

NORTH CAROLINA PUBLIC STAFF UTILITIES COMMISSION

April 5, 2024

Ms. A. Shonta Dunston, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

Re: Docket No. W-1343, Sub 1 – Application by GWWTP, LLC for a Certificate of Public Convenience and Necessity to Provide Wastewater Utility Service to Southern Shores Landing and Ginguite Mixed Use Development in Dare County, North Carolina, and for Approval of Rates

Dear Ms. Dunston,

Attached for filing on behalf of the Public Staff in the above-referenced dockets is the testimony and exhibits of Lindsay Q. Darden, Public Utilities Engineer, Water, Sewer, and Telephone Division of the Public Staff – North Carolina Utilities Commission.

By copy of this letter, I am forwarding a copy to all parties of record by electronic delivery.

Sincerely,

Electronically submitted
/s/ Davia A. Newell
Staff Attorney
davia.newell@psncuc.nc.gov

/s/ James Bernier, Jr.
Staff Attorney
james.bernier@psncuc.nc.gov

cc: Parties of Record

Executive Director (919) 733-2435

Accounting (919) 733-4279

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Energy (919) 733-2267 Legal (919) 733-6110

Transportation (919) 733-7766

Water/Telephone (919) 733-5610

CERTIFICATE OF SERVICE

I certify that a copy of the Testimony and exhibits have been served on all parties of record or their attorneys, or both, in accordance with Commission Rule R1-39, by United States Mail, first class or better; by hand delivery; or by means of facsimile or electronic delivery upon agreement of the receiving party.

This the 5th day of April, 2024.

Electronically submitted /s/ Davia A. Newell Staff Attorney

DOCKET NO. W-1343, SUB 1

In the Matter of
Application by GWWTP, LLC for a
Certificate of Public Convenience and
Necessity to Provide Wastewater Utility
Service to Southern Shores Landing and
Ginguite Mixed Use Development in Dare
County, North Carolina, and for Approval
of Rates

TESTIMONY OF LINDSAY Q. DARDEN PUBLIC STAFF – NORTH CAROLINA UTILITIES COMMISSION

April 5, 2024

- 1 Q. Please state your name, business address, and present
- 2 **position.**
- 3 A. My name is Lindsay Q. Darden. My business address is 430 North
- 4 Salisbury Street, Dobbs Building, Raleigh, North Carolina. I am a
- 5 Public Utilities Engineer with the Water, Sewer, and Telephone
- 6 Division of the Public Staff North Carolina Utilities Commission
- 7 (Public Staff).
- 8 Q. Please state your qualifications and duties.
- 9 A. My qualifications and duties are included in Appendix A.
- 10 Q. What is the purpose of your testimony?
- 11 A. The purpose of my testimony is to provide the North Carolina Utilities
- 12 Commission (Commission) with the results of my investigation of
- specific areas of the application filed on January 11, 2024, by
- 14 GWWTP, LLC (GWWTP), in Docket No. W-1343, Sub 1, for a
- 15 Certificate of Public Convenience and Necessity (CPCN) to provide
- 16 wastewater utility service to Southern Shores Landing and Ginguite
- 17 Mixed Use Development (collectively Ginguite Woods) in Dare
- 18 County, and for approval of rates. I also discuss whether issuing a
- 19 CPCN to GWWTP is in the best interest of the using and consuming
- public.
- The specific areas of my investigation include reviewing consumer
- statements of position filed in the docket and Notices of Violation

1		(NOVs) and Notices of Deficiency (NODs) issued by the North
2		Carolina Department of Environmental Quality (DEQ). I also assisted
3		the Public Staff's Accounting Division with reviewing expenses,
4		recommended rates, and plant in service.
5	Q.	Please describe the Ginguite Woods service area and
6		wastewater utility system.
7	A.	The Ginguite Woods service area consists of Southern Shores
8		Landing, a subdivision with 38 single-family homes, and Ginguite
9		Mixed Use Development, a future development consisting of retail
10		and residential townhomes. The subdivision and the mixed-use
11		property are adjacent to each other and are along North Carolina
12		Highway 158 at the intersection of Landing Trail in Dare County.
13		Southern Shores Landing consists of single-family homes and
14		townhomes. The Ginguite Mixed Use Development is planned to be
15		constructed within the next two years, and the plan currently includes
16		36 townhomes as well as office and retail spaces and a restaurant.
17		The site of the Ginguite Mixed Use Development was formerly
18		referred to as The Ginguite Center in Docket No. W-1139.
19		The Ginguite Woods wastewater system currently serves the 38
20		residential customers in Southern Shores Landing and consists of

32,500 gallons-per-day (GPD) wastewater collection, treatment, and

spray irrigation facilities. The wastewater collection facilities consist

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of gravity sewer lines, lift stations, and force main. The wastewater treatment plant (WWTP) and system is permitted by DEQ under Permit No. WQ0017224 for a bar screen; a 9,861-gallon aerated equalization tank; a flow splitter/control box; two aeration tanks, each with 16,420-gallon capacity; two clarifiers, each with 2,775 gallons of usable volume; a 3,211-gallon aerated sludge holding tank; blowers; a gravity-fed tertiary filter unit; a 1,840-gallon clear well; a 2,065-gallon mudwell; tablet chlorination unit; a 922-gallon chlorine contact tank; a reclaimed water utilization system including spray irrigation; a 23,114-square foot infiltration pond; piping; valves; and appurtenances. A copy of the permit is included in Exhibit 5 of the Application.

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- Q. Please provide a brief history of the ownership and operation ofthe WWTP.
- 15 A. The WWTP serving the Ginguite Woods service area has gone
 16 through periods of time when the ownership and plant operation
 17 responsibilities were not reported to, nor approved by, the
 18 Commission.
- By order dated August 13, 2003, in Docket No. W-1139, Sub 0,
 Ginguite Woods Water Reclamation Association, Inc. (GWWRA),
 was granted a CPCN to provide sewer service in Ginguite Woods.
- 22 GWWRA contracted with Enviro-Tech of North Carolina, Inc. (Enviro-

Tech) (formerly William G. Freed, Inc.), to operate the WWTP.	On
November 6, 2009, GWWRA's owner, Mr. Neal Blinken, notified	the
Public Staff that he did not have the necessary capital to adequat	ely
fund sewer operations. By order dated November 20, 2009,	in
Docket No. W-1139, Sub 4, the Commission appointed Enviro-Te	ch,
the public utility, as emergency operator. ¹	

On March 3, 2010, Paragon Utilities Inc. (Paragon), acquired ownership of GWWRA through foreclosure of assets of the Ginguite Woods system. GWWRA and Paragon did not seek or receive permission to transfer the assets or inform the Commission of the transfer.

