

South Granville Water And Sewer Authority

Executive Director's Monthly Project Update Report

April 2026

To: SGWASA Board Members

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

Topic: Topics Update Report for April 2026

Date: Report Issue Date 5/5/2026

Executive Summary

SGWASA continued to make substantial progress across major capital projects, regulatory programs, and operational initiatives during April 2026. The Authority remains in compliance with all state and federal requirements, and several long-term infrastructure investments advanced toward key milestones.

PFAS Mitigation: NC's State Water Infrastructure Authority approved \$10.66M in loan/grant funding to support SGWASA's PFAS treatment program. Engineering design is underway and Phase 2 pilot testing is moving forward, with final funding documentation pending NCDEQ's Letter of Intent to Fund.

I-85 Sewer Improvement Program: CP#1 construction remains on schedule and within budget. CP#2 work continues on the Southern Interceptor; the Northern Interceptor segment remains deferred pending Board review of cost and funding options.

Water Treatment Plant Filter Media Replacement: The filter media/nozzle replacement work is substantially complete. Final project closeout and billing are expected in May, with the final project cost reported next month.

Water Meter Replacement Program: The Creedmoor-area meter replacement effort is approximately 40% complete, with the vendor increasing staffing in May/June. The program remains on track for completion before August 1, 2026.

Additional Capital Projects: The water valve replacement project design is complete and is planned to move to public bidding in 2026 in coordination with the updated CIP. Water quality modeling and system assessments continue under the Water Quality Improvements project, including implementation planning for a unidirectional flushing pilot. Water and wastewater AIA grant projects remain on track for final reports by May 1, 2026.

Regulatory Compliance: SGWASA remains fully compliant with the EPA Lead and Copper Rule. Annual notices are complete, and service-line material identification work continues through the systemwide pilot.

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Project Dashboard

Project ID	Page #	Project Name	Status	Budget	Timeline	Key Update	Next Steps
1	6	PFAS Mitigation	● On Schedule	\$25M–\$30M; \$3.21M design; +\$10.66M pending LOIF	2024–2029	Phase 2 pilot testing approved (CDM Smith, \$500K); SWIA approved \$10.66M loan/grant package.	Implement pilot Phase 2; refine funding strategy (incl. USDA) and maintain schedule for Apr 2029 compliance
2	8	I-85 Sewer Upgrade – CP#1	● On Schedule	\$34.8M	2025–2028	Haren Construction started 4/1/25; work is on schedule and budget.	Continue construction; monitor schedule and budget.
2	8	I-85 Sewer Upgrade — CP#2 (Southern Interceptor)	● On Schedule	Not to exceed \$30.24M (USDA-supported)	2025–2028	Park Construction started 11/1/25; Southern Interceptor underway; Northern Interceptor (~\$8M) deferred pending Board review.	Continue CP#2 work; Board to address Northern Interceptor funding.

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3	9	Lead & Copper Rule	● On Schedule	TBD	2022–ongoing	Annual notices completed; service-line ID pilot underway.	Continue verifications and required notifications.
4	10	Water Meter Replacement	● On Schedule	\$1,000,000	Jan–Aug 2026	Project started Jan 2026; ~40% complete; vendor increasing staffing in May/June.	Continue replacements; target completion before Aug 1, 2026.
5	11	Filter Media Replacement	● Substantial Completion	\$987,528 construction (plus \$245K design)	2025–Spring 2026	Filter media/nozzle replacement substantially complete; final closeout and billing expected in May.	Complete closeout; report final project cost next month.
6	12	AIA Grant Project for Water Infrastructure Assessment	● Substantially Complete	\$150K grant (no match)	2023–May 1, 2026	Project scheduled for completion 5/1/26; awaiting final report from McGill.	Receive and review final report; close out grant deliverables.
7	13	AIA Grant Project for Wastewater Infrastructure	● Substantially Complete	\$200K grant (no match)	Awarded 2023; Active Work	Project scheduled for completion	Receive and review final report;

