

# South Granville Water And Sewer Authority

## Executive Director's Monthly Project Update Report – July 2025

**To:** SGWASA Board Members

**From:** Scott N. Schroyer, Executive Director *SNS*

**Topic:** Topics Update Report for July 2025

**Date:** Report Issue Date 8/7/25

### Executive Summary

This report provides an overview of SGWASA's ongoing projects, combining a high-level dashboard with detailed narratives. It highlights progress, challenges, and next steps for each major initiative, along with staffing updates and recent Board actions. I will respond to any questions you may have following your review of the information contained below.

### Project Dashboard

Project ID	Page #	Project Name	Status	Budget	Timeline	Key Update	Next Steps
1	5	PFAS Mitigation	● On Schedule	\$25M-\$30M	2024–2029	Pilot testing underway.	CDM-Smith developing a Scope of Work for design.
2	10	I-85 Sewer Upgrade – CP#1	● On Schedule	\$34M	2025–2028	New Joe Peed Pump station and E. Middleton Rd. pump station are under construction.	Concrete foundations and walls to be installed in August.
2	10	I-85 Sewer Upgrade – CP#2	● On Schedule	\$30M	2025–2028	Project Bid over budget by \$8M. Evaluating alternate design and bidding for the Northern Interceptor sewer portion.	Determining how to proceed with the Northern Interceptor project. Will consider re-bidding the project. Also considering alternate/additional funding via USDA, etc.

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Project ID	Page #	Project Name	Status	Budget	Timeline	Key Update	Next Steps
3	11	Lead & Copper Rule	● On Schedule	TBD	2022–2026	Pilot program in place	Material ID pilot underway.
4	12	Water Meter Replacement	● On Schedule	\$1M	2024–2025	Contractor aiming for September 2025 start.	SGWASA team meeting with meter installation vendor in August to fine-tune the project start dates. SGWASA is also developing marketing materials about the project.
5	13	Financial Software Upgrade	● On Schedule	N/A	2023–2025	Key billing and financial components installed and operational starting FY25-26.	SGWASA team is working with Tyler Technology team to implement new payroll software components.
6	14	Filter Media Replacement	● On Schedule	\$245K (design). Estimated \$700k construction.	2025–2026	Bid opening August 5, 2025. Note: One bid received at a total project cost of \$897,753.00.	Recommending award of contract to State Utility Contractors at the August 12 <sup>TH</sup> Board meeting.
7	18	AIA Grant Project for Water Infrastructure Assessment	● On Schedule	\$150k Grant; The AIA grant was funded from state ARPA money; thus, no local funding match is required.	2023-2025	Project in progress and on schedule.	Consultant completing updated asset management plan and Capital Improvement Plan projections.

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Project ID	Page #	Project Name	Status	Budget	Timeline	Key Update	Next Steps
8	20	AIA Grant Project for Wastewater Infrastructure Assessment	● On Schedule	\$200k Grant; The AIA grant was funded from state ARPA money; thus, no local funding match is required.	2024-2025	Project in progress and on schedule.	Consultant completing updated asset management plan and Capital Improvement Plan projections.
9	22	CIP# 101-10 Water Valve Replacement Project at the Water Treatment Plant – Design & Construction	● On Schedule	\$155,980.00 for design work. Construction costs to be determined.	Fall 2024- Fall 2025	Project in progress and on schedule.	The project design is 95% complete. A probable cost of construction is being determined. The project will be advertised for public bidding in the fall of 2025.
10	24	CIP# 102-10 Water Quality Improvements	● On Schedule	\$227,340.00.	Fall 2024-early 2026	Updating the hydraulic model.	Developing the hydrant flushing program.
11	25	CIP# 101-01 Water Treatment Master Plan: AIA Grant Funded	● On Schedule	\$150K grant from the NCDEQ; SGWASA to pay 20% funding match of \$30k.	Late 2025-January 2027.	This project is just in its initial stages of working through all the required grant paperwork submittals and authorization.	Completing required NCDEQ forms.

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Project ID	Page #	Project Name	Status	Budget	Timeline	Key Update	Next Steps
12	26	CIP# 108-01 Facility Needs Study	● On Schedule	\$43,718.00.	November 2024-Fall 2025	Working on facility master planning and evaluating some potential buildings for SGWASA's use.	The Board of Directors will be provided with a final report/overview in the fall of 2025.

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### Project Narratives

#### 1) PFAS Mitigation Strategies Program

- a) **Background:** PFAS, or “forever chemicals,” are persistent environmental contaminants found in many everyday products. Water utilities like SGWASA do not produce PFAS but SGWASA detected them in the source water.

On April 10, 2024, the EPA finalized enforceable drinking water standards for six PFAS compounds, including PFOA and PFOS, with Maximum Contaminant Levels (MCLs) as low as 4 parts per trillion. A Hazard Index was also introduced for PFAS mixtures.

#### Key Requirements

- Water systems must complete initial PFAS monitoring by 2027.
- If MCLs are exceeded, corrective actions must be implemented by April 2029.
- Public notification is required for any violations starting in 2029.
- For more details, visit the EPA PFAS website.

#### PFAS Reduction Technologies

PFAS can be reduced using Granular Activated Carbon (GAC), Reverse Osmosis (RO), or Ion Exchange (IX), with treatment costs ranging from \$2–\$4 per gallon. For SGWASA’s permitted capacity of 7.5 million gallons/day, this equates to an investment of \$15–\$30 million.

In 2022, NCDEQ tested SGWASA’s water for PFAS as part of a statewide assessment. In 2023, SGWASA partnered with CDM-Smith to:

1. Launch a PFAS Pilot Testing Program.
2. 2023 - Submit two NCDEQ SRF grant applications:
  - \$500,000 for pilot testing.
  - \$22 million for design and construction.
3. 2025 - Submit two NCDEQ SRF grant applications:
  - \$500,000 for additional pilot testing/engineering.
  - \$26 million for design and construction.

- b) **What are SGWASA’s next steps in moving to compliance with the new Rule for PFAS?**

SGWASA has prepared the following approach to meet the April 26, 2029, deadline, as shown in the following table:

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Item #	Item	Status	Comments	Cost
1	Design a PFAS Pilot Testing Program to determine the most cost-effective PFAS removal techniques for SGWASA's water system.	The Pilot Testing design was initiated and completed in late 2023.	None.	SGWASA spent \$45,485 on this task.
2	In 2023 SGWASA applied for NCDEQ State Revolving Fund (SRF) financing/grant for the maximum grant amount of \$500,000 for the PFAS pilot testing, and \$22,000,000 for PFAS mitigation engineering design and construction.	SGWASA received a \$500,000 grant from the NCDEQ to perform the PFAS Pilot Testing program. SGWASA was not awarded funding for the design and construction.	SGWASA will continue to apply for NCDEQ grant funding for the \$26M design and construction for PFAS removal.	SGWASA spent \$15,985 on this task.
3	In 2023, SGWASA received a \$5M grant from the state budget for water/sewer. NCDEQ 1.5% grant administration fee = \$4.925M to spend. SRP-D-134-0236	In January 2025, SGWASA and CDM Smith submitted to the NCDEQ a Request for Funding for the engineering design, bidding services, and construction for the PFAS removal project.	SGWASA received information from the NCDEQ in March 2025 regarding a Notice of Intent to Fund the work associated to the PFAS removal project.	SGWASA will pay \$75,000 for 1.5% grant administration fee.



