers, avoiding stranded infrastructure, and maintaining Board flexibility for significant economic development opportunities.

The Board discussed the proposed framework and was asked to provide direction regarding capacity management, infrastructure sustainability, ratepayer protection, economic development flexibility, Board oversight, and administrative decision-making at an upcoming Board meeting. Staff will

incorporate Board direction into the draft and prepare the policy and any related administrative procedures for upcoming consideration.

Board Action: The Board agreed to review the draft proposal and return comments by September 22, 2026, for inclusion in the Executive Director's revised Utility Service, Capacity Management, and Infrastructure Extension Policy draft.

12. Executive Director's Report

Brief Description: Executive Director Scott N. Schroyer reported progress on the I-85 Sanitary Sewer Improvement Project along 8th Street in Butner, NC. Following several months of coordination regarding rock excavation and nearby utility infrastructure, an air-gap approach was implemented to reduce blast vibration near the existing gas main. Multiple test and production blasts were completed successfully, allowing construction to resume and remain on schedule. Work was expected to continue toward C Street, with intersection and block-by-block closures occurring as construction advanced through the area. Mr. Schroyer reported that CP-2 remained scheduled for substantial completion in April 2027, while CP-1 substantial completion was anticipated before Christmas 2026.

The Executive Director also advised the Board of the upcoming Finance Committee meeting, which was scheduled to include discussion of PFAS funding, presentation of the AIA Water and Sewer Program results by McGill Associates, and additional discussion regarding funding and construction timing for the Northern Interceptor.

Mr. Schroyer reported that SGWASA's Unidirectional Flushing Pilot Program was scheduled to begin September 22nd, in the Golden Pond subdivision of Creedmoor, and continue through September 23rd. The Executive Director reported results received for the Filter Media Replacement Program and reflected improvements in water-quality and operational measures, including turbidity, total organic carbon, finished water iron, backwash times, and filter run times. At the Board's request, the report was to be discussed more fully at the next meeting.

Operational water-quality values continued to improve following the filter media replacement, and SGWASA intended to perform filter surveillance approximately every five to six years to help determine appropriate future replacement intervals.

The Executive Director also presented preliminary information regarding development of an annual report. Raftelis provided a preliminary not-to-exceed estimate of approximately \$24,800 and advised that the scope and cost could vary depending on the Board's preferred level of detail. No direction was requested at that time; the information was presented for future consideration.

The Board was provided notice of planning for the next strategic plan. Director Schroyer reported that the current strategic plan was scheduled to expire in January 2027, with discussions regarding a potential scope of work for a five-year update in motion. A draft scope and cost estimate are still pending.

Board Action: No Board action was requested.

13. Attorney's Report

Brief Description: The SGWASA Attorney reported that there were no items for Board consideration at this meeting.

Board Action: No Board action was requested.

14. Board Member Comments

Brief Description: Board members were offered an opportunity to comment.

Councilperson Thomas Lane: Not much tonight. I am just excited to see progress on 8th Street and on that end of town. I am sure the folks will be happy to see it moving along. I think the draft of the capacity management is a very good move and look forward to getting that completed and adopted. Those are my comments, tonight.

Mayor Pro Tem Vicky Daniels: I thought we had a nice agenda tonight, and I appreciate all the hard work that Scott pulled together for the items that we have discussed tonight. I have been looking forward to some results about the filter media replacement, because I felt like it was going to show since it has been so long; and I think that was a worthwhile project, it needed to be done. I am really pleased with results- that they are a lot lower than what they were.

I did not know if you tested any water, to see what the water testing analysis might would be, other than what you gave me.

Executive Director Scott Schroyer: No, the report is, basically, all that we analyzed through that. But in general, our operational values month over month just continue to improve, as far as water quality. At some point, they will baseline. They will stabilize, but we continue to see those benefits from that project. And just to remind the Board, we are not going to wait 20 years to replace that media, again. We are going to be doing filter surveillance, about every five or six years, to determine in each one of those basins when is the appropriate time to replace that media.

Mayor Pro Tem Vicky Daniels: That is great. They are wonderful results, and that will be nice to know when you get to that baseline.

Mayor Pro Tem Archer Wilkins: The Councilwoman stole some of my comments, but I also thank the Board. Both the results are very promising and very encouraging. Thank you.

Commissioner Jimmy Gooch: I would just like to say a few words about the filter media replacement. I am also encouraged by that, and it is good to see that we are getting a baseline. Once we have a baseline established, we can monitor how it changes over the years to come. And I am looking forward to the future. It looks bright. This utility policy, I think that it is well thought out; and hopefully we will get everybody on board with it. I like the fact that we are talking about protecting our ratepayers, and that is all I have for tonight. Thank you.

Commissioner Russ May: Thank you, Mr. Schroyer, for the presentation tonight on the utility extension policy- well thought out and well defined. We hear sometimes that this Board "is not planning and looking toward the future- Where do we go from here?" I think this lays out a clear picture of not just where we can go, but how to get there. And so, I think that is needed, because we

will be serving all the southern Granville at some point in the next 30, 40, 50 years- well after we have left this Board. And putting something like this in place, goes along with all the different planning mechanisms that we have within the county and within municipalities. SGWASA has to be an integral part of that planning process. We have talked about that. I know that you go to meetings about that, but part of SGWASA being part of all the planning processes that go into our municipality and county is essential to get the utilities and infrastructure where they need to be, before they need to actually be there; and it is critical. So, thank you.

Commissioner Georgana Kicinski, Vice Chair: I will just step way far out of this right now. So, as we mark the 25th anniversary of September 11, 2001, we pause to remember the over 3,000 innocent lives lost, the families whose lives were forever changed, and the first responders, service members, and ordinary citizens whose courage revealed the very best of America. For my family, that day was painfully personal. Two of my brothers-in-law were serving in the New York City Fire Department, and my husband worked for American Airlines. When he called to tell me that he had volunteered to help unload the flights being diverted to Raleigh-Durham, I was terrified. I wondered whether an entire family might be taken from us that day. Yet even in that fear, I saw the same willingness to serve that was happening across our nation, stepping forward because others needed them.

I will always remember the Andruzzi family: four sons, three of them firefighters, and their father an NYPD detective. Two of the sons were inside the South Tower when it fell down, by the grace of God, all of them survived. Their story remains for me a powerful reminder of the courage, sacrifice, faith, and mercy woven through that terrible day. We also remember what happened in the days and months that followed. The world pulled together. Americans stood side by side without regard to race, creed, or religion. We were reminded that we are one nation under God, indivisible... not merely words in a pledge, but a promise that we lived. People of every background gave blood to whoever needed it. No one asked about race, faith, or politics of the person who would receive that gift.

Neighbors helped neighbors, strangers comforted strangers. Signs proclaimed, "United We Stand", and American flags flew proudly in yards, along streets, and outside businesses across the country.

That spirit was voiced publicly, as well. During the television show America: A Tribute to Heroes, Will Smith introduced Muhammad Ali as one of the world's great heroes, and as a Muslim. And together, they urged American not to judge an entire faith by the action of terrorists, reminding us that hatred, not religion, had driven the attacks. Beyond our borders, the same humanity was on display. In Gander, Newfoundland, when 38 diverted planes carrying more than 6,600 passengers and crew landed there, residents of Gander and nearby communities responded without hesitation. They too, with few hotel rooms, opened their schools, their churches, community buildings, and their own homes to strangers- offering food, beds, transportation, and comfort during days of uncertainty.

On September 17th, President George W. Bush visited the Islamic Center of Washington, D.C. He affirmed that the terrorists did not represent Islam, honored the contributions of Muslim Americans, and urged the nation to treat every citizen with respect. Amid grief and anger, his message was clear: no innocent person should be blamed, threatened, or excluded because of faith. Here at home, the same spirit was evident at American Hero, which had recently opened in Creedmoor under the ownership of Phoebe Elshowowi. Although WRAL reported that the business faced racial and ethnic hostility, it endured. The community judged the owner and the business not by name, accent, or faith, but by character, hard work, and the way people were treated.

American Hero thrived. 25 years later, Creedmoor's loss became Butner's gain; and on a lighter but sincere note, the sandwiches are still wonderful. I also remember an American Airlines flight attendant

who lives in Creedmoor and was scheduled to be on one of those flights that day but was not working that day because of an injury. She struggled with survivor's guilt, and I am grateful she is still with us. The unity should not be only a memory. The push to divide our country must stop. It is the responsibility of every one of us. We may disagree, but disagreements must never become contempt. We can reject prejudice, refuse language that dehumanizes our neighbors. Listen before judging and choose service over suspicion.

On this solemn anniversary, let us honor those we lost by becoming again the nation we proved we could be- compassionate, courageous, generous, and united. Let us fly our flag proudly, extend a hand freely, and remember what binds us together is stronger than what seeks to pull us apart. United we stood, and united we can stand again. With remembrance, gratitude, and hope, let us all remember how we were in the one nation and hope we can get back there, again.

And I would like to thank Ed Gleason and Russ May, who was a police officer at the time and firefighter at the time; and if I am forgetting anybody, I apologize. But I am sure that if you had the opportunity, you would have been there. And I want to thank you for your service. Thank you.

Mayor Pro Tem Archer Wilkins: Well said.

Commissioner Kenneth McLamb, Chair: And me following that? I have nothing compared to that, whatsoever. So, I have no comments, tonight.

15. Closed Session

None.

16. Adjournment

Brief Action: Councilperson Thomas Lane made a motion to adjourn, which was seconded by Mayor Pro Tem Archer Wilkins. The motion carried unanimously, and the meeting adjourned at 5:53 PM.

Submitted by: Krystle Lee, Public Information Officer and Board Secretary

Approved by the Board at the October 13, 2026 Board Meeting

Kenneth McLamb, SGWASA Chair

Date

Agenda Item–8

Public Comments



South Granville Water and Sewer Authority (SGWASA)

Public Comment Procedures

The members of the South Granville Water and Sewer Authority (SGWASA) are committed to allowing members of the public an opportunity to offer comments and suggestions regarding efficient and effective administration of the regional utility. In addition to public hearings, a special time is set aside for the purpose of receiving such comments and suggestions. All comments addressed to the SGWASA members (the "Board") during the Public Comment period shall be subject to the following procedures:

1. Public Comments - General:

- a. The Public Comment period will be held at the beginning of the Board meeting. The comment period will be limited to a maximum of thirty (30) minutes. Based on the total number of Public Comments - Request to Speak Information Cards submitted, the Board may agree by majority vote to extend the Public Comment period or hold an additional Public Comment period at the end of the Board meeting.
- b. Public Comment speakers should not expect Board action, deliberation, and/or comment on subject matter brought up during the Public Comment section unless and until it has been scheduled as an item on a future meeting Agenda.
- c. Public Comment is not intended to require the Board to answer any impromptu questions. Speakers will address all comments to the Board as a whole.
- d. Discussions between speaker and members of the audience are not allowed.
- e. Action on items brought up during the Public Comment period will be at the discretion of the Board.
- f. Speakers must be respectful and courteous in their remarks and must refrain from personal attacks or accusations, the use of profanity, and inappropriate gestures.
- g. Only one speaker will be acknowledged at a time. If the time runs out before all persons who have signed up have an opportunity speak, those names will be carried over to the next Public Comment period.
- h. Any applause will be held until the end of the Public Comment period.
- i. Speakers who have prepared written remarks or supporting documents shall leave a copy of such remarks and documents with the Board Secretary.
- j. Speakers shall not discuss matters concerning the candidacy of any person seeking public office, including the candidacy of the person addressing the Board, except to the extent that the comments directly address issues pertinent to SGWASA.
- k. Comments must relate to matters that are within the authority or jurisdiction of the Board.
- l. Topics requiring further investigation will be referred to the appropriate SGWASA official, Board Committee or agency, and may, if in order, be scheduled for a future meeting Agenda.

1. Approved 2-14-23

Public Comments (cont.)

South Granville Water and Sewer Authority (SGWASA)

Public Comment Procedures

- m. The Board requests that complaints relative to specific SGWASA employees be directed to the Executive Director, other than at a Board meeting. Individual personnel issues are confidential by law and will not be discussed by the Board in open session.

2. Public Comments - Procedures:

- a. Persons who wish to address the Board during the Public Comment period shall complete a Public Comments-Request to Speak Information Card prior to the start of the Board Meeting. Public Comments – Request to Speak Information cards will be available thirty minutes before the start of the meeting.
- b. On the Public Comments – Request to Speak Information card, speaker shall provide their contact information (full name, full address, email, and telephone number) and the topic of their comments.
- c. Speakers will be called to the podium by the Board Chair when it is their turn to speak. Speakers will address the Board from the podium at the front of the room and begin their remarks by stating their full name and address for the record.
- d. Each speaker will have **three (3) minutes** to make remarks and will only be entitled to the time allotted.
- e. Those persons who desire to submit their public comments to the Board without directly addressing the Board during the Public Comment period may do so, yet they shall provide a legible document to the Board Secretary by 3:00 pm on the day of the Board Meeting. The legible document shall include their contact information (full name, full address, email, and telephone number) and the topic of their comments. The public comments will not be read aloud during the Board Meeting, yet they will be attached to the record copy of the meeting minutes.

