STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

CAROLINA WATER SERVICE, INC. OF NORTH CAROLINA DOCKET NO. W-354, SUB 356

TESTIMONY OF GINA Y. CASSELBERRY ON BEHALF OF THE PUBLIC STAFF

SEPTEMBER 19, 2017

1	Q.	PLEASE STATE FOR THE RECORD YOUR NAME, BUSINESS
2		ADDRESS, AND PRESENT POSITION.
3	A.	My name is Gina Y. Casselberry. My business address is 430 North
4		Salisbury Street, Dobbs Building, Raleigh, North Carolina. I am an
5		Advanced Utilities Engineer with the Public Staff's Water, Sewer and
6		Communications Division.
7		
8	Q.	BRIEFLY STATE YOUR QUALIFICATIONS AND EXPERIENCE
9		RELATING TO YOUR PRESENT POSITION WITH THE PUBLIC
10		STAFF.
11	A.	I graduated from Michigan Technology University receiving a Bachelor
12		of Science Degree in Civil Engineering. Prior to joining the Public Staff,
13		I worked for McKim and Creed Engineers, PA, as a Project Engineer
14		designing water and sewer systems. I have been with the Public Staff's
15		Water Division since February, 1992. I have presented
16		recommendations in rate increase proceedings, new franchise and

1	transfer proceedings, and other matters before the Commission for the
2	past twenty-five years.

3 Q. WHAT ARE YOUR DUTIES IN YOUR PRESENT POSITION?

My duties with the Public Staff are to monitor the operations of regulated water and sewer utilities with regard to service and rates. Included in these duties are field investigations to review, evaluate, and recommend changes, when needed, in the design, construction, and operations of regulated water and sewer utilities; presentation of expert testimony in formal hearings; and presentation of information, data, and recommendations to the Commission.

Α.

A.

Q. PLEASE DESCRIBE THE SCOPE OF YOUR INVESTIGATION IN THIS CASE.

On March 31, 2017, Carolina Water Service, Inc. of North Carolina (CWSNC or Company) filed an application with the Commission to increase its rates for providing water and sewer utility service in all of its service areas in North Carolina, except Corolla Light and Monteray Shores Service Area (CL/MS) and Elk River Development (Elk River). My investigation included review of customer complaints, contact with the Division of Water Resources (DWR), Water Quality and Public Water Supply, review of company records and analysis of revenues at existing and proposed rates. I have also assisted Public Staff Accountant Sonja Johnson in reviewing expenses and plant in service.

2	Q.	BRIEFLY	DESCRIBE	THE	COMPANY'S	APPL	ICATION	IN	THIS

3 CASE.

A.

On August 17, 2016, the Commission approved the merger of Bradfield Farms Water Company (Bradfield Farms), Carolina Trace Utilities, Inc. (Carolina Trace), CWS Systems, Inc. (CWSS), Elk River, and Transylvania Utilities, Inc. (Transylvania), into CWSNC, which were all subsidiaries of Utilities, Inc.. This is the first general rate case filed by CWSNC since the Commission approved the merger. CWSNC is proposing four rate divisions: CWSNC Uniform Water, CWSNC Uniform Sewer, Bradfield Farms/Fairfield Harbour Water and Bradfield Farms/Fairfield Harbor Sewer. CL/MS and Elk River have separate rates and CWSNC is not proposing a rate change for either.

CWSNC is proposing uniform water rates for the former Clearwater systems, Treasure Cove, Register Place Estates/North Hills, Glen Arbor/North Bend and Forest Hills Subdivisions; and uniform water and sewer rates for the Fairfield Mountain Valley (a.k.a. Rumbling Bald) service area, Highland Shores Subdivision, Laurel Mountain Estates, the Fairfield Sapphire Valley service area, Carolina Trace, Connestee Falls Subdivision, and the Nags Head service area (sewer only). CWSNC is proposing a base facility charge, based on

meter size, for metered residential water and sewer customers in all of its service areas except CL/MS and Elk River. These base facility charges would also apply to CWSNC's purchased water and sewer systems. CWSNC is also requesting to increase the meter testing fee from \$19.95 to \$20.00, the new water customer charge from \$26.93 to \$27.00, the reconnection charge from \$26.93 to \$27.00, the new sewer customer fee from \$21.95 to \$27.00 and the charge for processing NSF checks from \$24.94 to \$25.00 for all its applicable service areas except CL/MS and Elk River.

Q. PLEASE DESCRIBE CWSNC's SERVICE AREAS.

A.

CWSNC operates 92 water utility systems and 39 sewer utility systems, some of which serve multiple subdivisions. These water and sewer utility systems are spread throughout North Carolina. CWSNC serves primarily residential customers, but it does serve a limited number of retail and commercial customers. Casselberry Exhibit Nos. 1 and 2 list the water and sewer systems operated by CWSNC. As of the twelve month period ending December 31, 2016, CWSNC served 29,883 water customers and 20,020 wastewater customers, including Elk River and CL/MS. There are also 3,636 water availability customers in the Carolina Forest, Woodrun, Linville Ridge, Sapphire Valley, Connestee Falls, and Fairfield Harbour

- 1 service area, and 1,224 sewer availability customers in Sapphire
- 2 Valley, Connestee Falls, and Fairfield Harbour.

WHAT ARE CWSNC'S PRESENT AND PROPOSED RATES? 3 Q.

4 A. CWSNC's present and proposed rates for water and sewer utility 5 service are shown in Casselberry Exhibit No. 3.

6

7 WHAT EFFECTS WOULD THE PROPOSED RATES HAVE ON Q.

8 **RESIDENTIAL CUSTOMERS?**

9 A. Based on the average monthly usage in gallons shown, the average residential bills for a 5/8 inch meter would increase (decrease) as 10

11 follows if the rates requested by CWSNC are approved:

WATER OPERATIONS

	Average			
Service Area	<u>Usage</u>	Existing	Proposed	Percentage
Uniform Flat Rate		\$41.60	\$50.17	20.60%
Uniform Metered Rate	3,980	\$47.87	\$57.60	20.33%
Clearwater systems	3,980	\$34.18	\$57.60	68.52%
Treasure Cove	3,980	\$22.06	\$57.60	161.11%
Forest Hill	3,980	\$43.25	\$57.60	33.18%
Fairfield Mountain	3,980	\$47.49	\$57.60	21.29%
Sapphire Valley	3,980	\$56.39	\$57.60	2.15%
Connestee Falls	3,980	\$53.88	\$57.60	6.90%
Carolina Trace	3,980	\$34.19	\$35.75	4.56%
Carolina Forest	3,980	\$35.10	\$39.65	12.96%
High Vista Estates	3,980	\$35.34	\$39.89	12.87%
Riverpointe	3,980	\$47.47	\$52.02	9.59%
Whispering Pines	3,980	\$31.28	\$35.83	14.55%
White Oak/Lee Forest	3,980	\$35.34	\$39.89	12.87%
Winston Plantation	3,980	\$35.34	\$39.89	12.87%
Winston Pointe	3,980	\$35.34	\$39.89	12.87%
Woodrun	3,980	\$35.10	\$39.65	12.96%
Yorktown	3,980	\$42.34	\$46.89	10.75%
Zemosa Acres	3,980	\$43.37	\$47.92	10.49%
Fairfield Harbour	3,980	\$20.44	\$26.97	31.95%
Bradfield Farms	3,980	\$16.05	\$26.97	68.04%

SEWER OPERATIONS

	Average		
Service Area	<u>Usage</u>	Existing	Proposed Percentage
Uniform Flat Rate		\$52.55	\$ 60.22 14.60%
Sapphire Valley		\$35.52	\$ 60.22 69.54%
Nags Head		\$62.65	\$ 60.22 (3.88%)

123456789012345 6	Q.	Connestee Falls Uniform Metered Sewer White Oak Plantation/Lee Forest/Winston Point Xings Grant College Park Mt. Carmel Fairfield Mountain Carolina Trace Fairfield Farms Bulk Sewer HAVE YOU REVIEWED THE OPERATIONAL STATUS OF THE
17		WATER AND SEWER SYSTEMS WITH THE WATER QUALITY
18		AND PUBLIC WATER SUPPLY SECTIONS OF THE DIVISION OF
19		WATER RESOURCES (NORTH CAROLINA DEPARTMENT OF
20		ENVIRONMENTAL QUALITY)?
21	A.	Yes. I contacted all of the regional offices. None of the regional
22		office personnel expressed any major concerns with the systems
23		serving CWSNC customers or identified any major issues
24		concerning water quality.
25		
26	Q.	HAS THE PUBLIC STAFF RECEIVED ANY CUSTOMER
27		COMPLAINTS AS A RESULT OF THE CUSTOMER NOTICES IN
28		THIS PROCEEDING?
29		A. Yes. The Public Staff received approximately 120 email
30		messages or letters from CWSNC customers. The service areas
31		represented are Abington (1), Belvedere (6), Bradfield Farms (3),
32		Carolina Trace (63), Connestee Falls (19), Fairfield Mountain (1), Mt.
33		Carmel (2), Mt. Mitchell (2), Sapphire Valley (7), Sugar Mountain (1),

Treasure Cove (5), Watauga Vista (1), Woodhaven (1), and from unspecified service areas (8). All of the customers objected to the magnitude of the increase. Many complaints received were concerning the corporate structure, rate of return, the notice to customers, and rate design. The Public Staff also received numerous complaints that pertained to rate comparisons between CWSNC's current and proposed rates and the rates of municipalities in North Carolina and other states. Hearings were held across the state for customer testimony, which voiced similar complaints.

Magnitude of the Rates and Other Concerns

Corporate Structure, Management and Rate of Return:

Utilities, Inc. is the parent company and sole owner of CWSNC, which consists of approximately 216 wells, 98 booster stations, 41 wastewater treatment plants, 366 lift stations, 745 miles of water main, 305 miles of sewer main and other equipment such as meters, pumps, valves, blowers, diffusers, vehicles, office equipment, that are necessary to provide water and sewer service. CWSNC manages all operations and has two regional managers, seven area managers, 58 full-time operators, one part-time operator, and five field technicians. The Company manages and operates 92 water systems and 38 sewer systems in 38 counties across North Carolina

from Bear Paw Subdivision in Cherokee County to Corolla Light/Monteray Shores in Currituck County. CWSNC's total operating expenses are approximately \$13,350,784 for water and \$10,471,771 for sewer.

Under North Carolina law, private utility companies are entitled to recover their reasonable and verified operational expenses and earn a rate of return on their investment. During the five month investigation in this rate case, Public Staff accountants and engineers completed an extensive audit, including a billing analysis and review of CWSNC's books, records and general ledgers, which provide the basis for our findings and recommendations to the Commission. The revenue requirement is the amount necessary to enable the Company to recover its reasonable operational expenses and earn a reasonable return on its plant investment. The rate of return is addressed in Public Staff Economist, Calvin Craig's testimony.

Notice to Customers and Rate Design:

The Notice to Customers (Notice) that customers received might have been confusing, since this is the first CWSNC rate case that includes all of its newly consolidated companies. The Notice shows the existing and proposed rates of CWSNC's uniform customers for

"Water Utility Service" and also the rates for each consolidated service area thereafter, starting with the "Former Clearwater Systems", which, if approved by the Commission, will be moved from system specific rates to CWSNC's uniform rates. The rates for "Sewer Utility Service", which are listed starting on page 9 of the Notice, are set forth in the same manner. Bradfield Farms and Fairfield Harbour have a separate Notice and proposed rates.

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Water and sewer bills consist of two components, the base facility charge and the usage charge. In theory, the base facility charge recovers the fixed costs incurred by the Company divided by all of the customers, and the usage charge recovers the variable costs. However, most of the cost to produce water or treat sewage is fixed. Approximately 75% of the cost to provide water service is fixed, and approximately 90% of the cost to provide sewer service is fixed. In order to promote conservation and allow a reasonable level of monthly revenue, or "cash on hand", to pay fixed costs, the split between the base facility charge and the usage charge for water operations is approximately 45%:55% and 80%:20% for sewer operations, respectively. In setting rates, the Commission has to take into account all of the customers. Seasonal customers or those who are retired prefer a high usage charge because they use little water, whereas, a larger household might prefer to have a higher

base charge because they use a lot of water. It is the Public Staff's position that the split is appropriate for all users. Purchase water and sewer customers pay the same base facility charge as uniform customers. The usage charge for purchased water and sewer customers is the same consumption charge as the supplier.

Comparison between Private Utilities and Municipalities:

It is inappropriate to compare the rates of private Commissionregulated utilities like CWSNC to municipalities or county systems for the following reasons:

- 1. Economies of Scale: The operational costs per customer are lower for customers of municipalities because of economies of scale, as there are tens of thousands of customers versus thousands of customers among whom the costs are divided. CWSNC serves approximately 30,000 water customers and 20,000 sewer customers; and operates 92 water systems and 38 sewer systems across 38 counties spanning from the mountains to the coast. Charlotte Water, for example, is a regional supplier of drinking water and has over 834,000 customers in one county, a much larger customer base from which to recover its fixed costs.
- 2. Water Source: The majority of CWSNC's water production is through a series of wells, utilizing ground water. The majority of

municipalities, at least in North Carolina, utilize surface water.
For example, the City of Sanford has an abundant water supply
from a single surface water source, the Cape Fear River. The
Water Treatment Plant is located in close proximity to the
headwaters of the Cape Fear River. Depending on the size of
the service area, CWSNC may have dozens of wells throughout
the service area. A single well might pump 20 gallons per minute
(28,800 gallons per day), whereas the treatment facility in
Sanford produces on average seven million gallons per day. The
water source is different. The economy of scale is overwhelming.
The type of treatment, equipment, personnel and operating
expenses are different.

- 3. Regulation: Private utilities are regulated by the State of North Carolina. The general statutes allow a utility the right to recover its operational expenses and a reasonable rate of return. Municipal or county systems are not regulated by the Utilities Commission and may subsidize the operating expenses of their utility systems thorough taxation.
- Capital projects: Private utilities fund capital projects through private investors or loans. Municipalities and county systems may qualify for low interest tax free bonds and other loans to fund capital projects.

Rate of Return: Under the general statutes, private utilities
 have the right to earn a rate of return on their investment and to
 recover their operating expenses.

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Service and Water Quality Complaints

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Asheville Hearing

Twenty-one customers testified at the hearing in Asheville: Michael Sanders, Carl Burkhart, Susan Kish, Phil Reitano, James Hemphill, Jack Zinselmeier, John Jennings, Alan Higgins, Jack Barton, Margaretta Lang, Warren Grafer, Donn Levine, Richard Adams, Vernon McMinn, James Cain, Dennis Shellenberger, Gerard Worster, Tom Haynes, Sean O'Meara, Chuck Van Rens and Betty Jackson. The subdivisions represented included Connestee Falls (4), Fairfield Mountain/Apple Valley (a.k.a. Rumbling Bald) (6), Mt. Carmel (2), Woodhaven Subdivision (4) and Mt. Mitchell Lands (5). All of the customers at the hearing complained about the magnitude of the increase. Many filed information regarding rate comparisons to municipalities, opposed the large base facility charge, noted the lack of improvements to their specific system, opposed the proposed rate of return, questioned the stock transfer to Corix, and believed that CWSNC provided no justification for the increase, which I addressed in the previous section.

Mr. Sanders, Mr. Burkhart, Ms. Kish and Mr. McMinn all testified to the number of water outages in Connestee Falls and their concern with a sewage spill that ran into Lake Atagahi.

Mr. Zinselmeier, a customer in Fairfield Mountain, testified that CWSNC was slow in repairing roads after the Company repaired a leak.

Ms. Lang, who resides in Mt. Mitchel Land, complained about the number of water outages; and further stated that the boil water advisories they received were not made in a timely manner and, many times, customers were not notified when the advisories were rescinded. Mr. Levine stated that the water pressure was inadequate at his home and that Company personnel suggested that he install a jet pump to boost the water pressure from the meter to his home.

On August 29, 2017, CWSNC filed its Report on Customer Comments from Public Hearings in Asheville and Boone, North Carolina. I have read the report and commend CWSNC for its thorough response concerning customer complaints. The Public Staff is satisfied with the Company's response and has no recommendations.

Boone Hearing

One customer testified at the hearing in Boone, Howell Sharee, who lives in Sugar Mountain. Mr. Sharee is a seasonal customer who spends the summer months in Sugar Mountain and a month or so in the winter. He testified concerning the magnitude of the rate increase, particularly the high base facility charge. He stated that the service was good and he did not have any water quality issues. I have previously addressed the Public Staff's position concerning rate design and the split between the base facility charge and usage charge.

Charlotte Hearing

Four customers testified at the hearing in Charlotte. The customers testifying were William R. Colyer, Damian Michael Werner, Isaac Cochran and Chanyne Cupil. All four customers represented Bradfield Farms and opposed the magnitude of the increase. Mr. Colyer stated that the service he received from CWSNC was excellent. Mr. Werner stated that some of his neighbors complained of sewage backups, and Ms. Cupil stated her sewage had backed up but the situation was resolved.

On September 11, 2017, CWSNC filed its Report on Customer Comments from Public Hearings in New Bern and Charlotte, North Carolina. I have read the report and I am satisfied with the Company's response and have no recommendations.

New Bern Hearing

Two customers testified at the hearing in New Bern. The customers testifying were Simon Lock and Tom Musser, representing Fairfield Harbour. Both testified as to the magnitude of the increase. Mr. Lock opposed the rate design and suggested a much lower base facility charge and higher usage charge. He also opposed the flat sewer rate and stated that the Notice to customers lacked details and did not show the proposed rates. Neither had any service complaints.

As I discussed previously, the split between the base facility charge and the usage charge for water operations is approximately 45%:55% and 80%:20% for sewer operations, respectively. In setting rates, the Commission has to take into account the rate impact on all of the customers. Seasonal customers or those who are retired prefer a high usage charge because they use little water, whereas, a larger household might prefer to have a higher base

1	charge because they use a lot of water.	It is the Public Staff's
2	position that the split is appropriate for all us	sers.
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In order to prevent "rate shock", CWSNC combined Fairfield Harbour and Bradfield Farms into one rate division for water and sewer service. This was intended as an "interim rate" between CWSNC's uniform rates and Fairfield Harbour's and Bradfield Farm's specific rates.

Under the existing rates, Fairfield Harbour and Bradfield Farms have system specific rates. However, CWSNC is proposing to include them under one new rate division, and therefore, there are no proposed rates for either under their prior system specific rates. The proposed new rates for monthly metered water service for residential and commercial customers are shown in Appendix A-2, page 2 of 7; and on page 4 of 7 for monthly sewer, in the Notice to Customers for the Fairfield Harbour and Bradfield Farm Service Areas.

Wilmington Hearing

Eight customers testified at the hearing in Wilmington. The customers testifying were Frances Carroll, Diana Woolley, Edward Morrell, Danny Conner, Ferrell Drewry, Earnest Chance, Thomas Mathis and Mandy Ware. The subdivisions represented included

Belvedere Plantation (3), and Treasure Cove/North Hills (5). In addition, Mr. Carroll filed a petition with 165 signatures from Belvedere Plantation opposing the magnitude of the rates. Mr. Randall Woodruff, Pender County Manager, testified on behalf of the Pender County Commissioners and in support of all CWSNC customers in Pender County. All of the customers who testified in Wilmington opposed the magnitude of the rate increase.

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Mr. Carroll testified about a meeting between customers and personnel from CWSNC on August 16, 2017. Representing CWSNC was President Matthew Klein and Vice President of Operations, Bryce Mendenhall. Also in attendance were County Commissioner Williams and approximately 122 customers. Mr. Carroll testified that he was not satisfied with CWSNC's answers at the meeting and raised the following issues: 1) the hardness of the water; 2) brown and black stains in the toilets; 3) water stains on shower doors and cars; 4) the need for a water softener and filtration similar to the one in Olde Point Subdivision; 5) high chlorine and HHA5's levels; 6) Gen X and CWSNC's decision not to open the valve to the Pender County water system; 7) the recent pump failure and brown water; 8) timely repairs: 9) multiple outages in the last few months; and 10) expansion of the system. By a show of hands, 28 customers agreed with Mr. Carroll's concerns. Mr. Drewry testified regarding a concern with the high mineral content and the magnitude of the rates compared to other non-profit and private utility companies. Ms. Ware testified that she is concerned with water quality, especially brown water, and the number of boil advisory notices issued by CWSNC.

Mr. Conner is a customer of Treasure Cove and had the following concerns: 1) the broken fire hydrants; 2) heavy metal content in the water; 3) no extra treatment for the water; 4) extra cost for cleaning products; 5) call center; and 6) lack of flushing for the water system Mr. Chance also is a customer of Treasure Cove and his complaints included the following: 1) the notice to customers was confusing; 2) the proposed usage charge is too high; 3) CWSNC does not maintain the ditch causing floods; 4) a decorative fence on the lot needs repairing; and 5) all of the meter boxes leak.

Complaints concerning rate design, the magnitude of the rates, comparisons between CWSNC and non-profit utilities and Notice to customers have been previously addressed.

In regard to the situation at Belvedere, CWSNC informed the Public Staff about the problems they were having with well No. 2 and their decision not to activate the emergency connection with Pender County. The Public Staff agreed with their decision. Prior to the

hearing held on August 23, 2007, I inspected the water and sewer systems serving Belvedere. At the time of my inspection, Well No. 2 was running clear.

On August 24, 2017, I inspected the water system serving Treasure Cove. The ditch causing floods is not a ditch but a small creek which runs parallels to the well lot. The well lot was mowed with the exception of approximately two feet along the bank of the creek. It is the Public Staff's opinion that the well lot is being properly maintained.

On September 18, 2017, CWSNC filed its Report on Customer Comments from Public Hearings in Wilmington and Raleigh, North Carolina, August 23 and 28, 2017, respectively. I have read the report and I am satisfied with the Company's response. I have no further recommendations.