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		re Assessment			2024– May 1, 2026	5/1/26; awaiting final report from McGill.	close out grant deliverable s.
8	14	CIP# 101-10 Water Valve Replacement Project at the Water Treatment Plant – Design & Constructio n	 On Hold	\$155,980 (design); ~\$710,000 probable construction cost	2024– 2026	Design 100% complete; project paused; will move to public bidding in 2026 with updated CIP.	Coordinate 2026 public bid timing with CIP update.
9	15	CIP# 102-10 Water Quality Improvements	 On Schedule	\$227,340	Fall 2024– late 2026	Hazen & Sawyer project ongoing; modeling, flushing program development, and booster/control assessments in progress.	Continue work toward late-2026 completion and deliver project technical memoranda.
10	16	Unidirectional Hydrant Flushing Pilot Project – City of Creedmoor SGWASA Service Area	 In Progress	\$45,000 (FY25–26 engineering projects budget)	May– Jun 2026 (tentative)	Pilot planned for Golden Pond subdivision (~5.3 miles); model adjustments underway;	Finalize customer messaging; commence flushing when conditions allow; use pilot

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Project ID	Page #	Project Name	Status	Budget	Timeline	Key Update	Next Steps
						start may shift due to drought/water usage.	results to guide expansion.
11	17	CIP# 101-01 Water Treatment Master Plan: AIA Grant Funded	● On Schedule	\$150K grant + \$30K match	Dec 2025– Mar 2027 (requested extension)	Project commenced Dec 2025; schedule extension requested due to lake intake diver availability.	Continue master planning with McGill; complete deliverables by Mar 2027 (pending NCDEQ approval).

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Project Narratives

1) PFAS Mitigation Strategies Program

- a) **Background:** PFAS (“forever chemicals”) were detected in SGWASA’s source water. On April 10, 2024, EPA finalized enforceable drinking water standards for six PFAS compounds with MCLs as low as 4 ppt and introduced a Hazard Index for PFAS mixtures. SGWASA is required to complete initial PFAS monitoring by 2027, implement corrective actions by April 2029 if MCLs are exceeded, and provide public notification for violations beginning in 2029.

PFAS Treatment Options & Costs: PFAS removal can be achieved using Granular Activated Carbon (GAC), Reverse Osmosis (RO), or Ion Exchange (IX). Estimated treatment cost is \$2–\$4 per gallon per day of capacity. For SGWASA’s 7.5 MGD water plant, the investment is projected at \$15–\$30 million.

b) Summary of PFAS Compliance Action Plan

- **Regulatory Background & Requirements:** EPA finalized enforceable drinking water standards for six PFAS compounds on April 10, 2024. PFAS compounds were detected in SGWASA’s source water. SGWASA must implement corrective actions by April 2029.
- **Progress on Pilot Testing:**
 - **Completed:** Phase 1 of the PFAS Pilot Testing Program, funded by a \$500,000 NCDEQ grant was completed in December 2025, with the final report delivered in January 2026.
 - **In Progress:** Phase 2, funded by a \$500,000 NCDEQ grant, was awarded in by NCDEQ in September 2025. The Board of Directors approved the Scope of Work and fee with CDM Smith for \$500,000 at the April 14, 2026 Board meeting. This project is in the early stages of implementation, with a projected completion date of 1/30/2027.
- **Funding Secured to Date:**
 - SGWASA received a \$5 million State Budget Grant, with approximately \$4.925 million available after administrative adjustments.
 - To date, the \$4.925 grant has provided funding for a Board approved (October 2025) engineering design task order with CDM Smith in the amount of \$3,209,800. Leaving a balance of \$1,715,200.
 - In March 2026, the North Carolina State Water Infrastructure Authority (SWIA) approved a total of \$10,658,880 in funding for SGWASA’s \$25M-\$30M PFAS reduction water project. The award consists of a combination of loan and grant programs administered through the NC Department of Environmental Quality's

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Division of Water Infrastructure (NCDEQ). The summary of how much SGWASA will receive is found below:

- \$6,658,880 in grant funding (principal forgiveness)
- \$4,000,000 in repayable loans

This financial package reduces the amount of long-term debt SGWASA must issue for this project and represents a substantial financial benefit to our customers while allowing us to remain on schedule to meet the EPA’s April 2029 PFAS compliance deadline.