Between November 13, 2015, and March 24, 2017, GWWTP acquired the system assets associated with the Ginguite Woods system and gained full ownership. GWWTP acquired and gained control of the Ginguite Woods system without seeking or receiving Commission approval. Enviro-Tech continued to operate the system after GWWTP gained ownership. On or about April 2021, Envirolink, Inc. (Envirolink), acquired the Enviro-Tech operations company, but not the public utility, and took over its operation contracts, including

¹ By order dated March 1, 2002, in Docket No. W-1165, the Commission approved the transfer of the franchise to provide sewer utility service in the Villages at Ocean Hill Subdivision in Currituck County, North Carolina, from Corolla North Utilities to Enviro-Tech of North Carolina, Inc.

those providing service in Ginguite Woods. On or about August 2021,
Enviro-Tech ceased operation of the Ginguite Woods system. The
Commission was not notified of the relinquishment of service by the
emergency operator as required by statute. In April 2022, GWWTP
terminated the services of Envirolink and contracted Atlantic OBX,
Inc. (Atlantic OBX), to operate the system and perform billing and
customer service.
Enviro-Tech filed a Petition with the Commission on September 15,
2023, to terminate its role as emergency operator, a role Enviro-Tech
had relinquished in 2021. The Commission appointed GWWTP as
the emergency operator by order dated January 12, 2024. The order
discharged Enviro-Tech as the emergency operator, appointed
GWWTP as the new emergency operator, approved increased rates,
and required customer notice. In addition, Ordering Paragraph No. 2
states "[t]hat pursuant to N.C.G.S. § 62-110.3(d), the \$20,000 bond
posted by Enviro-Tech for Ginguite Woods is hereby declared
forfeited."

During periods of time in which there was inadequate operation, violations occurred, and standard maintenance work was not performed. This resulted in the degradation of the WWTP, and extensive capital improvement projects are now needed, some of

1	which GWWTP has already undertaken and others that GWWTP
2	plans to complete.

Q. Briefly describe the results of your investigation of DEQ NOVs,
 NODs, and Civil Penalties.

A. The Ginguite Woods wastewater system operates under DEQ permit WQ0017224, which applies to the WWTP and the reclaimed water utilization system. GWWTP and the North Carolina Environmental Management Commission entered into a Settlement Agreement in June of 2022 to address noncompliance violations occurring at the WWTP from January through August 2021. The Settlement Agreement is included as Exhibit 5 of the Application. GWWTP included supporting documentation showing that they fulfilled the Settlement Agreement. The Settlement Agreement resolved the violations through August 2021. My investigation included all NOVs and NODs from September 1, 2021, through December 31, 2023.

Between September 1, 2021, and December 31, 2023, the Ginguite Woods WWTP received seven NOV and three NOD letters. The NOVs and NODs were the result of the following: (1) Limit Exceedances of Total Suspended Solids, Ammonia Total Nitrogen, Fecal Coliform, and/or Turbidity; (2) Monitoring Violations of Total Phosphorous, Turbidity, Total Nitrogen, Total Dissolved Solids, and/or Chloride; and (3) Reporting Violations of Total Nitrogen and/or

Total Dissolved Solids that occurred on September 30, 2021 (NOV-
2021-LM-0093), March 14, 2022 (NOD-2022-LV-0026), October 25,
2022 (NOV-2022-MV-0146), April 3, 2023 (NOV-2023-LV-0240 and
NOV-2023-LM-0023), May 8, 2023 (NOV-2023-LV-0315), July 25,
2023 (NOD-2023-PC-0206), August 3, 2023 (NOV-2023-LV-0533),
and December 11, 2023 (NOD-2023-LV-0161). One NOV was the
result of missing the Groundwater Quality Monitoring Report for
August 2021, issued March 14, 2022 (NOV-2022-PC-0107).

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An inspection of the WWTP was performed by Robert Tankard and Victoria Herdt of the Washington Regional Office of DEQ on March 14, 2023. The inspection resulted in DEQ finding the facility to be non-compliant with regard to Permit WQ0017224. According to the DEQ summary report of the compliance inspection, the following issues were observed: (1) one of the blowers needed to be replaced or repaired; (2) the tankage for the clarifier, filters, and disinfection were in bad shape and need to be replaced within the next two to five years; (3) the weir and skimmer of the clarifier appeared to be nearing the end of their useful service life; (4) the tertiary filters only worked in manual mode; (5) the disinfection system needed to be repaired due to fecal result limits; (6) the reclaimed valve was questionable; (7) the irrigation system did not work; (8) new pumps and controller were probably needed; (9) the generator needed to be replaced; and (10) vegetation was needed on the infiltration pond

1	bank. The report also stated the following observations: (1) the EQ
2	basin tanks, digestor, and aeration basins were new; (2) the turbidity
3	meter had been replaced and calibrated; and (3) the infiltration pond
4	was cleaned and in great condition.

- Q. Have you conducted a site visit of the Ginguite Woods
 wastewater system and, if so, what were your observations?
- 7 Α. On March 19, 2024, I, along with Public Staff Attorney, Davia Newell, 8 visually inspected the wastewater system while accompanied by 9 **GWWTP** representative Bob Howsare and Atlantic OBX 10 representative Dave Robinson. A reporter with the Outer Banks 11 Voice, Kipp Tabb, was also present at the inspection.

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Contractors were on-site during the site visit, working on the electrical panels for the plant. The blowers were running intermittently during the site visit. GWWTP completed an upgrade to the front end of the plant earlier this year. The front end of the plant, including the equalization (EQ) basin tanks, digestor, and aerations basins appeared in excellent condition. GWWTP plans to upgrade the back end of the plant in the fall of 2024. The back-end portion of the plant appeared to be in poor condition. The tanks, panels, and walkways were very worn and rusted. The back end of the plant is still operational, but, according to the operator, it does not operate as designed in certain conditions, such as excessive rainfall. The spray

irrigation system is not in use and has not been in use for approximately ten years. Mr. Robinson stated that the current flow through the plant does not generate the amount of reclaimed water needed for the spray irrigation to function properly and therefore the system has not been utilized. GWWTP plans to refurbish the spray irrigation system and add a computerized controller to the system.