Raleigh Hearing

Four customers testified at the hearing in Wilmington. The customers testifying were Vincent P. Roy, William Glance, Judith Bassett and Ben Farmer. The subdivisions represented included Carolina Trace, Amber Acres and Jordan Woods. All of the customers who testified in Raleigh opposed the magnitude of the rate increase.

Mr. Roy, a utilities representative for the Carolina Trace community,
testified on behalf of the 18 Property Owners Associations (POA).
Mr. Roy stated that the call center was not familiar with the 18
different POA's and that many times when a boil notice is required,
the call center contacts the wrong POA representative. He did say
hat they have a good working relationship with Company personnel
and that the quarterly meetings are successful in resolving issues
within the community. Mr. Roy stated that he understands that the
Company is moving towards uniform rates. However, Mr. Roy
suggested that implementing regional rates or such as the mountains
communities verses the coastal communities or groups of rates
depending on their costs, would be more equitable than having one
uniform rate. Mr. Roy also suggested that the base facility charge
should be suspended during natural disasters such as Hurricane
Matthew. Mr. Roy testified in regard to the rate of return and
provided a Classic Cost-Volume Profit model for the Public Staff's
review.

Mr. Glance is also a customer of Carolina Trace and objected to the proposed rate structure because he believed that it benefits the Company's shareholders at the expanse of the ratepayers.

1		Ms. Bassett is a customer of Amber Acres and opposed the
2		magnitude of the increase. She did not have any service related
3		problems.
4		
5		Mr. Famer is a customer of Jordan Woods who also opposed the
6		magnitude of the increase. He did not have any service concerns
7		either.
8		
9		The rate of return and rate design issues were addressed earlier in
10		my testimony. However, I would like to point out that Carolina Trace
11		is a purchased water system and the usage charge is the same as
12		the supplier's. The base facility charge covers the fixed costs, and
13		Carolina Trace's rate is the same as uniform customers.
14		
15		On September 18, 2017, CWSNC filed its Report on Customer
16		Comments from Public Hearings in Wilmington and Raleigh North
17		Carolina, August 23 and 28, 2017, respectively. I have read the
18		report and I am satisfied with the Company's response. I have no
19		further recommendations.
20		
21	Q.	BRIEFLY EXPLAIN YOUR BILLING ANALYSIS FOR PRESENT
22		AND PROPOSED RATES.

In determining end of period (EOP) customers for present rates, I compared the EOP customers from Item 26 in the Company's Form W-1 filing with the billing data for each service area, for each meter type, for the twelve months ended December 31, 2016. I also compared total consumption from Item-26 with total consumption billed for each service area, for each meter type for the twelve months ended December 31, 2016. In determining EOP customers for proposed rates, I consolidated EOP customers at present rates from the former subsidiary companies, Bradfield Farms, Carolina Trace, CWSS, and Transylvania, into the four rate divisions: uniform water, uniform sewer, Bradfield Farms/Fairfield Harbour water and Bradfield Farms/Fairfield Harbour sewer. I also consolidated consumption for the four rate divisions. My billing analysis for EOP water and sewer customers at present rates, consolidated EOP water and sewer customers at proposed rates, and consolidated consumption at proposed rates is shown in Casselberry Exhibit Nos. 4, 5, 6, 7, 8 and 9.

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Q. DID YOU MAKE AN ADJUSTMENT FOR CUSTOMER GROWTH?

A. No. The composite customer growth factor (CGF) for customers with meters less than 1 inch was less than 1 percent.

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1	Q.	WHAT ARE THE ANNUAL	SERVICE REVE	NUES UNDER
2		PRESENT AND PROPOSED RA	ATES?	
3	A.	CWSNC's and Bradfield Farms	/ Fairfield Harbour	s (BF and FH)
4		present and consolidated propos	sed service revenue	s for the twelve
5		months ended December 31, 20	16, are shown belov	v:
6		SERVI	CE REVENUES	
7		Water Utility Service:		
8 9		CWSNC	<u>Present</u> \$15,122,929	<u>Proposed</u> \$18,414,144
10 11 12		BF and FH	\$ 717,509	\$ 1,029,392
13 14		Sewer Utility Service:		
15 16		CWSNC	<u>Present</u> \$11,755,741	<u>Proposed</u> \$13,294,803
17 18 19 20		BF and FH	\$ 1,370,666	\$ 1,792,244
21 22		For the calculations, see Casselb	perry Exhibit Nos. 10), 11, 12, 13, 14,
23		15, 16 and 17.		
24				
25	Q.	HAVE YOU RECOMMENDE	ED ANY ADJUS	STMENTS TO
26		EXPENSES RELATED TO WAT	ER AND SEWER O	PERATIONS?
27	A.	Yes, I have provided Public	Staff Accountant	Johnson with
28		recommendations for purchased	water and maintena	ance and repair
29		expenses for water operations und	der uniform rates, an	d sludge hauling
30		for uniform rates and BF/FH.		

PURCHASED WATER

Based on my review of invoices and the general ledgers, I determined purchased water in the amount of \$1,286,586. I removed \$20,844 for purchased water outside the test year. I increased purchased water by \$4,510 to account for the City of Hendersonville's new rate in High Vista Estates and Johnston County's new rates for White Oak Plantation, Lee Forest, Winston Planation and Winston Point. I also reduced purchased water by \$40,851 for water losses greater than 20 percent. I recommend \$1,286,686 for purchased water. My adjustments are shown in Casselberry Exhibit Nos 18 and 19.

MAINTENANCE AND REPAIR EXPENSES

I reclassified \$21,221 from maintenance and repair expenses to purchased water.

SLUDGE HAULING

Sludge hauling can vary from year to year depending on whether or not a digester, clarifier or equalization tank is pumped out in addition to routine sludge hauling. In order to determine a representative level, I reviewed the Company's books and records for 2014, 2015 and 2016. In addition, I calculated the three-year average.

systems where a change in the process had occurred, I adjusted the three-year average accordingly. I recommend \$424,765 as a representative level for sludge hauling for uniform rates and \$54,249 for BF/FH. My calculations are shown in Casselberry Exhibit 20.

A.

7 Q. WHAT IS YOUR RECOMMENDATION CONCERNING CWSNC'S 8 PROPOSAL TO CHANGE THE BASE FACILITY CHARGE FOR

RESIDENTIAL SEWER?

The Company is proposing to change the base facility charge for residential sewer customers to the same base facility charges as commercial sewer customers. The Public Staff acknowledges that in the Company's general rate case in Docket No. W-354, Sub 336, the Public Staff recommended that CWSNC maintain accurate records for all sewer customers and that, in the Company's next general rate case proceeding, residential customers with meter sizes greater than 5/8 inch be charged the same rate as commercial customers with the same meter size. In the next general rate case, Docket No. W-354, Sub 344, the Company did not have the data for residential customers with varying meter sizes, and, as a result, the Public Staff recommended one base facility charge regardless of meter size. In recognition of the significant impact the Company's proposed base facility charge would have on a relatively small

number of residential customers in the herein docket, the Public Staff recommends that all residential sewer customers pay the same base facility charge regardless of their meter size. Most of the residential customers with larger meters are located in the mountain systems. For example, Sapphire Valley has 128 residential customers with a 1.5 inch meter and 68 residential customers with a 2 inch meter, and Fairfield Mountain has 12 residential customers with a 1 inch meter. Most likely, the larger meter was installed to increase the pressure for these mountain homes which are at significantly higher elevations than the water main, or to be used for irrigation purposes, in which case the water does not flow back to the sewer plant. It is the Public Staff's position that, in these situations, it is unreasonable to charge a residential customer a base facility charge of \$242.95 for a 1.5 inch meter or a base facility charge of \$388.72 for a 2inch meter for "residential" sewer service, especially under uniform rates. As part of the settlement agreement in this case, the Company supports this recommendation.

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20 Q. WHAT IS YOUR RECOMMENDATION CONCERNING THE 21 PROPOSED RATES FOR TREASURE COVE?

A. In order to reduce "rate shock" for customers in Treasure Cove, the Public Staff is recommending the same rates as customers in Fairfield

1		Harbour and Bradfield Farms The Co	ompany agrees with and
2		supports the Public Staff's recommendation	٦.
3			
4	Q.	WHAT IS YOUR RECOMMENDATION	CONCERNING CWSNC'S
5		PROPOSED RATES?	
6	A.	The Public Staff's recommended service re	evenues are listed below:
7 8		Service Revenues	
9		Water Utility Service	
10		CWSNC Uniform	\$17,415,028
11 12		BF/FH	\$ 950,755
13 14		Sewer Utility Service	
15		CWSNC Uniform	\$12,627,226
16 17		BF/HF	\$ 1,733,316
18 19		My revenue calculations are shown on Ca	asselberry Exhibit Nos. 21,
20		22, 23, and 24. CWSNC's present, propo	sed and the Public Staff's
21		recommended rates are shown on Casse	elberry Exhibit No. 25 and
22		26. The effect of the rates are shown in e	xhibit 27.
23			
24	Q.	WHAT IS YOUR RECOMMENDATION	CONCERNING OTHER
25		CHARGES?	
26	A.	The Public Staff's does not oppose increasi	ng CWSNC's meter testing
27		fee from \$19.95 to \$20.00, the new water cu	stomer charge from \$26.93
28		to \$27.00, the reconnection charge from \$	\$26.93 to \$27.00, the new

1	sewer customer fee from \$21.95 to \$27.00, and the charge for
2	processing NSF checks from \$24.94 to \$25.00 for all applicable
3	service areas except the Corolla Light/Monteray Shores service area
4	and the Elk River Development.

A.

6 Q. DO YOU HAVE ANY OTHER RECOMMENDATIONS?

Yes. The Public Staff recommends that CWSNC consider implementing metered sewer rates for customers in its Fairfield Harbour, Bradfield Farms, and Sapphire Valley service areas in the Company's next general rate case and reserves the right to independently propose metered sewer rates for these systems. As part of the settlement agreement in this case, CWSNC supports this recommendation and agrees to undertake such consideration in conjunction with its next rate case filing.

The Public Staff opposes including "per residential or single family equivalent" in regard to the flat rate for water service. The Company has agreed to remove this language from its tariff.

20 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

21 A. Yes.

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356

For the 12 Months Ending December 31, 2016

Casselberry Exhibit No. 1 Page 1 of 3

CWSNC Water

Service Area

Abington/InterLarken

Bahia Bay

Bear Paw

Beechbrook

Belvedere Plantation

Bent Creek

Brandywine Bay

Buffalo Creek

Chapel Hill

College Park

Country Club Annex

Country Hills

Crestview

Crystal Mountain

Lamplight/Danby/Wdsd Fall

Eagle Crossing

Eastwood Forest

Forest Brook/Ole lamp Place

Grandview at T-Square

Harbor House Estates

Heathfield

Hestron Park

High Meadows

Holly Acres

Hounds Ear

Huntington Forest

Kings Grant

Larkhaven

Lemmond Acres

Linville Ridge

Mason Landing

Meadow Glen

Misty Mountain

Monteray

Mt Mitchell

Nero

Oakdale terrace

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356 For the 12 Months Ending December 31, 2016 Casselberry Exhibit No. 1 Page 2 of 3

CWSNC Water

Service Area

Olde Point

Pinnacle Shores

Powder Horn Mountain

Quail Ridge

Queen's Harbor

Ridges at Mt Harbor

Riverwood

Saddlewood

Sherwood Forest

Sherwood Park

Ski Mountain

Stone Hollow

Suburban Heights

Sugar Mountain

The Harbor/Point

Vander

Watauga Vista

Waterglyn

Westwood Forest

Wildlife Bay

Wildwood green

Willowbrook

Wolf Laurel

Wood Trace

Woodhaven Manor

Service Area

Clear Water Systems

Ashley Hills/Amber Acres

Heather Glen

Country Crossing

Oaks Plantation

Randsdell Forest

Sandy Trails

Stewarts Ridge

Wilders Village

Neuse Woods

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356 For the 12 Months Ending December 31, 2016 Casselberry Exhibit No. 1 Page 3 of 3

CWSNC Water

Service Area

Tuckahoe

Jordan Woods

Hidden Hollow

Lindsey Point

New Under Uniform Rates

Treasure Cove

Forest Hills

Carolina Trace

Connestee Falls

Fairfield Sapphire Valley

Fairfield Mountain (a.k.a. Rumbling Bald)

Purchased Water Systems

Carolina Forest

High Vista

Riverpointe

Whispering Pines

White Oak Plantation

Woodrun

Yorktown

Zemosa Acres

Service Area

Bradfield Farms

Fairfield Harbor

Elk River

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356 For the 12 Months Ending December 31, 2016

Casselberry Exhibit No. 2 Page 1 of 1

CWSNC Sewer

Service Area

Abington/Kynwood

Ashley Hills

Bear Paw

Belvedere Plantation

Bent Creek

Brandywine Bay

Carolina Pines

Lamplight/Danby/Wdsd F

Hestron Park

Hounds Ear

Hemby Acres/Beacon Hill

Kings Grant - Raleigh

Kynwood

Nero

Olde Point

Queen's Harbor

Ridges at Mt. Harbour

Riverpointe

Saddlewood

Sugar Mountain

Wolf Laurel

Willowbrook

Regalwood

White Oak Estates

White oak High School

Child Daycare

Purchased Sewer

College Park

Kings Grant - Charlotte

Mt Carmel

White Oak Planation

New Under Uniform Rates

Carolina Trace

Connestee Falls

Fairfield Mountain

Nags Head

Sapphire Valley

Service Area

Bradfield Farms

Fairfield Harbour

Elk River

Corolla Light/Monteray Shores

Carolina Water Şervice, Inc. of North Carolina Docket No. W-354, Şub 356 Test Year Ending December 31, 2016 Casselberry Exhibit No. 3 Page 1 of 10

WATER UTILITY SERVICE

Monthly Metered Water Service: (Residential and Commercial)

Base Facility	1" me	neter eter !" meter eter eter eter	\$\$\$\$\$\$	22.40 56.01 112.02 179.23 336.06 560.10	\$ 6 6 6 6 6	26.95 67.38 134.75 215.60 404.25 673.75 ,347.50
Usage Charg	ge, per 1,000 gallons		<u>E</u> >	xisting	Pr	oposed
Tr	eated Water		\$	6.40	\$	7.70
	ntreated Water randywine Bay Irrigatio	n Water)	\$	4.11	\$	4.11
Pı	ırchased Water for Res	ale				
Service Area Carolina For High Vista E Riverpointe Whispering I White Oak P Lee Forest Winston Plat Woodrun Yorktown Zemosa Acre	est Mont states City of CLTV Pines Town lantation/ John ntation John Mont City of	Bulk Provider gomery County of Hendersonville Water of Southern Pines ston County ston County gomery County of Winston-Salem of Concord		Usage Charge 1,000 gallor 3,19 3,25 6,30 2,23 3,25 3,25 3,25 3,25 3,19 5,01 5,27		3.19 3.25 6.30 2.23 3.25 3.25 3.25 3.19 5.01 5.27
Monthly Flat Rate Wate (per residence or single			\$ 4	41.60	\$	50.17
Availability Rates (sem	i-annual):					
	perty owners in Carolin sions in Montgomery C		\$:	24.64	\$	24.64
Applicable only to property owners in Linville Ridge						
Subdivision	perty owners in Linville	riuge	\$	12.32	\$	12.32
FORMED OF EARLY (A)	ED OVOTERIO. Ab.	FOREST OF SADMATER CVCTCROO. Austral Assas Austra Assas Newto Didge Ashley I'lle North				

<u>FORMER CLEARWATER SYSTEMS</u>: Amber Acres, Amber Acres North, Amber Ridge, Ashley Hills North, Bishop Pointe, Carriage Manor, Country Crossing, Covington Cross, Heather Glen, Hidden Hollow, Jordan Woods, Lindsey Point, Neuse Woods, Oakes Plantation, Randsdell Forest, Rutledge Landing, Sandy Trails, Stewart's Ridge, Tuckahoe, and Wilder's Village Subdivisions

Monthly Metered Water Rates:

		Existing	Proposed
Base Charge, zero i	usage		
• ,	5/8""meter	\$ 16.27	
	1" meter	\$ 40.67	
	1-1/2" meter	\$ 81.34	
	2" meter	\$ 130.14	
	3" meter	\$ 244.07	

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356	
Test Year Ending December 31, 2016	

Casselberry Exhibit No. 3 Page 2 of 10

	<u>Existing</u>	<u>Proposed</u>
4" meter 6" meter	\$ 406.76 \$ 813.37	
Usage Charge, per 1,000 gallons	\$ 4.50	
Monthly Metered Water Service: (Residential and Commercial)		
Base Facility Charges (zero usage) < 1"meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	Existing	\$ 26.95 \$ 67.38 \$ 134.75 \$ 215.60 \$ 404.25 \$ 673.75 \$1,347.50
Usage Charge, per 1,000 gallons Treated Water		\$ 7.70
Monthly Flat Water Rates (per residence of single family equivalent)	\$ 37.18	\$ 50.17
Management Fee Covington Cross Subdivision (Phases 1 & 2)	\$ 100.00	\$ 100.00
TREASURE COVE, REGISTER PLACE ESTATES, NORTH HILLS, A SUBDIVISIONS	ND GLEN ARBOR/N	ORTH BEND
Monthly Metered Water Rates:		
Base Charge, zero usage Usage Charge, per 1,000 gallons	<u>Existing</u> \$ 14.50 \$ 1.90	<u>Proposed</u>
Monthly Metered Water Service: (Residential and Commercial)		
Base Facility Charges (zero usage) < 1"meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter		\$ 26.95 \$ 67.38 \$ 134.75 \$ 215.60 \$ 404.25 \$ 673.75 \$1,347.50
Usage Charge, per 1,000 gallons Treated Water		\$ 7.70
FOREST HILLS SUBDIVISION		
Monthly Metered Water Service:		
Base Facility Charges (zero usage)	Existing	Proposed
Residential	\$ 22.43	
Commercial and Other: 5/8" meter 3/4" meter	\$ 22.43 \$ 33.66	

Carolina Water Service, Inc. of North Carolina				
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-				

Casselberry Exhibit No. 3 Page 3 of 10

Usage Charge, per 1,000 gall		Existing \$ 56.08 \$ 112.16 \$ 179.46 \$ 336.49 \$ 560.81 \$1,121.63 \$ 5.23	Proposed
Monthly Metered Water Service: (Resident Base Facility Charges (zero	rsage) <1"meter	Existing	Proposed \$ 26.95
	1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter		\$ 67.38 \$ 134.75 \$ 215.60 \$ 404.25 \$ 673.75 \$1,347.50

Usage Charge, per 1,000 gallons Treated Water

\$ 7.70

FAIRFIELD MOUNTAIN/APPLE VALLEY (a.k.a. RUMBLING BALD) SERVICE AREA, HIGHLAND SHORES SUBDIVISION AND LAUREL MOUNTAIN ESTATES

Monthly Metered Water Service:

Base Facility Charges (zero usage)	<u>E</u>	xisting	Proposed
Residential	\$	19.23	
Commercial and Other: 5/8" meter 3/4" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	99999	28.84 48.07 96.14 153.83 288.42 480.70	
Usage Charge, per 1,000 gallons	\$	7.10	

Monthly Metered Water Service: (Residential and Commercial)

		Existing	Pro	posed
Base Facility Charges	(zero usage) < 1"meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter		\$ 2 \$ 4 \$ 6	26.95 67.38 134.75 215.60 404.25 673.75 347.50
Usage Charge, per 1,0 Treated Wate			\$	7.70

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FAIRFIELD SAPPHIRE VALLEY SERVICE AREA

Monthly Metered Water Service:

Monthly Metered Water Service.		
Base Facility Charges (zero usage)	Existing	Proposed
Residential	\$ 19.89	
Commercial and Other: 5/8" meter 3/4" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	\$ 19.89 \$ 29.84 \$ 49.73 \$ 99.45 \$ 159.13 \$ 298.37 \$ 497.20 \$ 994.41	
Usage Charge, per 1,000 gallons	\$ 9.17	
Monthly Metered Water Service: (Residential and Commercial) Base Facility Charges (zero usage)	Existing	Proposed
< 1"meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter		\$ 26.95 \$ 67.38 \$ 134.75 \$ 215.60 \$ 404.25 \$ 673.75 \$1,347.50
Usage Charge, per 1,000 gallons Treated Water		\$ 7.70
Monthly Water Availability Rate:	\$ 9.07	\$ 9.07
CAROLINA TRACE DEVELOPMENT		
Monthly Metered Water Rates:	Existing	Proposed
Base Charge, zero usage	\$ 14.05 (minimum)	<u>. 1464444</u>
Usage Charge, per 1,000 gallons	\$ 5.06	
Monthly Metered Water Service: (Residential and Commercial)		
Base Facility Charges (zero usage) < 1"meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter		\$ 26.95 \$ 67.38 \$ 134.75 \$ 215.60 \$ 404.25 \$ 673.75 \$1,347.50
Purchased Water for Resale, per 1,000 gallons		\$ 2.21

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CONNESTEE FALLS SUBDIVISION

CONNESTEE FALLS SUBDIVISION				
Monthly Metered Water Rates:	Evi	sting	Pr	oposed
Base Charge, zero usage 5/8" X 3/4" meter 1" meter 2" meter	\$ \$	27.41 68.51 19.22		
Usage Charge, per 1,000 gallons	\$	6.65		
Monthly Metered Water Service: (Residential and Commercial)				
Base Facility Charges (zero usage) < 1"meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter			\$ \$ \$	26.95 67.38 134.75 215.60 404.25 673.75 ,347.50
Usage Charge, per 1,000 gallons Treated Water			\$	7.70
Monthly Availability Rate:	\$	4.79	\$	4.79
SEWER UTILITY SERVICE				
Monthly Metered Sewer Service:				
Base Facility Charges	Exi	sting	Pr	oposed
Residential (zero usage)	\$	42.40		
Commercial (zero usage) <1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	\$ \$ \$ \$1,	42.40 106.00 211.99 339.18 635.97 059.95 119.90		
Base Facility Charge: Residential and commercial (zero usage) <1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter			\$ \$ \$ \$1	48.59 121.48 242.95 388.72 728.85 ,214.75
Usage charge, per 1,000 gallons	\$	2.90	\$	3.32
Monthly Metered Purchased Sewer Service: Collection charge (Residential and Commercial/SFE) Usage charge, per 1,000 gallons based on purchased water	\$	33.92	\$	38.87