Staff will continue to evaluate how this confirmed loan and grant mix fits within SGWASA’s overall draft funding strategy, which also includes coordination with USDA financing assistance, yet to be determined.

• **Overall Status:**

- Engineering design is underway, and the installation of PFAS treatment systems is scheduled to meet the federal EPA compliance deadline. Future operational costs associated with PFAS treatment will be incorporated into SGWASA’s long-range financial planning. The design and construction schedule is shown below.

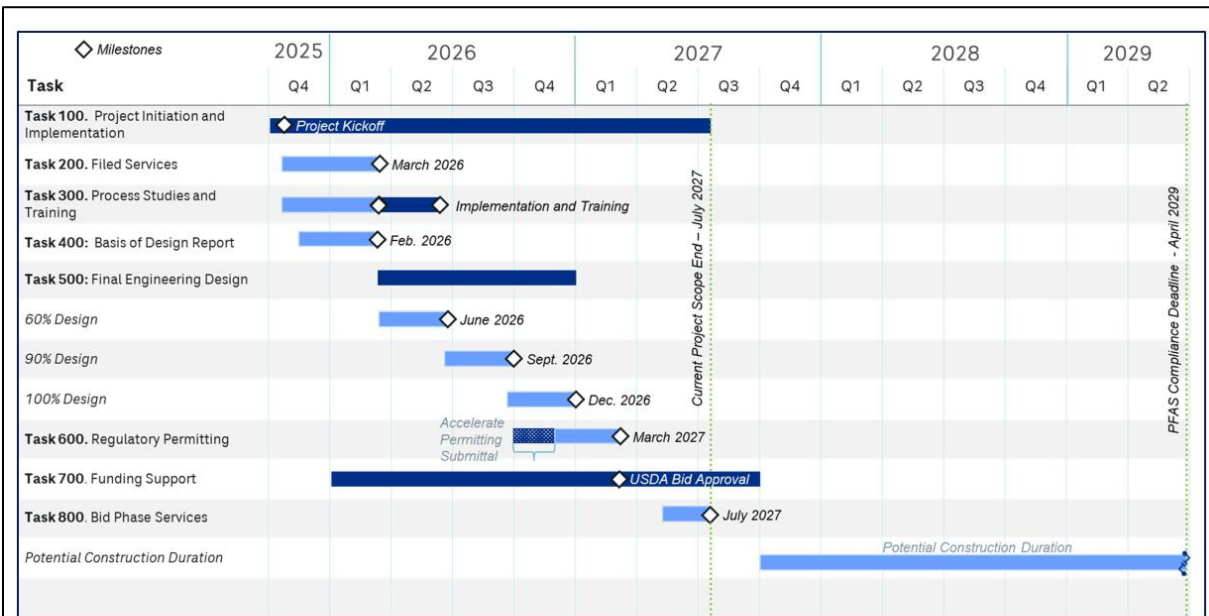


FIGURE 1: PFAS Treatment System Design and Construction Schedule

Note: The schedule was estimated from similar past projects, and ENGINEER does not control permitting or construction timelines.

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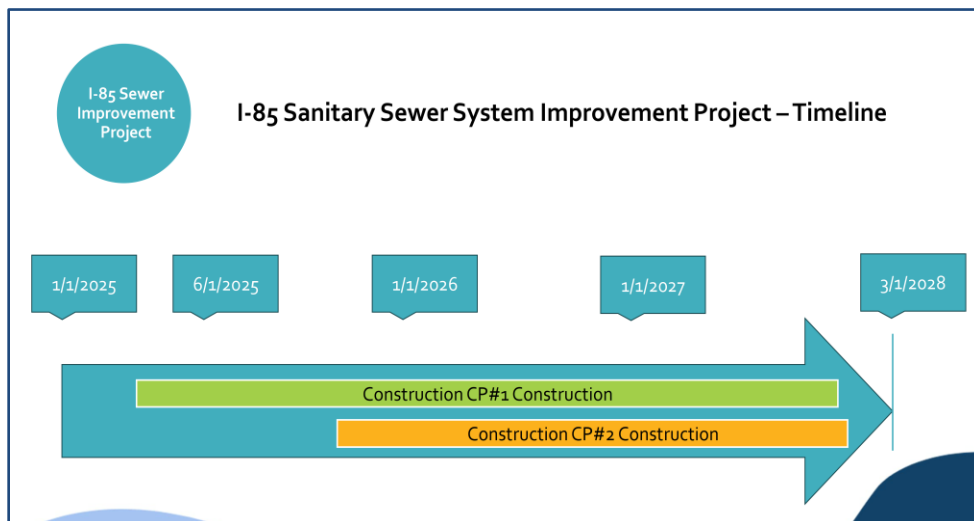
2) I-85 Sanitary Sewer System Improvement Project