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Mr. Robinson pointed out the manhole location that had previously experienced overflows. Since Atlantic OBX has been operating the plant, overflow at the manhole has occurred three times, which is significantly less frequent than under previous operators, according to customer accounts. Each overflow that Atlantic OBX has experienced was not large enough to require reporting a Sanitary Sewer Overflow report to DEQ. Pictures from the site visit are included in **Darden Exhibit No. 1**.

15 Q. Did GWWTP provide Notice to Customers of the Application?

- 16 A. Yes. On February 24, 2024, the Commission issued the Order
 17 Approving Customer Notice (Notice Order). On March 1, 2024,
 18 GWWTP filed a Certificate of Service stating that the notice was
 19 mailed or hand delivered by the date specified in the Notice Order.
- 20 Q. Has the Public Staff received any customer complaints?
- 21 A. No customer complaints have been received by the Public Staff
 22 Consumer Services Division.

- Q. Has the Public Staff received any consumer statements ofposition?
- A. Yes. As of April 2, 2024, the Public Staff has received 19 consumer statements of position. All the statements opposed the proposed rate increase. One of the consumer statements described a service issue with the sprinkler irrigation system at their home not working for the past ten years. None of the other consumer statements of position expressed concerns with the service currently provided by GWWTP.

9 Q. Please summarize the public hearing conducted in this case.

- 10 A. The Commission conducted a hearing to receive testimony from
 11 public witnesses on March 18, 2024, at 7:00 p.m. at the Dare County
 12 Courthouse in Manteo, North Carolina. Approximately 21 customers
 13 attended as well as two reporters. Five customers testified on the
 14 record during the hearing. All customers who attended and those that
 15 testified were residents of Southern Shores Landing.
 - Wayne Avery testified that the majority of the residents of Southern Shores Landing are retirees and live on a fixed income, and that a large increase in rates would be a significant financial burden. Mr. Avery described that most of the homes in the community are occupied by only one or two residents, which results in low usage. Mr. Avery shared his frustration with the lack of communication from "the owners" to the residents concerning the future mixed-use

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1	development. Mr. Avery stated that he has been a resident for 11
2	years and has not had any service issues during that time.
3	Matthew Huband testified that he has experienced continual odor
4	and effluent discharge from a manhole located on Landing Trail after
5	excessive rain. Mr. Huband stated that the odor and the overflows
6	through the manhole have been resolved since the tank replacement
7	that occurred late last year. Mr. Huband has been a resident since
8	2018.
9	Linda Sears addressed consumption amounts and stated that the
10	Homeowners Association mandates homes to have a maximum
11	occupancy of six people due to the WWTP capacity. Ms. Sears
12	stated that, as of the morning of that day (March 18, 2024), there
13	were no signs or contact information for the operator, Atlantic OBX,
14	or owners, GWWTP, on the WWTP site. Ms. Sears also stated that
15	the irrigation sprinkler system that is included in the property deed
16	does not work. The sprinkler system is part of the Ginguite system,
17	and GWWTP is responsible for maintaining it.
18	Susan Johnson testified that she has not received any notices of
19	noncompliance from GWWTP. She also stated that the odor from the
20	plant is strong during the summer. Ms. Johnson has been a resident
21	of Southern Shores Landing for ten years.

Caroline Haas testified against the increase of rates. She mentioned the average sewer bill of municipalities. Ms. Haas described an instance when an overflow resulted in sewage running along Highway 158, located in front of the plant. Ms. Haas also pointed out the constant issuance of fines by DEQ to the owners.

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GWWTP filed a Report on the Customer Hearing on April 2, 2024, in the docket. In reference to the odor complaints, GWWTP stated that it is not possible to eliminate all odor at a sewage treatment plant. Mr. Howsare stated that he has been on site at the plant dozens of times in the last year or more, and while standing on top of or close by the plant, he has noticed the earthy odor that can be expected of a sewage treatment plant that is properly operating. The Company stated it will continue to monitor the sewage treatment plant to identify and address any odor-related issues that result in an odor that arises from inappropriate treatment. In reference to the irrigation system, the Company stated that it is in the process of refurbishing the irrigation system and that when the flow from the Ginguite Mixed Use Development is added to the plant, there should be sufficient effluent to operate the irrigation system. In reference to Ms. Hass' testimony describing an overflow of effluent from the irrigation pond onto Highway 158, the Company stated that the total flow for the plant per day would not raise the water level by a quarter of an inch and that it would require a substantial flow in excess of the total flow

1		of the plant per day to cause the infiltration pond to overflow onto the
2		highway. The Public Staff will be filing a response to GWWTP's
3		customer hearing report on April 16, 2024, as ordered by the
4		Commission.
5		The Public Staff has given this customer testimony proper
6		consideration in formulating its recommendations.
7	Q.	Is GWWTP providing safe and reliable service?
8	A.	Yes. Based on my site visit, review of environmental records, the
9		minimal amount of NOVs issued by DEQ recently, and the lack of
10		customer complaints regarding service quality or customer service
11		issues over the past three years, I conclude that GWWTP is
12		providing adequate service to its sewer customers.
13		BILLING ANALYSIS
14	Q.	What are the present and proposed sewer utility service rates?
15	A.	The present rates were approved by the Commission's Order
16		Discharging Emergency Operator Subject to Final Financial Review
17		Appointing New Emergency Operator, Approving Increased Rates
18		and Requiring Customer Notice issued on January 12, 2024, ir
19		Docket No. W-1139, Sub 4. The present and proposed rates are as
20		follows:
21		<u>Present</u> <u>Proposed</u>
22		Monthly Sewer Utility Service:

1		Residential Flat Rate (per SFE ²)	\$180.00	\$172.82
2		Connection Charge: (per SFE)	\$3,500	\$3,500
3		Reconnection Charge:		
4		If sewer utility service cut off by utility	\$15.00	\$15.00
5	Q.	Briefly explain your billing analysis.		
6	A.	I reviewed and analyzed GWWTP's cur	rent and proje	cted billing data
7		and customer flow allocation. I perf	ormed a billi	ng analysis to
8		determine the level of annual service re	evenues prodi	uced at present
9		and the Company's proposed rates utilize	zing the projec	cted full buildout
10		of customers for Ginguite Woods. I conf	irmed the billir	ng determinants
11		for end of period (EOP) customer coun	ts, analyzed tl	he plans for the

determinants used by the Company in the Application.