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Service Area	Bulk Provider	Existing	Proposed
White Oak Plantation/			a 455
Lee Forest/Winston Point	Johnston County Two Rivers Utilities	\$ 4.55 \$ 3.80	\$ 4.55 \$ 3.80
Kings Grant College Park	Town of Dallas	\$ 5.70	\$ 5.70
Conege rank	Town or Banas	Ψ 5.1.0	Ψ 5 5
Monthly Flat Rate Sewer Service:		\$ 52.55	\$ 60.22
Multi-residential customers who Master meter shall be charged th			
MT. Carmel Subdivision Service Area:			
Monthly Base Facility Charge		\$ 6.77	\$ 6.77
Monthly Collection Charge (Residential and commercial/SFE)		\$ 27.33	\$ 38.87
Usage Charge/1,000 gallons (Based on metered water usage)	\$ 5.88	\$ 5.88
Regalwood and White Oak Estates Subdiv	ision Service Area:		
Monthly Flat Rate Sewer Service:			
Residential Service White Oak High Schoo Child Castle Daycare Pantry	pl	Existing \$ 52.55 \$1,630.74 \$ 202.85 \$ 107.74	Proposed \$ 60.22 \$1,868.71 \$ 232.45 \$ 123.46

FAIRFIELD MOUNTAIN/APPLE VALLEY (a.k.a. RUMBLING BALD) SERVICE AREA, HIGHLAND SHORES SUBDIVISION AND LAUREL MOUNTAIN ESTATES

Monthly Sewer Rates:

Residential		isting	Proposed	
Collection charge/dwelling unit Treatment charge/dwelling unit Total monthly flat rate/dwelling charge	\$ \$	17.17 69.50 86.67	\$ 38.87 \$ 69.50 \$ 108.37	
Commercial and Other				
Minimum monthly collection and treatment charge	\$	86.67	\$ 108.37	
Monthly collection and treatment charge for Customers who do not take water service (per single family equivalent)	\$	86.67	\$ 108.37	
Treatment charge per dwelling unit				
Small (less than 2,500 gallons per month) Medium (2,500 to 10,000 gallons per month) Large (over 10,000 gallons per month)	\$ \$ \$	78.50 139.50 219.50	\$ 78.50 \$ 139.50 \$ 219.50	
Collection Charge (per 1,000 gallons)	\$	12.16	\$ 13.93	

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FAIRFIELD SAPPHIRE VALLEY SERVICE AREA

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ı	ıv	16)	111	T III	w	JEWEI	κ_{A}	u s

Residential	<u>E</u> 2	xis	sting	<u>Pro</u>	posed
Flat Rate, per dwelling unit	\$;	35.52		
Commercial and other					
Minimum rate	\$;	35.52		
Customers who do not take water service (per single family equivalent)	\$;	35.52		
Base Facility Charges (based on meter size with zero usage)					
5/8" meter 3/4" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	<u>ப்</u>	1 2 3	sting 15.62 23.43 39.04 78.08 124.92 234.23 390.39 780.78	Pro	<u>pposed</u>
Base Facility Charges: Residential and Commercial (zero <1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	usa	age	e)	\$ \$ \$1	48.59 121.48 242.95 388.72 728.85 214.75 429.50
Usage charge, per 1,000 gallons	\$		7.88	\$	3.32
Monthly Flat Rate Sewer Service:				\$	60.22

Multi-residential customers who are served by a Master meter shall be charged the flat rate per unit

NAGS HEAD SERVICE AREA:

Monthly Metered Sewer Service: (Commercial)

Base Facility Charges (based on meter size with zero usage)

	Existing	<u>Proposed</u>
<1" meter	\$ 18.48	
1" meter	\$ 46.10	
1-1/2" meter	\$ 92.19	
2" meter	\$ 147.51	
3" meter	\$ 276.58	
4" meter	\$ 460.96	
6" meter	\$ 921.93	
Usage charge, per 1,000 gallons	\$ 9.31	
Minimum Monthly Charge	\$ 62.65	

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		<u>Existing</u>	Proposed
Monthly Flat Rate Sewer Service:		\$ 62.65	
Monthly Metered Sewer Service: Base Facility Charges:	Residential and Commercial (zero usage)		
<1" 1" r 1-1. 2" r 3" r 4" r	meter meter /2" meter meter meter meter meter	Existing	Proposed \$ 48.59 \$ 121.48 \$ 242.95 \$ 388.72 \$ 728.85 \$1,214.75 \$2,429.50
Usage charge, per 1,00	0 gallons		\$ 3.32
Monthly Flat Rate Sewer Service:			\$ 60.22
	ers who are served by a harged the flat rate per unit		
CAROLINA TRACE DEVELOPM	<u>ENT</u>		
Monthly Metered Sewer Rates:		Existing	Proposed
Base Charge, zero usaç	ge	\$ 35.41 (minimum)	<u>,</u>
Usage Charge, per 1,00	00 gallons	\$ 8.38	
<1" 1"r 1-1 2"r 3"r 4"r	Residential and Commercial (zero usage) meter meter /2" meter	<u>Existing</u>	Proposed \$ 48.59 \$ 121.48 \$ 242.95 \$ 388.72 \$ 728.85 \$1,214.75 \$2,429.50
Usage charge, per 1,00	0 gallons		\$ 3.32
CONNESTEE FALLS SUBDIVISI	ON		
Monthly Flat Rate		\$ 45.11	
Monthly Metered Service			
Base Charge, zero usag	ge		
5/8" x3/4" me 1" meter 2" meter	ter	\$ 26.86 \$ 67.15 \$ 219.22	
Usage Charge, per 1,00	00 gallons	\$ 6.75	
Monthly Metered Sewer Service:			
Base Facility Charges:	Residential and Commercial (zero usage)	Evicting	Droposed
<1"	meter	<u>Existing</u>	<u>Proposed</u> \$ 48.59

Carolina Water Service, Inc. of North Carolina	Casselberry
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	<u>Existing</u>	Pro	posed
1" meter		\$	121.48
1-1/2" meter		\$	242.95
2" meter		\$	388.72
3" meter		\$	728.85
4" meter		\$1,	214.75
6" meter		\$2,	,429.50
Usage charge, per 1,000 gallons		\$	3.32
Monthly Flat Rate Sewer Service:		\$	60.22
Multi-residential customers who are served by a Master meter shall be charged the flat rate per unit			

WATER UTILITY SERVICE

FAIRFIELD HARBOUR SERVICE AREA

Monthly Metered Water Service

Base Facility Charges (zero	usage)	<u>Ex</u>	tisting	Pro	oposed
Residential		\$	9.73		
Commercial and	Other:				
	5/8" meter 3/4" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter	****	9.73 14.60 24.29 48.58 77.74 145.99 243.31 486.62		
Usage Charge, per 1,000 ga	allons	\$	2.69		
Monthly Water Availability F	Rate	\$	3.28	\$	3.28
BRADFIELD FARMS SUBDIVISION					
Base charge, zero Usage charge, pe		\$ \$	8.29 1.95		
Monthly Metered Water Service: (Res	idential and Commercial)				
Base Facility Charges (zero	usage) < 1"meter 1" meter 1-1/2" meter	<u>Ex</u>	<u>isting</u>	\$	12.84 32.10
\$ 64.20	2" meter			\$ 1	02.72
Usage Charge, per 1,000 ga	allons	<u>Ex</u>	isting	Pro	posed
Treated Water				\$	3.55

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SEWER UTILITY SERVICE

FAIRFIELD HARBOUR SERVICE AREA

١	/lor	thly	Sewer	Rates:
ľ	101	LLIIIV	JEWEI	naics.

Residential	Existing	Proposed
Flat Rate, per dwelling unit	\$ 37.89	
Commercial and other		
Monthly Flat Rate (Customers who do not take water service)	\$ 37.89	
Monthly Metered Rates (based on meter size with zero usage)		•
5/8" meter 3/4" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter	Existing \$ 10.17 \$ 15.26 \$ 25.43 \$ 50.85 \$ 81.36 \$ 152.56 \$ 254.26 \$ 508.52	<u>Proposed</u>
Usage charge, per 1,000 gallons	\$ 5.63	
Monthly Sewer Availability Rate	\$ 2.64	\$ 2.64
BRADFIELD FARMS SUBDIVISION Residential Customer Monthly Flat Rate	\$ 26.56	
SILVERTON and WOODLAND FARMS SUBDIVISION Monthly Bulk Flat Rate, per customer	\$ 25.20	
HAWTHORN AT THE GREEN APARTMENTS Monthly Bulk Flat Rate, per REU	\$ 25.20	
Monthly Sewer Rates:		
Residential	Existing	<u>Proposed</u>
Flat Rate, per dwelling unit Bulk Flat Rate, per REU		\$ 42.83 \$ 41.83
Commercial and other		
Monthly Flat Rate (Customers who do not take water service)		\$ 42.83
Monthly Metered Rates (based on meter size with zero usage)		
<1" meter 1-1/2" meter 2" meter	Existing	Proposed \$ 11.50 \$ 57.50 \$ 92.00
Usage Charge, per 1,000 gallons		\$ 6.36

Casselberry Exhibit No. 4 Page 1 of 5

Billing Analysis for End of Period Customers at Present Rates

CWSNC Water

OTTORIO TTORO																								
										Total								Total	Total	C Forest	Woodrun	Linville		• • •
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4R	6 R	Fiat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avaiib	avaiib	availb	avaliib	avaiil
Abington/interLarken	596									596	1			<u> </u>	<u> </u>			1	597					↓
Bahia Bay	117									117								0	117					—
Bear Paw	336	. 3	<u></u>					<u> </u>		339	5	1		<u> </u>				6	345					<u> </u>
Beechbrook	37		<u> </u>					<u> </u>		37								0	37					—
Beivedere Piantation	1173		2							1175	4	2			4			17	1192				ļ	<u> </u>
Bent Creek	306									306	1				<u> </u>			1	307					<u> </u>
Brandywine Bay	838		2		1				<u> </u>	841	10	3	1					14						
Buffaio Creek	274								ļ	274								0	274					├
Chapel Hilli	96							<u> </u>		96								0	96				<u> </u>	├
Coilege Park	79									79				<u> </u>				0	79	-	ļ		<u> </u>	—
Country Club Annex	24								<u> </u>	24	<u> </u>			<u> </u>	<u> </u>			0	24		-			
Country Hills	67									67					ļ			<u> </u>	67					
Crestview	38			<u> </u>						38				<u> </u>	<u> </u>			0	38		 			ļ
Crystal Mountain	49							<u> </u>		49				ļ				0	49		<u> </u>			
Lamplight/Danby/Wdsd Fall	1276		3	<u> </u>	-			ļ	<u> </u>	1279	3	2	1	1	<u> </u>			7	1286					
Eagle Crossing	78			<u>L</u>		<u> </u>			ļ	78				ļ	<u> </u>			0	78		<u> </u>			↓
Eastwood Forest	131	<u></u>					ļ			131	1		<u> </u>	<u> </u>		<u> </u>		1	132					╄
Forest Brook/Ole lamp Place	125	1					<u> </u>			126		1				ļ	<u> </u>	1	127	-	ļ		ļ	↓
Grandview at T-Square	74		<u> </u>				<u> </u>		<u> </u>	74	1			↓				1	75		ļ		<u> </u>	↓
Harbor House Estates	62				ļ		<u> </u>		ļ	62	<u> </u>		ļ	ļ	ļ	<u> </u>	<u> </u>	0	62		<u> </u>			↓
Heathfield	63						<u> </u>		<u> </u>	63	<u> </u>	1 1	ļ	ļ	<u> </u>	<u> </u>		1	64		-			+-
Hestron Park								<u> </u>		9	1	<u> </u>	2	2 7	/	<u> </u>		10				<u> </u>	 	₩
High Meadows	274								<u> </u>	274	3	<u> </u>	<u> </u>	<u> </u>	1			4	278		<u> </u>		ļ	
Holly Acres	53									53	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	ļ <u>1</u>	54	├ ──	 		<u> </u>	₩
Hounds Ear	417			6	1					424	1 8	3 2	2	<u> :</u>	3	<u> </u>		13	437	<u>' </u>			ļ	ــــــ
Huntington Forest	56					1	1		1	56	ş 	1	1		<u> </u>		l	: 0	56	l	<u> </u>	1	<u> </u>	

Casselberry
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Billing Analysis for End of Period Customers at Present Rates

CWSNC Wat	ter
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										Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapp V
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	availb	availb	availb	avaiilb	avalib
Kings Grant	177		1							178	1							1	179					
Larkhaven	149	16								165								0	165					
Lemmond Acres	32									32	1							1	33					
Meadow Glen	33									33								0	33					
Misty Mountain	141									141								0	141					
Monteray	27									27								0	27					
MI Mitcheli	205								16	221	2		2	1				5	226					<u> </u>
Nero	125									125								0	125					
Oakdale terrace	43									43								0	43					
Olde Point	192		3							195	1			1				2	197					
Pinnacle Shores	154									154	9							9	163					
Powder Horn Mountain	230				<u> </u>					230	1	1						2	232					
Quali Ridge	168		2							170	1							1	171					
Queen's Harbor	115									115	1					1		2	117					
Ridges at Mt Harbor									63	63	1			1				2	65					
Riverwood	188		1		<u> </u>		<u> </u>			189			1	2				3	192					
Saddlewood	124									124								0	124					
Sherwood Forest	250									250	6		1	1				8	258					
Sherwood Park	96									96		l	1					1	97					
Ski Mountain	242									242								0	242					
Stone Hollow	223									223	1							1	224					
Suburban Helghts	25									25								0	25					
Sugar Mountain	1297		1							1298	58	4	3	22	1	_		88	1386					
The Harbor/Point	1480		2	1						1483	15	3	1	3			2	24	1507					
Vander	251									251	1			3				4	255					
Watauga Vista	139									139								0	139					
Waterglyn	41				1					41								0	41					
Westwood Forest	119									119								0	119					

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Billing Analysis for End of Period Customers at Present Rates

CWSNC Water

										Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapp V
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avallb	avalib	availb	avalitb	avallb
																			İ					
Wiidlife Bay	80									80	1							1	81					
Wildwood green	225		l							225	1							1	226					
Willowbrook	166									166		1						1	167					
Wolf Laurel	636									636	5	14		3				22	658					
Wood Trace	45									45								0	45					
Woodhaven Manor	77		1							78								0	78					
Mason Landing	11									11	1			1				2	13					
Linville Ridge									337	337	1	1		4	1			7	344			63		
Uniform	14145	20	24	2	1	0	0	0	416	14608	146	37	13	61	6	1	2	266	14874	0	0	63		
SkyLeaf Buildings	44									44								0	44	<u> </u>				
Total Uniform	14189	20	24	. 2	1	0	0	0	416	14652	146	37	13	61	6	1	2	266	14918		0	63		<u> </u>

										Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapp V
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avalib	avalib	availb	avaiilb	avaiib
Clear Water Systm.																								<u> </u>
Ashley Hiiis/Amber Acres	1321				,				l	1321	4							4	1325					<u> </u>
Heather Gien	104									104								0	104					ļ
Country Crossing	56									56								0	56					<u> </u>
Oaks Piantation	25									25								o	25					
Randsdell Forest	46									46								o	46					
Sandy Trails	114									114								0	114					
Stewarts Ridge	47									47								o	47					<u> </u>
Wilders Village	42									42								0	42					
Neuse Woods									99	99					<u> </u>			0	99					oxdot
Tuckahoe	87									87						Ļ		0	87					<u> </u>

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Billing Analysis for End of Period Customers at Present Rates

CWSNC Water										Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapp V
Service Area	5/8 R	3/4 R	1R	1.5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avaiib	avaiib	avalib	avaiilb	avalib
Jordan Woods	34									34								0	34					
Hidden Hollow	47									47								0	47					
Lindsey Point	30									30								0	30					
Total Clearwater	1953	0	0	0	0	0	0	0	99	2052	4	0	. 0	0	0	0	0	4	2056					
New Under Uniform Rates																								
Treasure Cove	284		1		1					286								0	286					
Forest Hills	119									119	1	2	3					- 6	125					
Carolina Trace	1573		1		2					1576	24	2	1	3				30	1606					
Connestee Falis	1356									1356	16			3				19	1375				524	
Fairfield Sapphire Valley	1533	4	5	32	17					1591	38	2	7	8	1			56	1647	ļ				748
Fairfield Mt/Apple Valley	1001	17	12							1030	46	4	4	4	<u> </u>			58	1088					
Elk River	2	257	31							290	28	1		4				33	323					
			ļ											<u> </u>										
Purchased Water Systems									<u> </u>															ļ
Carolina Forest	197		1							198	4	1	1					- 6	204	734				
High Vista	234		1							235	1			2				3	238					
Riverpointe	190									190	5							5	195		<u> </u>			ļ
Whispering Pines	1519		15							1534	28	5	5	1		1		40	1574		<u> </u>			ļ
White Oak Plantation	507					<u> </u>				507			1		<u></u>			1	508		<u> </u>			
Woodrun	463									463	4	1				<u> </u>		5	468		693			
Yorktown	107									107								0	107	1				ļ
Zemosa Acres	239		2	<u> </u>						241		1					<u> </u>	1	242		ļ			
																<u> </u>					<u> </u>			ļ
Total	9324	278	69	32	2 20	0	0		0	9723	195	19	22	25	1	1	0	263	9986	734	693	0	524	748
	ļ														<u> </u>	<u> </u>				ļ <u>.</u>				
Grant Total	25466	298	93	34	4 21	1 0	0) (515	26427	345	56	35	86	7	2	2	533	26960	734	693	63	524	4 748

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Billing Analysis for End of Period Customers at Present Rates

										Total								Total	Total					
Service Area	5/8 R	3/4 R	1 R	1,5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avaiib	availb	avaiib	avalib	avaiib
Bradfield Farms	952	94	5							1051								0	1051					
Fairfield Harbor	1840	2	2							1844	22	1	2	3				28	1872	874				
Total	2792	96	7	0	0	0	0	0	0	2895	22	1	2	3	0	0	0	28	2923	874				

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Billing Analysis for Consolidated End of Period Customers at Proposed Rates

CWSNC Water

										Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapph. V
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	availb	avalib	availb	avalib	availb
Abington/interLarken	596									596	1							1	597					
Bahia Bay	117									117								0	117				1	
Bear Paw	336	3								339	5	1						6	345					
Beechbrook	37				<u> </u>					37								0	37					
Belvedere Plantation	1173		2		<u> </u>					1175	4	2		7	4			17	1192					
Bent Creek	306									306	1							1	307					\square
Brandywine Bay	838		2		1					841	10	3	1					14	855					ldot
Buffalo Creek	274									274								0	274					igsquare
Chapel Hill	96									96								0	96					
College Park	79									79								0	79					
Country Club Annex	24									24					ļ	<u> </u>		0	24					
Country Hills	67									67								0	67					
Crestview	38									38								0	38					igwdown
Crystal Mountain	49					<u> </u>				49								0	49					
Lamplight/Danby/Wdsd Fall	1276		3							1279	3	2	1	1				7	1286					
Eagle Crossing	78			<u> </u>						78								0	78					
Eastwood Forest	131				<u> </u>					131	1							1	132					
Forest Brook/Ole lamp Place	125	1								126		1						1	127					
Grandview at T-Square	74									74	1							1	75					igsquare
Harbor House Estates	62				<u> </u>					62								0	62					
Heathfield	63									63		1			Ĺ.,			1	64					
Hestron Park										0	1		2	7				10	10					
High Meadows	274									274	3			1				4	278					<u> </u>
Holly Acres	53									53		1				İ		1	54					
Hounds Ear	417		6	1						424	8	2		3				13	437					
Huntington Forest	56									56								0	56					
Kings Grant	177		1							178	1							1	179					
Larkhaven	149	16								165								0	165					
Lemmond Acres	32			l						32	1							1	33					

Casselberry Exhibit No. 5 Page 2 of 4

Billing Analysis for Consolidated End of Period Customers at Proposed Rates

CWSNC Water

CAASIAC AASIGI				•						Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapph. V
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avalib	availb	avallb	availb	avallb
Meadow Glen	33									33								0	33					
Misty Mountain	141									141								0	141					
Monteray	27									27								٥	27					<u> </u>
Mt Mitcheli	205								16	221	.2		2	1				5	226					<u> </u>
Nero	125									125								0	125					<u> </u>
Oakdale terrace	43									43								0	43					
Oide Point	192		3							195	1			1				2	197					
Pinnacle Shores	154									154	9							9	163					
Powder Horn Mountain	230									230	1	1						2	232					Ь
Quail Ridge	168		2							170	1							1	171					Ь
Queen's Harbor	115									115	1					1		2	117					<u> </u>
Ridges at Mt Harbor									63	63	1			1				2	65					<u> </u>
Riverwood	188		1							189			1	2				3	192					
Saddiewood	124									124								0	124					
Sherwood Forest	250			<u> </u>						250	6		1	1				8	258					<u> </u>
Sherwood Park	96									96			1					1	97					<u> </u>
Ski Mountain	242									242								0	242					Ь—
Stone Hollow	223					<u> </u>				223	1					<u> </u>		1	224					Ь—
Suburban Heights	25									25	_							0	25		ļ			<u> </u>
Sugar Mountain	1297		1			<u> </u>		<u>.</u>		1298	58	4	3	22	!1			88	1386		ļ			
The Harbor/Point	1480		2	2 1		<u> </u>			<u> </u>	1483	15	3	1	3		<u> </u>	2	24	1507	<u> </u>		<u> </u>		Ь—
Vander	251									251	1			3				4	255		ļ			Ļ
Watauga Vista	139					<u> </u>				139					<u> </u>			0	139	<u> </u>				
Watergiyn	41									41								0	41				ļ	₩
Westwood Forest	119									119						ļ	ļ	0	119					↓
Wildlife Bay	80									80	1				<u> </u>	<u> </u>		1	81	<u> </u>				
Wildwood green	225									225	1							1	226	<u> </u>	ļ		<u> </u>	—
Willowbrook	166		<u> </u>							168		1					<u> </u>	1 1	167	<u> </u>	<u> </u>		<u> </u>	<u> </u>
Wolf Laurel	636	;								636	5	14		3	3			22	658	3	<u> </u>		<u>L_</u>	<u> </u>