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Item #	Item	Status	Comments	Cost
4	Conduct PFAS Pilot Testing October 2024 to August 2025.	In progress.	The results of the PFAS Pilot Testing program will be used to provide the criteria for engineering design and construction.	SGWASA received a \$500,000 grant from the NCDEQ to perform the PFAS Pilot Testing program.
5	Once NCDEQ provides official/final approval regarding the use of the \$5M grant, SGWASA will seek authorization from the Board of Directors to enter a contract with CDM Smith for the engineering design of the PFAS removal at the SGWASA water plant.	In March 2025, SGWASA received a Letter of Intent to Fund the PFAS reduction project. Staff is completing the required forms needed to secure the funding for the project.	SGWASA is evaluating a design-build process to shorten the construction time to meet the April 2029 compliance date.	
6	Seek additional grant funding/SRF loan funding for estimated cost of PFAS removal construction of \$26M.	Ongoing.	If grant(s) cannot be obtained, then SGWASA will determine what financing sources will be used to fund the project. In May 2025, SGWASA submitted another NCDEQ Grant request to fund the \$26M+ Post Filter PFAS reduction construction. SGWASA anticipates hearing from NCDEQ in October/November 2025 regarding the Grant request.	TBD

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Item #	Item	Status	Comments	Cost
7	Construct the PFAS removal process equipment.	Planned.	Goal to complete the PFAS removal project ahead of the required compliance date.	TBD
8	Place the new PFAS removal process equipment into operation prior to 4/26/29. *	Planned.	<p>Additional annual operating costs will be associated with the new operation. These costs will be factored into the annual operating budget.</p> <p>* Note: As of May 2025, EPA is considering a 2-year extension to the compliance deadline, thus 4/26/31.</p>	TBD

- c) **Status** ( ■ In Progress/On Schedule): CDM-Smith is winding down the PFAS Pilot Testing Program that was initiated in October 2024. Most recently, staff met with CDM-Smith in July to review the most recent test results, thus providing SGWASA with a recommendation on which PFAS removal technologies will be best to design and install. CDM-Smith and SGWASA are refining the draft engineering scope of work and cost documentation which is the next phase of this project. A summary of the technical information provided by CDM-Smith is found below.

#### PFAS Pilot Update – Summer 2025

**Overview:** The PFAS (per- and polyfluoroalkyl substances) pilot program at the South Granville Water and Sewer Authority (SGWASA) Water Treatment Plant has been successfully operating for over nine months. The pilot evaluated three treatment media:

- **Calgon F-400 Granular Activated Carbon (GAC)**
- **DuPont Amberlite PSR2+ Anionic Exchange Resin (AER)**
- **Fluorosorb 200 Novel Sorbent (NS)**

All media have effectively removed PFAS compounds, with no breakthrough observed (i.e., no PFAS detected above EPA's Maximum Contaminant Levels [MCLs]).



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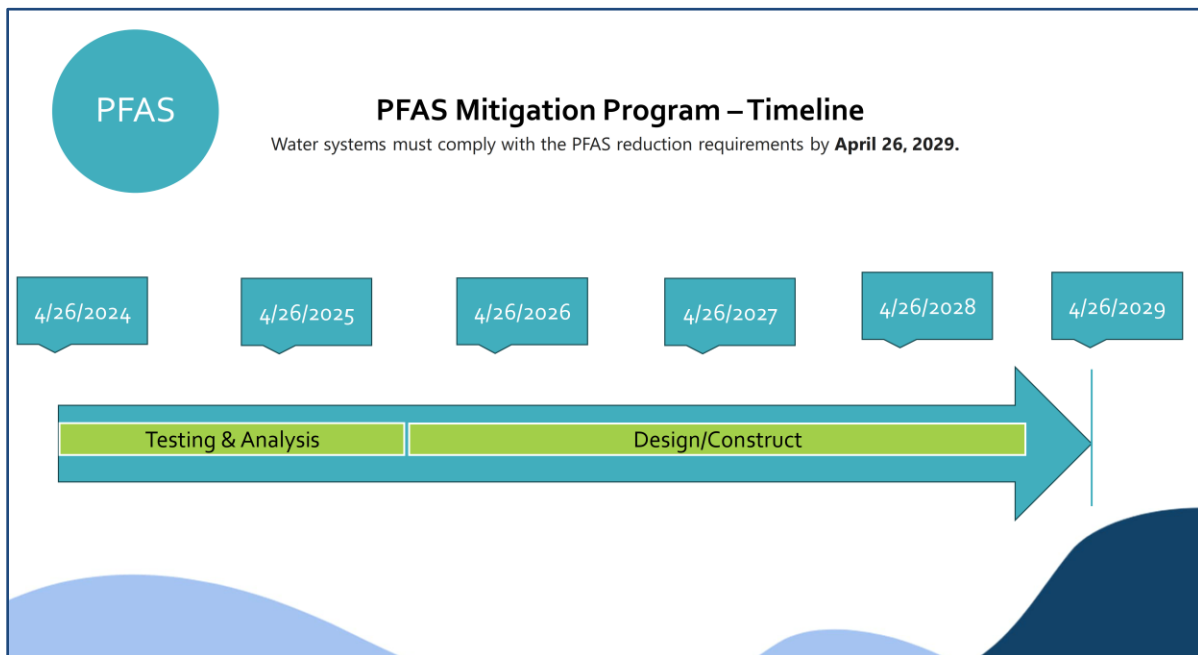
### Key Findings:

- **PFAS Removal Performance:** All tested media consistently reduced PFOA and PFOS concentrations below EPA MCLs. SGWASA's current powdered activated carbon (PAC) system helps reduce PFAS but is insufficient alone for compliance.
- **Priority Compounds:** PFOA and PFOS are the primary PFAS compounds in SGWASA's raw water and should be the focus of initial treatment efforts.
- **Design Flexibility:** A pressure vessel contactor system is recommended to allow future media changes in response to evolving regulations and technologies.

### Recommendations:

1. **Proceed with Full-Scale Design:** Begin detailed design of a system that can accommodate any of the three tested media, ensuring flexibility and regulatory compliance.
2. **Extend Pilot Duration:** From 10 to 12 months to potentially observe media breakthrough and gather more data for lifecycle cost analysis.

The project timeline is shown below.