The flat rates for Ginguite Woods are based on a per single-family equivalent (SFE). The present rates define SFE as 360 GPD. DEQ issues permits for wastewater treatment plants with required capacity amounts of gallons per day of usage determined by the 15A NCAC 02T .0014 rules. The 15A NCAC 02T .0014 rules were recently revised by the enactment of Session Law 2023-137, and the capacity amount required for the type of residential homes in the

future Ginguite Mixed Use Development, and agree with the billing

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² Single-Family Equivalent (SFE)

Ginguite Woods service area has been reduced³. The minimum design capacity amount for a residential three-bedroom home was reduced from 360 GPD to 225 GPD. To account for this rule change, the rate design defines SFE as 225 GPD, and the capacity amounts for each type of customer is based on the current 15A NCAC 02T .0014 rules.

Based on the 15A NCAC 02T .0014 rules, the SFEs listed below in **Darden Table 1**, are calculated for the residential and commercial customers:

Darden Table 1 – SFE Allocations per Customer Type

	SFEs Allocated (SFE = 225 GPD)
Existing Customers	38
Future Residential Units	47
Future Restaurant	21
Future Commercial Space	7

The billing determinants are consistent with the Company's proposed billing determinants. The rates are based on the full buildout of the Ginguite Mixed Use Development. The Public Staff and the Company have discussed this methodology and agree that

³ See December 13, 2023 Memorandum issued by the NPDES Branch Chief describing Session Law 2023-137 – Changes to Wastewater Design Flow Rates in 15A NCAC 02T .0014(b). https://www.deq.nc.gov/session-law-2023-137-changes-wastewater-design-flow-rates/download?attachment

including the future customers in the rate calculations accurately distributes the cost of service amongst the customer base. Although the Company will not be recovering the total service revenue requirement until the future customers are added, by incorporating the future customers into the billing determinants, the cost of service for the entire plant and system is distributed equitably among all existing and potential customers. This methodology is a reasonable and preferred alternative to an excess capacity adjustment for overbuilt plant.

Furthermore, Southern Shores Landing customers have filed consumer statements about their concerns with having to pay for the plant associated with the future development. By including the future customers in the billing determinants, the recovery of the cost of service is shared and appropriately addresses the customers' concerns.

- Q. What are the Public Staff's calculated annual service revenues under the present rates and the Company's proposed rates?
- A. The Public Staff's calculated present and proposed service revenues
 for the 12-month period ended August 31, 2023, are shown below in

 Darden Table 2. The revenues were calculated using the Public
 Staff's recommended billing determinants, GWWTP's present rates
 approved in Docket No. W-1139, Sub 4, and GWWTP's proposed
 rates. The service revenues are based on the billing determinants at
 full buildout.

10 **Darden Table 2** - Public Staff's Calculated Service Revenues

	Present Rates	Company Proposed Rates
PS Calculated Service Revenue	\$244,080	\$234,344

11 <u>RATE DESIGN</u>

- 12 Q. What is your recommendation concerning GWWTP's proposed
- 13 rates?
- 14 A. The Public Staff recommends a rate decrease for the Ginguite Woods
- service area. My revenue calculations are shown in **Darden Exhibit**
- 16 **No. 2**. The Public Staff recommended rates are as follows:

1 2		Monthly Sewer Utility Service: Flat Rate (per SFE ⁴) \$129.33
3		Connection Charge (per SFE):
4		\$3,500
5 6		Reconnection Charge: If sewer utility service cut off by utility \$15.00
7		My recommended rate design recovers the service revenue
8		requirement determined by Public Staff Financial Analyst Kuei Fe
9		Sun.
10		EVDENCES
10		<u>EXPENSES</u>
11	Q.	Please describe your investigation of operating and contract
	Q.	
11	Q .	Please describe your investigation of operating and contract
11 12		Please describe your investigation of operating and contract expenses identified in the Application.
11 12 13		Please describe your investigation of operating and contract expenses identified in the Application. My investigation of operating expenses included reviewing expense
11 12 13 14		Please describe your investigation of operating and contract expenses identified in the Application. My investigation of operating expenses included reviewing expense for the contract operator, maintenance and repair (M&R), electrical expenses.
11 12 13 14		Please describe your investigation of operating and contract expenses identified in the Application. My investigation of operating expenses included reviewing expense for the contract operator, maintenance and repair (M&R), electric power, chemicals, testing, permit fees, and sludge removal.
111 112 113 114 115		Please describe your investigation of operating and contract expenses identified in the Application. My investigation of operating expenses included reviewing expenses for the contract operator, maintenance and repair (M&R), electric power, chemicals, testing, permit fees, and sludge removal. reviewed GWWTP's expenses for the test year, the 12-month periods.
111 112 113 114 115 116		Please describe your investigation of operating and contract expenses identified in the Application. My investigation of operating expenses included reviewing expense for the contract operator, maintenance and repair (M&R), electric power, chemicals, testing, permit fees, and sludge removal. reviewed GWWTP's expenses for the test year, the 12-month period ended August 31, 2023, which were provided in the Application. In

⁴ SFE = 225 GPD.

Based on my review of the invoices, I agree with the amounts listed on the Application, for the following expenses:

3	<u>Expense</u>	<u>Amount</u>
4	Contract Operator	\$48,000
5	Chemicals	\$ 2,265
6	Electric Power	\$ 5,554

Q. Have you recommended any adjustments to expenses related tosewer operations?

A. Yes, I have provided Public Staff Financial Analyst Sun with recommendations for adjustments to expenses for M&R, testing, and sludge hauling.

MAINTENANCE AND REPAIR EXPENSE

The Public Staff reviewed GWWTP's M&R expenses for its sewer operations. The Company provided invoices and explanations for expenses in response to Public Staff Data Requests Nos. 1 and 3. I reclassified \$823 for testing equipment and supplies from M&R to the Testing expense. I reclassified \$450 for a vacuum truck to pump septage from a lift station from the Sludge Hauling expense to M&R. An invoice from Albetuck Land Development LLC for \$14,000 for cutting down trees, clearing, and mulch around Ginguite Trail Pond was included in the M&R expense. In response to Public Staff Data Request No. 3, the Company stated that the landscape work was a

requirement of the Division of Water Resources and included preparing the slopes for the infiltration pond, clearing of overgrown vegetation, and mowing around the pond. Typically, with regular, routine maintenance, landscape work is less expensive to maintain than the initial work needed to address an overgrown area. Therefore, it does not appear that this amount of work will be a recurring, annual expense. I annualized the total amount of \$14,000 over five years and included \$2,800 in the total M&R expense. The Public Staff recommends a reduced M&R expense of \$26,465.