Agenda Item-9

Board Discussion Items

Brief Explanation: Prior to each month's regularly scheduled Board meeting, the Board Secretary surveys the South Granville Water and Sewer Authority (SGWASA) Board members to see if they have any discussion topics for the upcoming Board meeting. The following are the responses received regarding discussion items for this Board meeting.

Thomas Lane, Town of Butner Councilperson: None

Vicky Daniels, Town of Butner Mayor Pro Tem: None

Archer Wilkins, Mayor Pro Tem, City of Creedmoor Commissioner: None

Jimmy Gooch, Granville County Commissioner: None

Russ May, Granville County Commissioner: None

Georgana Kicinski, City of Creedmoor Commissioner/SGWASA Vice Chair: None

Kenneth McLamb, Town of Stem Commissioner, Chair: None

Agenda Item-10

Topic: Approval of the Water System Asset Inventory and Assessment Report, Asset Management Plan, and 10-Year Capital Improvement Plan

Requested Action: Review and approve the attached resolution adopting the completed Water System Asset Inventory and Assessment Report, including the Asset Management Plan and 10-Year Capital Improvement Plan.

Presenter(s): Scott N. Schroyer, Executive Director, Robert Miller, PE, McGill Associates
(Presentation by Robert Miller, PE, McGill Associates of both the Water and Sewer AIA Summary Reports)

Executive Summary:

SGWASA has completed the Water System Asset Inventory and Assessment funded through the North Carolina Division of Water Infrastructure. The final report includes an updated water system inventory, condition and planning assessments, hydraulic analysis, water audit, Asset Management Plan, 10-Year Capital Improvement Plan, work-order system recommendations, and final report. Board approval of the attached resolution is required to formally adopt the completed report and its associated plans.

Background:

The North Carolina Department of Environmental Quality manages the Asset Inventory and Assessment Grant Program to encourage water and wastewater utilities to improve long-term system viability and become more proactive in managing and financing infrastructure. Eligible activities include asset inventories, condition assessments of critical assets, and related planning work.

In September 2021, SGWASA applied for and later received a \$150,000 grant for its Water Distribution System. The award was funded with state ARPA funds and required no local match. SGWASA worked with McGill Associates to prepare the grant application and develop a scope of services that was submitted to NCDEQ in September 2022. The Board subsequently approved McGill Associates Task Order 22-3 to perform the work.

Analysis:

The completed report addresses the scope established for the grant-funded project: water system inventory updates; water plan assessment and master planning; water distribution system analysis, including hydraulic modeling; a water audit; an Asset Management Plan and updated 10-Year Capital Improvement Plan; updated work-order system recommendations; and a final report. These deliverables provide a documented basis for annual short-term and long-term asset management and capital planning. The attached resolution states that the work was completed in accordance with Division of Water Infrastructure recommended guidelines and grant conditions and provides the governing Board's formal approval of the report, Asset Management Plan, and 10-Year CIP.

Next Steps:

Following Board approval, staff will execute and certify the resolution, maintain the adopted report as the basis for ongoing asset management, and use the 10-Year CIP to inform annual capital planning and budgeting for the water system.

Staff Recommendation:

Staff recommends that the Board approve the attached resolution adopting the Water System Asset Inventory and Assessment Report, Asset Management Plan, and 10-Year Capital Improvement Plan.

Schedule:

Board consideration is scheduled for October 13, 2026. Upon adoption, the resolution will be signed and certified, and the final report and associated plans will be available for implementation.

Financial:

The AIA project was supported by a \$150,000 NCDEQ grant funded with state ARPA funds. The grant required no local match from SGWASA. Approval of the final report and resolution does not itself authorize new capital expenditures; future projects identified in the 10-Year CIP will be considered through the Authority's normal budgeting and project approval processes.

Attachments:

- Water & Sewer Systems Asset Inventory and Assessment Presentation
- Water System Asset Inventory and Assessment and Asset Management Plan Approval Resolution
- Executive Summary - Water System Asset Inventory and Assessment Report.
- 10-Year Capital Improvement Plan – Proposed.

Strategic Plan Goal & Objective Alignment:

Supports the Authority's objective to provide for upgrades and ongoing maintenance of water system infrastructure through regular assessment of capital assets and inclusion of priority projects in the Capital Improvement Plan. It also supports enhancement of the financial and operational components of the water system to guide capital investment and efficient operations.

Focus Area 1: Safe, Reliable and Sustainable Water System

Objective #1: Provide for upgrades and ongoing maintenance of water system infrastructure through regular assessments of capital assets and inclusion of needed projects in the Authority's Capital Improvement Plan (CIP).

Objective #4: Enhance financial and operational components of the water system to support capital investments and efficient operations.

Executive Director's Recommendation:

The Executive Director recommends that the SGWASA Board of Directors approve the attached Water System Asset Inventory and Assessment and Asset Management Plan Approval Resolution, thereby adopting the completed Water System Asset Inventory and Assessment Report, Asset Management Plan, and 10-Year Capital Improvement Plan.



**WATER & SEWER SYSTEMS
ASSET INVENTORY AND ASSESSMENT**

NC DEPARTMENT OF ENVIRONMENTAL QUALITY
Project Numbers: AIA-D-ARP-0134
AIA-W-ARP-0204

Board Presentation

SGWASA

mcgill Shaping Communities Together

Presented by:
Bob Miller PE, Principal/Raleigh Office Manager

1



Aging Infrastructure Across the U.S.

- Our entire nation is experiencing a crisis of infrastructure
- 2025 grades of U.S. Infrastructure by the American Society of Civil Engineers
 - Overall – C
 - Wastewater – D+
 - Water – C-
- North Carolina Department of Environmental Quality (DEQ) Programs
- Asset Inventory and Assessment (AIA)

2



SGWASA AIA Scope of Work: Water & Sewer Systems



Task	Description
1	Asset Inventory and Condition Assessment
2	Update Hydraulic Models of Water System and Sewer System
3	Conduct Lift Station Drawdown Testing
4	Prepare Opinions of Probable Costs: Water & Sewer System Improvements
5	Update 10-Year Capital Improvements Plan
6	Prepare Asset Management Plan, Summary of Findings, Final Report

3



Inventory & Assessment

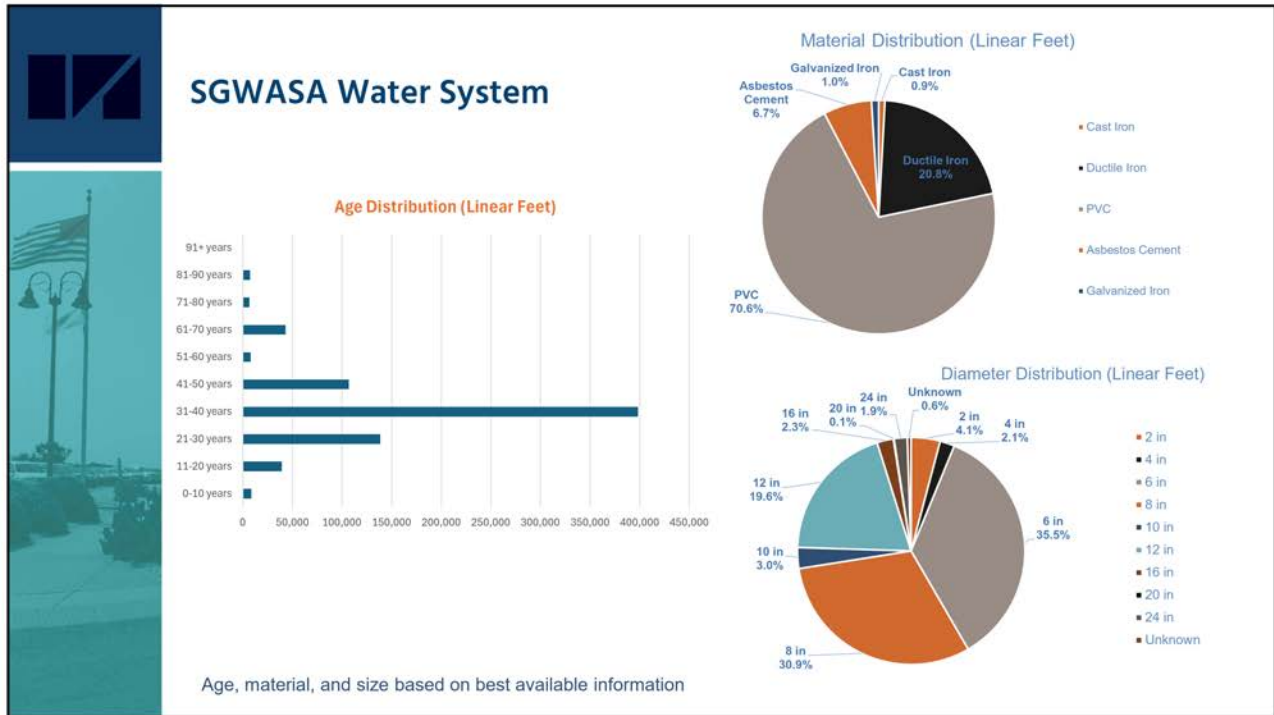
Scoring Matrix – Risk Ratings

CONSEQUENCE OF FAILURE (CoF)	LIKELIHOOD OF FAILURE (LoF)				
	5	10	15	20	25
	4	8	12	16	20
	3	6	9	12	15
	2	4	6	8	10
	1	2	3	4	5

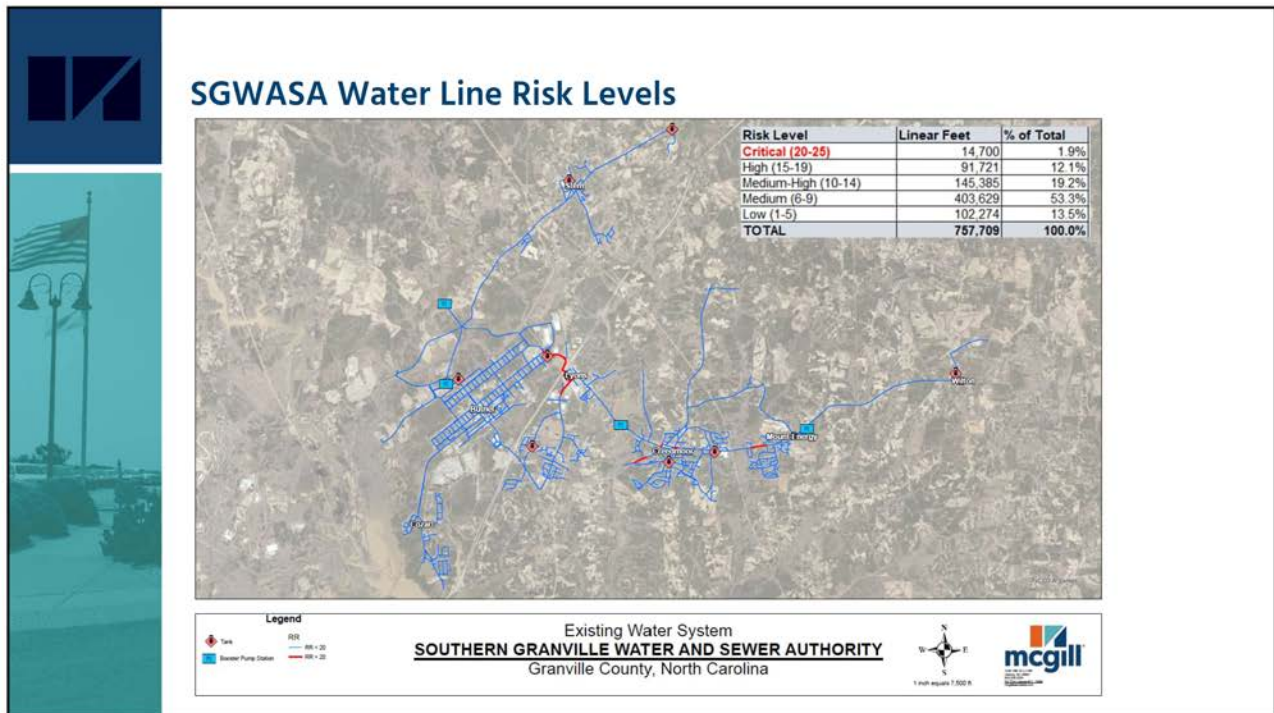
Risk Rating	Recommended Action
1-3	Requires Normal preventative maintenance (PM)
4-9	Requires monitoring, normal PM, and minor corrective maintenance (CM)
10-12	Requires further condition inspection, normal PM, and major CM
15-16	Requires major rehabilitation and replacement (R&R) in the next 1-10 years
20-25	Requires immediate work and/or complete R&R within the next few years