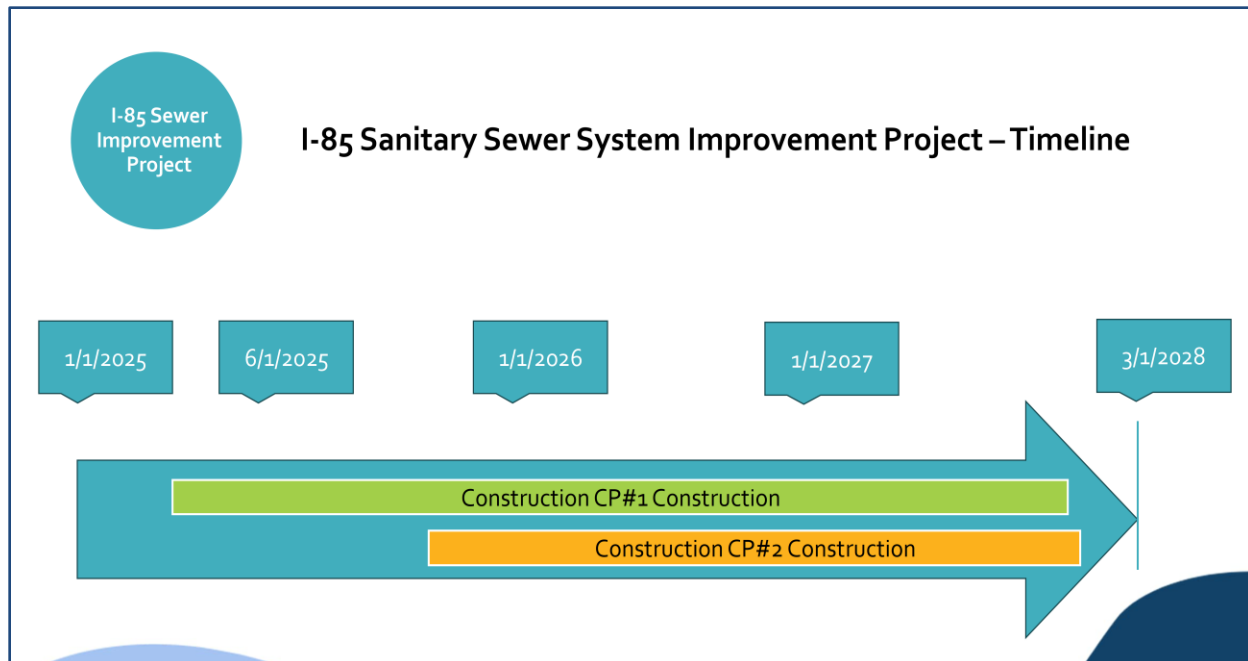
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#### 2) I-85 Sanitary Sewer System Improvement Project

- a) **Background:** SGWASA serves southern Granville County, including Creedmoor, Butner, and Stem. Due to maxed-out wastewater system capacity, a development moratorium was enacted in 2018 for parts of Creedmoor and Butner. From 2019–2025, SGWASA collaborated with partners to design and fund a solution. CDM-Smith completed engineering plans and split the project into two construction packages: CP#1: Bid in July 2024; contract awarded to Haren Construction for \$34.8M in December 2024. CP#2: Bid in May–June 2025. Total estimated project cost: \$75 million.
- b) **CP#1 Status:** ( ■ In Progress/On Schedule): CP#1 includes the construction of two new sewer pump stations and the installation of new sewer pipe. Haren Construction started construction on 4/1/25. Construction is ongoing.
- c) **CP#2 Status:** ( ■ In Progress): CP#2 was bid in May 2025, but only one bid was received, prompting an extension to June 12. Park Construction submitted the sole proposal, which exceeded the project budget. SGWASA and CDM Smith are now conducting value engineering to reduce costs and evaluate whether parts of the North Interceptor can be deferred. A contract recommendation is anticipated at the September/October 2025 Board meeting. The project timeline is shown below.



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#### 3) USEPA Lead & Copper Program Update Creates Mandatory Compliance Activities for All Water Service Providers.

- a) **Background:** The U.S. Environmental Protection Agency's (EPA's) Lead and Copper Rule Revisions went into effect December 16, 2021. The EPA's new Lead and Copper Rule better protects children and communities from the risks of lead exposure by better protecting children at schools and childcare facilities, getting the lead out of our nation's drinking water, and empowering communities through information. Please read more about this program below by clicking on the Fact Sheet.

EPA Lead & Copper Program [Fact Sheet](#)

- b) **Status** (  In Progress/On Schedule): Since 2022, SGWASA has been working with Hazen & Sawyer on the management of the program. SGWASA staff is working with a local service provider to set up a pilot program to identify service line materials.

Note: On 10/8/24, Hazen & Sawyer provided the SGWASA Board of Directors with a Lead and Copper Program status update presentation. The presentation begins around the 7-minute mark in the meeting video. The YouTube video link is found below.

<https://www.youtube.com/watch?v=F1aXIKAAebQ>

### The final rule focuses on key areas that will protect our communities

 <p><b>Achieving Lead Pipe Replacement Within 10 years</b></p>	 <p><b>Locating Legacy Lead Pipes</b></p>
 <p><b>Improving Tap Sampling</b></p>	 <p><b>Lowering the Lead Action Level to 10 µg/L</b></p>
 <p><b>Strengthening Protections to Reduce Exposure</b></p>	 <p><b>Communicating Transparently and Frequently</b></p>

For more information, see <https://www.epa.gov/dwreginfo/lead-and-copper-rule>

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#### 4) SGWASA - City of Creedmoor Service Area Water Meter Replacement Program

- a) **Background:** SGWASA manages approximately 6,600 water meters across its entire service area. In recent years, the utility identified a need to modernize its metering infrastructure by replacing outdated meters with newer, more accurate models. This effort includes the SGWASA/City of Creedmoor service area, which contains about 2,200 meters, many of which are aging and no longer performing optimally. To address this efficiently and cost-effectively, SGWASA opted to contract a specialized firm with expertise in water meter replacement and system upgrades. This initiative is part of SGWASA's Capital Improvement Plan (CIP), listed as Project ID# 102-05, with a total project budget of \$1,000,000.
- b) **Status** ( ■ In Progress/On Schedule): All new water meters and associated hardware are currently in stock at SGWASA and ready for installation. Since December 2024, SGWASA staff have engaged in multiple discussions with Vanguard Utility Services to refine the schedule for installing the new water meters. Due to a financial software upgrade project planned for spring 2025, SGWASA staff decided to commence the water meter replacement program after the software upgrade. This approach prevents the meter upgrade database from being split between two software systems. Consequently, the water meter replacement project is scheduled to begin after July 1, 2025.

SGWASA staff met with Vanguard Utilities in June 2025 to discuss a project start date. Due to the ongoing SGWASA/Tyler Technology financial and utility billing software upgrade, both agencies agreed to tentatively schedule September as a start date for the project. SGWASA and Vanguard Utilities will reconvene in August 2025 to discuss the project/project start date. Vanguard Utilities indicated to SGWASA team members that they will finish the meter upgrade project before the end of 2025.



*Image: Example of the new water meter that SGWASA will be installing during this project.*

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#### 5) SGWASA – Financial Software Upgrade

- a) **Background:** Since 2006, SGWASA has relied on Harris Computer's ICS software as its primary system for financial, billing, and customer service operations. Despite periodic upgrades and enhancements, it was determined in 2022 that the Harris ICS platform no longer met SGWASA's evolving needs. Consequently, SGWASA's executive management team decided to seek proposals for new financial software.

In August 2023, SGWASA staff issued a Request for Proposals (RFP) for new financial software and implementation services. At the January 9, 2024, Board of Directors meeting, the Board approved a contract with Tyler Technologies for the new financial software and implementation services.