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Billing Analysis for Consolidated End of Period Customers at Proposed Rates

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CWSNC Water																								
										Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapph. V
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4 R	6 R	Flat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	availb	availb	availb	availb	avallb
Wood Trace	45									45								0	45					
Woodhaven Manor	77		1							78		!						٥	78					
Mason Landing	11									11	1			1				2	13					
Linville Ridge									337	337	1	1		4	1			7	344			63		
SkyFeat	44									44					<u> </u>			0	44					
Ashley Hills/Amber Acres	1321									1321	4							4	1325					
Heather Glen	104									104								0	104					
Country Crossing	56									56								0	56					
Oaks Planiation	25									25								0	25					
Randsdeil Forest	46									46								0	46					
Sandy Trails	114									114								o	114					
Stewarts Ridge	47									47								0	47					
Wilders Village	42									42								0	42					
Neuse Woods								-	99	99								0	99					
Tuckahoe	87			I						87								0	87					
Jordan Woods	34									34								0	34					
Hidden Hollow	47									47								0	47					
Lindsey Point	30									30								0	30					
New Under Uniform Rates										0								_						
Treasure Cove	284		1		1					286								0	286					
Forest Hills	119									119	1	2	3					6	125					
Connestee Falls	1356									1356	16			3				19	1375				524	
Fairfield Sapphire Valley	1533	4	5	32	2 17					1591	38	2	7	8	1			56	1647					74
Fairfield Mt/Apple Valley	1001	17	12	2	i					1030	46	4	4	4				58	1088					
Total Uniform	20435	41	42	2 34	19	0	0	0	515	21086	251	45	27	76	3	1	2	409	21495	0	0	63	524	74
Eik River	2	257	31			į.					28	1		4			Ĭ	33	33					

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Billing Analysis for Consolidated End of Period Customers at Proposed Rates

CWSNC	Water
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										Total								Total	Total	C Forest	Woodrun	Linville	Conn F	Sapph. V
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	3 R	4 R	6 R	Fiat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avaiib	availb	avallb	avaiib	availb
Purchased Water Systems																								
Carolina Trace	1573		1		2					1576	24	2	1	3				30	1606					
Carolina Forest	197		1							198	4	1	1					6	204	734			Ь	Ш
High Vista	234		1							235	1			2				3	238					
Riverpointe	190									190	5				i			5	195					
Whispering Pines	1519		15							1534	28	5	5	1		1		40	1574					
White Oak Plantation	507									507			1				, i	1	508					
Woodrun	463					l				463	4	1						5	468	<u> </u>	693			
Yorktown	107									107								0	107					
Zemosa Acres	239		2							241		1						1	242				<u> </u>	

										Total								Total	Total					
Service Area	5/8 R	3/4 R	1 R	1.5 R	2R	3 R	4 R	6 R	Fiat R	RES	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	EOP	avaiib	avalib	avalib	avalib	avalib
Bradfield Farms	952	94	5							1051								0						
Fairfield Harbor	1840	2	2 2							1844	22	1	2	3				28		874				
Total	2792	96	7	,) (0	0	0		2895	22	1	2	3	0	0	٥	28	2923	874				

Billing Analysis for End of Period Customers at Present Rates

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CWSNC Sewer

							Total								Flat	Total	Total	Availability	Availability
Service Area	5/8 R	1 R	1.5 R	2 R	3 R	Flat R	Res.	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm	Comm	EOP	Connestee	Sapphire
Abington/kynwood	596					110	706	1								1	707		
Ashley Hills	1,157					27	1,184									0	1,184		
Bear Paw	65						65	3								3	68		
Betvedere Plantation	690	2				1	693	1			4	3				8	701		
Bent Creek	306						306									0	306		
Brandywine Bay	748	2		1		47	798	4							2	6	804		
Carolina Pines						362	362	1								1	363		
Lamplight/Danby/Wdsd F	1,273	3				8	1,284	326		1	2					329	1,613		
Hestron Park	177	4				1	182	7	1	2	10					20	202		
Hounds Ear							•									0	-	}	
Huntwick transferred							-									0	-		
Hemby Acres/Beacon Hill						719	719									0	719		
Kings Grant - Charlotte							1									0	-		
Kings Grant - Raleigh						116	116									0	116		
Kynwood							-									0	-		
Nero	125						125									0	125		
Olde Point	120	3					123				1					1	124		
Queen's Harbor	114						114	1					1			2	116		
Ridges at Mt. Harbour							-	1			1				39	41	41	Ī	
Riverpointe	189						189	1								1	190		
Saddlewood	18						18									0	18		
Sugar Mountain	977	1				16	994	36	3	2	19	1				61	1,055		
Wolf Laurel	54						54				2	i				2	56		
Willowbrook	166						166					i				o	166		
Total	6,775	15	-	1	-	1,407	8,198	382	4	5	39	4	1		41	476	8,674	-	-
Multiple Dwelling Units						169	169									0	169	1	<u> </u>
SkyLeaf Building	44						44									0	44		
Total Uniform Sewer	6,819	15	-	1		1,576	8,411	382	4	5	39	4	1		41	476	8,887	-	-

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Billing Analysis for End of Period Customers at Present Rates

CWSNC Sewer

							Total								Flat	Total	Total	Availability	Availability
Service Area	5/8 R	1 R	1.5 R	2 R	3 R	Flat R	Res.	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm	Comm	EOP	Connestee	Sapphire
Regalwood						357	357									. 0	357		
White Oak Estates						688	688									o	688		
White oak High School						1	1									0	1		
Child Daycare						1	1									0	1		
																0	-		
Carolina Trace	1540	1		2			1,543	15	2	1	1					19	1,562		
Connestee Falls	984					5	989	7			1					8	997	259	
Sapphire Valley	652	2	128	68			850	18	2	4	6	1				31	881		89
Nags Head						657	657	11	7	4	7			2		31	688		
White Oak Planation	417						417									0	417		
College Park	49					1	50									0	50		
Kings Grant Charlotte	177	1					178									0	178		
Mt Carmel	387						387									0	387		
Fairfield Mountain	398	12					410									0	410		
Elk River	1	1		,			2	102	21	2						125	127		
CL/MS	775	91	0	0	0		866	71	18	3	3	1			ļ	96	962		
Total	12,199	123	128	71	-	3,286	15,807	606	54	19	57	6	1	2	41	786	16,593	259	89

Kings Grant - Charlotte was reclassified from uniform to purchased sewer

Kinks Grant - Raleigh was added to uniform rates

Fairfield Mountain treatment for commercial customers: small 7, medium 11, large 3

							Total									Total	Total	Availb	
Service Area	5/8 R	1 R	1.5 R	2 R	3 R	Bulk S	Res.	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Apts.	Comm	EOP	Harbour	
Bradfield Farms	1044	2				156	1,202				·				379	379	3162		
Fairfield Harbour	1829	1					1,830	13		2	1					16	1,846	876	
Total	2873	3	0	0	0	156	3,032	13	0	2	1	0	0	0	379	395	3,427	876	

Billing Analysis for End of Period Customers Consolidated at Proposed Rates

Casselberry Exhibit No. 7 Page 1 of 2

					Dining	Allalysis	DI LIIG OI	Period Ct	isionicis (oonsonda	ica at i io	posed rea	163						
CWSNC Sewer							T-1-1								Flat	Total	Total	Availability	Availability
		4.5	455			EI-1 D	Total	5/8 C	4.0	4.5.0	2 C	3 C	4 C	6 C	Comm	Comm	EOP	Connestee	-
Service Area	5/8 R	1 R	1.5 R	2 R	3 R	Flat R	Res.	5/8 0	1 C	1.5 C	- 20	30	40		Comm	00111111	707	Connestee	Sappriite
Abington/kynwood	596					110	706	- 1								0	1,184		
Ashley Hills	1,157					27	1,184									3	68		
Bear Paw	65						65	3						-		8	701		
Belvedere Plantation	690	2				1	693				4	3	-				306		
Bent Creek	306						306									0			
Brandywine Bay	748	2		1		47	798	4							2	6	804		
Carolina Pines						362	362	1								1	363		
Lamplight/Danby/Wdsd F	1,273	3				8	1,284	326		1	2					329	1,613		
Hestron Park	177	4				1	182	7	1	2	10					20	202		
Hounds Ear																0	-		-
Huntwick transferred							-									0	-		<u> </u>
Hemby Acres/Beacon Hill						719	719									0	719		<u> </u>
Kings Grant - Charlotte							-			:						0			ļ
Kings Grant - Raleigh						116	116									0	116		
Kynwood							-									0	<u>.</u>		
Nero	125						125									0	125		
Olde Point	120	3					123				1					1	124		
Queen's Harbor	114						114	1					1			2	116		
Ridges at Mt. Harbour							-	1			1				39	41	41		
Riverpointe	189	,					189	1							<u> </u>	1	190	1	
Saddlewood	18						18									o	18		
Sugar Mountain	977	1				16	994	36	3	2	19	1				61	1,055		
Wolf Laurel	54						54				2					2	56		
Willowbrook	166						166									0	166		
Multiple Dwelling Units						169	169									0	169		
SkyLeaf Building	44						44									0	44		
Uniform	6,819	15	-	1	-	1,576	8,411	382	4	5	39	4	1	-	41	476	8,887	-	-
Carolina Trace	1540	1		2			1,543	15	2	1	1					19	1,562		
Connestee Falls	984					5	989	7			1					8	997	259	

Casselberry
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Billing Analysis for End of Period Customers Consolidated at Proposed Rates

CWSNC Sewer	
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							Total								Flat	Total	Total	Availability	Availability
Service Area	5/8 R	1 R	1.5 R	2 R	3 R	Flat R	Res.	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm	Comm	EOP	Connestee	Sapphire
Sapphire Valley						850	850	18	2	4	6	1				31	881		89
Nags Head						657	657	11	7	4	7			2		31	688		
Total Uniform Sewer	9,343	16	-	3	•	3,088	12,450	433	15	14	54	5	1	2	41	565	13,015	259	89
Regalwood					-	357	357									0	357		
White Oak Estates						688	688									0	688		
White oak High School						1	1									0	1		
Child Daycare						1	1									0	1		
White Oak Planation	417						417									0	417		
College Park	49					1	50									0	50		
Kings Grant Charlotte	177	1					178									0	178		
Mt Carmel	387						387									0	387		
Fairfield Mountain	398	12					410									0	410		
Elk River	1	1					2	102	21	2						125	127	<u> </u>	
CL/MS	775	91	0	0	0		866	71	18	3	3	1				96	962	<u> </u>	
							-									0		ļ	
Total	11,547	121	-	3	-	4,136	15,807	606	54	19	57	6	1	2	41	786	16,593	259	89

Kings Grant - Charlotte was reclassified from uniform to purchased sewer

Kinks Grant - Raleigh was added to uniform rates

Fairfield Mountain treatment for commercial customers: small 7, medium 11, large 3

CWSNC Sewer

							Total								Flat	Total	Total	Availability	Availability
Service Area	5/8 R	1 R	1.5 R	2 R	3 R	Bulk S	Res.	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Apts.	Comm	EOP	Harbour	
Bradfield Farms	1,044	2		ł		156									379		1581		
Fairfield Harbour	1,829	1					1,830	13		2	1					16	1,846	876	
Total	2,873	3	0		0	156	3,032	13	0	2	1	0	0	0	379	395	3,427	876	<u> </u>

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Consumption Consolidated for End of Period Customers at Proposed Rates

CWSNC Water

OTTOTO TTUIS															
						Total								Total	
Service Area	5/8 R	3/4 R	1 R	1.5 R	2 R	Res.	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6 C	Comm.	Total
Uniform Rates	747,738,222	958,990	1,443,380	319,200	42,700	750,502,492	9,676,459	5,114,672	5,320,605	19,749,454	9,998,970	776,970	2,112,670	52,749,800	803,252,292
Clearwater	101,289,220					101,289,220	5,390							5,390	101,294,610
Treasure Cove	18,681,303		138,140		131,300	18,950,743								-	18,950,743
Forest Hills	5,650,985					5,650,985	112,510	748,500	1,186,240					2,047,250	7,698,235
Connestee Falls	36,125,003					36,125,003	335,000			1,121,954				1,456,954	37,581,957
Fairfield Sapphire Vailey	39,163,560	48,002	283,940	5,583,382	2,844,594	47,923,478	1,945,266	689,846	2,147,142	1,160,730	1,484,827			7,427,811	55,351,289
Fairfield Mt/Apple Valley	27,598,899	477,390	1,847,310			29,923,599	2,432,210	1,138,670	895,520	972,730				5,439,130	35,362,729
Total Uniform	976,247,192	1,484,382	3,712,770	5,902,582	3,018,594	990,365,520	14,506,835	7,691,688	9,549,507	23,004,868	11,483,797	776,970	2,112,670	69,126,335	1,059,491,855
Elk River	2,945	5,429,230	1,066,399			6,498,574	394,409	128,140		377,164				899,713	7,398,287
Bradfield Farms	61,620,657	6,898,799	1,032,891			69,552,347									69,552,347
Fairfield Harbor	79,353,576	36,080	103,450			79,493,106	1,343,824	37,050	493,700	713,200				2,587,774	82,080,880
Totai	140,974,233	6,934,879	1,136,341	-		149,045,453	1,343,824	37,050	493,700	713,200		-		2,587,774	151,633,227

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Consumption Consolidated for End of Period Customers at Proposed Rates

					Total								Total	Grand
Service Area	5/8 R	1 R	1.5R	2 R	Residential	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6C	Commercial	Total
Uniform Sewer	293,436,504	702,202		42,700	294,181,406	23,559,317	283,780	2,537,200	13,518,150	9,047,670	776,970		49,723,087	343,904,493
Carolina Trace	56,774,289	57,320	29,800		56,861,409	799,910	157,220	500,700	89,900				1,547,730	58,409,139
Connestee Falls	26,314,000				26,314,000	147,000	869,000						1,016,000	27,330,000
Sapphire Valley					-	1,322,216	689,846	1,174,149	974,892	1,484,827			5,645,930	5,645,930
Nags Head					-	1,690,810	4,448,850	1,661,830	5,242,500			3,792,952	16,836,942	16,836,942
Total	376,524,793	759,522	29,800	42,700	377,356,815	27,519,253	6,448,696	5,873,879	19,825,442	10,532,497	776,970	3,792,952	74,769,689	452,126,504
CL/MS	41,519,782	9,651,480			51,171,262	6,522,778	3,035,120	1,258,800	1,935,400	126,000			12,878,098	64,049,360
Mt Carmel	16,060,320				16,060,320									16,060,320
College Park	2,355,400				2,355,400								-	2,355,400
Kings Grant Charlotte	7,969,580	284,918			8,254,498									8,254,498
Whit Oak Planation	20,139,604				20,139,604								-	20,139,604
Elk River	11,563				11,563	1,373,541	240,599		238,005				1,852,145	1,863,708
Total	464,581,042	10,695,920	29,800	42,700	475,349,462	35,415,572	9,724,415	7,132,679	21,998,847	10,658,497	776,970	3,792,952	89,499,932	564,849,394
Fairfield Mountain													small	1,297,790
Fairfield Mountain													medium	2,230,760
Fairfield Mountain													large	405,620
Total														568,783,564

SEWER

					Total								Total	Grand
Service Area	5/8 R	1 R	1.5R	2 R	Residential	5/8 C	1 C	1.5 C	2 C	3 C	4 C	6C	Commercial	Total
Bradfield Farms	74,600,123	3,802,389			78,402,512									78,402,512
Fairfield Harbour	78,859,319	12,620			78,871,939	1,102,710		493,700	528,800				2,125,210	80,997,149
	153,459,442	3,815,009	-	-	157,274,451	1,102,710	-	493,700	528,800	-	-		2,125,210	159,399,661

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Public Staff's Revenue at Present Rates

CWSNC	Water
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OTTOTIO TIGIO								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Flat Residential	-		-	416	4,992	41.60	207,667	207,667
5/8" Residential Metered	747,738,222	6.40	4,785,525	14,189	170,268	22.40	3,814,003	8,599,528
3/4" Residential Metered	958,990	6.40	6,138	20	240	22.40	5,376	11,514
1" Residential Metered	1,443,380	6.40	9,238	24	288	56.01	16,131	25,369
1.5" Residential Metered	319,200	6.40	2,043	2	24	112.02	2,688	4,731
2" Residential Metered	42,700	6.40	273	1	12	179.23	2,151	2,424
Total Residential Metered	750,502,492		4,803,216	14,236	170,832		3,840,349	8,643,565
Added 694,871 gallons to 5/8" residential	metered usage for SkyL	eaf						
5/8" Commercial Metered	9,676,459	6.40	61,929	146	1,752	22.40	39,245	101,174
1" Commercial Metered	5,114,672	6.40	32,734	37	444	56.10	24,908	57,642
1.5" Commercial Metered	5,320,605	6.40	34,052	13	156	112.02	17,475	51,527
2" Commercial Metered	19,749,454	6.40	126,397	61	732	179.23	131,196	257,593
3" Commercial Metered	9,998,970	6.40	63,993	6	72	336.06	24,196	88,190
4" Commercial Metered	776,970	6.40	4,973	1	12	560.10	6,721	11,694
6" Commercial Metered	2,112,670	6.40	13,521	2	24	1,120.19	26,885	40,406
Total Commercial Metered	52,749,800		337,599	266	3,192		270,627	608,225
Total								9,459,458
Purchased Water								
Carolina Forest								
5/8" Residential Metered	5,727,411	3.19	18,270	197	2,364	22.40	52,954	71,224
1" Residential Metered	84,710	3.19	270	1	12	56.01	672	942
5/8" Commercial Metered	29,462	3.19	94	4	48	22.40	1,075	1,169

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Public Staff's Revenue at Present Rates

CWISNC Water

CWSNC Water								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
1" Commercial Metered	161,610	3.19	516	1	12	56.01	672	1,188
1.5" Commercial Metered	67,123	3.19	214	1	12	112.02	1,344	1,558
Total	6,070,316		19,364	204	2,448		56,717	76,082
High Vista Estates								
5/8" Residential Metered	10,550,670	3.25	34,290	234	2,808	22.40	62,899	97,189
1" Residential Metered	61,500	3.25	200	1	12	56.01	672	872
5/8" Commercial Metered	11,000	3.25	36	1	12	22.40	269	305
2" Commercial Metered	926,700	3.25	3,012	2	24	179.23	4,302	7,313
Total	11,549,870		37,537	238	2,856		68,142	105,679
Riverpointe								
5/8" Residential Metered	15,752,797	6.30	99,243	190	2,280	22.40	51,072	150,315
5/8" Commercial Metered	727,260	6.30	4,582	5	60	22.40	1,344	5,926
Total	16,480,057		103,824	195	2,340		52,416	156,240
Whispering Pines								
5/8" Residential Metered	85,279,733	2.23	190,174	1,519	18,228	22.40	408,307	598,481
1" Residential Metered	1,208,810	2.23	2,696	15	180	56.01	10,082	12,777
5/8" Commercial Metered	993,770	2.23	2,216	28	336	22.40	7,526	9,743
1" Commercial Metered	2,181,248	2.23	4,864	5	60	56.01	3,361	8,225
1.5" Commercial Metered	621,389	2.23	1,386	5	60	112.02	6,721	8,107

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Public Staff's Revenue at Present Rates

CWSNC Water

OVISIVO VValei								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
2" Commercial Metered	419,900	2.23	936	1	12	179.23	2,151	3,087
4" Commercial Metered	500	2.23	1	1	12	560.10	6,721	6,722
Total	90,705,350		202,273	1,574	18,888		444,869	647,142
White Oak Planation/Lee Forest/Winston Planation/Winston Point								
5/8" Residential Metered	25,363,484	3.25	82,431	507	6,084	22.40	136,282	218,713
1.5" Commercial Metered	184,500	3.25	600	1	12	112.02	1,344	1,944
Total	25,547,984		83,031	508	6,096		137,626	220,657
Woodrun								
5/8" Residential Metered	17,048,700	3.19	54,385	463	5,556	22.40	124,454	178,840
5/8" Commercial Metered	122,120	3.19	390	4	48	22.40	1,075	1,465
1" Commercial Metered	388,136	3.19	1,238	1	12	56.01	672	1,910
Total	17,558,956		56,013	468	5,616		126,202	182,215
Yorktown								
5/8" Residential Metered	3,755,800	5.01	18,817	107	1,284	22.40	28,762	47,578
Zemosa Acres								
5/8" Residential Metered	12,124,948	5.27	63,898	239	2,868	22.40	64,243	128,142
1" Residential Metered	66,819	5.27	352	2	24	56.01	1,344	1,696

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Public Staff's Revenue at Present Rates

Public Staff's Revenue at Present Rates											
CWSNC Water											
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total			
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue			
1" Commercial Metered	90,807	5.27	479	1	12	56.01	672	1,151			
Total	12,282,574		64,729	242	2,904		66,260	130,989			
Clearwater Systems											
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total			
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue			
Residential Flat	-	-	-	99	1,188	37.18	44,170	44,170			
5/8" Residential Metered	101,289,220	4.50	455,801	1,953	23,436	16.27	381,304	837,105			
5/8" Commercial Metered	5,390	4.50	24	4	48	16.27	781	805			
Total	101,294,610		455,826	2,056	24,672		426,255	882,080			
Treasure Cove											
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total			
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue			
5/8" Residential Metered	18,681,303	1.90	35,494	284	3,408	14.50	49,416	84,910			
1" Residential Metered	138,140	1.90	262	1	12	14.50	174	436			
2" Residential Metered	131,300	1.90	249	1	12	14.50	174	423			
Total	18,950,743		36,006	286	3,432		49,764	85,770			