4



5



6

SGWASA WTP – Inventory and Assessment

Assets	Condition Ratings	Criticality Ratings	Risk Ratings
Raw Water Intakes	3a	4a	12a
Raw Water Pump No. 1a	2a	4a	8a
Raw Water Pump No. 2a	2a	4a	8a
Raw Water Pump No. 3a	5a	4a	20a
Potassium Permanganate Feed System (Raw Water PS)a	3a	2a	6a
Backup Generator (Raw Water PS)a	1a	3a	a
Raw Water Reservoir (10.96 MG)a	2a	2a	4a
Intermediate Raw Water Pump No. 1 a	2a	3a	6a
Intermediate Raw Water Pump No. 2 a	2a	3a	6a
Raw Water Flow Meters	2a	2a	4a
Flash Mixer (1)a	3a	3a	9a
Flocculators (23)a	4a	3a	12a
Sedimentation Basins (5)a	3a	3a	9a
Sedimentation Basin Sludge Removal Equipmenta	3a	1a	3a
Sedimentation Basin Plate Settlersa	2a	2a	4a
Filters (5) - Underdrainsa	2a	4a	8a
Filters (5) - Mediaa	3a	4a	12a
Air Scour Blowersa	2a	2a	4a
Filter Control Panelsa	2a	2a	4a
Filter Gallery Pipinga	4a	5a	20a
Filter Valves and Actuatorsa	3a	3a	9a
Disinfection Contact Basina	2a	3a	6a
Clearwell - 2 MGa	4a	5a	20a
High Service Pump No. 1a	3a	3a	9a
High Service Pump No. 2a	2a	3a	6a
High Service Pump No. 3a	2a	3a	6a
High Service Pump No. 4a	2a	3a	6a
EQ Lagoon	2a	2a	4a



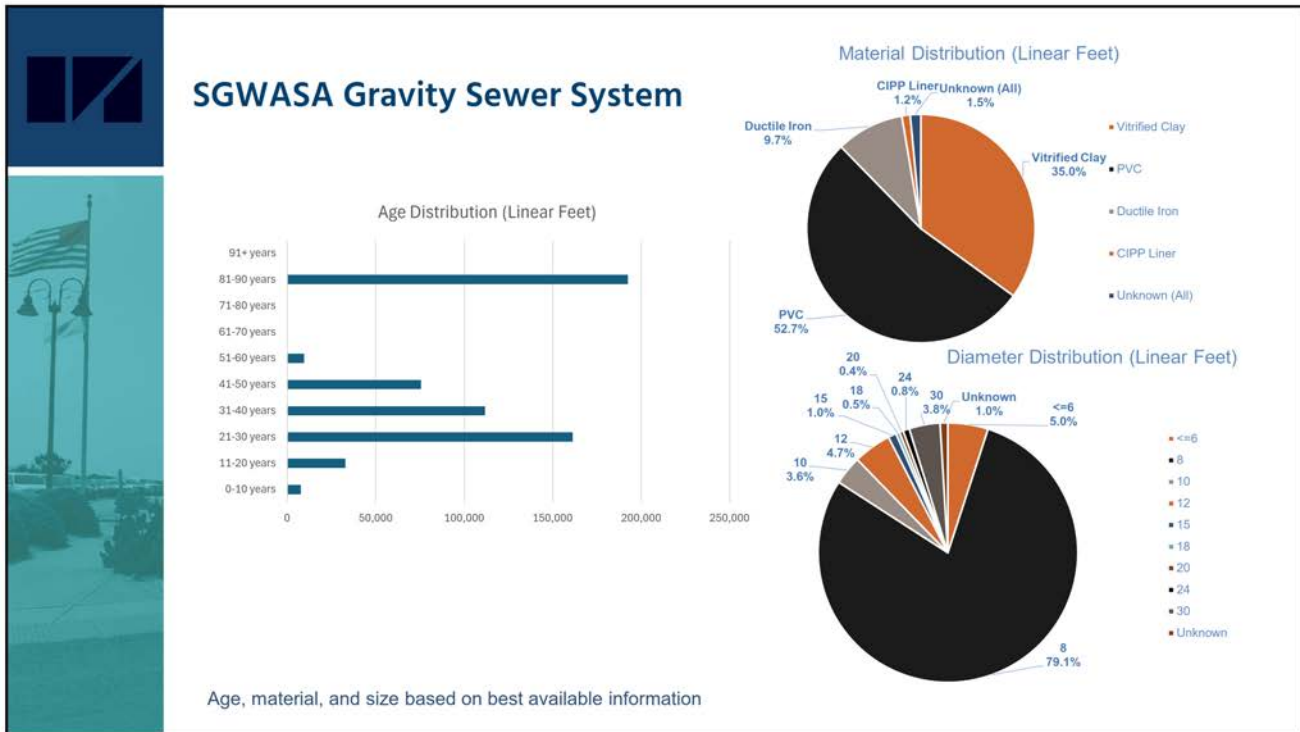
7

SGWASA Water System Capital Improvements Projects

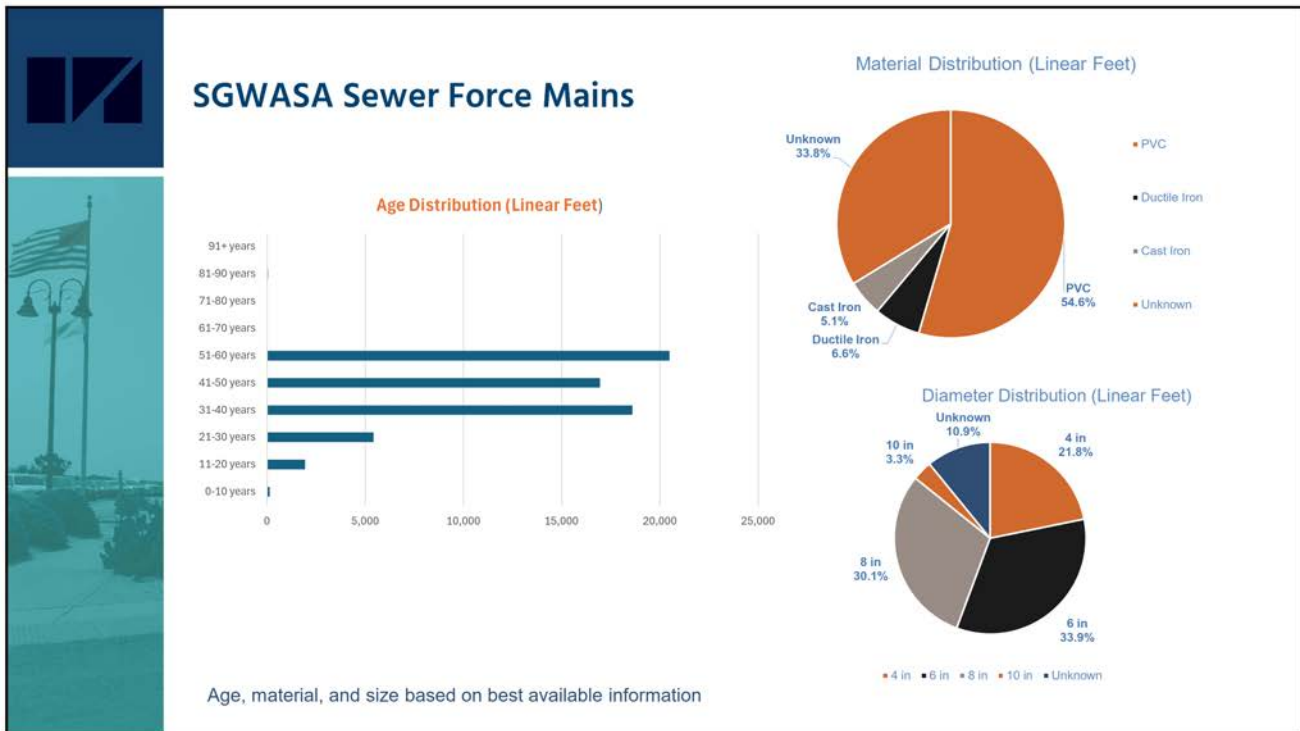
Proposed Project	Estimated Project Cost
WTP Critical Components Replacements – Clear well and Chlorine Contact Chamber	\$6,322,000
WTP Critical Components Replacements – Major Components	\$6,508,000
WTP Critical Components Replacements – Flocculators	\$1,136,000
WTP New Raw Water Intake Structure	\$6,684,000
Mount Energy Booster Pump Station – Pump Replacement	\$341,000
Mount Energy Booster Pump Station – Chemical System	\$412,000
Stem Tank Booster Pump Station – Chemical Systems	\$721,000
Wilton Tank Booster Pump Station – Chemical Systems	\$744,000
Granville High Booster Pump Station – Chemical Systems	\$419,000
Annual Water Line and Hydrant Replacements	\$15,387,000
Lead Service Line Program	\$255,000
TOTAL	\$38,929,000



8



9



10



SGWASA WWTP – Inventory and Assessment

Asset	Condition	Risk Rating	Asset	Condition	Risk Rating
Influent pumps (4)	FAIR	4	Clarifier #1	GOOD	4
Influent pumps (3)	FAIR	4	Clarifier #2	GOOD	4
Emergency Generator #1	GOOD	2	Clarifier #3	POOR	20
Emergency Generator #2	GOOD	2	Denitrification Filters (4)	GOOD	4
Mechanical Bar Screens (2)	FAIR	9	Denitrification Filters (4)	GOOD	4
Grit Chambers (2)	GOOD	4	Denitrification filter pumps (3)	GOOD	4
Grit Pumps (2)	GOOD	4	Denitrification backwash pumps (2)	GOOD	4
Equalization Tanks (2 tanks each is 2.5 MG)	GOOD	2	RAS Bunker	FAIR	6
Concrete BNR Basins (3 trains)	FAIR	4	Waste pumps (2)	GOOD	4
Caustic Feed Metering Pumps (3)	NEW	4	Scum Pumps (2)	GOOD	4
Oxidation Ditches (2)	FAIR	6	Chlorine Contact Chamber	GOOD	4
Oxidation Ditch (smaller one)	GOOD	6	Chlorine Contact sampling station	FAIR	4
Oxidation Ditch Blowers (3)	GOOD	4	Effluent flow meter station	GOOD	2
MCC for Oxidation Ditch Blowers	GOOD	4	First stage sludge digesters (5)	VERY POOR	20
Oxidation Ditch Splitter Box	GOOD	4	Second Stage Digesters (4)	POOR	9
Recycle Pumps	GOOD	4	Sludge Feed Pumps	FAIR	4

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SGWASA Sewer System Capital Improvements Projects

Proposed Project	Estimated Project Cost
WWTP Clarifier #3 Rehabilitation	\$2,443,000
WWTP Second Stage Sludge Digesters Rehabilitation	\$1,709,000
Mt Energy Lift Station Rehabilitation	\$1,919,000
Robinson Creek Lift Station Rehabilitation	\$1,364,000
18 th & E G Streets (C-3-A) Sewer Replacements	\$3,051,000
19 th and 20 th Streets (C-3-B) Sewer Replacements	\$2,391,000
21 st & W F Streets (C-3-C) Sewer Replacements	\$1,970,000
22 nd & 23 rd Street (C-3-D) Sewer Replacements	\$2,030,000
24 th & E Streets (C-3-E) Sewer Replacements	\$2,534,000
27 th & 28 th Streets (C-11-A) Sewer Replacements	\$2,374,000
D & 31st Streets (C-11-B) Sewer Replacements	\$1,665,000
Hawley School Rd & HWY 56 (A-13) Sewer Replacements	\$801,000
Hillsboro Street & S Elm Street (A-11) Sewer Replacements	\$1,240,000
Cozart St & E Lyon Street (A-10) Sewer Replacements	\$1,594,000
5 th & 6 th Streets (B-1-A) Sewer Replacements	\$3,860,000
7 th & 8 th Streets (B-1-B) Sewer Replacements	\$3,709,000
12 th & 13 th Streets (A-1) Sewer Replacements	\$2,626,000
TOTAL	\$37,280,000



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Capital Improvement Planning

- **Viability Needs**
 - Aging Equipment
 - Out of Date Technology
 - Operational Issues
- **Efficiency Needs**
- **Growth Needs**
 - Capacity Assurance
 - Capacity Expansion
- **Regulatory Needs**
 - Permitting Changes
 - Monitoring Changes