- b) **Status** ( ■ In Progress/On Schedule): The initial implementation process for the new financial software was completed as of June 30, 2025. SGWASA and Tyler are now working toward the implementation of the new payroll module. The payroll module is scheduled to be operational before 1/1/26.
- c) **Customer Service Utility Bill Payment Information:** SGWASA's customer portal houses all utility account information. Creating a profile provides important access to account details, utility usage information, and payment data for customer account(s). <https://www.sgwasa.org/payment>

A convenience fee is charged to process all credit and debit card payments. Customers can avoid paying the additional fee by selecting one of the following payment options:

**Option 1: Phone (Automated)** - Pay by phone at (833-510-6338) with your account number and

**Option 2: Bank Bill Pay (Online)** - Pay electronically using your bank's online bill payment option.

**Option 3: SGWASA's Welcome Center** - Visit SGWASA's Welcome Center located at 415 Central Avenue, Suite B in Butner, NC from 9 AM to 4 PM Monday through Friday to make payment by cash, check, cashier's check, credit card, or debit card.

**Option 4: Drop Box** - Customers may submit payment by check in the drop box located in the SGWASA parking lot. Enclose the payment in an envelope labeled the customer's name and service address.

**Option 5: Bank Draft** - Complete the required authorization form ([linked here](#)) to preauthorized debits directly from your bank account.

**Option 6: Postal Mail** - Check payments can be submitted via postal mail to SGWASA at 415 Central Avenue in Butner, NC 27509.

**Option 7: Text to Pay – Coming Soon.**

[VISIT PAYMENT PORTAL](#)



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#### 6) Water Treatment Plant Filter Analysis: Filter Media Replacement Needed

a) **Background:** Between May and September 2024, SGWASA encountered water production issues at the water treatment facility related to the water filtering process. The five water filters struggled to maintain their normal production levels, unable to keep up with the heightened demand that resulted from the higher-than-normal temperatures. To investigate the issues with the water filter system, SGWASA contracted Hazen, one of its on-call professional engineering firms, to conduct a detailed examination. Hazen began their work in mid-July 2024 and completed their investigation, along with a final technical memo, in December 2024. Based on their observations and data analyses, Hazen recommended the following improvements and optimizations for the filter operations at the SGWASA Water Treatment Plant (WTP):

- **Filter media replacement:** The existing filter media is 22 years old, which exceeds the industry standard for media life of 10-15 years and should be replaced immediately.
- **Rehabilitation of SGWASA Filters:** The underdrain nozzles in the filter vessels should be further inspected and any failed or broken nozzles should be replaced.
- **Consider Replacing Backwash Supply Pump:** The existing backwash pump is not capable of achieving the needed filter media expansion of 30% to provide proper removal of solids
- **Monitor Media Depths.** Plant Operations should plan to monitor media depths annually to track media loss.
- **Source Water Algae Monitoring Program.** Since algae enumerations indicated the presence of known filter clogging species, a routine algal monitoring program beginning in 2025 is recommended.
- **Modify the backwash procedure.** To combat solids retention, it is recommended that the backwash procedure be modified to increase the duration of the high-rate portion of the water backwash.

Based on the recommendations contained in the technical report, in December 2024, SGWASA staff asked Hazen to draft a scope of work (including fees) for further analysis, design, bidding, and construction project management for the water filter media replacement. In January 2025, SGWASA received the draft scope of work. The scope of work was estimated to take 6 months at a cost of \$318,900. This cost did not include the actual cost for the filter replacement, which could range between \$650,000-\$750,000.


Based on the draft scope of work, primarily focusing on the amount of time to complete the work and the cost of the professional services, less the actual construction cost, SGWASA staff decided to seek cost estimates from several filter media replacement vendors to evaluate the total estimated cost for the entire project. Following this evaluation in February, SGWASA determined that scope modifications were needed, and returned to working with Hazen to modify their scope of work.



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On March 11, 2025, SGWASA staff requested the Board of Directors review/approve the scope of work provided by Hazen for the project, at a total cost of \$222,800. Furthermore, SGWASA staff requested a 10% contingency for the work, bringing the total project cost to \$245,080. The Board of Directors approved the scope of work and the contingency.

- b) **Status** (  In Progress/On Schedule): During the week of March 21, 2025, SGWASA staff provided Hazen with a notice to proceed on the work. The project schedule is as follows:

Submittal	Due Date	Status
90% Design Submittal (drawings, specifications, and cost opinion.	3 months from Notice to Proceed – by July 1, 2025.	Completed ahead of schedule.
Bid-Ready Submittal	2 weeks following resolution of all permitting/submittal comments – By August 1, 2025.	Completed ahead of schedule.
Bid Project	TBD	Project bid on July 7, 2025. Due to one bid being received, bid was readvertised with bid opening on 8/5/25.  8/5/25 Bid results: Only one bid was received. The bid was from State Utility Contractors in the total amount of \$897,753.00. The total bid amount included a \$100,000 allowance for concrete repairs in the five basins.
Bid Award by Board of Directors	TBD	August 12, 2025.
Construct Project	TBD	Aiming for September 2025 start

Hazen publicly bid the project on Monday, July 7, 2025 for a two-week period. Only one bid was received, whereas three bids are required for the initial bid period. Therefore, Hazen rebid the project for bid opening on 8/5/25. At the bid opening, only one bid was received. The bidder was State Utility Contractors. State Utility Contractors was the lowest responsive, responsible bidder with a total bid amount of \$897,753.00, which includes a base bid of \$797,753.00 and a \$100,000.00 General Allowance. The Base Bid includes removal and replacement of the filter media material, permitting, bacteriological samples and nozzle replacement. The General Allowance was placed in the bid to provide for concrete repairs to the filter basins, if needed.

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**Financial:** This project was not previously identified in the SGWASA FY24-35 CIP since it was an unplanned project that came to SGWASA's attention late last fall. Due to this project not being included in the 10-Year SGWASA CIP, and SGWASA's financial commitment to current capital improvement projects related to the water and sanitary sewer systems, the Executive Director and the Finance Director recommended this project be funded via Operating Fund Balance.

Staff will present this item to the Board of Directors for consideration of award at the August 12, 2025 Board of Directors meeting. Construction on the project will start as soon as possible following the award of contract.