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.

Note: Due to the proposed costs and budget constraints associated with the proposed work associated with CP#2, only the construction of the Southern Interceptor Sewer will be completed at this time. On February 27, 2026, The Finance Committee reviewed the \$8M cost for the Northern Interceptor and considered funding recommendations from staff. Further discussion is planned with the SGWASA Board of Directors at an upcoming meeting, yet to be scheduled.

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 (gravity and force main). Haren Construction started construction on 4/1/25. Construction is on schedule and on budget.

c) CP#2 Status: (In Progress/On Schedule): CP#2 includes the installation of new sewer pipe (gravity and forcemain), with a major pipeline crossing under I-85. Park Construction, NC, Inc. started construction 11/1/25. Construction is on schedule and on budget. A 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.

[Click here to take the personal reporting survey.](#)

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

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

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 operates about 6,600 water meters systemwide, including roughly 2,200 older meters in the Creedmoor service area that are no longer performing optimally. To improve accuracy and modernize the system, SGWASA contracted a specialized firm to replace these aging meters. This work is included in the Capital Improvement Plan (Project ID# 102-05) with a total budget of \$1,000,000.

- b) **Status** (In Progress/On Schedule): The water meter replacement project started in January 2026 and will be completed before August 1, 2026. The water meter replacement project removes and replaces a few hundred water meters per month. To date, 40% of the water meters have been replaced. During May and June, the meter replacement vendor will increase staffing to see if we can get the remaining meters replaced by sooner than anticipate. For more information on this project, please visit <https://www.sgwasa.org/post/creedmoor-water-meter-replacement-program>



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

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5) 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 completed their detailed investigation and 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 cannot achieve 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, SGWASA asked Hazen to develop a scope and fee for the filter media replacement project.

b) Status (Substantial Completion): The Board awarded the construction contract to State Utility Contractor in August 2025, at total not-to-exceed cost of \$987,528.00. The project, which included removing and replacing the filter media and nozzles for all five filter basis is substantially completed, with just the final official project close out and billing needed. This stage will occur in May. During the last two filter basin replacements, substantial concrete spalling and cracking was found within the basins, thus necessitating additional concrete work to be performed. The work was completed within the existing approved budget. Next month's report will provide the final project cost.

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6) AIA Grant Project for Water Infrastructure Assessment

- a) **Background:** The NCDEQ AIA Grant Program provides up to \$150,000 over three years to help utilities improve system management and asset planning. SGWASA received a \$150,000 AIA grant in 2021 for the Water Distribution System; because it was funded with ARPA dollars, no local match was required. Working with McGill Associates, SGWASA completed the grant application, scope of services, and task order. The project includes system inventory updates, master planning, hydraulic modeling, a water audit, asset management planning, CIP updates, work order system recommendations, and preparation of the final report.
- b) **Status** (■ Substantially Complete): This project is being performed by McGill Associates. The project is scheduled for completion by 5/1/26. SGWASA is awaiting the final report from McGill Associates on this project.