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SGWASA Water System CIP

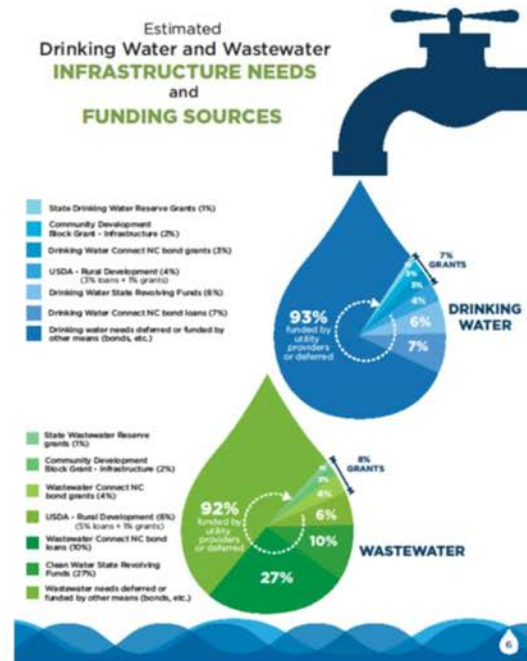
FY 2026-2036 SGWASA CAPITAL IMPROVEMENT PROGRAM SUMMARY													
Program Category	Project ID	Project Description	FY 2026-2027	FY 2027-2028	FY 2028-2029	FY 2029-2030	FY 2030-2031	FY 2031-2032	FY 2032-2033	FY 2033-2034	FY 2034-2035	FY 2035-2036	5th Year Total
101 - Water Treatment Facility	101	Water Treatment Plant Expansion & Modernization	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
	102	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	103	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	104	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	105	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	106	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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	108	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	109	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	110	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	111	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	112	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	113	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	114	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	115	Water Treatment Plant Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
102 - Water Distribution	102	Water Distribution System Expansion & Modernization	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
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103 - Water Distribution Pump Stations	103	Water Distribution Pump Station Expansion & Modernization	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
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	115	Water Distribution Pump Station Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	116	Water Distribution Pump Station Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	117	Water Distribution Pump Station Expansion & Modernization	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

16

[illegible]

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Availability of Funding Sources



Source: 2017 NC DWI Statewide Water and Wastewater Infrastructure Master Plan
* Update currently in process



Questions



South Granville Water and Sewer Authority

**WATER SYSTEM ASSET INVENTORY AND ASSESSMENT AND ASSET
MANAGEMENT PLAN APPROVAL RESOLUTION**

WHEREAS, the South Granville Water and Sewer Authority (SGWASA) has need for and conducted an asset inventory and assessment to develop a 10-year CIP and Asset Management Plan for SGWASA's water system; and

WHEREAS, SGWASA recognizes the need for and advantage of maintaining adequate short-term and long-term planning for asset management and capital improvements to the water system on an annual basis; and

WHEREAS, SGWASA applied for and received a grant from the North Carolina Division of Water Infrastructure to prepare an Asset Inventory and Assessment Report which includes an Asset Management Plan and 10-year CIP; and

WHEREAS, SGWASA has completed a water system Asset Inventory and Assessment Report in accordance with the North Carolina Division of Water Infrastructure recommended guidelines and grant conditions; and

WHEREAS, the implementation of the water system Asset Inventory and Assessment Report, which includes an Asset Management Plan and 10-year CIP requires approval by the SGWASA governing board.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE
SOUTH GRANVILLE WATER AND SEWER AUTHORITY:**

That the South Granville Water And Sewer Authority approves the ASSET
INVENTORY AND ASSESSMENT REPORT AND THE ASSET MANAGEMENT
PLAN AND 10-YEAR CIP WITHIN.

Adopted this the 13th day of October, 2026, at Butner, North Carolina.

Commissioner Kenneth McLamb - Chair

Date

Attest: Board Secretary

Date

CERTIFICATION BY RECORDING OFFICER

The undersigned duly qualified Board Secretary of the South Granville Water And Sewer Authority does hereby certify:

That the attached resolution is a true and correct copy of the resolution authorizing the approval of the SGWASA Asset Inventory and Assessment Report, which includes an Asset Management Plan and 10-year CIP, as regularly adopted at a legally convened meeting of the SGWASA Board duly held on the 13th of October, 2026; and, further, that such resolution has been fully recorded in the journal of proceedings and records in my office. IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of _____, 2026.

SIGNATURE

PRINTED NAME AND TITLE

**SGWASA Board of Directors Executive Summary: Water Asset Inventory Assessment (AIA) &
Asset Management Plan**

October 2026

1. Project Background & Objectives

The South Granville Water and Sewer Authority (SGWASA), in collaboration with McGill Associates, P.A., completed a comprehensive Water Asset Inventory and Assessment (AIA) and Asset Management Plan (AMP) under NCDEQ Division of Water Infrastructure Grant No. AIA-D-ARP-0134.

The primary objective of the Asset Inventory Assessment (AIA) and Asset Management Plan (AMP) is to provide SGWASA leadership with a comprehensive, data-driven roadmap for managing wastewater infrastructure. By identifying critical system vulnerabilities and prioritizing capital investments, the plan enables proactive asset management, optimizes financial planning, and ensures long-term service reliability for customers in Butner, Stem, and Creedmoor.

2. Water System Inventory & Condition Overview

SGWASA's water distribution system encompasses approximately 757,709 linear feet (~145 miles) of water mains, 7 elevated/ground storage tanks, 2 booster pump stations, 1,060 fire hydrants, 2,190 valves, and a 7.5 MGD conventional Water Treatment Plant (WTP).

Asset Category	Quantity / Extent	Overall Condition Assessment
Water Treatment Plant (WTP)	1 Facility (7.5 MGD)	Fair to Very Poor – Original 1940s-era structures (2 MG clearwell, yard piping, valve infrastructure) require urgent rehabilitation.
Water Storage Tanks	7 Tanks (0.05 MG to 1.0 MG)	Good to Excellent – All tanks are structurally sound; routine coating and washout maintenance scheduled.
Booster Pump Stations	2 Stations (Lake Rd, Mt. Energy)	Fair to Good – Lake Road is in Fair condition; Mount Energy is in Good condition with chemical feed system updates needed.
Water Mains (Distribution)	757,709 LF (~145 miles)	Variable – 70.5% PVC, 20.8% Ductile Iron, 6.7% Asbestos Cement, 1.0% Galvanized Iron, 0.9% Cast Iron. Legacy lines exceed expected useful life.
Fire Hydrants	1,060 Units	Included in annual replacement schedule.
System Valves	2,190 Units	Inoperable legacy valves increase shutdown scopes during line repairs.

**SGWASA Board of Directors Executive Summary: Water Asset Inventory Assessment (AIA) &
Asset Management Plan**

October 2026

3. Key Findings & Technical Evaluations

- **Water Audit & Loss Control:** SGWASA's 2022 water audit revealed an overall water loss rate of **9.78%**. This performance is significantly better than the national EPA average benchmark of 16%. Recommended improvements focus on master meter calibrations and routine customer meter testing.
- **Hydraulic Modeling & Calibration:** Updated in Bentley WaterGEMS and calibrated using static and residual flow testing across 25 test locations under peak demand scenarios (~3.3 MGD). Model updates verified system pressures and highlighted key fire flow and booster pump improvement zones.
- **High-Risk WTP Infrastructure:**
 - The **2 MG Clearwell** and high service pump gallery piping date back to the 1940s Camp Butner construction and are in **Poor to Very Poor condition**.
 - Raw water intake gate #5 and raw water pump #3 are in **Very Poor condition**, impacting system intake redundancy.
 - Sedimentation basins and filter gallery piping require major capital rehabilitation to preserve long-term operational compliance.

4. Proposed 10-Year Capital Improvements Plan (CIP: 2026–2036)

To address high-risk assets, ensure regulatory compliance, and support regional development, the AIA establishes a 10-year Capital Improvements Plan totaling **\$56,238,000**:

Project Description	Estimated Cost
WTP Critical Components Replacements – Clearwell & Chlorine Contact Chamber	\$6,322,000
WTP Critical Components Replacements – Major Components	\$6,508,000
WTP Critical Components Replacements – Flocculators	\$1,136,000
WTP New Raw Water Intake Structure	\$6,684,000
Mount Energy Booster Pump Station – Pump Replacement	\$341,000
Mount Energy Booster Pump Station – Chemical System	\$412,000
Stem Tank Booster Pump Station – Chemical Systems	\$721,000
Wilton Tank Booster Pump Station – Chemical Systems	\$744,000
Granville High Booster Pump Station – Chemical Systems	\$419,000

**SGWASA Board of Directors Executive Summary: Water Asset Inventory Assessment (AIA) &
Asset Management Plan**

October 2026

Project Description	Estimated Cost
Annual Water Line Replacements	\$10,996,000
Annual Hydrant Replacements	\$4,391,000
Annual Generator Replacements	\$1,765,000
Annual Valve Replacements	\$1,027,480
Annual Water Meter Replacements	\$12,428,000
Annual Water Line Cleaning and Lining Program	\$2,089,000
Lead Service Line Program	\$255,000
TOTAL 10-YEAR CIP INVESTMENT	\$56,238,000

5. Operations & Maintenance (O&M) Strategic Recommendations

The report recommends shifting operational resources toward proactive preventive maintenance to extend asset service life and reduce lifecycle costs:

1. **System Valve & Hydrant Exercising:** Implement an annual valve exercising program to locate and service stuck or isolated valves, reducing outage areas during line breaks.
2. **Proactive Leak Detection & Main Flushing:** Establish structured unidirectional flushing schedules and ongoing sub-basin leak detection to maintain water quality and manage non-revenue water.
3. **GIS & Maintenance Integration:** Continuously update GIS layers with field repair logs, asset conditions, and maintenance records to keep the calibrated hydraulic model current.
4. **Level of Service Commitments:** Maintain targets for full compliance with drinking water regulations, zero safety incidents, and prompt customer complaint response (main breaks within 2 hours; service lines/meters within 1 day).

Adopting this AIA roadmap provides SGWASA with the financial and operational justification needed to secure future grant funding, structure long-term utility rates, and maintain reliable water service across Granville County.

**SGWASA Board of Directors Executive Summary: Water Asset Inventory Assessment (AIA) &
Asset Management Plan**

October 2026

6. Financial Planning & Next Steps

The data compiled in this AIA provides SGWASA with the foundational analytics needed to update its long-term financial rate-setting model. Integrating these project estimates into future financial models ensures SGWASA can schedule, finance, and execute necessary capital upgrades while maintaining reserve fund health, balancing enterprise revenues, and securing sustainable wastewater services for the community.

10-Year Capital Improvement Plan (placeholder)

Agenda Item-11

Topic: Approval of the Sewer System Asset Inventory and Assessment Report, Asset Management Plan, and 10-Year Capital Improvement Plan

Requested Action: Review and approve the attached resolution approving SGWASA's Sewer System Asset Inventory and Assessment Report, including the Asset Management Plan and 10-Year Capital Improvement Plan.

Presenter(s): Scott N. Schroyer, Executive Director, Robert Miller, PE, McGill

Executive Summary:

SGWASA has completed the Sewer System Asset Inventory and Assessment Report funded through the North Carolina Division of Water Infrastructure's Asset Inventory and Assessment Grant program. The final report includes an Asset Management Plan and a prioritized 10-Year Capital Improvement Plan to support ongoing maintenance, renewal, and investment in the wastewater collection system. Board approval is required to implement and formally adopt the completed planning documents in accordance with grant conditions.

Background:

The North Carolina Department of Environmental Quality manages an Asset Inventory and Assessment Grant program to encourage water and wastewater utilities to become more viable and proactive in managing and financing their systems. Eligible grant activities include asset inventories, condition assessments of critical assets, asset management planning, and capital improvement planning.

In September 2022, SGWASA applied for an AIA grant for the wastewater collection system and received approval in March 2023 for an award of \$200,000. The grant was funded with State ARPA funds and required no local matching funds. The Board subsequently approved the related McGill Associates task order and budget authorization so the assessment work could proceed.

Analysis:

The completed report satisfies the Division of Water Infrastructure's recommended guidelines and grant conditions. It documents the sewer system asset inventory and condition assessment and incorporates an Asset Management Plan and 10-Year Capital Improvement Plan. These tools establish a structured basis for identifying risks, prioritizing rehabilitation and replacement needs, updating capital projects and cost estimates, and supporting short- and long-term financial and operational planning. The attached resolution formally approves the report and the plans contained within it.

Next Steps:

Following Board approval, staff will finalize grant closeout requirements, incorporate the 10-Year Capital Improvement Plan into annual capital and budget planning, and use the Asset Management Plan as a living framework for periodic updates to asset condition, risk, project priorities, schedules, and cost estimates.

Staff Recommendation:

Staff recommends that the Board of Directors adopt the attached resolution approving the SGWASA Sewer System Asset Inventory and Assessment Report, including the Asset Management Plan and 10-Year Capital Improvement Plan.

Schedule:

The resolution is scheduled for consideration at the Board's October 13, 2026 meeting. Upon adoption, the approved report and plans will be used in SGWASA's ongoing annual asset management, capital improvement, and budget processes.