Carolina Water Service, Inc. of North Carolina

Docket No. W-354, Sub 356

For the 12 Months Ending December 31, 2017

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Public Staff's Revenue at Present Rates

				3/140 at 1 1000111				
Forest Hill Subdivision								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	5,650,985	5.23	29,555	119	1,428	22.43	32,030	61,585
5/8" Commercial Metered	112,510	5.23	588	1	12	22.43	269	858
1" Commercial Metered	748,500	5.23	3,915	2	24	56.08	1,346	5,261
1.5" Commercial Metered	1,186,240	5.23	6,204	3	36	112.16	4,038	10,242
Total Commercial Metered	2,047,250		10,707	6	72		5,653	16,360
Total	7,698,235		40,262	125	1,500		37,683	77,945
Carolina Trace								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	58,012,009	5.06	293,541	1,573	18,876	14.05	265,208	558,749
1" Residential Metered	57,320	5.06	290	1	12	14.05	169	459
2" Residential Metered	29,800	5.06	151	2	24	14.05	337	488
Total Residential Metered	58,099,129		293,982	1,576	18,912		265,714	559,695
5/8" Commercial Metered	1,096,820	5.06	5,550	24	288	14.05	4,046	9,596
1" Commercial Metered	157,220	5.06	796	2	24	14.05	337	1,133
1.5" Commercial Metered	500,700	5.06	2,534	1	12	14.05	169	2,702
	- •							
2" Commercial Metered	2,710,830	5.06	13,717	3	36	14.05	506	14,223
2" Commercial Metered Total Commercial Metered	•	5.06	13,717 22,596	3 30	36 360	14.05	506 5,058	14,223 27,654
	2,710,830	5.06	•			14.05		

Carolina Water Service, Inc. of North Carolina

Docket No. W-354, Sub 356

For the 12 Months Ending December 31, 2017

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Public Staff's Revenue at Present Rates

Connestee	Falls
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Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	36,125,003	6.65	240,231	1,356	16,272	27.41	446,015.52	686,247
5/8" Commercial Metered	335,000	6.65	2,227.75	16	192	27.41	5,262.72	7,490
2" Commercial Metered	1,121,954	6.65	7,460.99	3	36	219.22	7,891.92	15,353
Total Commercial Metered	1,456,954		9,689	19	228		13,155	22,843
Total	37,581,957		249,920	1,375	16,500		459,170	709,090

Sapphire Valley

						_		
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	39,163,560	9.17	359,130	1,533	18,396	19.89	365,896	725,026
3/4" Residential Metered	48,002	9.17	440	4	48	1 9 .89	955	1,395
1" Residential Metered	283,940	9.17	2,604	5	60	19.89	1,193	3,797
1.5" Residential Metered	5,583,382	9.17	51,200	32	384	19.89	7,638	58,837
2" Residential Metered	2,844,594	9.17	26,085	17	204	19.89	4,058	30,142
Total Residential Metered	47,923,478		439,458	1,591	19,092		379,740	819,198
5/8" Commercial Metered	1,945,266	9.17	17,838	38	456	19.89	9,070	26,908
1" Commercial Metered	689,846	9.17	6,326	2	24	49.73	1,194	7,519
1.5" Commercial Metered	2,147,142	9.17	19,689	7	84	99.45	8,354	28,043
2" Commercial Metered	1,160,730	9.17	10,644	8	96	159.13	15,276	25,920
3" Commercial Metered	1,484,827	9.17	13,616	1	12	298.37	3,580	17,196

Casselberry
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Public Staff's Revenue at Present Rates

Sapphire Valley

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Total Commercial Metered	7,427,811		68,113	56	672		37,474	105,587
Total	55,351,289		507,571	1,647	19,764		417,214	924,785

Fairfield Mountain

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Type	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	27,598,899	7.10	195,952	1,001	12,012	19.23	230,991	426,943
3/4" Residential Metered	477,390	7.10	3,389	17	204	19.23	3,923	7,312
1" Residential Metered	1,847,310	7.10	13,116	12	144	19.23	2,769	15,885
Total Residential Metered	29,923,599		212,458	1,030	12,360		237,683	450,140
5/8" Commercial Metered	2,432,210	7.10	17,269	46	552	19.23	10,615	27,884
1" Commercial Metered	1,138,670	7.10	8,085	4	48	48.07	2,307	10,392
1.5" Commercial Metered	895,520	7.10	6,358	4	48	96.14	4,615	10,973
2" Commercial Metered	972,730	7.10	6,906	4	48	153.83	7,384	14,290
Total Commercial Metered	5,439,130		38,618	58	696		24,921	63,539
Total	35,362,729		251,075	1,088	13,056		262,604	513,679

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Public Staff's Revenue at Present Rates

Elk River

EIK River								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	2,945	4.29	13	2	24	19.52	468	481
3/4" Residential Metered	5,429,230	4.29	23,291	257	3,084	19.52	60,200	83,491
1" Residential Metered	1,066,399	4.29	4,575	31	372	48.79	18,150	22,725
Total Residential Metered	6,498,574		27,879	290	3,480		78,818	106,697
5/8" Commercial Metered	394,409	4.29	1,692	28	336	19.52	6,559	8,251
1" Commercial Metered	128,140	4.29	550	1	12	48.79	585	1,135
2" Commercial Metered	337,164	4.29	1,446	4	48	156.12	7,494	8,940
Total Commercial Metered	859,713		3,688	33	396		14,638	18,326
Total	7,358,287		31,567	323	3,876		93,456	125,023
Availability								
Linville Ridge (monthly)	-		-	63	756	12.32	9,314	9,314
Carolina Forest (semi annually)				734	1,468	24.64	36,172	36,172
Woodrun (semi annually)				693	1,386	24.64	34,151	34,151
Sapphire Valley (monthly)				748	8,976	9.07	81,412	81,412
Connestee (monthly)				524	6,288	4.79	30,120	30,120
Total Availability	-			2,762	18,874		191,168	191,168
Total Water Revenue	510,113,456		2,474,393	14,804	163,378		3,189,078	15,122,929

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Public Staff's Revenue at Proposed Rates Consolidated

CWSNC Water

CWSNC Water								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Flat Residential	-		-	515	6,180	50.17	310,051	310,051
					0.45.000	22.25	0.000.070	44405 700
5/8" Residential Metered	976,247,192	7.70	7,517,103	20,435	245,220	26.95	6,608,679	14,125,782
3/4" Residential Metered	1,484,382	7.70	11,430	41	492	26.95	13,259	24,689
1" Residential Metered	3,712,770	7.70	28,588	42	504	67.38	33,960	62,548
1.5" Residential Metered	5,902,582	7.70	45,450	34	408	134.75	54,978	100,428
2" Residential Metered	3,018,594	7.70	23,243	19	228	215.60	49,157	72,400
Total Residential Metered	990,365,520		7,625,815	20,571	246,852		6,760,033	14,385,847
5/8" Commercial Metered	14,506,835	7.70	111,703	251	3,012	26.95	81,173	192,876
1" Commercial Metered	7,691,688	7.70	59,226	45	540	67.38	36,385	95,611
1.5" Commercial Metered	9,549,507	7.70	73,531	27	324	134.75	43,659	117,190
2" Commercial Metered	23,004,868	7.70	177,137	76	912	215.60	196,627	373,765
3" Commercial Metered	11,483,797	7.70	88,425	7	84	404.25	33,957	122,382
4" Commercial Metered	776,970	7.70	5,983	1	12	673.75	8,085	14,068
6" Commercial Metered	2,112,670	7.70	16,268	2	24	1,347.50	32,340	48,608
Total Commercial Metered	69,126,335		532,273	409	4,908		432,227	964,500
Total	1,059,491,855		8,158,087	21,495	257,940		7,502,310	15,660,397

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Public Staff's Revenue at Proposed Rates Consolidated

CWSNC Water

Elk River

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	2,945	4.29	13	2	24	19.52	468	481
3/4" Residential Metered	5,429,230	4.29	23,291	257	3,084	19.52	60,200	83,491
1" Residential Metered	1,066,399	4.29	4,575	31	372	48.79	18,150	22,725
Total Residential Metered	6,498,574		27,879	290	3,480		78,818	106,697
5/8" Commercial Metered	394,409	4.29	1,692	28	336	19.52	6,559	8,251
1" Commercial Metered	128,140	4.29	550	1	12	48.79	585	1,135
2" Commercial Metered	337,164	4.29	1,446	4	48	156.12	7,494	8,940
Total Commercial Metered	859,713		3,688	33	396		14,638	18,326
Total	7,358,287		31,567	323	3,876		93,456	125,023
Availability								
Linville Ridge (monthly)	-		-	63	756	12.32	9,314	9,314
Sapphire Valley (monthly)				748	8,976	9.07	81,412	81,412
Connestee (monthly)				524	6,288	4.79	30,120	30,120
Total Uniform	1,066,850,142		8,189,654	23,153	277,836		7,716,612	15,906,266

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Public Staff's Revenue at Proposed Rates Consolidated

Purchased water

Carolina Trace

Type Usage 5/8" Residential Metered 58,012,0 1" Residential Metered 57,3 2" Residential Metered 29,8 Total Residential Metered 58,099,1 5/8" Commercial Metered 1,096,8 1" Commercial Metered 157,2 1.5" Commercial Metered 500,7	Usage	Usage	EOP	EOP	Base	Base Charge	Total
1" Residential Metered 57,3 2" Residential Metered 29,8 Total Residential Metered 58,099,1 5/8" Commercial Metered 1,096,8 1" Commercial Metered 157,2	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
2" Residential Metered 29,8 Total Residential Metered 58,099,1 5/8" Commercial Metered 1,096,8 1" Commercial Metered 157,2	09 2.21	128,207	1,573	18,876	26.95	508,708	636,915
Total Residential Metered 58,099,1 5/8" Commercial Metered 1,096,8 1" Commercial Metered 157,2	20 2.21	127	1	12	67.38	809	935
5/8" Commercial Metered 1,096,8 1" Commercial Metered 157,2	00 2.21	66	2	24	215.60	5,174	5,240
1" Commercial Metered 157,2	29	128,399	1,576	18,912		514,691	643,090
,	20 2.21	2,424	24	288	26.95	7,762	10,186
1.5" Commercial Metered 500,7	2.21	347	2	24	67.38	1,617	1,965
	700 2.21	1,107	1	12	134.75	1,617	2,724
2" Commercial Metered 2,710,8	330 2.21	5,991	3	36	215.60	7,762	13,753
Total Commercial Metered 4,465,5	570	9,869	30	360		18,757	28,626
Total 62,564,6	699	138,268	1,606	19,272		533,448	671,716
Carolina Forest							
5/8" Residential Metered 5,727,	111 3.19	18,270	197	2,364	26.95	63,710	81,980
1" Residential Metered 84,	710 3.19	270	1	12	67.38	809	1,079
5/8" Commercial Metered 29,	162 3.19	94	4	48	26.95	1,294	1,388
1" Commercial Metered 161,	3.19	516	1	12	67.38	809	1,324
1.5" Commercial Metered 67,	123 3.19	214	. 1	12	134.75	1,617	1,831
Total 6,070,	316	19,364	204	2,448		68,238	87,602
Carolina Forest (semi annually)			734	1,468	24.64	36,172	36,172
Total 6,070,	316	19,364	938	3,916		104,409	123,773

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Public Staff's Revenue at Proposed Rates Consolidated

Purchased Water								
High Vista Estates								
5/8" Residential Metered	10,550,670	3.25	34,290	234	2,808	26.95	75,676	109,965
1" Residential Metered	61,500	3.25	200	1	12	67.38	809	1,008
5/8" Commercial Metered	11,000	3.25	36	1	12	26.95	323	359
2" Commercial Metered	926,700	3.25	3,012	2	24	215.60	5,174	8,186
Total	11,549,870		37,537	238	2,856		81,982	119,519
Riverpointe								
5/8" Residential Metered	15,752,797	6.30	99,243	190	2,280	26.95	61,446	160,689
5/8" Commercial Metered	727,260	6.30	4,582	5	60	26.95	1,617	6,199
Total	16,480,057		103,824	195	2,340		63,063	166,887
Whispering Pines								
5/8" Residential Metered	85,279,733	2.23	190,174	1,519	18,228	26.95	491,245	681,418
1" Residential Metered	1,208,810	2.23	2,696	15	180	67.38	12,128	14,824
5/8" Commercial Metered	993,770	2.23	2,216	28	336	26.95	9,055	11,271
1" Commercial Metered	2,181,248	2.23	4,864	5	60	67.38	4,043	8,907
1.5" Commercial Metered	621,389	2.23	1,386	5	60	134.75	8,085	9,471
2" Commercial Metered	419,900	2.23	936	1	12	215.60	2,587	3,524
4" Commercial Metered	500	2.23	1	1	12	673.75	8,085	8,086
Total	90,705,350		202,273	1,574	18,88 8		535,228	737,501

Casselberry

Carolina Water Service, Inc. of North Carolina Exhibit No. 11 Docket No. W-354, Sub 356 Page 5 of 5 For the 12 Months Ending December 31, 2016 Public Staff's Revenue at Proposed Rates Consolidated **Purchased Water** White Oak Planation/Lee Forest/Winston Planation/Winston Point 6,084 26.95 163,964 246,395 5/8" Residential Metered 25,363,484 3.25 82,431 507 184,500 3.25 600 1 12 134.75 1,617 2,217 1.5" Commercial Metered 165,581 83,031 508 6,096 248,612 Total 25,547,984 Woodrun 5/8" Residential Metered 17,048,700 3.19 54,385 463 5,556 26.95 149,734 204,120 390 48 26.95 1,294 1,683 5/8" Commercial Metered 122,120 3.19 4 809 1" Commercial Metered 388,136 3.19 1,238 1 12 67.38 2,047 56.013 468 5,616 151,836 207,849 Total 17,558,956 24.64 34,151 34,151 Woodrun (semi annually) 693 1,386 Total 17,558,956 56,013 1,161 7,002 185,987 242,000 Yorktown 5/8" Residential Metered 3,755,800 5.01 18,817 107 1,284 26.95 34,604 53,420 Zemosa Acres 5/8" Residential Metered 63,898 239 2,868 26.95 77,293 141,191 12,124,948 5.27 352 2 67.38 1,617 1,969 1" Residential Metered 66,819 5.27 24 1 809 1" Commercial Metered 90,807 5.27 479 12 67.38 1,287 64,729 242 2,904 79,718 144,447 Total 12,282,574

8,913,511

1,313,365,748

29,723

342,394

9,500,633

18,414,144

TOTAL

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Public Staff's Revenue at Present Rates

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Residential Flat, Sewer		-	-	1,576	18,912	52.55	993,826	993,826
,								
5/8" Residential Metered (1)	293,436,504	2.90	850,966	6,819	81,828	42.40	3,469,507	4,320,473
1" Res Metered (2)	702,202	2.90	2,036	15	180	42.40	7,632	9,668
2" Res Metered	42,700	2.90	124	1	12	42.40	509	633
Total Residential	294,181,406		853,126	8,411	100,932		4,471,474	5,324,600
Commercial Flat Rate		_	-	41	492	52.55	25,855	25,855
5/8" Commercial Metered	23,559,317	2.90	68,322	382	4,584	42.40	194,362	262,684
1" Commercial Metered	283,780	2.90	823	4	48	106.00	5,088	5,911
1.5" Commercial Metered	2,537,200	2.90	7,358	5	60	211.99	12,719	20,077
2" Commercial Metered	13,518,150	2.90	39,203	39	468	339.18	158,736	197,939
3" Commercial Metered	9,047,670	2.90	26,238	4	48	635.97	30,527	56,765
4" Commercial Metered	776,970	2.90	2,253	1	12	1,059.95	12,719	14,973
Total Commercial	49,723,087		144,197	476	5,712		440,006	584,203
Regalwood	_		_	357	4,284	52.55	225,124	225,124
White Oaks	-		_	688	8,256	52.55	433,853	433,853
White Oaks School	_		_	1	12	1,630.74	19,569	19,569
Child Castle Daycare	-		-	1	12	202.85	2,434	2,434
Total	343,904,493		997,323	9,934	119,208		5,592,459	6,589,783

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356 Test Year Ending December 31, 2016 SEWER Casselberry
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Public Staff's Revenue at Present Rates

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
CL/MS								
5/8" Residential Sewer	41,519,782	6.62	274,861	775	9,300	52.06	484,158	759,019
1" Residential Sewer	- 9,651,480	6.62	63,893	91	1,092	130.15	142,124	206,017
5/8" Commercial Sewer	6,522,778	6.62	43,181	71	852	52.06	44,355	87,536
1" Commercial Sewer	3,035,120	6.62	20,092	18	216	130.15	28,112	48,205
1.5" Commercial Sewer	1,258,800	6.62	8,333	3	36	260.31	9,371	17,704
2" Commercial Sewer	1,935,400	6.62	12,812	3	36	416.49	14,994	27,806
3" Commercial Sewer	126,000	6.62	834	1	12	780.92	9,371	10,205
Total	64,049,360		424,007	962	11,544		732,485	1,156,492
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Nags Head								
Flat Rate	-		-	657	7,884	62.65	493,933	493,933
5/8" Commercial Sewer	1,690,810	9.31	15,741	11	132	18.43	2,433	18,174
1" Commercial Sewer	4,448,850	9.31	41,419	7	84	46.10	3,872	45,291
1.5" Commercial Sewer	1,661,830	9.31	15,472	4	48	92.19	4,425	19,897
2" Commercial Sewer	5,242,500	9.31	48,808	7	84	147.51	12,391	61,199

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356 Test Year Ending December 31, 2016 SEWER Casselberry
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Public Staff's Revenue at Present Rates

Nags Head

Nags Head								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
6" Commercial Sewer	3,792,952	9,31	35,312	2	24	921.93	22,126	57,439
Total	16,836,942		156,752	688	8,256		539,180	695,932
Mount Carmel	16,060,320	5.88	94,435	387	4,644	34.10	158,360	252,795
College Park								
Residential Flat, Sewer only	-	-	-	1	12	52.55	631	631
5/8" Residential Metered	2,355,400	5.70	13,426	49	588	33.92	19,945	33,371
Total	2,355,400		13,426	50	600		20,576	34,001
Kings Grant								
5/8" Residential Metered	7,969,580	3.80	30,284	177	2,124	33.92	72,046	102,330
1" Res Metered	284,918	3.80	1,083	1	12	33.92	407	1,490
Total	8,254,498		31,367	178	2,136		72,453	103,820
White Oak Plantation/Lee Forest/Winston Pointe								
5/8" Residential Metered	20,139,604	4.55	91,635	417	5,004	33.92	169,736	261,371

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Public Staff's Revenue at Present Rates

Fairfield Mountain								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Res. Collection			-	398	4,776	86.67	413,936	413,936
1" Res Collection			-	12	144	86.67	12,480	12,480
Residential Collection			-	410	4,920		426,416	426,416
Small Commercial	1,297,790	12.16	15,781.13	7	84	78.50	6,594	22,375
Medium Commercial	2,230,760	12.16	27,126.04	11	132	139.50	18,414	45,540
Large Commercial	405,620	12.16	4,932.34	3	36	219.50	7,902	12,834
Nonresidential Metered	3,934,170.00		47,839.51	21	252		32,910.00	80,750
Total	3,934,170		47,840	419	5,028		446,846	494,685
Sapphire Valley								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
3/4" Residential Metered	-			<u>-</u>	-		-	-
5/8" Residential Metered	14,849,302			652	7,824	35.52	277,908	277,908
1" Res Residential Metered	140,436			2	24	35.52	2 852	852
1.5" Residential Metered	5,583,382			128	1,536	35.52	2 54,559	54,559
2" Residential Metered	2,844,594			68	816	35.52	2 28,984	28,984
Total Residential Metered	23,417,714		-	850	10,200		362,304	362,304

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Public Staff's Revenue at Present Rates

Billing		Usage	Usage	EOP	EOP		Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Sapphire Valley								
5/8" Commercial Metered	1,322,216	7.88	10,419	18	216	15.62	3,374	13,793
1" Commercial Metered	689,846	7.88	5,436	2	24	39.04	937	6,373
1.5" Commercial Metered	1,174,149	7.88	9,252	4	48	78.08	3,748	13,000
2" Commercial Metered	974,892	7.88	7,682	6	72	124.92	8,994	16,676
3" Commercial Metered	1,484,827	7.88	11,700	1	12	234.23	2,811	14,511
Total Commercial Metered	5,645,930		44,490	31	372		19,864	64,354
Availability				89	1,068	8.28	8,843	8,843
Total	29,063,644		44,490	970	11,640		391,011	435,501
Carolina Trace								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	56,774,289	8.38	475,769	1,540	18,480	35.41	654,377	1,130,145
1" Res Residential Metered	57,320	8.38	480	1	12	35.41	425	. 905
2" Residential Metered	29,800	8.38	250	2	24	35.41	850	1,100
Total Residential Metered	56,861,409		476,499	1,543	18,516		655,652	1,132,150

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Public Staff's Revenue at Present Rates

Carolina Trace

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Commercial Metered	799,910	8.38	6,703	15	180	35.41	6,374	13,077
1" Commercial Metered	157,220	8.38	1,318	2	24	35.41	850	2,167
1.5" Commercial Metered	500,700	8.38	4,196	1	12	35.41	425	4,621
2" Commercial Metered	89,900	8.38	753	1	12	35,41	425	1,178
Total Commercial Metered	1,547,730		12,970	19	228		8,073	21,043
Total	58,409,139		489,469	1,562	18,744		663,725	1,153,194