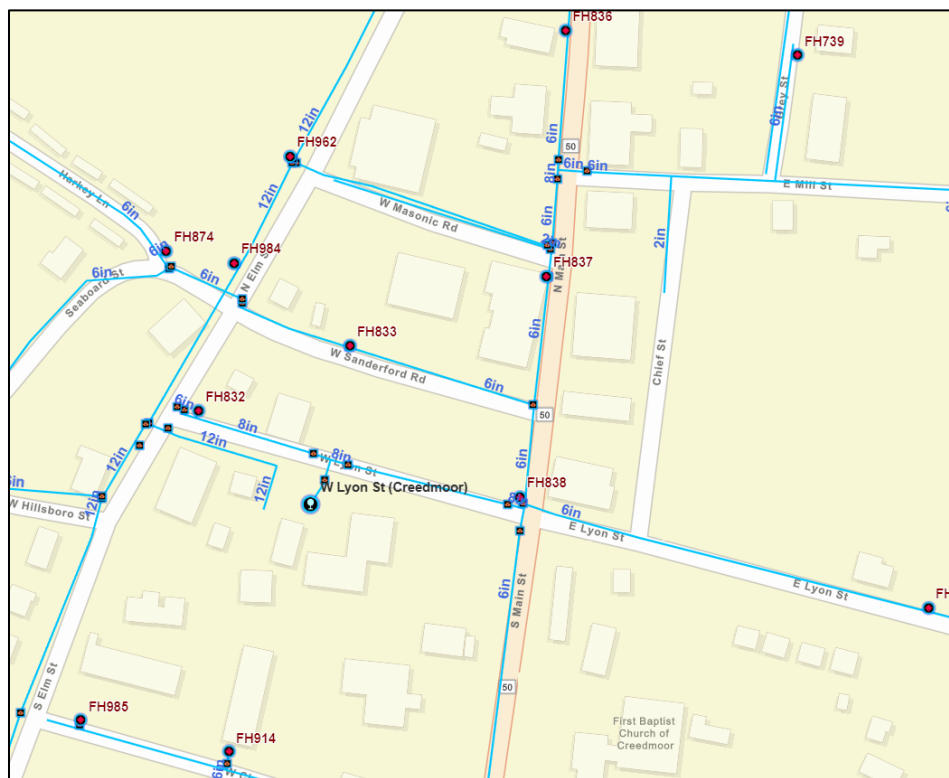


Image: Example of water distribution system network data that is being analyzed as part of the AIA Project.

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7) AIA Grant Project for Wastewater Infrastructure Assessment

- a) **Background:** NCDEQ administers the AIA Grant Program to help water and wastewater utilities improve asset management and long-term financial planning. Eligible activities include asset inventories and condition assessments. SGWASA applied for the program in September 2022 and received a \$200,000 AIA grant in March 2023 for the Wastewater Collection System; because it was funded with state ARPA dollars, no local match was required. SGWASA worked with McGill Associates to prepare the grant application and develop the scope of services submitted to NCDEQ for review.

- c) **Status** (■ Substantially Complete): This project is being performed by McGill Associates. The project is scheduled for completion by 5/1/26. SGWASA is awaiting the final report from McGill Associates on this project.



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

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

- a) **Background:** SGWASA has experienced recurring leaks and valve failures along the water main between the clear well and finished pumps, highlighting erosion issues and the need for better bypass options and system redundancy. Hazen and Sawyer is evaluating repair alternatives and preparing final design, permitting, and bid documents. The evaluation and design cost is \$155,980, with construction costs to be finalized once the preferred repair option is selected.
- b) **Status** (On Hold): Hazen & Sawyer's design work is 100% complete. The probable construction cost is \$710,000, and due to its size, the project will move to public bidding in 2026 in coordination with the updated CIP.



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

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9) 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:

- Unidirectional Hydrant Flushing Program (see more information on this project below)
- 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 late 2026.

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10) Unidirectional Hydrant Flushing Pilot Project – City of Creedmoor SGWASA Service Area

a) Background:

As part of ongoing efforts to strengthen water quality and system operations, SGWASA identified the need for a structured, repeatable unidirectional flushing program. As such, SGWASA staff worked with professional engineering consultant Hazen, to develop a task order for a pilot unidirectional flushing program within the City of Creedmoor's Golden Pond subdivision, covering approximately 5.3 miles of water distribution mains.