Financial:

The AIA project was supported by a \$200,000 NCDEQ grant funded with State ARPA funds and required no local match. The grant and associated McGill task costs were included in Budget Amendment 2 approved by the Board on August 8, 2023. Approval of the final report and attached resolution does not, by itself, authorize expenditures for individual projects identified in the 10-Year Capital Improvement Plan; future projects remain subject to applicable Board and budget approvals.

Attachments:

- Sewer System Asset Inventory and Assessment and Asset Management Plan Approval Resolution
- Executive Summary - Sewer System Asset Inventory and Assessment Report
- 10-Year Capital Improvement Plan

Strategic Plan Goal & Objective Alignment:

Focus Area #2 – Reliable and Sustainable Sanitary Sewer System

Objective #1: Provide for upgrades and ongoing maintenance of sewer system infrastructure through regular assessments of capital assets and inclusion of needed projects in the Authority's Capital Improvement Plan.

Objective #3: Enhance the financial and operational components of the sanitary sewer system to support capital investments and efficient operations.

Executive Director's Recommendation:

The Executive Director recommends that the SGWASA Board of Directors approve the attached Sewer System Asset Inventory and Assessment and Asset Management Plan Approval Resolution, thereby adopting the completed Sewer System Asset Inventory and Assessment Report, Asset Management Plan, and 10-Year Capital Improvement Plan.



South Granville Water and Sewer Authority

**SEWER SYSTEM ASSET INVENTORY AND ASSESSMENT AND ASSET
MANAGEMENT PLAN APPROVAL RESOLUTION**

WHEREAS, the South Granville Water and Sewer Authority (SGWASA) has need for and conducted an asset inventory and assessment to develop a 10-year CIP and Asset Management Plan for SGWASA’s sewer system; and

WHEREAS, SGWASA recognizes the need for and advantage of maintaining adequate short-term and long-term planning for asset management and capital improvements to the sewer system on an annual basis; and

WHEREAS, SGWASA applied for and received a grant from the North Carolina Division of Water Infrastructure to prepare an Asset Inventory and Assessment Report which includes an Asset Management Plan and 10-year CIP; and

WHEREAS, SGWASA has completed a sewer system Asset Inventory and Assessment Report in accordance with the North Carolina Division of Water Infrastructure recommended guidelines and grant conditions; and

WHEREAS, the implementation of the sewer system Asset Inventory and Assessment Report, which includes an Asset Management Plan and 10-year CIP requires approval by the SGWASA governing board.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SOUTH GRANVILLE WATER AND SEWER AUTHORITY:

That the South Granville Water And Sewer Authority approves the ASSET INVENTORY AND ASSESSMENT REPORT AND THE ASSET MANAGEMENT PLAN AND 10-YEAR CIP WITHIN.

Adopted this the 13th day of October, 2026, at Butner, North Carolina.

_____	_____	_____	_____
Commissioner Kenneth McLamb - Chair	Date	Attest: Board Secretary	Date

CERTIFICATION BY RECORDING OFFICER

The undersigned duly qualified Board Secretary of the South Granville Water And Sewer Authority does hereby certify:

That the attached resolution is a true and correct copy of the resolution authorizing the approval of the SGWASA Asset Inventory and Assessment Report, which includes an Asset Management Plan and 10-year CIP, as regularly adopted at a legally convened meeting of the SGWASA Board duly held on the 13th of October, 2026; and, further, that such resolution has been fully recorded in the journal of proceedings and records in my office. IN WITNESS WHEREOF, I have hereunto set my hand this ____ day of _____, 2026.

SIGNATURE

PRINTED NAME AND TITLE

**SGWASA Board of Directors Executive Summary: Sewer Asset Inventory Assessment (AIA) &
Asset Management Plan**

October 2026

Executive Summary: Sewer Asset Inventory Assessment (AIA) & Asset Management Plan

1. Project Overview & Background

The South Granville Water and Sewer Authority (SGWASA) Sewer AIA Final Report was prepared by McGill Associates, P.A. (Project No. AIA-W-ARP-0204) for the South Granville Water and Sewer Authority (SGWASA). This initiative was funded through the North Carolina Department of Environmental Quality (NCDEQ) Division of Water Infrastructure (DWI) AIA Grant program.

The primary objective of the Asset Inventory Assessment (AIA) and Asset Management Plan (AMP) is to provide SGWASA leadership with a comprehensive, data-driven roadmap for managing wastewater infrastructure. By identifying critical system vulnerabilities and prioritizing capital investments, the plan enables proactive asset management, optimizes financial planning, and ensures long-term service reliability for customers in Butner, Stem, and Creedmoor.

2. Wastewater System Asset Inventory

SGWASA currently serves a population of 17,232 across more than 5,000 residential, commercial, industrial, and institutional connections. The assessment evaluated both vertical (treatment facilities and lift stations) and linear (gravity lines and force mains) assets.

Asset Category	System Quantity / Capacity	Key Notes
Gravity Sewer Lines	591,630 LF	Includes legacy piping dating back prior to 1970.
Force Mains	63,676 LF	Pressurized sewer mains connecting lift stations.
Lift Stations	51 Stations	Individual pumping facilities throughout the network.
Wastewater Treatment Plant	5.5 MGD Permitted Capacity	Currently treats an average daily flow of 2.0 MGD.

3. Condition Assessment & Critical Findings

- **Aging Infrastructure:** Much of SGWASA's collection system was installed prior to 1970 and consists of legacy components reaching or exceeding their structural useful life.

**SGWASA Board of Directors Executive Summary: Sewer Asset Inventory Assessment (AIA) &
Asset Management Plan**

October 2026

- **Inflow & Infiltration (I/I):** Older pipes and manholes are highly susceptible to joint separation, cracks, and groundwater/stormwater infiltration. This excessive I/I reduces available capacity at lift stations and the treatment plant during heavy rain events.
 - **Operational Expense Impact:** System deficiencies disproportionately increase operational costs due to frequent line jetting, emergency pipe repairs, excessive pump wear, and localized sanitary sewer overflows (SSOs) during wet weather.
 - **Prioritized Focus:** Physical visual inspections, drawdown testing on lift stations, and engineering evaluations revealed an urgent need to rehabilitate aging treatment plant processes, replace high-risk lift stations, and execute targeted collection line replacements.
-

4. Ten-Year Capital Improvements Plan (CIP: 2026–2036)

To systematically address condition deficiencies and mitigate system risk, a 10-year Capital Improvements Plan totaling **\$72,571,400** has been established.

Major CIP Projects & Programs

- **Wastewater Treatment Plant Upgrades (\$4,208,000 Total):** Includes Clarifier #3 Rehabilitation (\$2,443,000), Second Stage Sludge Digesters Rehabilitation (\$1,709,000), and SCADA Upgrades (\$56,000).
- **Lift Station Capital Improvements (\$4,391,000 Total):** Priority projects include Mt. Energy Lift Station Rehabilitation (\$1,919,000), Robinson Creek Lift Station Rehabilitation (\$1,364,000), Lift Station Improvement Program (\$991,000), and Franklin Street Lift Station Engineering (\$113,000).
- **Collection Line Replacement Projects (\$32,873,000 Total):** High-priority replacements across critical sub-basins including 5th & 6th Streets (\$3,860,000), 7th & 8th Streets (\$3,709,000), 18th & E G Streets (\$3,051,000), 12th & 13th Streets (\$2,626,000), 24th & E Streets (\$2,534,000), 19th & 20th Streets (\$2,391,000), 27th & 28th Streets (\$2,374,000), 22nd & 23rd Streets (\$2,030,000), 21st & W F Streets (\$1,970,000), D & 31st Streets (\$1,665,000), Cozart St & E Lyon St (\$1,594,000), Hillsboro St & S Elm St (\$1,240,000), and Hawley School Rd & HWY 56 (\$801,000).
- **Systemwide Resilience & Maintenance Programs (\$35,099,400 Total):** Includes the Wastewater Generator Replacement Program (\$24,191,000), Manhole Replacement Program (\$6,972,000), Annual Sewer Cleaning and Televising Program (\$2,068,400), and a Comprehensive Sewer Master Plan (\$900,000).

**SGWASA Board of Directors Executive Summary: Sewer Asset Inventory Assessment (AIA) &
Asset Management Plan**

October 2026

5. Operations & Maintenance (O&M) Strategic Plan

The report emphasizes transitioning from reactive maintenance to a structured preventative maintenance schedule to protect capital investments:

- **Annual CCTV Program:** Televis and inspect approximately 10% of the gravity sewer system annually to detect minor structural faults prior to failure.
- **GIS Mapping & Data Collection:** Continuously update digital spatial data with maintenance history, repair logs, and asset conditions.
- **Routine Inspections:** Maintain formal visual inspection schedules for high-priority aerial lines, stream crossings, force mains, and pump stations.
- **Spare Parts & Monitoring:** Expand inventory management for crucial spare parts and enhance sub-basin flow monitoring to pinpoint I/I sources.

6. Financial Planning & Next Steps

The data compiled in this AIA provides SGWASA with the foundational analytics needed to update its long-term financial rate-setting model. Integrating these project estimates into future financial models ensures SGWASA can schedule, finance, and execute necessary capital upgrades while maintaining reserve fund health, balancing enterprise revenues, and securing sustainable wastewater services for the community.

10-Year Capital Improvement Plan (placeholder)

Agenda Item-12

Topic: FY2026-27 Sanitary Sewer Cleaning and Televising Services Contract Award

Requested Action: Award of Contract to Total Environmental Services Inc. for Sewer Cleaning and Televising

Presenter: Chris Summerlin, Assistant Executive Director

Background:

SGWASA is required (DEQ-Annual Operating Permit) to clean and inspect at least 10% (11.4 miles) of the total 114 miles of pipe in the wastewater collection system. According to the USEPA, “Cleaning and inspecting sewer lines are essential to maintaining a properly functioning system; these activities further a community’s reinvestment into its wastewater infrastructure.”

SGWASA performs some sewer cleaning work in-house, however, SGWASA relies on a contractor to provide the majority of the work required for cleaning and televising to achieve the annual inspection requirements. Until such time that SGWASA invests in additional human resources and equipment resources, this program will continue to be managed via a commercial company.

During the past three years, SGWASA has spent an average of \$170,000 per year on this contractual service. The FY2026-27 budgeted expense for this program is \$175,100.

Analysis:

On July 17, 2026, SGWASA issued a Request for Proposals (RFP) for annual sanitary sewer pipeline cleaning and televising. The contract is for a period one (1) year beginning with contract award. Owner shall have the option to extend the contract for an additional term, with pricing to be mutually agreed upon by the parties prior to the commencement of the extension term. Should the contract be recommended for an extension, staff will seek Board approval for the contract extension. The following table of values represents the items found within the bid proposal.

Item #	Item Description	Total Quantity	Unit
1.1	Pipeline Cleaning (various pipe sizes 6” dia.-36” dia.)	30,000	Linear Foot
1.2	Pipeline CCTV Inspection (various pipe sizes 6” dia.-36” dia.)	10,000	Linear Foot
1.3	Sewer Pump Station Cleaning (20 stations per year)	120	Hour
1.4	Heavy Sewer Cleaning	16	Hour
1.5	Mineral Deposit Cut	16	Hour
1.6	Root Cut	16	Hour

On August 11, 2026, proposals were opened. The following six vendors provided proposals for the scope of work outlined in the RFP. The complete bid tabulation is attached as Exhibit A.

Company	FY26-27 Program Cost Summary
Total Environmental Services Inc.	\$138,600.00
Duke's Root Control Inc.	\$144,800.00
Sweeping Corp of America, LLC	\$151,400.00
PipeView Technologies, LLC	\$174,500.00
Taplin Group	\$230,553.70
Ellington Contractors DBA IntraGrade	\$238,300.00

Contract Award:

As provided by Statute, award will be based on the best proposal, most advantageous to SGWASA as determined by consideration of:

1. Price
2. General reputation and performance capabilities of the contractor
3. Conformity with intent of the specifications.

Recommendation:

SGWASA staff recommends an award of contract to Total Environmental Services, Inc. at the unit costs proposed for the sanitary sewer cleaning and televising program for FY26-27. Based on the vendor's performance during FY26-27, SGWASA will consider awarding the vendor the work for the FY27-28 program. If this occurs, staff will present the FY27-28 sanitary sewer cleaning and televising program recommendation for award to the Board of Directors at the appropriate time.

Schedule:

Following Board approval, SGWASA will execute the necessary contract documents and schedule the work.

Financial:

This item is contained within SGWASA's CIP plan and requires a budget amendment to move it from CIP to the operating budget. The budget amendment related to this item comes later in the agenda.

Attachment(s):

Exhibit A.: Sanitary Sewer Cleaning and Television Bid Tabulation.

Strategic Plan Alignment

Focus Area #2 – Reliable and Sustainable Sanitary Sewer System

- **Objective #1:** Provide for upgrades and ongoing maintenance of the sewer system infrastructure through regular assessments of capital assets and the inclusion of needed projects in the Authority's Capital Improvement Plan (CIP).