Connestee Falls

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Flat Rate	-		-	5	60	45.11	2,707	2,707
5/8" Residential	26,314,000	6.75	177,620	984	11,808	26.86	317,163	494,782
5/8" Commercial Sewer	147,000	6.75	992	7	84	26.86	2,256	3,248
2" Commercial Sewer	869,000	6.75	5,866	1	12	214.89	2,579	8,444
Availability				259	3,108	4.69	14,577	14,577
Total	27,330,000		184,478	1,256	15,072		339,281	523,758

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Public Staff's Revenue at Present Rates

Elk River

SEWER

Billing		Usage	Usage	EOP	EOP	Base B	ase Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
3/4" Residential Metered	124	3.00	0	1	12	23.38	281	281
1" Res Residential Metered	11,439	3.00	34	1	12	58.45	701	736
Total Residential Metered	11,563		34	2	24		982	1,017
5/8" Commercial Sewer	2,945	3.00	9	2	24	23.38	561	570
3/4" Commercial Sewer	1,370,596	3.00	4,112	100	1,200	23.38	28,056	32,168
1" Commercial Sewer	240,599	3.00	722	21	252	58.45	14,729	15,451
2" Commercial Sewer	238,005	3.00	714	2	24	187.05	4,489	5,203
Total Commercial Sewer	1,852,145		5,556	125	1,500		47,836	53,392
Total	1,863,708		5,590	127	1,524		48,818	54,409
Total	592,201,278		2,580,810	16,950	203,400		9,174,930	11,755,741

¹ Increased usage by 694,871 for SkyLeaf and reduced usage by 7,969,580 for Kings Grant - Charlotte

² Reduced usage by 284,918 for Kings Grant - Charlotte

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Public Staff's Revenue at Proposed Rates Consolidated

CWSNC Sewer

	Usage	Usage	EOP	EOP	Base	Base Charge	Total
Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
	-	-	3,088	37,056	60.22	2,231,512	2,231,512
376,524,793	3.32	1,250,062	9,343	112,116	48.59	5,447,716	6,697,779
759,522	3.32	2,522	16	192	121.48	23,324	25,846
29,800	3.32	99	-	-	242.95	-	99
42,700	3.32	142	3	36	388.72	13,994	14,136
	-	-	41	492	60.22	29,628	29,628
27,519,253	3.32	91,364	433	5,196	48.59	252,474	343,838
6,448,696	3.32	21,410	15	180	121.48	21,866	43,276
5,873,879	3.32	19,501	14	168	242.95	40,816	60,317
19,825,442	3.32	65,820	54	648	388.72	251,891	317,711
10,532,497	3.32	34,968	5	60	728.85	43,731	78,699
776,970	3.32	2,580	1	12	1,214.75	14,577	17,157
3,792,952	3.32	12,593	2	24	2,429.50	58,308	70,901
452,126,504		1,501,060	13,015	156,180		8,429,837	9,930,897
-		-	357	4,284	60.22	257,982	257,982
-		-	688	8,256	60,22	497,176	497,176
-		-	1	12	1,868.71	22,425	22,425
-		-	1	12	232.45	2,789	2,789
	376,524,793 759,522 29,800 42,700 27,519,253 6,448,696 5,873,879 19,825,442 10,532,497 776,970 3,792,952 452,126,504	Usage Rate 376,524,793 3.32 759,522 3.32 29,800 3.32 42,700 3.32 27,519,253 3.32 6,448,696 3.32 5,873,879 3.32 19,825,442 3.32 10,532,497 3.32 3,792,952 3.32 452,126,504	Usage Rate Revenue 376,524,793 3.32 1,250,062 759,522 3.32 2,522 29,800 3.32 99 42,700 3.32 142 27,519,253 3.32 91,364 6,448,696 3.32 21,410 5,873,879 3.32 19,501 19,825,442 3.32 65,820 10,532,497 3.32 34,968 776,970 3.32 2,580 3,792,952 3.32 12,593 452,126,504 1,501,060	Usage Rate Revenue Customers 376,524,793 3.32 1,250,062 9,343 759,522 3.32 2,522 16 29,800 3.32 99 - 42,700 3.32 142 3 - - - 41 27,519,253 3.32 91,364 433 6,448,696 3.32 21,410 15 5,873,879 3.32 19,501 14 19,825,442 3.32 65,820 54 10,532,497 3.32 34,968 5 776,970 3.32 2,580 1 3,792,952 3.32 12,593 2 452,126,504 1,501,060 13,015 - - 688 - - 688 - - 688 - - 688	Usage Rate Revenue Customers x 12 months 376,524,793 3.32 1,250,062 9,343 112,116 759,522 3.32 2,522 16 192 29,800 3.32 99 - - 42,700 3.32 142 3 36 - - 41 492 27,519,253 3.32 91,364 433 5,196 6,448,696 3.32 21,410 15 180 5,873,879 3.32 19,501 14 168 19,825,442 3.32 65,820 54 648 10,532,497 3.32 34,968 5 60 776,970 3.32 2,580 1 12 3,792,952 3.32 12,593 2 24 452,126,504 1,501,060 13,015 156,180 - - 357 4,284 - - 688 8,256 - </td <td>Usage Rate Revenue Customers x 12 months Charge 376,524,793 3.32 1,250,062 9,343 112,116 48.59 759,522 3.32 2,522 16 192 121.48 29,800 3.32 99 - - 242.95 42,700 3.32 142 3 36 388.72 27,519,253 3.32 91,364 433 5,196 48.59 6,448,696 3.32 21,410 15 180 121.48 5,873,879 3.32 19,501 14 168 242.95 19,825,442 3.32 65,820 54 648 388.72 10,532,497 3.32 34,968 5 60 728.85 776,970 3.32 2,580 1 12 1,214.75 3,792,952 3.32 12,593 2 24 2,429.50 452,126,504 1,501,060 13,015 156,180 -</td> <td>Usage Rate Revenue Customers x 12 months Charge Revenue 376,524,793 3.32 1,250,062 9,343 112,116 48.59 5,447,716 759,522 3.32 2,522 16 192 121.48 23,324 29,800 3.32 99 - - 242.95 - 42,700 3.32 142 3 36 388.72 13,994 27,519,253 3.32 91,364 433 5,196 48.59 252,474 6,448,696 3.32 21,410 15 180 121.48 21,866 5,873,879 3.32 19,501 14 168 242.95 40,816 19,825,442 3.32 65,820 54 648 388.72 251,891 10,532,497 3.32 34,968 5 60 728.85 43,731 776,970 3.32 2,580 1 12 1,214.75 14,577 3,792,952 3.</td>	Usage Rate Revenue Customers x 12 months Charge 376,524,793 3.32 1,250,062 9,343 112,116 48.59 759,522 3.32 2,522 16 192 121.48 29,800 3.32 99 - - 242.95 42,700 3.32 142 3 36 388.72 27,519,253 3.32 91,364 433 5,196 48.59 6,448,696 3.32 21,410 15 180 121.48 5,873,879 3.32 19,501 14 168 242.95 19,825,442 3.32 65,820 54 648 388.72 10,532,497 3.32 34,968 5 60 728.85 776,970 3.32 2,580 1 12 1,214.75 3,792,952 3.32 12,593 2 24 2,429.50 452,126,504 1,501,060 13,015 156,180 -	Usage Rate Revenue Customers x 12 months Charge Revenue 376,524,793 3.32 1,250,062 9,343 112,116 48.59 5,447,716 759,522 3.32 2,522 16 192 121.48 23,324 29,800 3.32 99 - - 242.95 - 42,700 3.32 142 3 36 388.72 13,994 27,519,253 3.32 91,364 433 5,196 48.59 252,474 6,448,696 3.32 21,410 15 180 121.48 21,866 5,873,879 3.32 19,501 14 168 242.95 40,816 19,825,442 3.32 65,820 54 648 388.72 251,891 10,532,497 3.32 34,968 5 60 728.85 43,731 776,970 3.32 2,580 1 12 1,214.75 14,577 3,792,952 3.

Casselberry
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CWSNC Sewer								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Availability					·	-	•	•
Sapphire Valley				89	1,068	8.28	8,843	8,843
Connestee				259	3,108	4.69	14,577	14,577
Total	452,126,504		1,501,060	14,410	172,920		9,233,630	10,734,690
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Mount Carmel	16,060,320	5.88	94,435	387	4,644	45.64	211,952	306,387
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Billing Type	Usage	Usage Rate	Usage Revenue	EOP Customers	EOP x 12 months	Base Charge	Base Charge Revenue	Total Revenue
	Usage	-	-				•	
Туре	Usage	-	-				Revenue	
Type College Park		Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue

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CWSNC Sewer								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Kings Grant								
5/8" Residential Metered	7,969,580	3.80	30,284	177	2,124	38.87	82,560	112,844
1" Res Metered	284,918	3,80	1,083	1	12	38.87	466	1,549
Total	8,254,498		31,367	178	2,136		83,026	114,393
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
White Oak Plantation/Lee Forest/Winston Pointe 5/8" Residential Metered	20,139,604	4.55	91,635	417	5,004	38.87	194,505	286,141
Fairfield Mountain								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Res. Collection/Treatm.			-	398	4,776	108,37	7 517,575	5 17,575
1" Res Collection/Treatm.			-	12	144	108.3	7 15,605	15,605
Residential Collection			-	410	4,920		533,180	533,180

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CWSNC Sewer Fairfield Mountain

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Small Commercial	1,297,790	13.93	18,078.21	7	84	78.50	6,594	24,672
Medium Commercial	2,230,760	13.93	31,074.49	11	132	139.50	18,414	49,488
Large Commercial	405,620	13.93	5,650.29	3	36	219.50	7,902	13,552
Nonresidential Metered	3,934,170.00		54,802.99	21	252		32,910.00	87,713
Total	3,934,170		54,803	419	5,028		550,485	605,288
CL/MS								
5/8" Residential Sewer	41,519,782	6.62	274,861	775	9,300	52.06	484,158	759,019
1" Residential Sewer	9,651,480	6.62	63,893	91	1,092	130.15	142,124	206,017
5/8" Commercial Sewer	6,522,778	6.62	43,181	71	852	52.06	44,355	87,536
1" Commercial Sewer	3,035,120	6.62	20,092	18	216	130.15	28,112	48,205
1.5" Commercial Sewer	1,258,800	6.62	8,333	3	36	260.31	9,371	17,704
2" Commercial Sewer	1,935,400	6.62	12,812	3	36	416.49	14,994	27,806
3" Commercial Sewer	126,000	6.62	834	1	12	780.92	9,371	10,205
Total	64,049,360		424,007	962	11,544		732,485	1,156,492

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Public Staff's Revenue at Proposed Rates Consolidated

CWSNC Sewer

Elk River

Billing		Usage	Usage	EOP	EOP	Base B	ase Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	124	3.00	0	1	12	23.38	281	281
1" Res Residential Metered	11,439	3.00	34	1	12	58.45	701	736
Total Residential Metered	11,563		34	2	24		982	1,017
5/8" Commercial Metered	1,373,541	3.00	4,121	102	1,224	23.38	28,617	32,738
1" Commercial Metered	240,599	3.00	722	21	252	58.45	14,729	15,451
2" Commercial Metered	238,005	3.00	714	2	24	187.05	4,489	5,203
Total Commercial Metered	1,852,145		5,556	125	1,500		47,836	53,392
Total	1,863,708		5,590	127	1,524		48,818	54,409
Total	568,783,564		2,216,323	16,950	203,400		11,078,480	13,294,803

Carolina Water Service, Inc. of North Carolina

Docket No. W-354, Sub 356

For the 12 Months Ending December 31, 2016

Water

Fairfield Harbor

Casselberry
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Public Staff's Revenue at Present Rates

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	79,353,576	2.69	213,461	1,840	22,080	9.73	214,838	428,300
3/4" Residential Metered	36,080	2.69	97	2	24	9.73	234	331
1" Residential Metered	103,450	2.69	278	2	24	9.73	234	512
Total Residential Metered	79,493,106		213,836	1,844	22,128		215,305	429,142
5/8" Commercial Metered	1,343,824	2.69	3,615	22	264	9.73	2,569	6,184
1" Commercial Metered	37,050	2.69	100	1	12	24.29	291	391
1.5" Commercial Metered	493,700	2.69	1,328	2	24	48.58	1,166	2,494
2" Commercial Metered	713,200	2.69	1,919	3	36	77.74	2,799	4,717
Total Commercial Metered	2,587,774		6,961	28	336		6,825	13,786
Availability				874	10,488	3.28	34,401	34,401
Total	82,080,880		220,798	2,746	32,952		256,531	477,328
Bradfield Farms								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	61,620,657	1.95	120,160	952	11,424	8.29	94,705	214,865
3/4" Residential Metered	6,898,799	1.95	13,453	94	1,128	8.29	9,351	22,804
1" Residential Metered	1,032,891	1.95	2,014	5	60	8.29	497	2,512
Total Residential Metered	69,552,347		135,627	1,051	12,612		104,553	240,181
Total	151,633,227		356,42 5	3,797	45,564		361,084	717,509

Casselberry
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Public Staff's Revenue at Proposed Rates Consolidated

WATER
Fairfield Harbour and Bradfield Farms Consolidated

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	147,909,112	3.55	525,077	2,888	34,656	12.84	444,983	970,060
1" Residential Metered	1,136,341	3.55	4,034	7	84	32.10	2,696	6,730
Total Residential Metered	149,045,453		529,111	2,895	34,740		447,679	976,791
5/8" Commercial Metered	1,343,824	3.55	4,771	22	264	12.84	3,390	8,160
1" Commercial Metered	37,050	3.55	132	1	12	32.10	385	517
1.5" Commercial Metered	493,700	3.55	1,753	2	24	64.20	1,541	3,293
2" Commercial Metered	713,200	3.55	2,532	3	36	102.72	3,698	6,230
Total Commercial Metered	2,587,774		9,187	28	336		9,014	18,200
Availability				874	10,488	3.28	34,401	34,401
Total	151,633,227		538,298	3,797	45,564		491,094	1,029,392

Carolina Water Service, Inc. of North Carolina

Docket No. W-354, Sub 356

For the 12 Months Ending December 31, 2017

Casselberry
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Public Staff's Revenue at Present Rates

		۲	ublic Starrs Rev	enue at Presen	Raies			
Sewer								
Fairfield Harbor								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	-		-	1,829	21,948	37.89	831,610	831,610
1" Residential Metered	-		-	1	12	37.89	455	455
Total Residential Metered	-		• -	1,830	21,960		832,064	832,064
5/8" Commercial Metered	1,102,710	5.63	6,208	13	156	10.17	1,587	7,795
1.5" Commercial Metered	493,700	5.63	2,780	2	24	50.85	1,220	4,000
2" Commercial Metered	528,800	5.63	2,977	1	12	81.36	976	3,953
Total Commercial Metered	2,125,210		11,965	16	192		3,783	15,748
Availability				876	10,488	2.64	27,688	27,688
Total	2,125,210		11,965	2,722	32,640		863,536	875,501
Bradfield Farms								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered				1,044	12,528	26.56	332,744	332,744
1" Residential Metered				2	24	26.56	637	637
Bulk Sewer				156	1,872	25.20	47,174	47,174
Apartments				379	4,548	25.20	114,610	114,610
Total Residential Metered				1,581	18,972		495,165	495,165
Total	2,125,210		11,965	4,303	51,612		1,358,701	1,370,666

Casselberry
Exhibit No. 17
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Sewer
Fairfield Harbour and Bradfield Farms Consolidated

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered			-	2,873	34,476	42.83	1,476,607	1,476,607
1" Residential Metered			-	3	36	42.83	1,542	1,542
Bulk Sewer				156	1,872	41.83	78,306	78,306
Apartments				379	4,548	41.83	190,243	190,243
Total Residential Metered	-		-	3,411	40,932		1,746,698	1,746,698
5/8" Commercial Metered	1,102,710	6.36	7,013	13	156	11.50	1,794	8,807
1.5" Commercial Metered	493,700	6.36	3,140	2	24	57.50	1,380	4,520
2" Commercial Metered	528,800	6.36	3,363	1	12	92.00	1,104	4,467
Total Commercial Metered	2,125,210		13,516	16	192		4,278	17,794
Total	2,125,210		13,516	3,427	41,124		1,750,976	1,764,492
Availability				876	10,512	2.64	27,752	27,752
Total	2,125,210		13,516	4,303	51,636		1,778,727	1,792,244

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356 Test Year Ending December 31, 2016 Casselberry
Exhibit No. 18
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Purchased Water Adjustment for Water Loss

					•			Usage	
	Total	Total						Rate	
	Gallons	Gallons		20%	Sold Plus	Loss	Reduction	per	Adjusted
Service Area	Purchased	Sold	Loss	Loss	20% loss	at 20%	In gallons	1000 gal.	Expense
Carolina Forest	15,028,400	6,070,316	8,958,084.0	59.61	7,587,895	1,517,579	7,440,505.00	3.19	23,735
High Vista Estates	18,118,500	11,549,870	6,568,630.0	36.25	14,437,338	2,887,468	3,681,162.50	3.25	11,964
Riverpointe	17,744,494	16,480,057	1,264,437.0	7.13					
Whispering Pines	105,467,347	90,712,979	14,754,368.0	13.99					
Woodrun	23,371,800	17,558,956	5,812,844.0	24.87	21,948,695	4,389,739	1,423,105.00	3.19	4,540
Zemosa Acres	15,469,500	12,282,575	3,186,925.0	20.60	15,353,219	3,070,644	116,281.25	5.27	613
Yorktown	4,100,212	3,755,800	344,412.0	8.40					
White Oak	23,760,030	25,363,484							
Carolina Trace	66,564,699	62,564,699	4,000,000.0	6.01					
					Te	otal Loss			40,851

Carolina Water Service, Inc. of North Carolina Docket No. W-354, Sub 356 Test Year Ending December 31, 2016 Casselberry
Exhibit No. 19
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Purchased Water Summary

		Company							
		Invoices &	P	djustment				Company's	
		Public	Outside	for	Public Staff	Company		Adjustment	Public Staff
		Staff	Test year	New	Corrected	Ledger	Correction	for	Company
Acct #	Service Area	Invoices	Removed	Rates	Invoices	Total	to ledger	Dec Accrual	Total
104	The Point	236,477.73	11,922.65		224,555.08	222,482.63		(13,995.10)	236,477.73
114	Zemosa	84,331.10			84,331.10	94,889.20	(13,458.11)	2,900.00	84,331:09
125	Willow Brook	3,029.04			3,029.04	3,029.04		-	3,029.04
132	2 Vander	55,033.81	7,405.66		47,628.15	52,361.04	(5,936.30)	8,609.07	55,033.81
133	White oak	54,555.08		3,081.00	57,636.08	55,055.08		500.00	54,555.08
137	Bent Creek	46,047.13			46,047.13	45,947.15		(100.00)	46,047.15
141	Whispering P	257,874.38			257,874.38	280,640.77	(8,666.39)	(14,100.00)	257,874.38
152	2 C. Forest	47,903.09			47,903.09	48,630.59	(4,027.50)	3,300.00	47,903.09
153	3 Woodrun	74,533.54			74,533.54	75,366.04	(9,432.50)	8,600.00	74,533.54
154	Kings Grant	4,309.56			4,309.56	4,309.56		-	4,309.56
170	Yorktown	6,117.64	1,515.27		4,602.37	3,317.65		2,800.00	6,117.65
189	Danby	147,875.16			147,875.16	150,609.22	(12,334.06)	9,600.00	147,875.16
214	High Vista	57,016.95		1,428.50	58,445.45	55,316.95		1,700.00	57,016.95
235	Riverpoint	112,866.43			112,866.43	118,166.43		(5,300.00)	112,866.43
100	Carolina Trace	155,800.51			155,800.51	157,500.51		(1,700.00)	155,800.51
		1,343,771.15	20,843.58	4,509.50	1,327,437.07	1,367,621.86			1,343,771.17
			Water loss		(40,851.00)				
		7	Total Purchased Water	r	1,286,586.07				

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Sludge Hauling

CWSNC

			Sub 336	Sub 344		Sub 356			
	Bus.		2011/2012	2014	2015	2016	2014-16		Adjusted
_	Unit	Service Area	Amount	Amount	Amount	Amount	Average		average
_	182101	Kynwood Abington	15,056	15,712	24,436	14,436	18,195		18,195
	102	Brandybay Wine/Spooners Cr.	10,558	13,500	14,580	9,030	12,370		12,370
	107	Sugar Mountain	14,455	14,560	10,640	15,120	13,440		13,440
	110	Saddlewood	1,120	1,996	432	756	1,061		1,061
	115	Ashely Hills	19,273	44,013	43,446	49,313	45,591		45,591
	117	Corolla Light	18,525	13,500	17,450	7,390	12,780		12,780
	120	Hestron Park	6,570	3,780	4,320	3,090	3,730		3,730
	123	Hounds Ear	2,240	-	-	2,800	933		933
	126	Willowbrook	5,736	5,856	9,150	9,516	8,174	1	9,333
	130	Wolf Laurel	720	920	3,920	3,000	2,613		2,613
	136	Kings Grant - Raleigh	4,312	2,186	5,876	1,830	3,297		3,297
	138	Bent Creek	9,470	12,950	12,630	30,410	18,663	2	12,790
	149	Bear Paw Resort		-	-	200	67		67
	155	Kings Grant Charlotte	9,572	-	-	370	123		123
	160	College Park	2,135	1,890	•	-	630		630
•	173	Monteray Shores	27,900	35,815	32,850	28,650	32,438		32,438
	176	Olde Point	1,033	1,575	1,960	875	1,470		1,470
	178	Independent/Hemby	17,935	11,687	22,045	22,121	18,618		18,618
	190	Danby	41,116	25,797	17,819	31,190	24,935		24,935
	197	Queens harbor	2,120	16,153	4,050	6,048	8,750		8,750
	209	Nags head	22,000	29,800	40,065	46,120	38,662	3	43,093
	217	Regalwood	20,391	9,720	10,260	9,180	9,720		9,720
	218	White Oak Estates	15,450	21,450	22,680	23,250	22,460		22,460
	233	Belvedere Middle Point	13,170	9,981	18,130	25,166	17,759	4	25,166
	236	Riverpointe	4,345	9,652	3,348	5,805	6,268		6,268