TESTING EXPENSES

The Public Staff has reviewed GWWTP's sewer testing expenses. I included the total from the invoices provided in response to Public Staff Data Request No. 1. As stated above, I reclassified \$823 for testing equipment and supplies from the M&R expense to Testing. The Public Staff recommends testing expenses of \$12,625.

SLUDGE HAULING EXPENSE

The Public Staff has reviewed the sludge hauling quantities and expenses provided by GWWTP. Sludge hauling amounts are included on the invoices from Atlantic OBX. The invoices from Atlantic OBX that included sludge hauling during the test year were for hauling in October, November, and December 2022. Sludge hauling charges did not appear any other time during the test year.

Two Atlantic OBX invoices from October 2022 identified a total
amount of \$16,841.67 and described it as: "Sludge Removal to Start
Construction at Plant," and included a charge for "Holding Tank
Rental." The Atlantic OBX invoice from November 2022 identified a
total amount of \$9,991.56 and described it as a charge for "Holding
Tank Rental, Pickup and Cleaning" and "Transfer from KDHWWTP
to Plant in Order to have Good Biology in Tank After Construction."
The Atlantic OBX invoice from November 28, 2022, identifies a total
amount of \$1,675 for sludge hauling.
Sludge hauling can vary from year to year depending on operational
changes or system maintenance requirements needed in addition to
routine sludge hauling. The Company was not able to provide sludge
hauling data for the 24 months prior to the start of the test year due
to the previous operator not providing records to GWWTP.
to the previous operator not providing records to GVVVIII.
The sludge hauling events that occurred during the construction of
the front end of the plant replacement in October and November
2022 do not provide a representative annual level for sludge hauling.
I capitalized the \$26,833.23 amount of sludge hauling as plant in
service to be included with the WWTP Steel Tank
Replacement/Front End Upgrade project. Based on my review of the
invoices, it appears that the November 28, 2022, invoice totaling
\$1,675 represents an expected amount of sludge hauling associated

with typical operation of the plant. During my site visit, Mr. Robinson, the operator, stated that, currently, sludge hauling typically occurs on a quarterly basis. Although the test year invoices do not show sludge hauling occurring quarterly, the construction sludge hauling activity may have affected the expected frequency of sludge hauling. Therefore, based on the invoices and Mr. Robinson's input, I determined that the \$1,675 invoice amount served as a representative level for sludge hauling that is expected to occur quarterly. The Public Staff recommends an ongoing sludge hauling expense of \$6,700.

Α.

PLANT IN SERVICE

12 Q. What adjustments have you made to plant additions since the 13 Docket No. W-1139, Sub 3 case?

In response to Public Staff Data Requests Nos. 1 and 4, GWWTP provided invoices and supporting documentation for plant additions made since October 2009, which was the last rate case associated with the WWTP in Docket No. W-1139, Sub 3. With the exception of the acquisition adjustment related to purchase, the Public Staff agrees with the plant amounts and service lives associated with the plant in service items included in the Application. As stated previously, the Public Staff recommends including the \$26,833.23 sludge hauling amount, originally included in the Sludge Hauling

- expense, with the WWTP Steel Tank Replacement/Front End
 Update project plant in service amount.
- 3 Q. Briefly describe GWWTP's plans for capital improvements.
- A. GWWTP intends to replace the back end of the WWTP in the fall of
 2024 for an estimated cost of \$500,000. In addition to the
 replacement of the back end of the plant, GWWTP has estimated
 approximately \$100,000 worth of additions and upgrades to be
 completed after the back end of the plant replacement. The
 Company states that the back end of the plant replacement and the
 additional upgrades will be financed using the owner's equity.

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The total estimated cost of these capital improvements is \$600,000. I provided the estimated service lives shown in **Public Staff Sun Exhibit 1**, **Schedule 2-2**. The estimated service lives are based on preliminary information since the identified improvements are planned and not installed. The estimated service lives were primarily based on lives from other proceedings with similar equipment types. The resulting revenue requirement determination, identified in **Public Staff Sun Exhibit 1**, **Schedule 2-2**, provides the Commission with an estimate, based on currently known information, of the revenue requirement and rate impact associated with the planned improvements.

It will be incumbent upon GWWTP to ensure the improvements are reasonable and prudent for the capital investment associated with the improvements to be added to rate base and included in rates in a future rate case proceeding. At that time, depreciation lives and associated rates may be adjusted to account for the actual improvements made, including details on the specific equipment and materials used. Inclusion of the currently planned capital improvements totaling \$600,000 for the sewer system, based on the resulting revenue requirements to support the improvement costs, as identified in **Public Staff Sun Exhibit 1, Schedule 2-2**, would result in a \$53.72 per month increase in sewer flat rates. This is equivalent to a 42% increase in the sewer monthly flat rate of \$129.33 recommended by the Public Staff.

Q. What is your recommendation concerning the acquisitionadjustment proposed by GWWTP?

A. The Public Staff does not support recovery of an acquisition adjustment. As a general proposition, when a public utility buys assets that have previously been dedicated to public service as utility property, the acquiring utility is entitled to include in rate base the lesser of the purchase price or the net original cost of the acquired

⁵ Rate impact is determined by dividing the revenue requirement included in the prefiled testimony of Public Staff witness Sun by the number of sewer SFEs (113) and then by the number of months in a year and reflecting that amount in the sewer flat rate.

1	facilities owned by the seller at the time of the transfer. See W-1000,
2	Sub 5 Order. Typically, companies seek acquisition adjustments to
3	facilitate the sale or transfer of a utility before closing occurs.
4	The Commission has indicated "a strong general policy against the
5	inclusion of acquisition adjustments in rate base subject to
6	exceptions in appropriate instances." <i>Id.</i> at 24. In the W-1000, Sub 5

Commission stated:

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After examining the relevant policy considerations and the prior decisions of the Commission, the Commission concludes that the outcome in an acquisition adjustment case should hinge upon whether the party seeking rate base treatment for an acquisition adjustment has established by the greater weight of the evidence that the purchase price which the purchaser has agreed to pay is prudent and that the benefits of including the acquisition adjustment in rate base outweigh any resulting burden to ratepayers. After conducting such an analysis, the Commission concludes that inclusion of the acquisition adjustment in North Topsail's rate base would be inappropriate because UI is obligated to purchase North Topsail regardless of our decision with respect to the acquisition adjustment issue and because UI has failed to meet its burden of proving that the benefits to affected customers from the inclusion of the acquisition adjustment in rate base outweigh the resulting harm. Id. at 22.