Executive Director's Recommendation:

The SGWASA Board (i) approve the unit-cost contract with Total Environmental Services, Inc. for the FY2026-27 Sanitary Sewer Cleaning and Televising program for the not-to-exceed amount of \$138,600.00 and the Executive Director be given the authority to review and approve change orders relating to unexpected condition in an amount not to exceed \$36,500 without further Board approval; (ii) allow SGWASA staff to finalize and execute a contract with Total Environmental Services, Inc.

Exhibit A.: Sanitary Sewer Cleaning and Television Bid Tabulation.

South Granville Water and Sewer Authority																
Bid Tabulation																
Company Name:		South Granville Water and Sewer Authority														
Project #:		N/A														
Project Name:		Sanitary Sewer Pipeline Cleaning & Televising														
Project Manager:		Joel Coats														
Bid Opening Date:		Bids Due 8/7/26 Bid Opening 8/11/26														
Proposers																
Bid Quantities																
Ref #	Bid Item #	Item Description	Qty.	Unit	Taplin Group		Ellington Contractors DBA IntraGrade		Sweeping Corporation of America LLC		PipeView Technologies LLC		Total Environmental Services Inc		Duke's Root Control Inc.	
					Unit Amount	Bid	Unit Amount	Bid	Unit Amount	Bid	Unit Amount	Bid	Unit Amount	Bid	Unit Amount	Bid
1	1.1	Pipeline Cleaning (Various pipe sizes 6" dia. - 36" diameter)	30000	Linear Foot	4.38	131400	4.25	127500	2.25	67500	3	90000	1.4	42000	1.8	54000
2	1.2	Pipeline CCTV Inspection (various pipe sizes 6" dia. - 36" dia.)	10000	Linear Foot	2.02	20200	2.8	28000	2.15	21500	1.75	17500	3	30000	2	20000
3	1.3	Sewer Pump Station Cleaning (20 stations per year)	120	Hour	420.31	50437.2	450	54000	400	48000	425	51000	425	51000	450	54000
4	1.4	Heavy Sewer Cleaning	16	Hour	576.76	9228.16	600	9600	300	4800	300	4800	350	5600	350	5600
5	1.5	Mineral Deposit Cut	16	Hour	602.76	9644.16	600	9600	300	4800	400	6400	275	4400	350	5600
6	1.6	Root Cut	16	Hour	602.76	9644.16	600	9600	300	4800	300	4800	350	5600	350	5600
7	1.7	Sub-Total				230553.7	238300	151400				174500	138600			144800

Agenda Item-13

Topic: Fiscal Year 2026-2027 Budget Amendment #3

Requested Action: Seeking the Board of Directors approval of Budget Amendment #3

Presenter(s): Richard Balmer, Finance Director

Background:

FY2026-2027 Budget Amendment #3 appropriates budget for the annual Sanitary Sewer Cleaning and Televising Services as contained in the Capital Improvement Plan and presented to the Board in an earlier item this evening. This Amendment is funded from designated fund balance.

Board Approved FY 2026-2027 Budget Amendments to Date: Effect on Fund Balance

Item	Operating	CIP	Total Amount
Original Budget Ordinance	(\$ 221,511)	\$ 0	(\$ 221,511)
Budget Amendment #1 (August 2026)	(\$ 11,177,120)	\$ 0	(\$ 11,177,120)
Budget Amendment #2 (August 2026)	(\$ 3,190)	\$ 0	(\$ 3,190)
Total	(\$ 11,401,821)	\$ 0	(\$ 11,401,821)

Budget Amendment #3

Be it ordained, the FY 2026-2027 Annual Budget Ordinance is hereby amended as follows:

Revenues: Increase / (Decrease)	Amendment/Change		
Transfer from Fund Balance	\$	175,100	
Total Revenues		\$	175,100
Expenditures: Increase / (Decrease)			
Utilities: Sewerline Maintenance	\$	175,100	
Total Expenditures		\$	175,100

Strategic Plan Alignment:

Focus Area #1 – Safe, Reliable and Sustainable Water System

- Objective #4: Enhance financial and operational components of the water system to support capital investments and efficient operations.

Focus Area #2 – Reliable and Sustainable Sanitary Sewer System

- Objective #3: Enhance financial and operational components of the sanitary sewer system to support capital investments and efficient operations.

Attachments:

BA3 Supporting Documentation

Executive Director's Recommendation:*The SGWASA Board of Directors approve Budget Amendment #3.**Budget Amendment #3 Supporting Documentation*

BA #3 Supporting Documentation (For Reference Only)				
		Amendment / Change	Budget after Change	
<u>Various</u>				
61-7140-3520	Repairs and Maintenance-Major	\$ 175,100	\$ 175,100	
61-4000-0000	Transfer to/from Fund Balance	\$ (175,100)	\$ (11,576,921)	
	<i>Appropriate budget for annual CCTV Cleaning per CIP</i>	0		
	<i>Funded from CIP Fund Balance</i>			
		Operating	CIP	Total
	Transfer to (from) FB-original budget	\$ (221,511)	\$ 0	(\$221,511)
	Budget Amendment #1	\$ (11,177,120)	\$ 0	(\$11,177,120)
	Budget Amendment #2	\$ (3,190)	\$ 0	(\$3,190)
	Budget Amendment #3	\$ 0	\$ (175,100)	(\$175,100)
	Transfer to (from) FB-amended budget	\$ (\$11,401,821)	\$ (\$175,100)	(\$11,576,921)

Agenda Item- 14

Topic: Record Retention Policy for ARP/CSLFRF funding

Requested Action: Adoption of the Record Retention Policy: Documents Created or Maintained Pursuant to the ARP/CSLFRF Award Policy as presented

Presenter: Scott N. Schroyer, Executive Director/Richard Balmer, Finance Director

Executive Summary:

SGWASA staff recommends adopting the proposed ARP/CSLFRF Record Retention Policy to complete grant closeout reporting by December 31, 2026, with the North Carolina Department of Environmental Quality. The policy covers \$35.35 million in expended American Rescue Plan funds used for the I-85 Sanitary Sewer Project and two Asset Inventory Assessment grants. Serving as an addendum to SGWASA's existing 2016 policy, it fulfills mandatory U.S. Department of Treasury compliance standards.

Background:

SGWASA received American Rescue Plan (ARP) funding for the I-85 Sanitary Sewer Project and two (2) Asset Inventory Assessment (AIA) grants for water and sewer as shown below. These grants have been expended in advance of the ARPA deadline of December 31, 2026.

SRP-W-ARP-0048	I85 Project	\$35,000,000
AIA-D-ARP-0134	Water AIA	\$ 150,000
AIA-W-ARP-0204	Sewer AIA	\$ 200,000

Analysis:

To close out the reporting with the North Carolina Department of Environmental Quality (DEQ), adoption of a record retention policy specific to ARP-funded, CSLFRF awards is required as set forth by the U.S. Department of Treasury.

The Authority's current Record Retention Policy as adopted on July 12, 2016 remains in effect with this Policy serving as an addendum to the existing Policy.

Recommendation:

SGWASA staff recommends that the Board adopt the Record Retention Policy: Documents Created or Maintained Pursuant to the ARP/CSLFRF Award Policy as presented.

Schedule:

Following Board approval, SGWASA will provide the Policy to NCDEQ as part of the closeout reporting for these grants funded projects.

Financial:

This Policy has no financial impact other than to formally close out the associated capital project funding with state and/or federal agencies.

Attachment(s):

Exhibit A.: Record Retention Policy: Documents Created or Maintained Pursuant to the ARP/CSLFRF Award

Strategic Plan Alignment

Focus Area #1 – Safe, Reliable and Sustainable Water System

- **Objective #4: Enhance financial and operational components of the water system to support capital investments and efficient operations.**

Focus Area #2 – Reliable and Sustainable Sanitary Sewer System

- **Objective #3: Enhance financial and operational components of the sanitary sewer system to support capital investments and efficient operations.**

Executive Director's Recommendation:

The SGWASA Board (i) amend the current Record Retention Policy with Addendum 1 that is pursuant to the ARP/CSLFRF Award Policy as presented.

Exhibit A.: Record Retention Policy: Documents Created or Maintained Pursuant to the ARP/CSLFRF Award

Record Retention Policy: Documents Created or Maintained Pursuant to the ARP/CSLFRF Award

Retention of Records: The Coronavirus Local Fiscal Recovery Funds (“CSLFRF”) [Award Terms and Conditions](#) and the [Compliance and Reporting Guidance](#) set forth the U.S. Department of Treasury’s (“Treasury”) record retention requirements for the ARP/CSLFRF award.

It is the policy of the South Granville Water and Sewer Authority to follow Treasury’s record retention requirements as it expends CSLFRF pursuant to the APR/CSLFRF award. Accordingly, the South Granville Water and Sewer Authority agrees to the following:

- Retain all financial and programmatic records related to the use and expenditure of CSLFRF pursuant to the ARP/CSLFRF award for a period of five (5) years after all CLFRF funds have been expended or returned to Treasury, whichever is later.
- Retain records for real property and equipment acquired with CSLFRF for five years after final disposition.
- Ensure that the financial and programmatic records retained sufficiently evidence compliance with section 603(c) of the Social Security Act “ARPA,” Treasury’s regulations implementing that section, and guidance issued by Treasury regarding the foregoing.
- Allow the Treasury Office of Inspector General and the Government Accountability Office, or their authorized representatives, the right of timely and unrestricted access to any records for the purpose of audits or other investigations.
- If any litigation, claim, or audit is started before the expiration of the 5-year period, the records will be retained until all litigation, claims, or audit findings involving the records have been resolved.

Covered Records: For purposes of this policy, records are information, regardless of physical form or characteristics, that are created, received, or retained that evidence South Granville Water and Sewer Authority’s expenditure of CSLFRF funds on eligible projects, programs, or activities pursuant to the ARP/CSLFRF award.

Records that shall be retained pursuant to this policy include, but are not limited to, the following:

- Financial statements and accounting records evidencing expenditures of CSLFRF for eligible projects, programs, or activities.

- Documentation of rational to support a particular expenditure of CSLFRF (e.g., expenditure constitutes a general government service);
- Documentation of administrative costs charged to the ARP/CSLFRF award;
- Procurement documents evidencing the significant history of a procurement, including, at a minimum, the rationale for the method of procurement, selection of contract type, contractor selection or rejection, and the basis for contract cost or price;
- Subaward agreements and documentation of subrecipient monitoring;
- Documentation evidencing compliance with the Uniform Guidance property management standards set forth in 2 C.F.R. §§ 200.310-316 and 200.329;
- Personnel and payroll records for full-time and part-time employees compensated with CSLFRF, including time and effort reports; and
- Indirect cost rate proposals

Storage: South Granville Water and Sewer Authority's records must be stored in a safe, secure, and accessible manner. Wherever practicable, such records should be collected, transmitted, and stored in open and machine-readable formats.

Departmental Responsibilities: Any department or unit of the South Granville Water and Sewer Authority and its employees, who are responsible for creating or maintaining the covered documents in this policy shall comply with the terms of this policy. Failure to do so may subject the South Granville Water and Sewer Authority to civil and/or criminal liability. Any employee who fails to comply with the record retention requirements set forth herein may be subject to disciplinary sanctions, including suspension or termination.

The Executive Director is responsible for identifying the documents that South Granville Water and Sewer Authority must or should retain and arrange for the proper storage and retrieval of records. The Executive Director shall also ensure that all personnel subject to the terms of this policy are aware of the record retention requirements set forth herein.

Reporting Policy Violations: The South Granville Water and Sewer Authority is committed to enforcing this policy as it applies to all forms of records. Any employee that suspects the terms of this policy have been violated shall report the incident immediately to that employee's supervisor. If an employee is not comfortable bringing the matter up with the supervisor, the employee may bring the matter to the attention of the Executive Director. The South Granville Water and Sewer Authority prohibits, any form of discipline, reprisal, intimidation, or retaliation for reporting incidents of inappropriate conduct of any kind, pursuing any record destruction claim, or cooperating in related investigations.

Questions About the Policy: Any questions about this policy should be referred to Executive Director, 919-575-3367, sschroyer@sgwasa.org, 415 Central Ave Ste B Butner NC 27509 who is in charge of administering, enforcing, and updating this policy.

Agenda Item- 15

Topic: SGWASA Board of Directors 2027 Meeting Schedule

Requested Action: Seeking the Board of Directors review and approval of the meeting schedule for 2027.

Presenter(s): Scott N. Schroyer, Executive Director

Background:

Annually in the fourth quarter of the year, we prepare a draft meeting schedule for the upcoming year. Please find attached the South Granville Water and Sewer Authority (SGWASA) Board of Directors Regular Meeting Schedule for 2027.