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Sludge Hauling

	•	Sub 336	Sub 344		Sub 356			
Bus.		2011/2012	2014	2015	2016	2014-16		Adjusted
Unit	Service Area	Amount	Amount	Amount	Amount	Average		average
241	Carolina Pines	3,922	11,340	12,960	12,960	12,420		12,420
243	Nero	6,055	6,605	5,124	3,680	5,136		5,136
2247	Ridges at Mountain Harbor (new)		-	-	555	185		185
	Total	295,179	322,453	340,186	364,877	340,490		347,614
181101	Elk River	n/a	5,315	10,080	10,018	8,471	5	10,049
	Sapphire valley	n/a	10,099	4,665	5,829	6,864		6,864
183109	Fairfield Mountain	n/a	425	-	-	142		142
187101	Carolina Trace	n/a	47,239	38,641	44,796	43,559		43,559
188101	Transylvania	n/a	14,960	15,050	19,600	16,537		16,537
	Total		78,038	68,436	80,243	75,572		77,150
	Total CWSNC		400,491	408,622	445,120	416,063		424,765

Bradfield F	Farms/Fairfield Harbor						
		Sub 336	Sub 344		Sub 356		
Bus.		2011/2012	2014	2015	2016	2014-16	Adjusted
Unit	Service Area	Amount	Amount	Amount	Amount	Average	average
191101 Bra	adfield Farms	n/a	29,014	33,122	31,037	31,058	31,058
183106 Fa	irfield harbor	n/a	19,844	24,664	25,067	23,192	23,192
То	otal BF/FH		48,858	57,786	56,104	54,249	54,249

- 1 New treatment process two year average
- 2 Wasted sludge do to repairs

- 3 New treatment process two year average
- New treatment process beginning in October 2015 4
- 5 Two year average

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Public Staff's Recommended Rates

CWSNC Water

OTTOTO TTULO								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Flat Residential	-		-	515	6,180	47.45	293,241	293,241
(based on 3,000 gallons)								
5/8" Residential Metered	957,565,889	7.70	7,373,257	20,151	241,812	24.44	5,909,885	13,283,143
3/4" Residential Metered	1,484,382	7.70	11,430	41	492	24.44	12,024	23,454
1" Residential Metered	3,574,630	7.70	27,525	41	492	61.10	30,061	57,586
1.5" Residential Metered	5,902,582	7.70	45,450	34	408	122.20	49,858	95,307
2" Residential Metered	2,887,294	7.70	22,232	18	216	195.52	42,232	64,464
Total Residential Metered	971,414,777		7,479,894	20,285	243,420		6,044,061	13,523,955
5/8" Commercial Metered	14,506,835	7.70	111,703	251	3,012	24.44	73,613	185,316
1" Commercial Metered	7,691,688	7.70	59,226	45	540	61.10	32,994	92,220
1.5" Commercial Metered	9,549,507	7.70	73,531	27	324	122.20	39,593	113,124
2" Commercial Metered	23,004,868	7.70	177,137	76	912	195.52	178,314	355,452
3" Commercial Metered	11,483,797	7.70	88,425	7	84	366.60	30,794	119,220
4" Commercial Metered	776,970	7.70	5,983	1	12	611.00	7,332	13,315
6" Commercial Metered	2,112,670	7.70	16,268	2	24	1,222.00	29,328	45,596
Total Commercial Metered	69,126,335		532,273	409	4,908		391,969	924,241
Total	1,040,541,112		8,012,167	21,209	254,508		6,729,271	14,741,437

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Public Staff's Recommended Rates

CWSNC Water

Treasure Cove

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	18,681,303	3.36	62,769	284	3,408	11.44	38,988	101,757
1" Residential Metered	138,140	3.36	464	1	12	28.60	343	807
2" Residential Metered	131,300	3.36	441	1	12	91.52	1,098	1,539
Total	18,950,743		63,674	286	3,432		40,429	104,103

Elk River

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	2,945	4.29	13	2	24	19.52	468	481
3/4" Residential Metered	5,429,230	4.29	23,291	257	3,084	19.52	60,200	83,491
1" Residential Metered	1,066,399	4.29	4,575	31	372	48.79	18,150	22,725
Total Residential Metered	6,498,574		27,879	290	3,480		78,818	106,697
5/8" Commercial Metered	394,409	4.29	1,692	28	336	19.52	6,559	8,251
1" Commercial Metered	128,140	4.29	550	1	12	48.79	585	1,135
2" Commercial Metered	337,164	4.29	1,446	4	48	156.12	7,494	8,940
Total Commercial Metered	859,713		3,688	33	396		14,638	18,326
Total	7,358,287		31,567	323	3,876		93,456	125,023

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Public Staff's Recommended Rates

Billing Type	Usage	Usage Rate	Usage Revenue	EOP Customers	EOP x 12 months	Base Charge	Base Charge Revenue	Total Revenue
Availability								
Linville Ridge (monthly)	-		-	63	756	12.35	9,337	9,337
Sapphire Valley (monthly)				748	8,976	9.10	81,682	81,682
Connestee (monthly)				524	6,288	4.80	30,182	30,182
Total Uniform	1,066,850,142		8,107,408	23,153	277,836		6,984,356	15,091,764
Purchased water								
Carolina Trace								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	58,012,009	2.21	128,207	1,573	18,876	24.44	461,329	589,536
1" Residential Metered	57,320	2.21	127	1	12	61.10	733	860
2" Residential Metered	29,800	2.21	66	2	24	195.52	4,692	4,758
Total Residential Metered	58,099,129		128,399	1,576	18,912		466,755	595,154
5/8" Commercial Metered	1,096,820	2.21	2,424	24	288	24.44	7,039	9,463
1" Commercial Metered	157,220	2.21	347	2	24	61.10	1,466	1,814
1.5" Commercial Metered	500,700	2.21	1,107	1	12	122.20	1,466	2,573
2" Commercial Metered	2,710,830	2.21	5,991	3	36	195.52	7,039	13,030
Total Commercial Metered	4,465,570		9,869	30	360		17,010	26,879
Total	62,564,699		138,268	1,606	19,272		483,765	622,033

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Public Staff's Recommended Rates

Purchased water

Carolina Forest

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	5,727,411	3.19	18,270	197	2,364	24.44	57,776	76,047
1" Residential Metered	84,710	3.19	270	1	12	61.10	733	1,003
5/8" Commercial Metered	29,462	3.19	94	4	48	24.44	1,173	1,267
1" Commercial Metered	161,610	3.19	516	1	12	61.10	733	1,249
1.5" Commercial Metered	67,123	3.19	214	1	12	122.20	1,466	1,681
Total	6,070,316		19,364	204	2,448		61,882	81,246
Carolina Forest (semi annually)				734	1,468	24.65	36,186	36,186
Total	6,070,316		19,364	938	3,916		98,068	117,433
High Vista Estates								
5/8" Residential Metered	10,550,670	3.25	34,290	234	2,808	24.44	68,628	102,917
1" Residential Metered	61,500	3.25	200	1	12	61.10	733	933
5/8" Commercial Metered	11,000	3.25	36	1	12	24.44	293	329
2" Commercial Metered	926,700	3.25	3,012	2	24	195.52	4,692	7,704
Total	11,549,870		37,537	238	2,856		74,346	111,884
Riverpointe								
5/8" Residential Metered	15,752,797	6.30	99,243	190	2,280	24.44	55,723	154,966
5/8" Commercial Metered	727,260	6.30	4,582	5	60	24.44	1,466	6,048
Total	16,480,057		103,824	195	2,340		57,190	161,014

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Public Staff's Recommended Rates

		Fublic	Jian's Neconn	Heliueu Nates	•			
Purchased Water								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Whispering Pines								
5/8" Residential Metered	85,279,733	2.23	190,174	1,519	18,228	24.44	445,492	635,666
1" Residential Metered	1,208,810	2.23	2,696	15	180	61.10	10,998	13,694
5/8" Commercial Metered	993,770	2.23	2,216	28	336	24.44	8,212	10,428
1" Commercial Metered	2,181,248	2.23	4,864	5	60	61.10	3,666	8,530
1.5" Commercial Metered	621,389	2.23	1,386	5	60	122.20	7,332	8,718
2" Commercial Metered	419,900	2.23	936	1	12	195.52	2,346	3,283
4" Commercial Metered	500	2.23	1	1	12	611.00	7,332	7,333
Total	90,705,350		202,273	1,574	18,888		485,378	687,651
White Oak Planation/Lee Forest/Winston Planation/Winston Point								
5/8" Residential Metered	25,363,484	2.28	57,829	507	6,084	24.44	148,693	206,522
1.5" Commercial Metered	184,500	2.28	421	1	12	122.20	1,466	1,887
Total	25,547,984		58,249	508	6,096		150,159	208,409
Woodrun								
5/8" Residential Metered	17,048,700	3.19	54,385	463	5,556	24.44	135,789	190,174
5/8" Commercial Metered	122,120	3.19	390	4	48	24.44	1,173	1,563
1" Commercial Metered	388,136	3.19	1,238	1	12	61.10	733	1,971
Total	17,558,956		56,013	468	5,616		137,695	193,708
Woodrun (semi annually)				693	1,386	24.65	34,165	34,165
Total	17,558,956		56,013	1,161	7,002		171,860	227,873

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Public Staff's Recommended Rates

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total	
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue	
Yorktown									
5/8" Residential Metered	3,755,800	5.01	18,817	107	1,284	24.44	31,381	50,198	
Zemosa Acres									
5/8" Residential Metered	12,124,948	5.27	63,898	239	2,868	24.44	70,094	133,992	
1" Residential Metered	66,819	5.27	352	2	24	61.10	1,466	1,819	
1" Commercial Metered	9 0 ,807	5.27	479	1	12	61.10	733	1,212	
Total ·	12,282,574		64,729	242	2,904		72,294	137,023	
TOTAL	1,313,365,748		8,806,483	29,722	342,394		8,608,798	17,415,281	

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Public Staff's Recommended Rates

CWSNC Sewer

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Residential Flat, Sewer		-	-	3,088	37,056	56.57	2,096,258	2,096,258
(based on 3,417 gallons)								
5/8" Residential Metered	376,524,793	3.11	1,170,992	9,343	112,116	45.97	5,153,973	6,324,965
1" Res Metered	759,522	3.11	2,362	16	192	45.97	8,826	11,188
1.5" Res Metered	29,800	3.11	93	-	-	45.97	-	93
2" Res Metered	42,700	3.11	133	3	36	45.97	1,655	1,788
	~							
Commercial Flat Rate		-	-	41	492	56.57	27,832	27,832
5/8" Commercial Metered	27,519,253	3.11	85,585	433	5,196	45.97	238,860	324,445
1" Commercial Metered	6,448,696	3.11	20,055	15	180	114.93	20,687	40,743
1.5" Commercial Metered	5,873,879	3.11	18,268	14	168	229.85	38,615	56,883
2" Commercial Metered	19,825,442	3.11	61,657	54	648	367.76	238,308	299,966
3" Commercial Metered	10,532,497	3.11	32,756	5	60	689.55	41,373	74,129
4" Commercial Metered	776,970	3.11	2,416	1	12	1,149.25	13,791	16,207
6" Commercial Metered	3,792,952	3.11	11,796	2	24	2,298.50	55,164	66,960
Total	452,126,504		1,406,113	13,015	156,180		7,935,343	9,341,456
Regalwood	-		-	357	4,284	56.57	242,346	242,346
White Oaks	-		-	688	8,256	56.57	467,042	467,042
White Oaks School	-		-	1	12	1,770.10	21,241	21,241
Child Castle Daycare	-		-	1	12	219.90	2,639	2,639

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Public Staff's Recommended Rates

CWSNC Sewer								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Availability								
Sapphire Valley				89	1,068	8.30	8,864	8,864
Connestee				259	3,108	4.70	14,608	14,608
Total	452,126,504		1,406,113	14,410	172,920		8,692,083	10,098,196
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Mount Carmel								
wount Carnier	16,060,320	5.88	94,435	387	4,644	43.52	202,107	296,542
Billing	16,060,320	5,88 Usage	94,435 Usage	387 EOP	4,644 EOP	43.52 Base	202,107 Base Charge	296,542 Total
	16,060,320 Usage		·		·		224,000	·
Billing		Usage	Usage	ЕОР	EOP	Base	Base Charge	Total
Billing Type		Usage	Usage	ЕОР	EOP	Base	Base Charge Revenue	Total
Billing Type College Park	Usage	Usage Rate	Usage Revenue	EOP Customers	EOP x 12 months	Base Charge	Base Charge Revenue 679	Total Revenue

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Public Staff's Recommended Rates

CWSNC Sewer								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Kings Grant								
5/8" Residential Metered	7,969,580	3.80	30,284	177	2,124	36.75	78,057	108,341
1" Res Metered	284,918	3.80	1,083	1	12	36.75	i 441	1,524
Total	8,254,498		31,367	178	2,136		78,498	109,865
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
White Oak Plantation/Lee Forest/Winston Pointe 5/8" Residential Metered	20,139,604	4.82	97,073	417	5,004	36.75	i 183,897	280,970
Fairfield Mountain								
Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Res. Collection/Treatm.			-	398	4,776	106,2	5 507,450	507,450
1" Res Collection/Treatm.			-	12	144	106.2	5 15,300	15,300
Residential Collection			-	410	4,920		522,750	522,750

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Public Staff's Recommended Rates

CWSNC Sewer

Fairfield Mountain

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
Small Commercial	1,297,790	13.93	18,078.21	7	84	78.50	6,594	24,672
Medium Commercial	2,230,760	13.93	31,074.49	11	132	139.50	18,414	49,488
Large Commercial	405,620	13.93	5,650.29	. 3	36	219.50	7,902	13,552
Nonresidential Metered	3,934,170.00		54,802.99	21	252		32,910.00	87,713
Total	3,934,170		54,803	419	5,028		540,360	595,163
CL/MS								
5/8" Residential Sewer	41,519,782	6.62	274,861	775	9,300	52.06	484,158	759,019
1" Residential Sewer	9,651,480	6.62	63,893	91	1,092	130.15	142,124	206,017
5/8" Commercial Sewer	6,522,778	6.62	43,181	71	852	52.06	44,355	87,536
1" Commercial Sewer	3,035,120	6.62	20,092	18	216	130.15	28,112	48,205
1.5" Commercial Sewer	1,258,800	6.62	8,333	3	36	260.31	9,371	17,704
2" Commercial Sewer	1,935,400	6.62	12,812	3	36	416.49	14,994	27,806
3" Commercial Sewer	126,000	6.62	834	1	12	780.92	9,371	10,205
Total	64,049,360		424,007	962	11,544		732,485	1,156,492

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Public Staff's Recommended Rates

CWSNC Sewer

Elk River

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	124	3.00	0	1	12	23,38	281	281
1" Res Residential Metered	11,439	3.00	34	1	12	58.45	701	736
Total Residential Metered	11,563		34	2	2 4		982	1,017
5/8" Commercial Metered	1,373,541	3.00	4,121	102	1,224	23,38	2 8,617	3 2, 738
1" Commercial Metered	240,599	3.00	722	21	252	58.45	14,729	15,451
2" Commercial Metered	238,005	3.00	714	2	24	187.05	4,489	5,203
Total Commercial Metered	1,85 2 ,145		5,556	1 2 5	1,500		47,836	53,392
Total	1,863,708		5,590	127	1,5 2 4		48,818	54,409
Total	568,783,564		2,126,814	16,950	203,400		10,500,535	12,627,350

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Public Staff's Recommended Rates

WATER
Fairfield Harbour and Bradfield Farms Consolidated

Billing		Usage	Usage	EOP	EOP	Base	Base Charge	Total
Туре	Usage	Rate	Revenue	Customers	x 12 months	Charge	Revenue	Revenue
5/8" Residential Metered	147,909,112	3.36	496,975	2,888	34,656	11.44	396,465	893,439
1" Residential Metered	1,136,341	3.36	3,818	7	84	28.60	2,402	6,221
Total Residential Metered	149,045,453		500,793	2,895	34,740		398,867	899,660
5/8" Commercial Metered	1,343,824	3.36	4,515	22	264	11.44	3,020	7,535
1" Commercial Metered	37,050	3.36	124	1	12	28.60	343	468
1.5" Commercial Metered	493,700	3.36	1,659	2	24	57.20	1,373	3,032
2" Commercial Metered	713,200	3.36	2,396	3	36	91.52	3,295	5,691
Total Commercial Metered	2,587,774		8,695	28	336		8,031	16,726
Availability				874	10,488	3.28	34,401	34,401
Total	151,633,227		509,488	3,797	45,564		441,299	950,786

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Public Staff's Recommended Rates

Sewer
Fairfield Harbour and Bradfield Farms Consolidated

Billing Type	Usage	Usage Rate	Usage Revenue	EOP Customers	EOP x 12 months	Base Charge	Base Charge Revenue	Total Revenue
5/8" Residential Metered			_	2,873	34,476	41.40	1,427,306	1,427,306
1" Residential Metered			_	3	36	41.40	1,490	1,490
Bulk Sewer				156	1,872	40.40	75,629	75,629
Apartments				379	4,548	40.40	183,739	183,739
Total Residential Metered	-		-	3,411	40,932		1,688,165	1,688,165
5/8" Commercial Metered	1,102,710	6.20	6,837	13	156	11.12	1,735	8,572
1.5" Commercial Metered	493,700	6.20	3,061	2	24	55.60	1,334	4,395
2" Commercial Metered	528,800	6.20	3,279	1	12	88.96	1,068	4,346
Total Commercial Metered	2,125,210		13,176	16	192		4,137	17,313
Total	2,125,210		13,176	3,427	41,124		1,692,301	1,705,478
Availability				876	10,512	2.65	27,857	27,857
Total	2,125,210		13,176	4,303	51,636		1,720,158	1,733,335

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COMPANY'S PRESENT AND PROPOSED RATES AND THE PUBLIC STAFF'S RECOMMENDED WATER AND SEWER RATES

WATER RATES AND CHARGES

UNIFORM WATER SERVICE:

MONTHLY METER	ED SERVICE: (Residential and Comm	ercia	1)			D.	
Desa Festivias Ole		<u>E</u> >	disting	<u>Pr</u>	oposed		blicStaffs commend
Base Facilities Cn	arges (zero usage) < 1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	\$ \$ \$	22.40 56.01 112.02 179.23 336.06 560.10 ,120.19	\$ \$ \$	26.95 67.38 134.75 215.60 404.25 673.75 ,347.50	\$ \$ \$ \$ \$ \$	24.44 61.10 122.20 195.52 366.60 611.00 ,222.00
AVERAGE RESIDE	ENTIAL BILL (based on 3,980 gallons) \$	47.87	\$	57.60	\$	55.0 9
USAGE CHARGE: A. Treated \	/Vater/1,000 gallons	\$	6.40	\$	7.70	\$	7.70
	d Water/1,000 gallons vine Bay Irrigation Water)	\$	4.11	\$	4.11	\$	4.11
C. Purchase Service Area Carolina Forest High Vista Est. Riverpointe Whispering Pines White Oak Plt./ Lee Forest Winston Plt. Winston Point Woodrun Yorktown Zemosa Acres	Bulk Provider Montgomery County City of Hendersonville Charlotte Water Town of Southern Pines Johnston County Johnston County Johnston County Montgomery County City of Winston-Salem City of Concord		sage Charge/ 000 gallons 3.19 3.25 6.30 2.23 3.25 3.25 3.25 3.19 5.01 5.27		3.19 3.25 6.30 2.23 3.25 3.25 3.25 3.25 3.25 3.19 5.01 5.27		agedrarge 000galons 3.19 3.25 6.30 2.23 2.28 2.28 2.28 3.19 5.01 5.27
MONTHLY FLAT R (per residence or si	ATE SERVICE: ngle family equivalent)	\$		\$	50.17	\$	
MONTHLY FLAT R	ATE SERVICE:	\$	41.60			\$	47.45
AVAILABILITY RAT							
	property owners in Carolina Forest division in Montgomery County <u>ES (monthly):</u>	\$	24.64	\$	24.64	\$	24.65
Applicable only to Subdivision	property owners in Linville Ridge	\$	12.32	\$	12.32	\$	12.35

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FORMER CLEARWATER SYSTEMS:

MONITHI	v	METEDED	SERVICE:
NONTHE	ΥI	MEIEKED	SERVICE:

Date Tablita Chance (and used)		<u>Existing</u>	Proposed	PublicStaff's Recommend
Base Facilities Charges (zero usage)				
	5/8" meter	\$ 16.27		
	1" meter	\$ 40.67		
	1-1/2" meter	\$ 81.34		
	2" meter	\$ 130.14		
	3" meter	\$ 244.07		
	4" meter	\$ 406.76		
	6" meter	\$ 813.37		
Usage Charge, per 1,000 gallons		\$ 4.50		

The Public Staff recommends CWSNC's Uniform Rates as shown below.