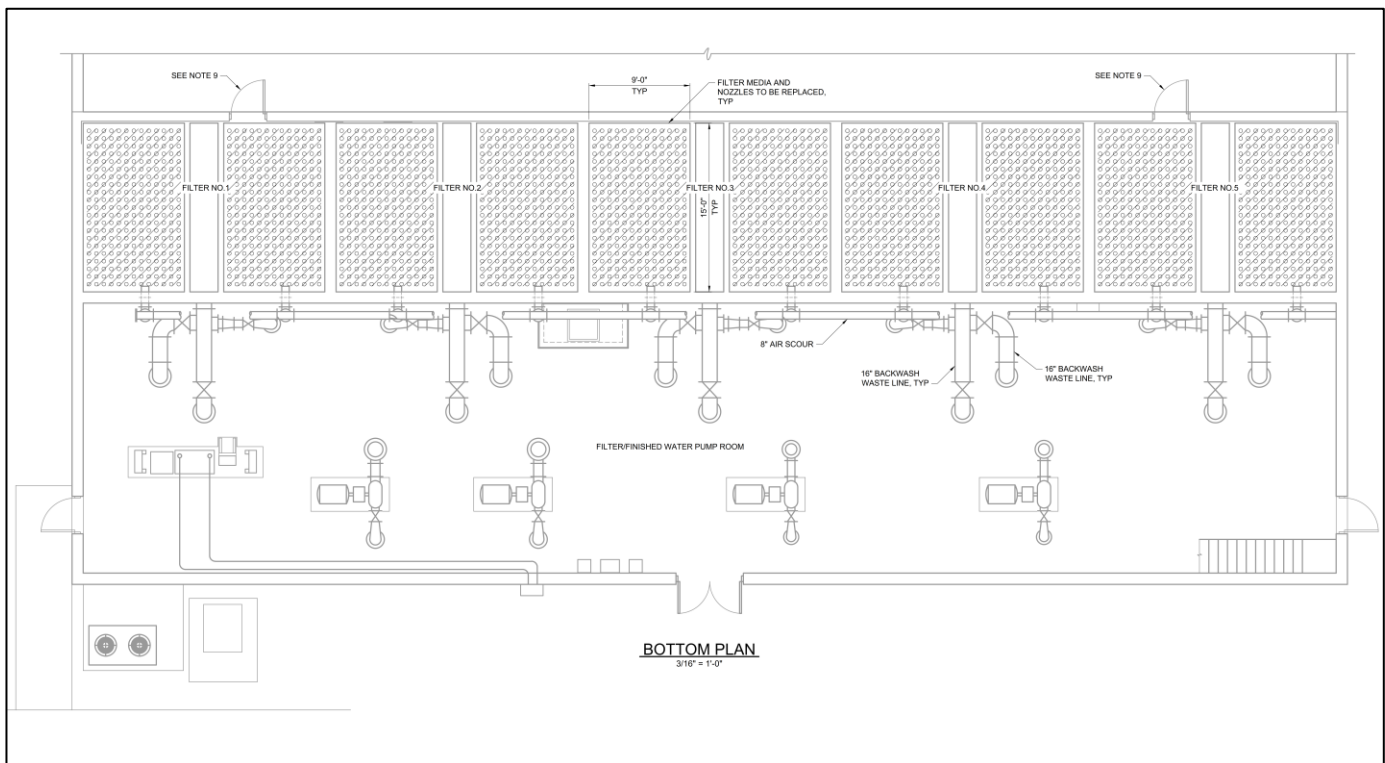
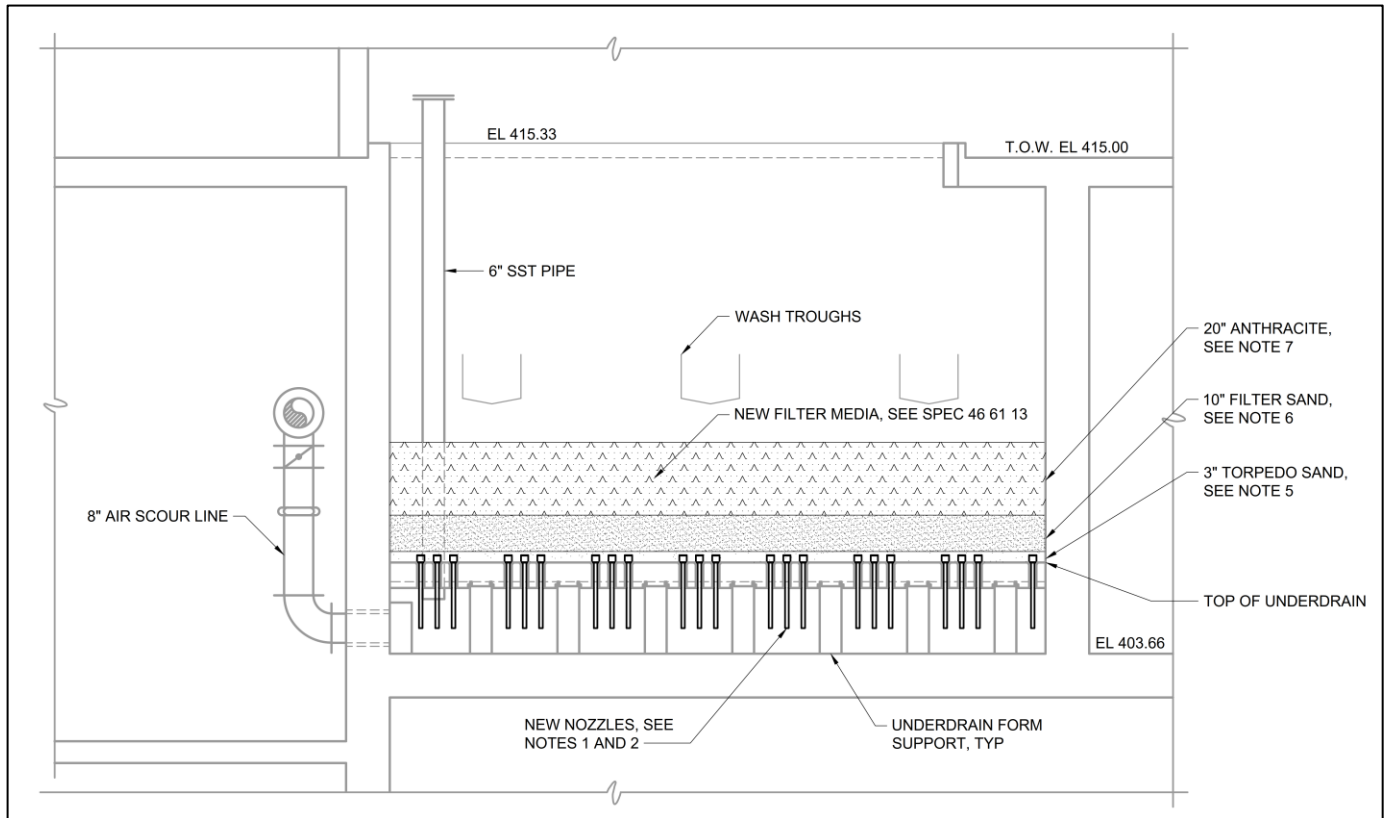


Image: Water Treatment Plant Filter Bed Diagram showing media and nozzles to be replaced.

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*Image: Water Treatment Plant Filter Bed Diagram showing 1 filter bed and the media and nozzles to be replaced.*

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#### 7) AIA Grant Project for Water Infrastructure Assessment

- a) **Background:** The North Carolina Department of Environmental Quality (NCDEQ) manages an Asset Inventory Assessment (AIA) Grant program to encourage water and wastewater utilities to become more viable and more initiative-taking in the management and financing of their systems. Grants are limited to \$150,000 from the Wastewater Reserve or the Drinking Water Reserve and may be used over a period of three years. A local match is required based on Local Government Unit indicators, such as percent population change and median household income, compared with the state benchmarks. Awarded grant funds may be used for asset inventory, condition assessment of critical assets, or components of critical assets.