Order, the Commission discusses circumstances when the rate base

treatment of acquisition adjustments was not applicable. The

On page 11 of his prefiled direct testimony, witness Howsare testifies that the purchase price is prudent, the result of arm's length bargaining, and the benefits accruing to the customers materially

outweigh the costs of inclusion in the rate base of the purchase price.
GWWTP did not provide any documentation or explanation to
support witness Howsare's statement. The Public Staff requested
support in Public Staff Data Request No. 3, and the Company did not
provide further support for the prudency of the purchase price
amount. In reference to the prudency of the purchase price, the
Company stated that the utility had issues with the abandonment of
the system by the prior franchise owner. This statement does not
support the prudency of the \$110,000 purchase price amount. In
reference to the benefits to customers outweighing the costs of
inclusion in the rate base of the purchase price, the Company's
response stated that the customers are benefited due to the
operation of the system by a financially viable Company who desires
to own and operate the system, and to provide safe, adequate, and
reliable sewer service to the customers. Although the Public Staff
believes that those outcomes are important and necessary, they are
the expected standards and responsibilities of a utility company.
Similar to the Commission's decision stated above, the Public Staff
believes that GWWTP has failed to meet its burden of proving that
the benefits to the affected customers from the inclusion of the
acquisition adjustment in rate base outweigh the resulting harm.
The Commission also states above that the inclusion of the

acquisition adjustment in rate base would be inappropriate because

the buyer was obligated to purchase the system regardless of the
Commission decision with respect to the acquisition issue. GWWTP
purchased the WWTP assets and gained ownership without
Commission approval years prior to the filing of the Application.
Therefore, the purchase of the system is complete and is not
conditioned on the approval and inclusion of the requested
acquisition adjustment in rates. The Public Staff does not support an
acquisition adjustment applied retroactively to a purchase that is
already complete. The criteria that the Commission is to consider and
determine applicable to a request for an acquisition adjustment
should be analyzed before a sale is complete, when negotiations and
changes could still be completed if necessary. Section 110(a) of
Chapter 62 states in pertinent part that "no public utility shall
hereafter begin the construction or operation of any public utility plant
or system or acquire ownership or control thereof, either directly or
indirectly, without first obtaining from the Commission a certificate
that public convenience and necessity requires, or will require, such
construction, acquisition, or operation Section 111(a) of
Chapter 62 states in pertinent part that "[n]o franchise now existing
or hereafter issued under the provisions of this Chapter shall be
sold, assigned, pledged or transferred, nor shall control thereof be
changed through stock transfer or otherwise, or any rights
thereunder leased, nor shall any merger or combination affecting any

public utility be made through acquisition of control by stock purchase or otherwise, except after application to and written approval by the Commission. . .".

On page11 of his prefiled direct testimony, witness Howsare testifies that the requested acquisition adjustment justification is consistent with the case filed by Heaters Utilities, Inc., for the transfer of the Hardscrabble water system in Docket. No. W-274, Sub 122. The Public Staff disagrees with his opinion that the Hardscrabble docket is directly relatable to this one. In the Hardscrabble docket, the sale was pending and was waiting on the determination of an acquisition adjustment. Additionally, that docket involved a small utility being sold to a larger utility with more resources and a larger customer base, which provided the benefit of economies of scale to the existing customer base. In the W-274, Sub 122 Order, the Commission determined that an acquisition adjustment was appropriate, stating:

The Commission concludes that it is not reasonable, and would conflict with sound regulatory policy and practice, to send a signal to the water utility industry that a small system should be allowed to deteriorate so that it can command a higher sales price, since the acquiring company could then obtain rate base treatment on its purchase price. *Id.* at 11.

GWWTP acquired the WWTP assets and ownership between November 13, 2015, and March 24, 2017. The plant in service records provided by GWWTP show projects in 2019, 2022, and

2023. GWWTP owned and operated the WWTP for approximately two to four years before investing in any significant capital upgrades. The Public Staff believes that allowing an acquisition adjustment after an owner has purchased a plant and allowed it to continue to deteriorate for years before making any major capital improvements would, as the Commission described above, send a signal to the water utility industry that allowing a system to deteriorate could lead to justifying a higher sales price since an acquisition adjustment may be granted.

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In the W-1000, Sub 5 Order, the Commission assessed whether an acquisition adjustment was appropriate with respect to the Carolina Water Service, Inc. of North Carolina systems, Chapel Hills and High Meadows. The Commission stated:

Hearing Examiner reached the opposite conclusion with respect to the Chapel Hills and High Meadows systems since the record did not establish that the prior owner would have failed to make necessary system improvements in the absence of a transfer, the amount which Carolina Water Service had spent on service improvements was unclear, there had been no violations assessed against the High Meadows system, the record did not demonstrate that the sales had been conducted at arms length and that purchase prices were reasonable. circumstances surrounding the transfers were unclear, the purchases had been effectuated without prior Commission approval, and it was doubtful that the benefits to customers outweighed the costs. . Id. at 24.

The Commission clearly stated that an acquisition adjustment was
not approved due to the following: the record did not establish that
the prior owner would have failed to make necessary system
improvements in the absence of a transfer; the circumstances
surrounding the transfer were unclear; the purchases had been
effectuated without prior Commission approval; and it was doubtful
that the benefits to customers outweighed the costs. The same
circumstances are applicable to GWWTP in this case. GWWTP was
the owner before the request for an acquisition adjustment was
submitted and had made necessary system improvements after a
couple years of ownership. The circumstances surrounding the
transfer and history of ownership and operation have been unclear
due to the involved parties changing operations and ownership
without Commission approval. GWWTP purchased the system
without Commission approval and has stated that the purchase was
not dependent on an acquisition adjustment. Lastly, GWWTP has not
provided adequate support for how the acquisition adjustment
benefits customers.