The SGWASA Board Meetings will continue to be held on the second Tuesday of each month, beginning at 6:00 pm, located at the Town of Butner Council Chambers (415 Central Avenue, Butner, NC 27509).

Attachment:

Exhibit A: 2027 Board of Directors Meeting Schedule.

Executive Director's Recommendation:

The Board of Directors approve the 2027 Board Meeting Schedule as shown in Exhibit A.



South Granville Water and Sewer Authority

2027 Board Meeting Schedule

MEETING	DATE
January Board Meeting	January 12, 2027
February Board Meeting*	February 9, 2027
March Board Meeting	March 9, 2027
April Board Meeting	April 13, 2027
May Board Meeting	May 11, 2027
June Board Meeting	June 8, 2027
July Board Meeting	July 13, 2027
August Board Meeting	August 10, 2027
September Board Meeting	September 14, 2027
October Board Meeting	October 12, 2027
November Board Meeting	November 9, 2027
December Board Meeting	December 14, 2027

* Annual Meeting for the Election of Officers: Chair, Vice-Chair, Secretary, and Treasurer

SGWASA Board Meetings are held at 415 Central Avenue in Butner, NC 27509 within the Town of Butner Council Chambers. Meetings begin promptly at 6:00 pm (unless otherwise listed). Check sgwasa.org for meeting updates.

South Granville Water & Sewer Authority

 (919) 575-3367

 (919) 575-4547

 www.sgwasa.org

 customerservice@sgwasa.org

 415 Central Ave, Ste B

Butner, NC 27509

Agenda Item- 16

Topic: 2027 Holiday Schedule for Employees

Requested Action: This item is informational only and does not require Board Action.

Presenter(s): Scott N. Schroyer, Executive Director/Priscilla Adcock, Human Resources Manager

Background:

SGWASA currently observes ten holidays annually, aligning with other North Carolina municipal utilities.

The SGWASA 2027 Holiday Schedule reflects the same Holidays observed in 2026 and was discussed at the September 14, 2026, Finance Committee Meeting.

The schedule that SGWASA follows comes from the NC Office of State Human Resources website.

Recommendation:

This item is informational only and does not require Board approval.

Attachment:

Exhibit A.: 2027 SGWASA Holiday Schedule

Executive Director's Recommendation:

This item is informational only and does not require Board approval.

Exhibit A.: Proposed 2027 SGWASA Holiday Schedule

2027 SGWASA Holiday Schedule		
Holiday	Observance Date	Day of Week
New Year's Day	January 1, 2027	Friday
Martin Luther King, Jr's Birthday	January 18, 2027	Monday
Good Friday	March 26, 2027	Friday
Memorial Day	May 31, 2027	Monday
Juneteenth National Independence Day	June 18, 2027	Friday
Independence Day	July 5, 2027	Monday
Labor Day	September 6, 2027	Monday
Veteran's Day	November 11, 2027	Thursday
Thanksgiving	November 25 & 26, 2027	Thursday & Friday
Christmas	December 23, 24 & 27, 2027	Thursday, Friday, Monday

Agenda Item-17

Comments from the Executive Director

Scott N. Schroyer, Executive Director, will provide the Board with comments and any special items for the Board of Directors.

- Update: Utility Service, Capacity Management, and Infrastructure Extension Policy Draft.

Executive Summary

SGWASA is developing a comprehensive policy framework to guide decisions regarding utility service requests, capacity allocation, and water and wastewater infrastructure extensions. The policy is intended to:

- Protect existing customers and utility system reliability.
- Responsibly manage available water and wastewater capacity.
- Support economic development and orderly growth within the service area.
- Promote efficient infrastructure investment and extension decisions.
- Protect SGWASA's long-term financial sustainability.

Background

- Staff presented the initial draft policy framework to the Board of Directors at its September 8, 2026 meeting.
- Following the presentation, Board Chair McLamb requested that Board members submit written comments and questions to the Executive Director by September 22, 2026.
- Board feedback was received and is being compiled. In general, the Board comments received raised several policy, operational, and implementation questions that warrant additional review and discussion before the policy is finalized.
- My goal is to bring this item back to the Board at the November 10, 2026 Regular Board meeting for discussion.
- **Finance Committee** meeting held on Monday, September 14, 2026, 9:00 a.m., at the Butner Town Hall meeting room.
 - Topics discussed at the meeting included:
 - PFAS funding and future rates,
 - AIA Water & Sewer Program Results – Presentation by McGill Associates,
 - I-85 Sanitary Sewer Improvement Project – Northern Interceptor sewer construction funding and timing.
- **Water Filter Media Replacement Project – Post Construction Water Analysis & Reporting.**
 - Hazen & Sawyer, the professional engineering company that managed the filter media replacement project, provided SGWASA with a final project report demonstrating the water quality improvements that were achieved from the filter media replacement project. The Board members were provided with a copy of the report at the September 14, 2026 meeting.

- Chris Summerlin, Asst. Executive Director, will provide a brief presentation on this topic to the Board this evening.
- **Unidirectional Flushing Pilot Program** was conducted on September 22-23 in the Golden Pond subdivision in the City of Creedmoor.
 - Chris Summerlin, Asst. Executive Director will provide an update on this item.
- **Proposed Annual Report – Cost of Service Estimate.**
 - I discussed this with the Board at the September 14, 2026 meeting. In summary, Raftelis Consultants provided me with a draft scope of work and cost to develop an annual report. The estimated cost for the professional services and resulting document is \$24,800. This item was not included in the FY26-27 Budget.
 - I’m seeking the Board’s direction on how to proceed with this item.
- **Strategic Plan Update – Professional Services Sought for Assistance with this Project.**
 - I discussed this with the Board at the September 14, 2026 meeting. In summary, SGWASA’s 5-year Strategic Plan expires in late 2026. I met with Raftelis Consultants to discuss a draft scope of work and strategies to update the Strategic Plan for the next five years. A draft scope and fee was received in early October, and I’m currently reviewing it. I’ll bring this item back to the Board for additional discussion once a draft scope and fee has been reviewed.

Agenda Item-18

Comments from the SGWASA Attorney

Attorney James Wrenn will provide the Board with comments and any special items for the Board of Directors.

Agenda Item-19

Comments from Board Members

Thomas Lane, Town of Butner Councilperson

Vicky Daniels, Town of Butner Mayor Pro Tem

Archer Wilkins, Mayor Pro-Tem, City of Creedmoor Commissioner

Jimmy Gooch, Granville County Commissioner

Russ May, Granville County Commissioner

Georgana Kicinski, City of Creedmoor Commissioner/SGWASA Vice Chair

Kenneth McLamb, Town of Stem Commissioner/SGWASA Chair

Agenda Item-20

Closed Session (as needed)

Agenda Item-21

Adjournment

Agenda Item -17 Filter Media Presentation Slides

Hazen



South Granville Water and Sewer Authority

Filter Media Replacement: Drivers & Benefits for the Butner WTP

September 2, 2026



1

Condition of Filter Media at Butner WTP

2

2

Filter Media Replacement

- Previous media installed in 2002
 - Industry practice is to replace media every **10-15 years**
- Why replace media?
 - Media hardness decays, causing media to break down into smaller fines
 - Media effective sizes (ES) and uniformity coefficients (UC) decrease
 - Solids tend to get removed at top of media rather than depth filtration
 - Higher head requirements -> shorter filter runs
 - Precipitates accumulate on media surface (measured with acid solubility)



Media replacement is a routine WTP maintenance activity that maintains filtration performance, preserves media characteristics, minimizes excessive headloss, and reduces media loss during backwashing

Hazen

3

3

Original (Old) Media Analysis Results

Filter 2 Media Analysis

Parameter	Anthracite		Sand	
	Original Design Value	Lab Analysis	Installed	Lab Analysis
Effective Size (mm)	0.9 – 1.2	0.65	0.45 – 0.55	0.29
Uniformity Coefficient (max)	1.7	2.3	1.65	2.3
Acid Solubility (max %)	5	27.6	5	43.1

Filter 5 Media Analysis

Parameter	Anthracite		Sand	
	Original Design Value	Lab Analysis	Installed	Lab Analysis
Effective Size (mm)	0.9 – 1.2	0.65	0.45 – 0.55	0.27
Uniformity Coefficient (max)	1.7	2.5	1.65	2.5
Acid Solubility (max %)	5	25.3	5	33.6

The effective sizes of anthracite and sand were 28% and 36% lower than original spec

The uniformity coefficients for anthracite and sand increased 47% and 51% respectively

Hazen

4

4

New Installed Media Properties

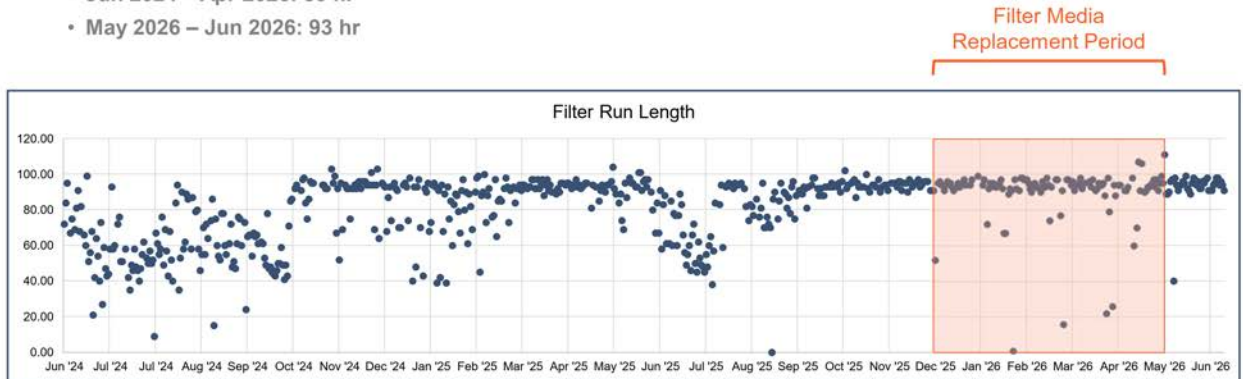
Parameter	Anthracite		Sand	
	Design Value	New Installed	Design Value	New Installed
Effective Size (mm)	0.95 – 1.05	1.0	0.45 – 0.55	0.51
Uniformity Coefficient (max)	1.4 or less	1.3	1.4 or less	1.3
Acid Solubility (max %)	5	1.3	5	1.4


 Original anthracite was up to 27.6%!
 
 Original sand was up to 43%!

Operational Improvements Based on MOR Data

Filter Runtime

- **16% increase** in average filter runtime (which relates to production efficiency)
- Jun 2024 – Apr 2026: 80 hr
- May 2026 – Jun 2026: 93 hr



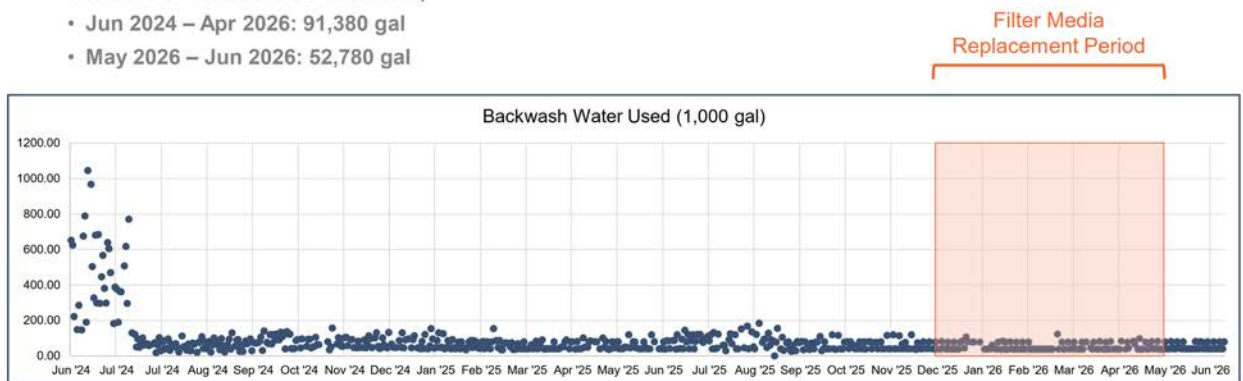
Hazen

7

7

Backwash Water Use

- **42% decrease** in average backwash volume (which means more produced water is available for distribution to customers)
- Jun 2024 – Apr 2026: 91,380 gal
- May 2026 – Jun 2026: 52,780 gal