In September 2021, SGWASA applied for and ultimately received approval for an AIA grant in the amount of \$150,000 for use in the Water Distribution System. The AIA grant was funded from state ARPA money; thus, no local funding match is required. SGWASA worked with McGill Associates, SGWASA's contracted consulting engineering firm to complete the application for submittal to NCDEQ for consideration and ultimately approval for an AIA Grant. SGWASA also worked with McGill Associates to develop a scope of services, which was submitted to NCDEQ for review in September 2022. McGill Associates has provided a task order to SGWASA to provide the services as submitted to NCDEQ. The scope of work in the AIA task includes the following:

- Water System Inventory Updates
  - Water Plan Assessment and Master Planning
  - Water Distribution System Analysis (hydraulic modeling)
  - Water Audit
  - Asset Management Plan and Updated CIP
  - Updated Work Order System Recommendations
  - Final Report
- b) **Status** (■ In Progress/On Schedule): This project is being performed by McGill Associates. The project will be completed prior to 1/1/26.

*(See project images on following page)*

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### AIA Grant Project for Water Infrastructure Assessment Project

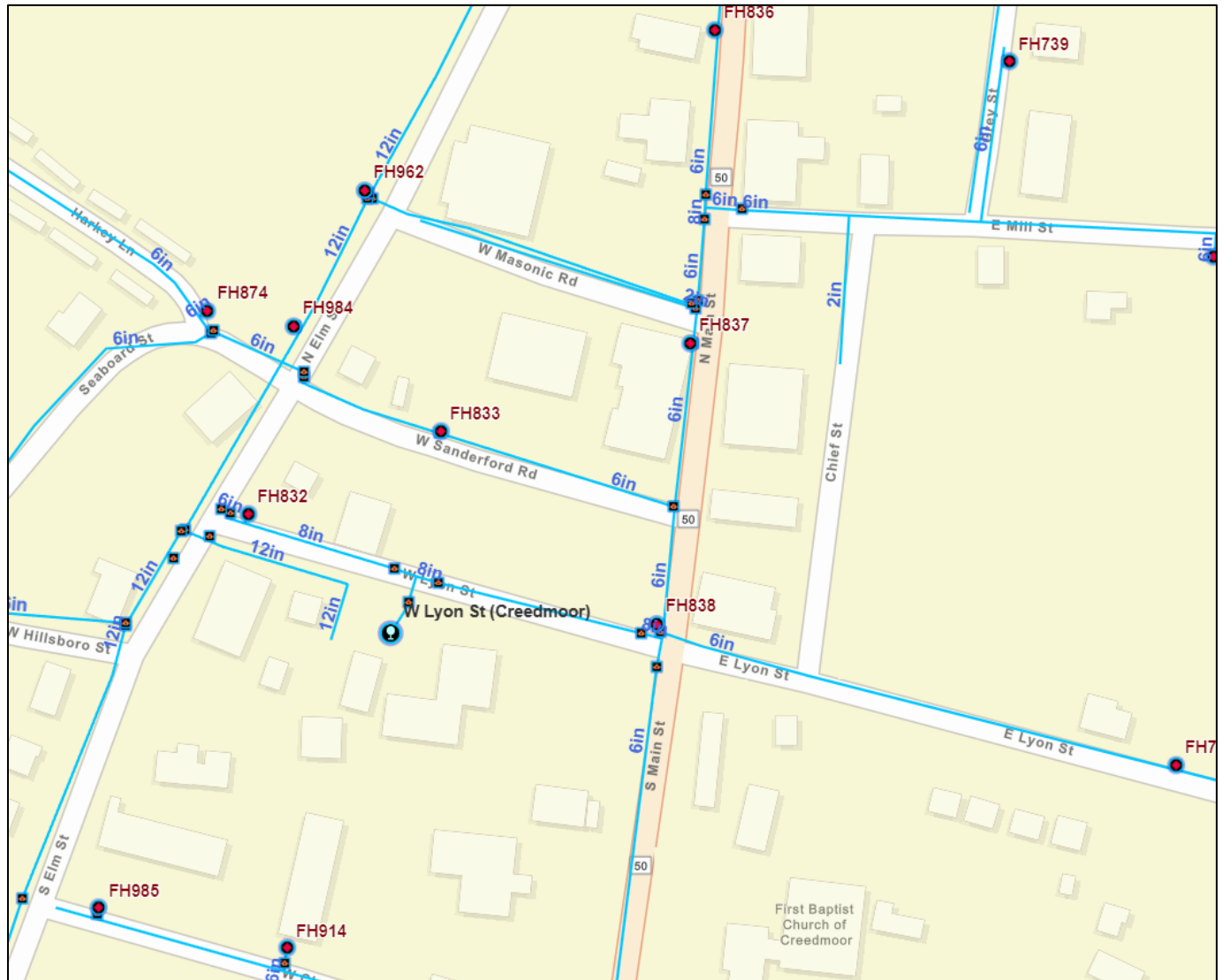


Image: Example of water distribution system network data that is being analyzed as part of the AIA Project.



## South Granville Water And Sewer Authority


### Executive Director's Monthly Project Update Report – July 2025

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#### 8) AIA Grant Project for Wastewater Infrastructure Assessment

- a) **Background:** The North Carolina Department of Environmental Quality (NCDEQ) manages an Asset Inventory Assessment (AIA) Grant program to encourage water and wastewater utilities to become more viable and more initiative-taking in the management and financing of their systems. Grants are paid from the Wastewater Reserve Fund or the Drinking Water Reserve Fund. A local match is required based on Local Government Unit indicators. Awarded grant funds may be used for asset inventory, condition assessment of critical assets, or components of critical assets. In September 2022, SGWASA applied for and received approval in March 2023 for an AIA grant in the amount of \$200,000 for use in the Wastewater Collection System. The AIA Sewer grant was funded from state ARPA money; thus, no local funding match is required.

SGWASA worked with McGill Associates, SGWASA's contracted consulting engineering firm to complete the AIA Sewer Grant application for submittal to NCDEQ. SGWASA also worked with McGill Associates to develop a scope of services for the AIA Sewer Grant which was submitted to NCDEQ for review in September 2022.