As stated above, GWWTP has not quantified "the impact of including the acquisition adjustment in rate base on the rates paid by customers of the acquired and acquiring utilities." Allowing GWWTP to recover in rate base the entire difference between the purchase price of \$110,000 and the net plant in service of \$0 at the time of

purchase would equate to a \$10.90 increase in residential monthly
wastewater flat rates ⁶ as shown in Public Staff Sun Exhibit 1
Schedule 2-2. This equates to an 8% increase in the residentia
sewer monthly flat rate of \$129.33 recommended by the Public Staff
Approval of an acquisition adjustment is not appropriate to be
determined after the system is purchased and is not in the public
interest. Further, GWWTP has not established by the greater weight
of the evidence that the benefits to Ginguite Woods customers
resulting from the allowance of rate base treatment of an acquisition

adjustment in this case would offset or exceed the resulting burden

or harm to customers, including but not limited to, the future rate

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Q. What is your recommendation concerning the bond for thewastewater utility system?

impact of the requested acquisition adjustment.

15 A. North Carolina Session Law 2023-137, Section 24 revised N.C.G.S.

§ 62-110.3(a) to read that no franchise may be granted to any water

or sewer utility company "until the applicant furnishes a bond,

secured with sufficient surety as approved by the Commission, in an

amount not less than twenty-five thousand dollars (\$25,000)." In

⁶ Rate impact is determined by dividing the respective revenue requirement included in the prefiled testimony of Public Staff witness Sun by the number of sewer SFEs (113), and then by the number of months in a year and reflecting that amount in the residential wastewater flat rate.

1	addition, the bond "shall be conditioned upon providing adequate
2	and sufficient service within all the applicant's service areas."
3	Further, N.C.G.S. § 62-110.3(a) provides:
4	In setting the amount of a bond, the Commission shall
5	consider and make appropriate findings as to the
6	following:
7	(1) Whether the applicant holds other water
8	or sewer franchises in this State, and if

so its record of operation,

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- The number of customers the applicant (2) now serves and proposes to serve,
- 3) The likelihood of future expansion needs of the service.
- If the applicant is acquiring an existing (4) company, the age, condition, and type of the equipment, and
- Any other relevant factors, including the (5) design of the system.

Commission Rules R7-37 and R10-24 restate and reaffirm most of these provisions and requirements although the Commission Rules have not been updated to reflect the revised bond amount required by N.C.G.S. § 62-110.3. Bond is required to ensure the continued provision of adequate and sufficient wastewater services in the event a wastewater utility is unable to provide such service due to financial constraints, mismanagement, or other factors. The factors and findings set forth in N.C.G.S. § 62-110.3(a)(1) – (5) make clear that the bond amount depends heavily on the applicant's financial, managerial, and technical expertise; the applicant's performance where applicable; the number of current and projected

	future wastewater customers; system expansion plans and needs;
	the complexity of the applicant's system and facilities; and any other
	factors that bear upon the risk of the applicant providing inadequate,
	inconsistent, and/or insufficient wastewater services. North Carolina
	Gen. Stat. § 62-110.3 and Commission Rules R7-37 and R10-24
	make it clear that a higher risk of deficient wastewater services
	necessitates a higher bond amount.
	GWWTP does not have a history of operations and management in
	North Carolina under Commission regulation, and due to the
	customer size, the improvements planned by GWWTP, and the size
	of the WWTP and wastewater collection system, I recommend that a
	\$100,000 bond be posted by GWWTP.
Q.	What is your recommendation regarding the requested grant of
	a CPCN for Ginguite Woods?
A.	While the Public Staff has found that GWWTP has the financial,
	technical, and managerial ability to own and operate the Ginguite
	Woods wastewater system, the Public Staff's support of the request
	to grant a CPCN is contingent on the following conditions: (1)

denying an acquisition adjustment; (2) requiring a bond of \$100,000;

and (3) approving a monthly residential flat rate of \$129.33.

- 1 Q. Does this conclude your testimony?
- 2 A. Yes, it does.

QUALIFICATIONS AND EXPERIENCE

Lindsay Q. Darden

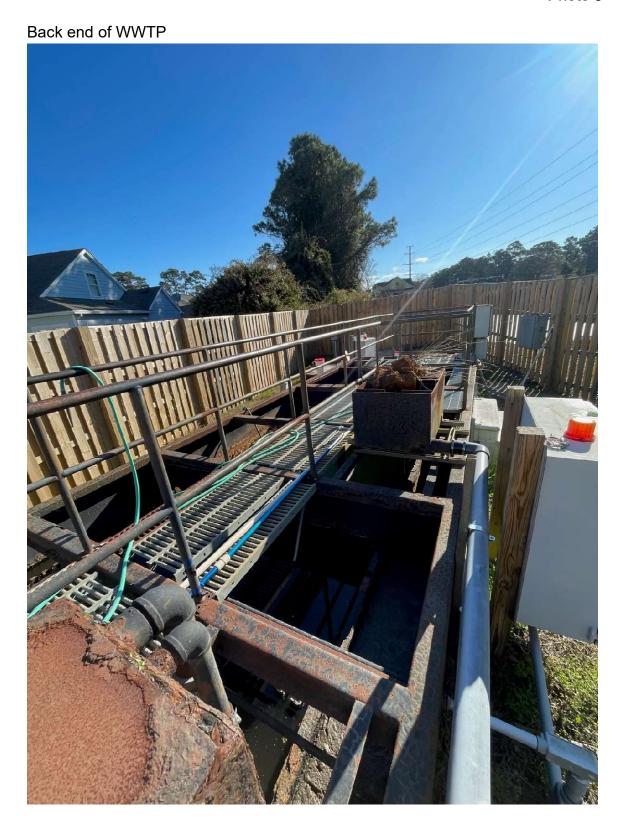
I graduated from North Carolina State University, earning a Bachelor of Science Degree in Civil Engineering. I am a licensed Professional Engineer (PE - State of North Carolina #042110). I am also certified as a B-Well Operator (#130281) by the North Carolina Water Treatment Facility Operators Certification Board. I worked for the North Carolina Department of Environmental Quality (DEQ), Public Water Supply Section for four years prior to joining the Public Staff in December 2016. Prior to working for DEQ, I worked for Smith Gardner, an engineering consulting firm.