The scope of work includes updates to the water system model, development of the flushing plan, five days of field support, and project coordination. SGWASA staff will directly implement the program using newly purchased valve exercising equipment, while proactively communicating with customers throughout the process. Results from the pilot will be used to refine the approach and guide expansion to other areas of the system. The cost for this project is \$45,000 and is paid out of the engineering projects in the 2025-2026 budget.

- b) **Status** (In Progress): The actual unidirectional flushing project is scheduled to start in June, pending overall water usage related to the ongoing drought conditions. This means that the project might be delayed until more favorable water conditions exist. During the past several months, SGWASA and Hazen have been working on making fine tune adjustments to the hydraulic model in the project zone.

Additionally, SGWASA staff has been actively evaluating and exercising valves and hydrants in the area. These activities will continue through the month of May and during the unidirectional flushing project as needed.

SGWASA staff is also working on the customer messaging for this project as well to ensure the local utility customers are aware of the project.

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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) 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): The Board of Directors approved a Resolution of Acceptance of the grant award at their October 14, 2025, Board of Directors meeting. Furthermore, the Board approved the McGill Associates task order for this project at the November 12, 2025, Board meeting. This project commenced in December 2025 and was scheduled for completion by January 2027. Most recently, due to the difficulties associated to getting a professional diver lined up for the Lake Holt water intake inspection, SGWASA requested a schedule adjustment to NCDEQ. In summary, SGWASA is asking NCDEQ to extend the project into March 2027.

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Board Actions (Past 90 Days)

Board Meeting Month/Year	Topic	Status
February 2026	Annual Meeting – Election of SGWASA Officers	Stem Commissioner McLamb was elected as Board Chair. Creedmoor Commissioner Kicinski was re-elected as Vice-Chair.
February 2026	FY25-26 2nd Quarter Financial Review - Presentation	No Board Action Required.
February 2026	Falls Lake Industrial Park Project Water and Sewer Extensions in Butner, NC	Approved by the Board of Directors.
February 2026	Request to purchase one new generator from Atlantic Power for SGWASA sewer pump station located on School Street in Stem, NC.	The Board pulled the item from the agenda at the request of the Executive Director. The item will be brought back to the Board at a future date.
March 2026	Bio-Solids Management: Award of Contract	Approved by the Board of Directors.
March 2026	Generator Preventative Maintenance – Contract Award	Approved by the Board of Directors.
April 2026	Oath of Office: Mayor Pro-Tem Archer Wilkins, City of Creedmoor Commissioner	Administered by Attorney Wrenn
April 2026	Proposed FY2026-27 Budget Review	Board members reviewed and commented. They will continue discussion on this topic at the May Board meeting.
April 2026	Public Hearing -Proposed Fiscal Year 2026-2027	The Board held the required public hearing.
April 2026	PFAS Pilot 2 DEQ Resolution of Acceptance	The Board approved this item.
April 2026	PFAS Pilot 2 CDM Smith Scope and Fee Approval	The Board approved this item.
April 2026	Arbitrage Award of Contract	The Board approved this item.
April 2026	Budget Amendments #11 & #12	The Board approved these items.

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Utility Operations Highlights

Water Distribution System Topics

1. None.

Wastewater Collection System Topics

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

Water Treatment Plant Topics

- 1) During April, staff at the water treatment plant experienced sludge material backup in the existing disposal line. Due to the thickness of the sludge, the material can back up in the existing disposal lines, thus causing a problem. Staff working on some solutions to this issue.

Wastewater Treatment Plant Topics

- 1) None.

Utility Customer Service/Administration Topics

- 1) No operating issues.

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Staffing Summary

The FY25-26 Budget authorized 52 full-time employees. The current staffing level is above 94%. The following is a breakdown of the status of several vacancies.

Vacant Positions – Currently Advertising and/or Interviewing

Utility Maintenance Mechanic (1)

Utility Pump Mechanic (1)

Wastewater Treatment Operator (1)

Vacant Positions – Final Candidate Selected/Pending Background Checks

None

Recent New Hires

WWTP Maintenance Mechanic (1)

Recent Internal Promotions

None

(End of Report)