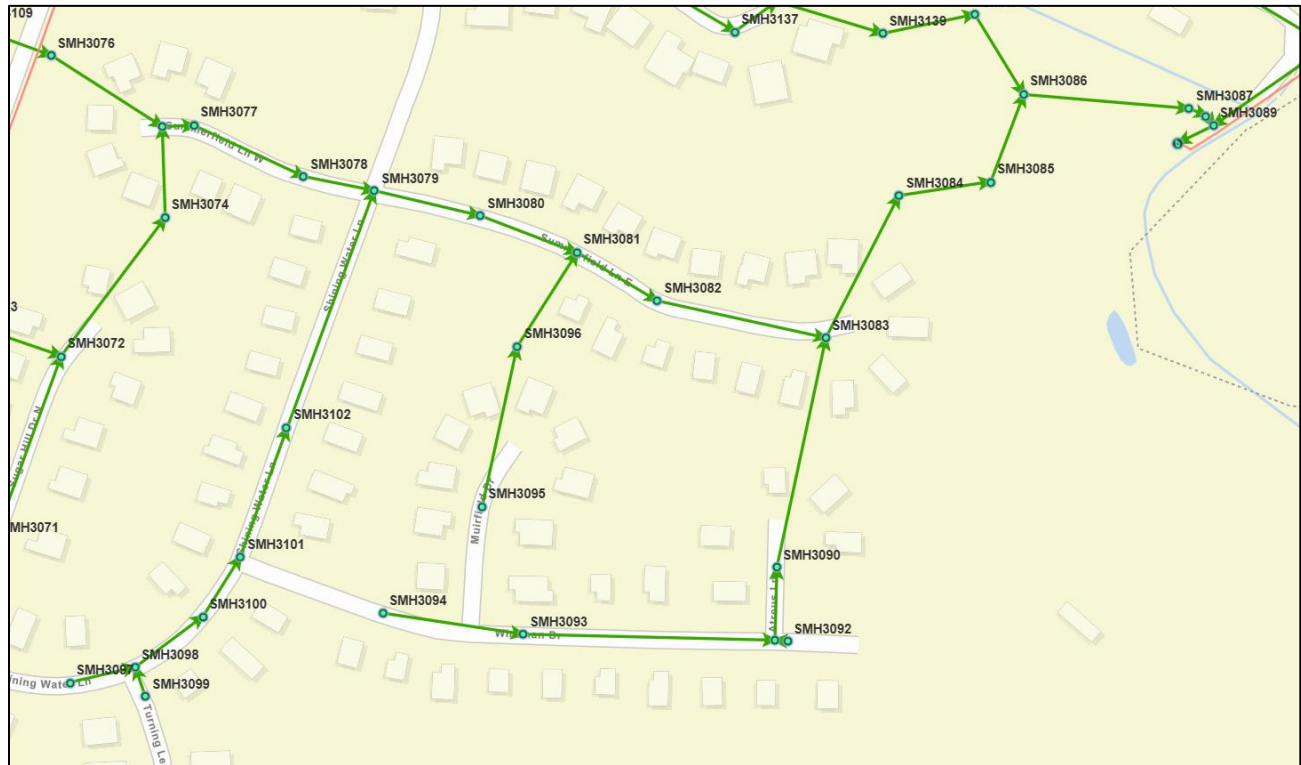
- b) **Status** (  In Progress/On Schedule): This project is being performed by McGill Associates. The project will be completed prior to 1/1/26.

*(See project image on following page)*



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## AIA Grant Project for Wastewater Infrastructure Assessment Project



*Image: Example of wastewater distribution system network data that is being analyzed as part of the AIA Project.*

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#### 9) CIP# 101-10 Water Valve Replacement Project at the Water Treatment Plant – Design & Construction

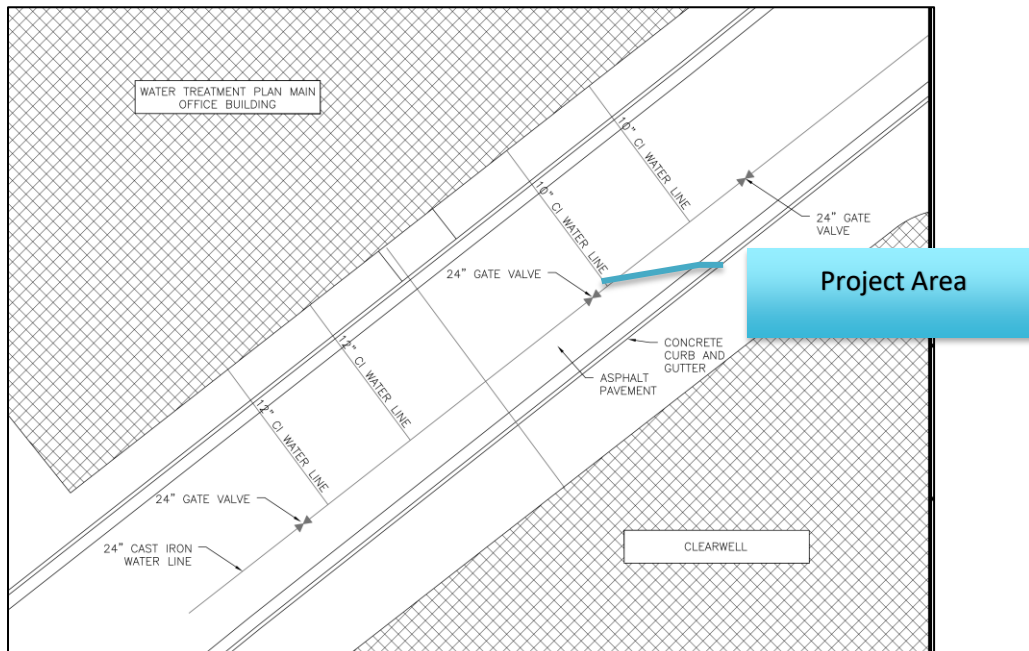
- a) **Background:** Following a main break at the Butner WTP, SGWASA has experienced recurring leaks and valve failures along the water main between the clear well and finished water pumps. These issues have caused erosion and highlighted the lack of bypass options and redundancy in the system.

For this project, Hazen and Sawyer is evaluating valve repair alternatives, followed by final design, permitting, and bidding for the selected solution. Construction-related services may be added later via amendment. The total cost for the project evaluation and design is \$155,980.00. The probable cost of construction will be developed when final repair alternatives are selected.

- b) **Status** ( In Progress/On Schedule): This project is being performed by Hazen & Sawyer. The project design is 95% complete. A probable cost of construction is being determined. The project will be advertised for public bidding in the fall of 2025.

*(See project images on following page)*

## South Granville Water And Sewer Authority Executive Director's Monthly Project Update Report – July 2025



*Images: SGWASA Water Treatment Plant – Valve Replacement Project Area.*

## South Granville Water And Sewer Authority

### Executive Director's Monthly Project Update Report – July 2025

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#### 10) CIP# 102-10 Water Quality Improvements

- a) **Background:** SGWASA has expressed concerns with the following items related to the water distribution network:
- Lack of hydrant flushing program to keep SGWASA initiative-taking in preventing water quality issues.
  - Water quality and chlorine residual issues at booster stations throughout the distribution system.
  - The lack of water tower control within the distribution system.

For this project, Hazen and Sawyer will be conducting a preliminary investigation and will perform the following tasks:

- Data collection and data review.
- Water hydraulic model update and calibration
- Developing hydraulic model simulations of water age in the distribution system.
- Developing a hydrant flushing program.
- Performing assessments of the water booster pump stations.
- Evaluating the water distribution system control network and then developing improvements based on the data.

**Project deliverables include:**

- Hydrant Flushing Program
- Draft and Final Booster Pump Station Assessment TM
- Draft and Final Distribution System Control Assessment TM
- Updated hydraulic model

The total cost for the project is \$227,340.00.

- b) **Status** ( ■ In Progress/On Schedule): This project is being performed by Hazen & Sawyer. The project was initiated in the fall of 2024. The goal is to complete this project in early 2026.



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#### 11) CIP# 101-01 Water Treatment Master Plan: AIA Grant Funded

- a) **Background:** SGWASA applied for and received a \$150K grant from the NCDEQ for this project. SGWASA is working with McGill Associates on this project. This project is just in its initial stages of working through all the required grant paperwork submittals and authorization. SGWASA will add the required 20% funding match of \$30K for this project.

In summary, the South Granville Water and Sewer Authority (SGWASA) has need for and intends to conduct an Asset Inventory and Assessment study of the Authority's water treatment plant in a project described as the Water Plant Master Plan. This project will build upon previous water system AIA work and will include tasks such as an update of asset inventories, condition assessment of critical assets, and other components of an asset management plan.