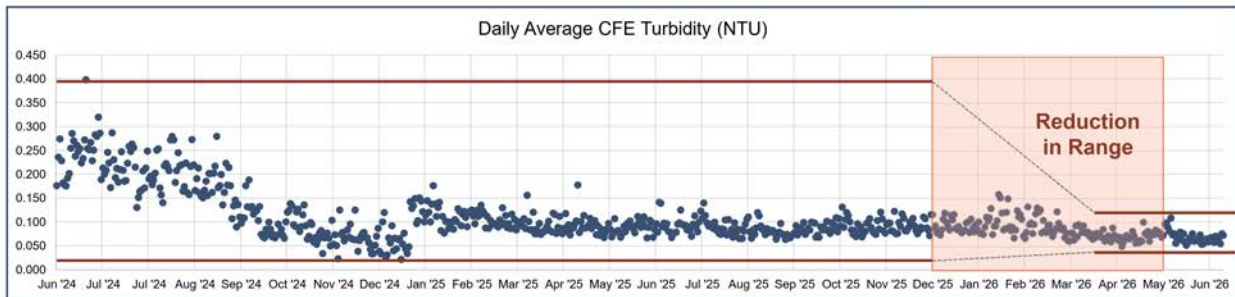
Hazen

8

8

Effluent Turbidity

- **37% decrease** in average finished water turbidity
 - Jun 2024 – Apr 2026: 0.11 NTU
 - May 2026 – Jun 2026: 0.07 NTU
- **85% decrease** in range of average finished water turbidity
 - Jun 2024 – Apr 2026: 0.02 – 0.4 NTU
 - May 2026 – Jun 2026: 0.05 – 0.11 NTU

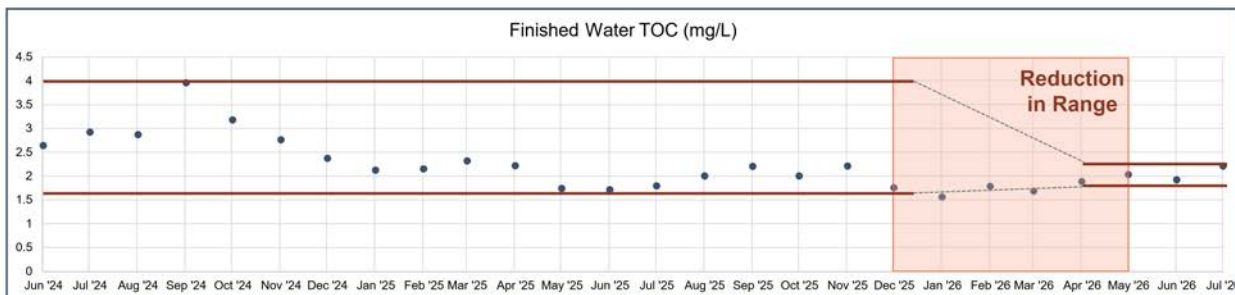


Hazen

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Finished Water TOC

- **9% decrease** in average finished water TOC
 - Jun 2024 – Apr 2026: 2.3 mg/L
 - May 2026 – Jun 2026: 2.1 mg/L
- **88% decrease** in range of finished water TOC
 - Jun 2024 – Apr 2026: 1.6 – 4.0 mg/L
 - May 2026 – Jun 2026: 1.9 – 2.2 mg/L

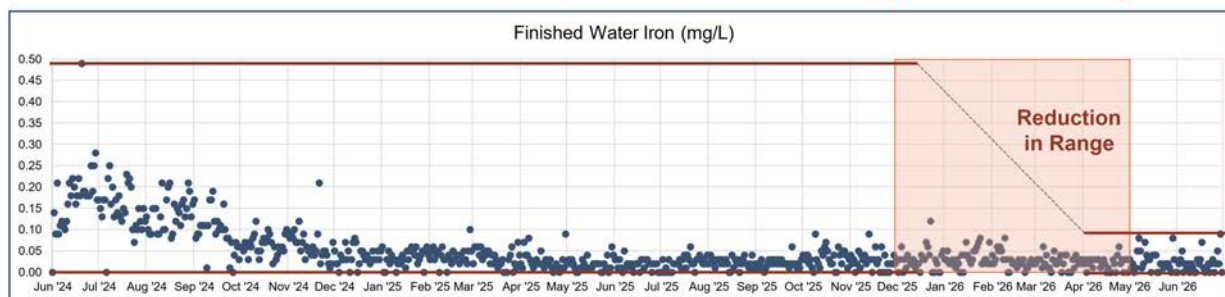


Hazen

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Finished Water Iron

- **54% decrease** in average finished water iron
 - Jun 2024 – Apr 2026: 0.05 mg/L
 - May 2026 – Jun 2026: 0.02 mg/L
- **82% decrease** in range of finished water iron
 - Jun 2024 – Apr 2026: 0.00 – 0.49 mg/L
 - May 2026 – Jun 2026: 0.00 – 0.09 mg/L



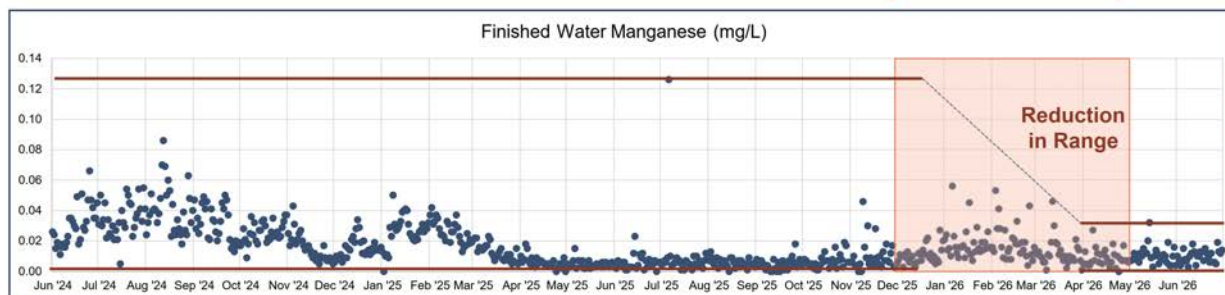
Hazen

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Finished Water Manganese

- **38% decrease** in average finished water manganese
 - Jun 2024 – Apr 2026: 0.02 mg/L
 - May 2026 – Jun 2026: 0.01 mg/L
- **77% decrease** in range of finished water manganese
 - Jun 2024 – Apr 2026: 0.00 – 0.13 mg/L
 - May 2026 – Jun 2026: 0.00 – 0.03 mg/L



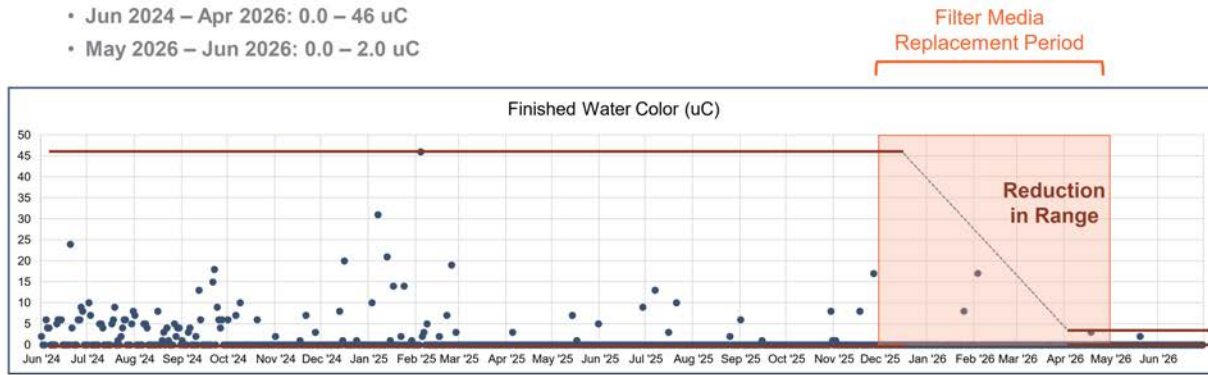
Hazen

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Finished Water Color

- **97% decrease** in average finished water color
 - Jun 2024 – Apr 2026: 1.00 uC
 - May 2026 – Jun 2026: 0.03 uC
- **96% decrease** in range of finished water color
 - Jun 2024 – Apr 2026: 0.0 – 46 uC
 - May 2026 – Jun 2026: 0.0 – 2.0 uC



Hazen

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Summary

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Filter Media Replacement: Drivers & Benefits Summary

Why Replace the Media?

- Existing media exceeded its service life and no longer met key design criteria
- Media degradation can increase headloss, reduce filtration efficiency, and increase maintenance requirements
- New media restores filter performance and supports long-term operational reliability

What Were the Results?

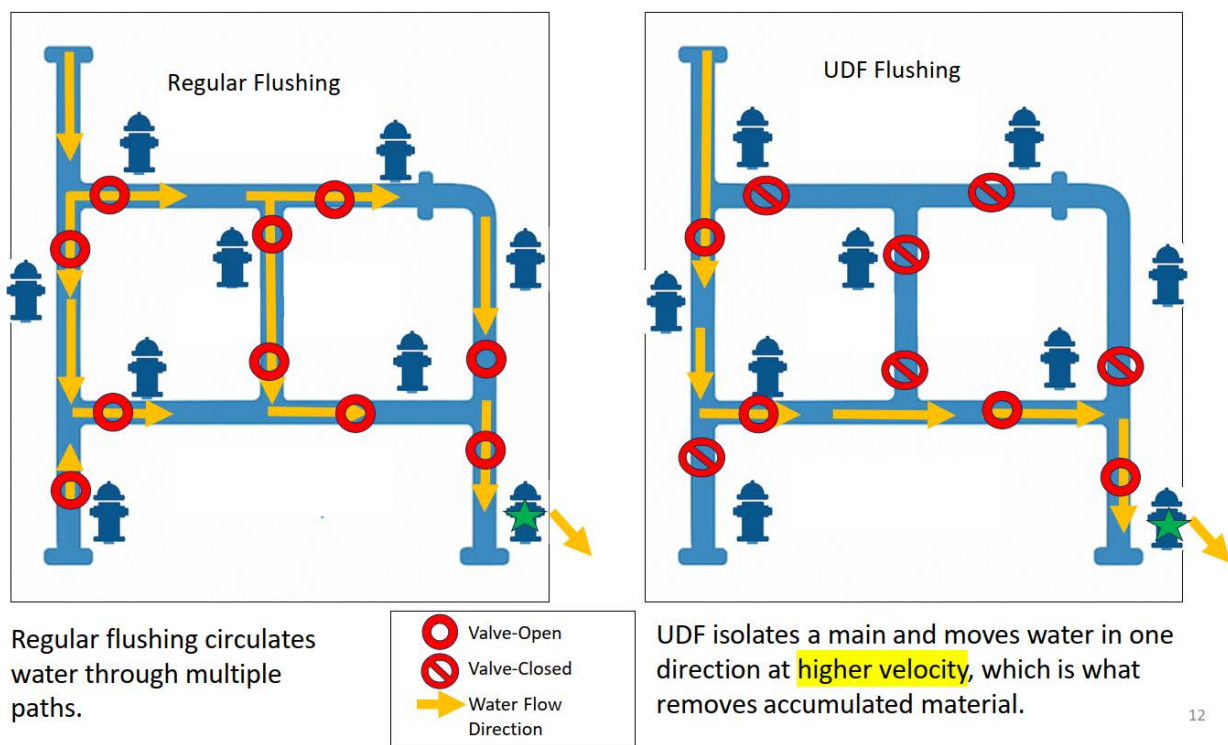
- 16% longer filter runs
- 42% less backwash water usage
- Improved effluent quality and consistency
- Media properties restored to design specifications
- New filter media should help provide more consistent water quality even with changing source water conditions

Agenda Item -17 Unidirectional Flushing Pilot Program Update

The SGWASA Board approved a task order at the January 13, 2026 Board meeting with Hazen and Sawyer for a Unidirectional Flushing Pilot Program in the Golden Pond Subdivision in the City of Creedmoor.

As a reminder, unidirectional flushing involves high velocity water flow through isolated pipe sections to remove sediment and corrosion byproducts. Unidirectional flushing requires detailed mapping and valve operating to ensure controlled unidirectional flow towards a desired point/outlet. Unidirectional flushing improves water clarity, reduces discoloration, enhances hydraulic performance and supports regulatory compliance.

Below is a visual representation of regular flushing vs unidirectional flushing.



As you can see, unidirectional flushing involves sending water in a specific direction to improve water quality, scour pipes and properly clean watermains.

This program was voted and approved by the SGWASA Board on January 13, 2026, but was delayed because of drought conditions that were experienced at Lake Holt. SGWASA is no longer in water restrictions, so this program was enacted on September 22 and completed on September 23 and was successful in achieving improved water quality in this subdivision.

All of the watermains inside of the Golden Pond Subdivision were properly flushed using the unidirectional flushing technique and water clarity and sediment inside of the water distribution system were greatly improved.

SGWASA is pleased that this program was enacted and went well. This pilot program was helpful for SGWASA to begin a specific program devoted to water flushing in the distribution system. Staff anticipates that future task orders will be brought to the SGWASA Board for further development of this program and to have a dedicated approach to improving water quality in the SGWASA water distribution system.

Below are some sample pictures of this unidirectional flushing program in action.