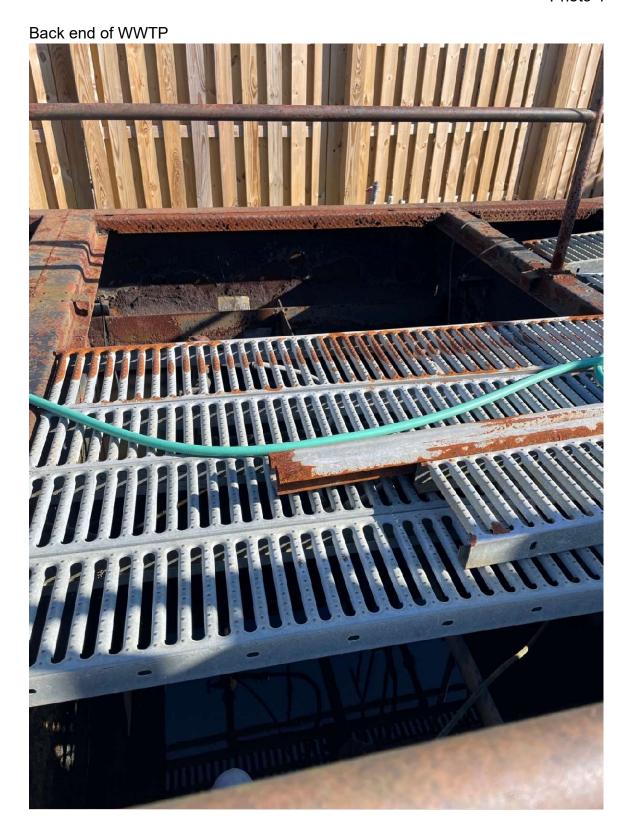
My duties with the Public Staff are to monitor the operations of regulated water and wastewater utilities with regard to rates and service. These duties include conducting field investigations, reviewing, evaluating, and recommending changes in the design, construction, and operations of regulated water and wastewater utilities, presenting expert testimony in formal hearings, and presenting information, data, and recommendations to the North Carolina Utilities Commission.

Front end of WWTP





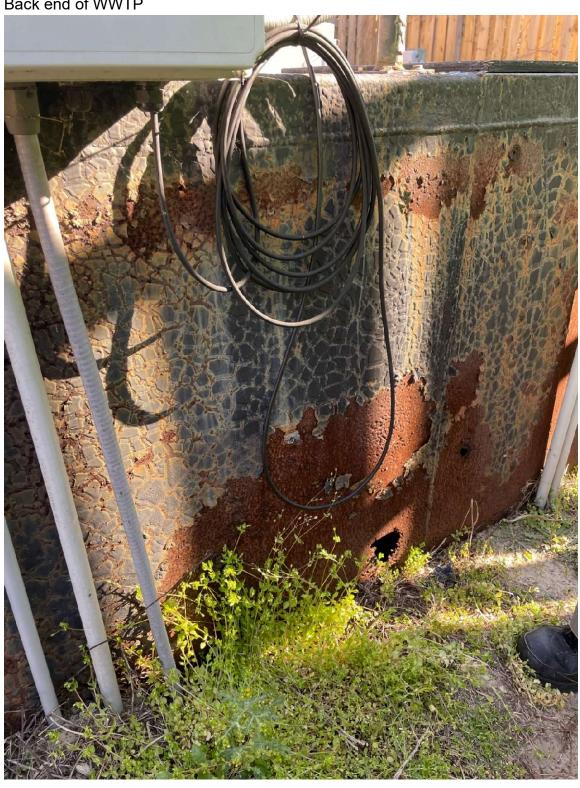


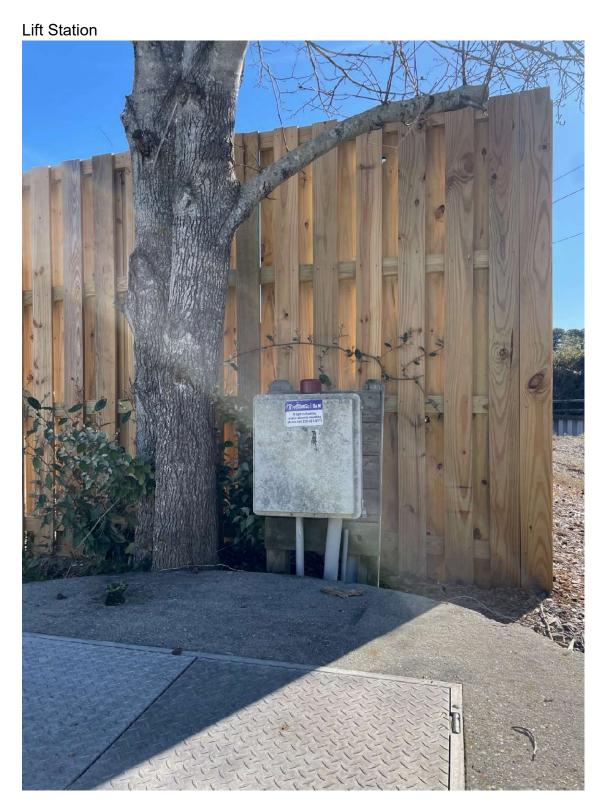


Back end of WWTP



Back end of WWTP





Blowers



Generator



Infiltration Pond



Site of the future Ginguite Mixed Use Development



GWWTP, LLC

Docket No. W-1343, Sub 1

For the 12 Months Ending August 31, 2023

Page 1 of 1

Revenue at Public Staff Recommended Rates

Public Staff Recommended Rates

SEWER

Billing	Flow Allocation ¹		SFE	Monthly	Total Annual
Туре	(gallons per day)	SFE ²	x 12 months	Flat Rate ⁵	Revenue
				\$129.33	
Residential Customers ³	8,550	38	456		\$58,974
Mixed Use Residential ⁴	10,500	47	564		\$72,942
Mixed Use Restaurant	4,800	21	252		\$32,591
Mixed Use Retail Space	1,624	7	84		\$10,864
Total		113			\$175,371

Notes:

- 1. Flow Allocation based on the design standards determined by 15A NCAC 02T .0014 rules.
- 2. SFE = Single-Family Equivalent.
- 3. Residential Customers represents the 38 existing customers of Southern Shores Landing subdivision. SFE based off of design standards of 3-bedroom home.
- 4. Represents the 36 townhome units in the Ginguite Mixed Use Development. SFE based on 140 total bedroom units.
- 5. Monthly flat rate is per SFE.