- b) **Status** ( ■ In Progress): This project will commence in late 2025 and is scheduled for completion by January 2027.



*Image: SGWASA Water Treatment Plant*

## South Granville Water And Sewer Authority

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#### 12) CIP# 108-01 Facility Needs Study

- a) **Background:** The organizational-wide facility needs study evaluates SGWASA's current facilities and determines future facility needs for the next 30 years. This study will focus on several operating departments, such as administration, located in the Butner Town Hall, the wastewater treatment plant, and the water/sewer utilities operations. As separate AIA study is being performed for the water treatment facility. McGill Associates is performing both studies. The cost for the Facility Needs study is \$43,718.00. The Board of Directors will be provided with a final report/overview in the fall of 2025.

**Leased Space Information:** Presently, SGWASA has a 20-year lease with the Town of Butner. The lease originated in 2011. A summary of the lease is found below.

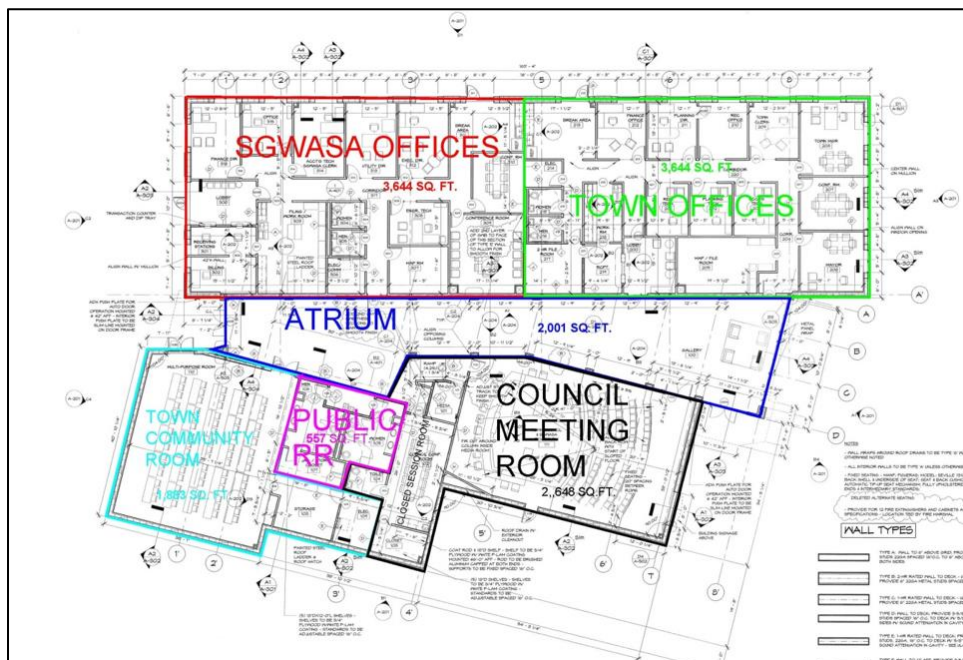
- **Premises:** 416B Central Avenue, Butner, NC — approx. 3,644 sq ft. SGWASA also has access to:
  - Atrium: approx. 2,001 sq ft
  - Council & Closed Session Rooms: approx. 2,648 sq ft
  - Public Restrooms: approx. 557 sq ft
  - Shared parking and common areas (excluding Town Community Room)
- **Initial Term:** 20 years.
- **Rent for Initial 20-year period:**
  - Base Annual: \$60,000
  - Base Monthly: \$5,000
  - Total Annual: Base Rent
- **Rent for two consecutive 10-Year Leases, following Initial 20-year period:**
  - Base Annual: \$43,718.00
  - Base Monthly: \$3,643.17

- b) **Status** ( ■ In Progress ): This project started in November 2024 and is scheduled for completion in the fall of 2025.

*(See project images on following page)*



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*Images: Butner Town Hall - SGWASA leases office space from Butner*

## South Granville Water And Sewer Authority

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#### Board Actions (Past 90 Days)

Board Meeting Month/Year	Topic	Status
<b>May 2025</b>	Proposed FY25-26 Budget Review	The Board of Directors will review again at the June Board meeting.
<b>May 2025</b>	Public Hearing-Proposed Fiscal Year 2025-2026 Budget	Public Hearing completed.
<b>June 2025</b>	Proposed Fiscal Year 2025-2026 Budget	Approved by the Board of Directors.
<b>June 2025</b>	Fiscal Year 2024-2025 Budget Amendment #16	Approved by the Board of Directors.
<b>July 2025</b>	Amendment of Capital Reserve Fund for System Development Fees	Approved by the Board of Directors.
<b>July 2025</b>	FY24-25 Fiscal Year-End Capital Improvement Fund Designation	Approved by the Board of Directors.
<b>July 2025</b>	Fiscal Year 2025-2026 Budget Amendment #1	Approved by the Board of Directors.
<b>July 2025</b>	SGWASA Employee Benefits - Contract Renewals for FY25-26	Approved by the Board of Directors.
<b>July 2025</b>	Authorization to Purchase a new Heating, Ventilating, Air Conditioning unit for the Water Treatment Plant.	Approved by the Board of Directors. Item ordered following the Board meeting. Delivery/installation date pending.

## South Granville Water And Sewer Authority

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#### Utility Operations Highlights

##### Water Distribution System Topics

1. Utility crews continued to work in coordination with the water treatment plant staff to:
  - a. flush hydrants and collect samples of water to analyze the iron and manganese throughout the water distribution area.
  - b. Initiate a chlorine burn out for portions of the SGWASA/Creedmoor service area, targeting the water line that runs along Hwy. 56 to the Wilton Area.

##### Wastewater Collection System Topics

1. Sanitary Sewer Overflows (SSO's): None
2. Other Topics: None

##### Water Treatment Plant Topics

1. No water processing/operating issues. Team working with the Utilities team on water sample collection and analysis.
2. Staff resolved many of the air conditioning issues at the water plant by installing several portable cooling units in the several offices. Furthermore, the new HVAC unit was ordered following the July Board of Directors meeting. Delivery and installation of the new HVAC unit is anticipated in late September/early October. The cost associated to the new HVAC unit was included in the FY25-26 Budget.

##### Wastewater Treatment Plant Topics

1. No operating issues.

##### Utility Customer Service/Administration Topics

1. No operating issues.

## South Granville Water And Sewer Authority

### Executive Director's Monthly Project Update Report – July 2025

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#### Staffing Summary

The FY25-26 Budget authorized 52 full-time employees. The current staffing level is at 96%. The following is a breakdown of the status of several vacancies.

#### **Vacant Positions – Currently Advertising and/or Interviewing**

Wastewater Pump Station Mechanic (1)

Utility Maintenance Mechanic (2)

Utility Inspector (1)

Customer Service Representative (1)

#### **Vacant Positions – Final Candidate Selected/Pending Background Checks**

None.

#### **Recent New Hires**

Wastewater Pump Station Mechanic (1)

Utility Maintenance Mechanic (2)

#### **Recent Internal Promotions**

None.

*(End of Report)*