MONTHLY METERED SERVICE	 (Posidential and Commercial) 	CWSNC's Uniform Rates

·				_				DICS	
		<u>E</u> >	<u>kisting</u>	<u> </u>	rop	<u>osed</u>	Re	comn	nend
Base Facilities Charges (zero usage)				_			_		
	< 1" meter			\$	-	26.95	\$	24	
	1" meter			\$		37.38	\$	61	
	1-1/2" meter			\$		34.75	-	122	
	2" meter			\$	2	15.60	\$	195	
	3" meter			\$	4(04.25	\$	366	.60
	4" meter			\$	67	73.75	\$	611	.00
	6" meter			\$	1,34	47.50	\$1	,222	.00
Usage Charge, per 1,000 gallons					•				
Treated water				\$		7.70	\$	7	.70
Trouted Water				•					
AVERAGE RESIDENTIAL BILL (based	on 3,980 gallons)	\$	34.18	\$		57.60	\$	5 5	.09
MONTHLY FLAT RATE SERVICE:		\$		\$	į	50.17	\$		
(per residence or single family equivalen	rt)	۳		•			•		
(per recidence or emgic tamm) - quirement									
MONTHLY FLAT RATE SERVICE:		\$	41.60				\$	47.	45
		_		_			•	400	00
Management Fee, Covington Crossing (Phases 1 & 2)	\$	100.00	\$	10	00.00	\$	100.	00
,									
THE ACURE COVE DECICTED DI ACE	COTATEC MODEL		110						
TREASURE COVE, REGISTER PLACE		<u> </u>	<u>LL3</u>						
AND GLEN ARBOR/NORTH BEND SU	BDIVISION						ъ.	1-E-O	· _ # _
		_		_				ıblicS	
		<u>E></u>	<u>kisting</u>	<u> </u>	rop	<u>osed</u>	Re	<u>comn</u>	nend
Monthly Metered Water Rates:									
Base Charge, zero usage		\$	14.50						
Usage charge, per 1,000 gallo	ons	\$	1.90						

The Public Staff recommends the same rates as the recommended rates for Bradfield Farms and Fairfield Harbor as shown below.

MONTHLY METERED SERVICE: (Residential and Commercial)

		Existing	Proposed		olicStaff's commend
Base Facilities Charges (zero usage)				•	44.44
	< 1" meter		\$ 26.95	\$	11.44
	1" meter		\$ 67.38	\$	28.60
	1-1/2" meter		\$ 134.75	\$	57.20
	2" meter		\$ 215.60	\$	91.52
	3" meter		\$ 404.25	\$	
	4" meter		\$ 673.75	\$	
	6" meter		\$1,347.50	\$	
Usage Charge, per 1,000 gallons			\$ 7.70	\$	3.36
AVERAGE RESIDENTIAL BILL (base	d on 3,980 gallons)	\$ 22.06	\$ 57.60	\$	24.81

Usage charge, per 1,000 gallons

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FOREST HILLS SUBDIVISION

Monthly Metered Water Service:				PublicStaff's
Deep Facilities Observes (many many)		Existing	Proposed	Recommend
Base Facilities Charges (zero usage)				
Residential		\$ 22.43		
Commercial and Other:				
	5/8" meter	\$ 22.43		
	3/4"meter	\$ 33.66		
	1" meter	\$ 56.08		
	1-1/2" meter	\$ 112.16		
	2" meter	\$ 179.46		
	3" meter	\$ 336.49		
	4" meter	\$ 560.81		
	6" meter	\$1,121.63		

5.23

The Public Staff recommends CWSNC's Uniform Rates as shown below.

MONTHLY METERED SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

		Existing	Proposed	PublicStaff's Recommend
Base Facilities Charges (zero usage)	< 1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter	\$ \$ \$ \$ \$	\$ 26.95 \$ 67.38 \$ 134.75 \$ 215.60 \$ 404.25 \$ 673.75	\$ 24.44 \$ 61.10 \$ 122.20 \$ 195.52 \$ 366.60 \$ 611.00
	6" meter	\$	\$1,347.50	\$1,222.00
Usage Charge, per 1,000 gallons Treated water			\$ 7.70	\$ 7.70
AVERAGE RESIDENTIAL BILL (based	l on 3,980 gallons)	\$ 43.25	\$ 57.60	\$ 55.09

FAIRFIRLD MOUNTAIN/APPLE VALLEY (a.k.a. RUMBLING BALD) SERVICE AREA, HIGHLAND SHORES SUBDIVISION AND LAUREL MOUNTAIN ESTATES

Monthly N	Metered Water Service:					PublicStaff's
Base Facilities Charges (zero usage)			Existing		Proposed	Recommend
Base i c	ioninos chargos (25.5 acago)					
	Residential		\$	19.23		
	Commercial and Other:					
		5/8" meter	\$	19.23		
		3/4"meter	\$	28.84		
		1" meter	\$	48.07		
		1-1/2" meter	\$	96.14		
		2" meter	\$	153.83		
		3" meter	\$	288.42		
		4" meter	Š	480.70		
		6" meter	\$	961.40		
	Usage charge, per 1,000 galle	ons	\$	7.10		

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The Public Staff recommends CWSNC's Uniform Rates as shown below.

MONTHLY METERED SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

		<u>Existing</u>	P	<u>roposed</u>		ublicStaffs commend
Base Facilities Charges (zero usage)						
	< 1" meter	\$	\$	26.95	\$	24.44
	1" meter	\$	\$	67.38	\$	61.10
	1-1/2" meter	\$	\$	134.75	\$	122.20
	2" meter	\$	\$	215.60	\$	195.52
	3" meter	\$	\$	404.25	\$	366.60
	4" meter	\$	Š	673.75	\$	611.00
	6" meter	\$	\$	1,347.50	\$	1,222.00
Usage Charge, per 1,000 gallons Treated water			•	7.70	e	7.70
realed water			\$	7.70	\$	7.70
AVERAGE RESIDENTIAL BILL (based	d on 3,980 gallons)	\$ 47.49	\$	57.60	\$	55.09

FAIRFIELD SAPPHIRE VALLEY SERVICE AREA

Monthly Metered Water Servi	ce:
-----------------------------	-----

Base Facilities Charges (zero usage)		<u>E</u>	kisting	Proposed	PublicStaff's Recommend
Residential		\$	19.89		
Commercial and Other:	5/8" meter 3/4"meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter	***	19.89 29.84 49.73 99.45 159.13 298.37 497.20 994.41		
Usage charge, per 1,000 ga	lions	\$	9.17		

The Public Staff recommends CWSNC's Uniform Rates as shown below.

MONTHLY METERED SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

		Esi	otin a	D-	anacad		blicStaffs
Base Facilities Charges (zero usage)		<u>⊏XI</u>	<u>sting</u>	PI	oposed	<u>rx</u>	commend
	< 1" meter	\$		\$	26.95	\$	24.44
	1" meter	\$		\$	67.38	\$	61.10
	1-1/2" meter	\$		\$	134.75	\$	122.20
	2" meter	\$		\$	215.60	\$	195.52
	3" meter	\$		\$	404.25	\$	366.60
	4" meter	\$. \$	673.75	\$	611.00
	6" meter	\$		\$1	,347.50	\$1	,222.00
Usage Charge, per 1,000 gallons							
Treated water				\$	7.70	\$	7.70
Monthly Water Availability Rate:		\$	9.07	\$	9.07	\$	9.10
AVERAGE RESIDENTIAL BILL (based	on 3,980 gallons)	\$	56.39	\$	57.60	\$	55.09

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CAROLINA TRACE DEVELOPMENT

Monthly Metered Water Rates:

	Existing	Proposed	PublicStaffs <u>Recommend</u>
Base Charge, zero usage	\$ 14.05 (min.)	·	
Usage charge, per 1,000 gallons	\$ 5.06		

The Public Staff recommends CWSNC's Uniform Rates for Purchased Water System as shown below.

MONTHLY METERED SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

Base Facilities Charges (zero usage)

			PublicStaff's
	<u>Existing</u>	<u>Proposed</u>	Recommend
< 1" meter		\$ 26.95	\$ 24.44
1" meter		\$ 67.38	\$ 61.10
1-1/2" meter		\$ 134.75	\$ 122.20
2" meter		\$ 215.60	\$ 195.52
3" meter		\$ 404.25	\$ 366.60
4" meter		\$ 673.75	\$ 611.00
6" meter		\$1,347.50	\$1,222.00
Purchased Water for resale, per 1,000 gallons		\$ 2.21	\$ 2.21
AVERAGE RESIDENTIAL BILL (based on 3,980 gallons)	\$ 34.19	\$ 35.75	\$ 33.24

CONNESTEE FALLS SUBDIVISION

Monthly Metered Water Service:

Base Facilities Charges (zero	o usage)	<u>E</u> :	xisting	Proposed	PublicStaffs Recommend
Date I domines on a geo (Est	5/8 x 3/4" meter	\$	27.41		
	1" meter	\$	68.51		
	2" meter	\$	219.22		
Usage charge, per 1,000 gal	lons	\$	6.65		

The Public Staff recommends CWSNC's Uniform Rates as shown below.

MONTHLY METERED SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

		<u>Exi</u>	sting	<u>Pr</u>	opose	<u>d</u>		blicStaffs commend	
Base Facilities Charges (zero usage)									
	< 1" meter	\$		\$	26.9	5	\$	24.44	
	1" meter	\$		\$	67.3	8	\$	61.10	
	1-1/2" meter	\$		\$	134.7	5	\$	122.20	
	2" meter	\$		\$	215.6	0	\$	195.52	
	3" meter	\$		\$	404.2	5	Ś	366.60	
	4" meter	\$		Ś	673.7	5	\$	611.00	
	6" meter	\$		\$1	,347.5	0	\$1	,222.00	
Usage Charge, per 1,000 gallons									
Treated water				\$	7.7	0	\$	7.70	
AVERAGE RESIDENTIAL BILL (based	on 3,980 gallons)	\$	53.88	\$	57.6	0	\$	55.09	

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SEWER RATES AND CHARGES

UNIFORM SEWER SERVCIE

The Public Staff recommends the same base facility charge for all residential customers regardless as to the size of the meter as shown below.

Base Facilities Charges (zero usage)		<u>Existing</u>	<u>Proposed</u>	Public Staff Recommend
Residential		\$ 42.40		\$ 45.97
Commercial and Other:	<1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	\$ 42.40 \$ 106.00 \$ 211.99 \$ 339.18 \$ 635.97 \$1,059.95 \$2,119.90		\$ 45.97 \$ 114.93 \$ 229.85 \$ 367.76 \$ 689.55 \$ 1,149.25 \$ 2,298.50
Usage charge, per 1,000 gal	ons	\$ 2.90		\$ 3.11
MONTHLY METERED SEWER SERVI Base Facilities Charges (zero usage)	<u>CE</u> : (Residential an	nd Commercial) Existing	Proposed	PublicStaffs Recommend
,	< 1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	\$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 48.59 \$ 121.48 \$ 242.95 \$ 388.72 \$ 728.85 \$1,214.75 \$2,429.50	
Usage Charge, per 1,000 gallons		\$	\$ 3.32	
AVERAGE RESIDENTIAL BILL (based	d on 3,417 gallons)	\$ 52.31	\$ 59.93	\$ 56.60
MONTHLY METERED PURCHASED S Collection charge (Residential and C	Commercial/SFE)	\$ 33.92	\$ 38.87	\$ 36.75
Usage charge, per 1,000 gallons based on the service Area Bulk Provider White Oak Plt./Lee	sed on purchased wa	/ater	Usage Charge/ 1,000 gallons	Usagedharge /1,000gallons
Forest/Winston Pt. Kings Grant College Park Two Rivers Utilities Town of Dallas	;	\$ 4.55 \$ 3.80 \$ 5.70	\$ 4.55 \$ 3.80 \$ 5.70	\$ 4.82 \$ 3.80 \$ 5.70
MONTHLY FLAT RATE SERVICE:		\$ 52.55	\$ 60.22	\$ 56.57

Multi-residential customers who are served by a Master meter shall be charged the flat rate per unit

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MT CARMEL SUBDIVISION SERVICE AREAS:

	Existing	Proposed	PublicStaffs Recommend
Monthly Base Facility Charge	\$ 6.77	\$ 6.77	\$ 6.77
Usage charge/1,000 gallons (based on metered water usage)	\$ 5.88	\$ 5.88	\$ 5.88
Monthly Collection Charge (Residential and Commercial)	\$ 27.33	\$ 38.87	\$ 36.75

REGALWOOD AND WHITE OAK ESTATES SUBDIVISION SERVICE AREAS:

A. Monthly Flat Rate Sewer Service:

	Existing	Proposed	Public Staffs Recommend		
Residential Service	\$ 52.55	\$ 60.22	\$ 56.57		
White Oak High School Child Castle Daycare Pantry	\$1,630.74 \$ 202.85 \$ 107.74	\$1,868.71 \$ 232.45 \$ 123.46	\$1,770.10 \$ 219.90 \$ 116.80		

THE VILLAGE OF NAGS HEAD

MONTHLY METERED SERVICE: (Commercial)

					PublicStaffs
		<u>E</u> 2	<u>kisting</u>	<u>Proposed</u>	Recommend
Base Facilities Charges (based on m	eter size with zero i	usage))		
	<1" meter	\$	18.43		\$
	1" meter	\$	46.10		\$
	1-1/2" meter	\$	92.19		\$
	2" meter	\$	147.51		\$
	3" meter	\$	276.58		\$
	4" meter	\$	460.96		\$
	6" meter	\$	921.93		\$
Usage Charge, per 1,000 gallons		\$	9.31		\$
Minimum Monthly Charge		\$	62.65		
Monthly Flat Rate Sewer Service		\$	62.65		

The Public Staff recommends CWSNC's Uniform Rates with the same base facility charge for all residential customers regardless as to the size of the meter as shown below. Residential customers in Nags Head are monthly flat rate so the metered rate does not apply.

MONTHLY METERED SEWER SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

Base Facilities Charges (zero usage)	Existing	<u>Proposed</u>	Public Staff Recommend
Residential		\$		\$ 45.97
Commercial and Other:	<1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	***	\$ 48.59 \$ 121.48 \$ 242.95 \$ 388.72 \$ 728.85 \$ 1,214.75 \$ 2,429.50	\$ 45.97 \$ 114.93 \$ 229.85 \$ 367.76 \$ 689.55 \$ 1,149.25 \$ 2,298.50
Usage charge, per 1,000 ga	allons	\$	\$ 3.32	\$ 3.11

Service (per single family equivalent)

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MONTHLY FLAT RATE SERVICE: Multi-residential customers who are served by a		Proposed \$ 60.22	Public Staff Recommend \$ 56.57
Master meter shall be charged the flat rate per u	ınır		
RESIDENTIAL BILL FLAT RATE	\$ 62.65	\$ 60.22	\$ 56.57
FAIRFIELD MOUNTAIN/APPLE VALLEY (a.k.a. RUMB SUBDIVISION AND LAUREL MOUNTAIN ESTATES	LING BALD) SERV	ICE AREA, HIGHLA	ND SHORES
Public Staff recommends CWSNC's Uniform Rates for	purchased sewer	system as shown be	elow.
Monthly Sewer Rates:			Public Staff
Residential	Existing	Proposed	Recommend
Collection charge/dwelling unit Treatment charge/dwelling unit Total monthly flat rate/dwelling unit	\$ 17.17 \$ 69.50 \$ 86.67	\$ 38.87 \$ 69.50 \$ 108.37	\$ 36.75 \$ 69.50 \$ 106.25
Commercial and Other			
Minimum monthly collection and treatment charge	\$ 86.67	\$ 108.37	\$ 106.25
Monthly collection and treatment charge for Customers who do not take water service (per single family equivalent)	\$ 86.67	\$ 108.37	\$ 106.25
Treatment charge per dwelling unit			
Small (less than 2,500 gallons per month) Medium (2,500 to 10,000 gallons per month) Large (over 10,000 gallons per month)	\$ 78.50 \$ 139.50 \$ 219.50	\$ 78.50 \$ 139.50 \$ 219.50	\$ 78.50 \$ 139.50 \$ 219.50
Collection Charge, per 1,000 gallons	\$ 12.16	\$ 13.93	\$ 13.93
RESIDENTIAL BILL	\$ 86.67	\$ 108.37	\$ 106.25
FAIRFIELD SAPPHIRE VALLEY SERVICE AREA			
Monthly Sewer Rates:			
Residential	Existing	<u>Proposed</u>	PublicStaffs <u>Recommend</u>
Flat Rate, per dwelling unit	\$ 35.52		
Monthly Sewer Rates: Commercial and Other			
Minimum rate	\$ 35.52		
Customers who do not take water	\$ 35.52		

\$ 35.52

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Base Facilities Charges (based on meter size with zero usage))

		<u>Existing</u>		<u>Proposed</u>	PublicStaffs Recommend
	5/8" meter	\$	15.62		
	3/4" meter	\$	15.62		
	1" meter	\$	39.04		
	1-1/2" meter	\$	78.08		
	2" meter	\$	124.92		
	3" meter	\$	234.23		
	4" meter	\$	390,39		
	6" meter	\$	780.78		
Usage charge, per 1,000 gallo	ns	\$	7.88		

The Public Staff recommends CWSNC's Uniform Rates with the same base facility charge for all residential customers regardless as to the size of the meter as shown below. Residential customers in Sapphire Valley are monthly flat rate so the metered rate does not apply at this time.

MONTHLY METERED SEWER SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

Base Facilities	Charges (zero usage)		<u>Ex</u>	disting	<u>Pr</u>	oposed		blicStaff commend
Reside	ential		\$				\$	45.97
Comm	ercial and Other:	<1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter 6" meter	***			48.59 121.48 242.95 388.72 728.85 1,214.75 2,429.50	\$ \$ \$ \$	45.97 114.93 229.85 367.76 689.55 1,149.25 2,298.50
Usage	charge, per 1,000 gall		\$		\$	3.32	\$	3.11
Multi-re	RATE SERVICE: esidential customers w meter shall be charge		\$ it		\$	60.22	\$	56.57
RESIDENTIAL B	ILL FLAT RATE		\$	35.52	\$	60.22	\$	56.57
CAROLINA TRA	CE DEVELOPMENT						_	
Monthly Metered Sewer Rates:		<u>Ex</u>	isting	Pro	oposed		blicStaffs commend	
Base C	charge, zero usage		\$	35.41 (min.)				
Usage	charge, per 1,000 gall	ons	\$	8.38				
		•						

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The Public Staff recommends CWSNC's Uniform Rates with the same base facility charge for all residential customers regardless as to the size of the meter as shown below.

MONTHLY METERED SEWER SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

Base Facilities Charges (zero usage)		<u>Ex</u>	<u>kisting</u>	<u>Pr</u>	oposed		blic Staff commend
Residential		\$				\$	45.97
Commercial and Other:	<1" meter 1" meter 1-1/2" meter 2" meter 3" meter 4" meter	****			48.59 121.48 242.95 388.72 728.85 1,214.75	\$ \$ \$	45.97 114.93 229.85 367.76 689.55 1,149.25
6" meter Usage charge, per 1,000 gallons		\$ \$		\$ 2 \$	2,429.50 3.32	\$ 2 \$	2,298.50 3.11
AVERAGE RESIDENTIAL BILL (based on 3,417 gallons)		\$	64.04	\$	59.93	\$	56.60
CONNESTEE FALLS SUBDIVISION				D.			blicStaffs
Monthly Flat Rate		\$	<u>kisting</u> 45.11	<u>P1</u>	<u>oposed</u>	Re	commend
Monthly Metered Service							
Base Facilities Charges (zero usage)	5/8 x 3/4" meter 1" meter 2" meter	\$ \$	26.86 67.15 214.89				
Usage charge, per 1,000 gallons		\$	6.75				

The Public Staff recommends CWSNC's Uniform Rates with the same base facility charge for all residential customers regardless as to the size of the meter as shown below.

MONTHLY METERED SEWER SERVICE: (Residential and Commercial) CWSNC's Uniform Rates

Base Facilities Charges (zero usage)	Existing	<u>Proposed</u>	Public Staff Recommend
Residential		\$		\$ 45.97
Commercial and Other:				
	<1" meter	\$	\$ 48.59	\$ 45.97
	1" meter	\$	\$ 121.48	\$ 114.93
	1-1/2" meter	\$	\$ 242.95	\$ 229.85
	2" meter	\$ \$ \$	\$ 388.72	\$ 367.76
	3" meter	\$	\$ 728.85	\$ 689.55
	4" meter	\$	\$ 1,214.75	\$ 1,149.25
	6" meter	\$	\$ 2,429.50	\$ 2,298.50
Usage charge, per 1,000 ga	illons	\$	\$ 3.32	\$ 3.11
MONTHLY FLAT RATE SERVICE:		\$	\$ 60.22	\$ 56.57
Multi-residential customers Master meter shall be charg				
AVERAGE RESIDENTIAL BILL (base	ed on 3,417 gallons	s) \$ 49.92	\$ 59.93	\$ 56.60

Casselberry Exhibit No. 26 Page 1 of 3

COMPANY'S PRESENT AND PROPOSED RATES AND THE PUBLIC STAFF'S RECOMMENDED WATER AND SEWER RATES FOR FAIRFIELD HARBOUR SERVICE AREA AND BRADFIELD FARMS SUBDIVISION

WATER RATES AND CHARGES

FAIRFIELD HARBOUR SERVICE AREA

MONTHLY N	METERED WATER SERVICE:	

Residential \$ 9.73	licStaffs ommend
5/8" meter \$ 9.73 3/4" meter \$ 14.60 1" meter \$ 24.29 1-1/2" meter \$ 48.58 2" meter \$ 77.74 3" meter \$ 145.99 4" meter \$ 243.31 6" meter \$ 486.62	
Usage Charge, per 1,000 gallons \$ 2.69	
Monthly Water Availability Rate \$ 3.28	

BRADFIELD FARMS SUBDIVISION

MONTHLY METERED WATER SERVICE:

	Existing	Proposed	Public Statts Recommend
Base charge, zero usage Usage charge, per 1,000 gallons	\$ 8.29 \$ 1.95		
Osage charge, per 1,000 gallons	φ 1.95		

FAIFIELD HARBOR AND BRADFIELD FARMS NEW RATE DIVISION

MONTHLY METERED SERVICE: (Residential and Commercial)

Base Facilities Charges (zero usage)		<u>Ex</u>	isting	<u>Pr</u>	<u>oposed</u>		blicStaff's commend
base Facilities Charges (zero usage)	< 1" meter	\$		\$	12.84	\$	11.44
	1" meter	\$		\$	32.10	\$	28.60
	1-1/2" meter	\$		\$	64.20	\$	57.20
	2" meter	\$		\$	102.72	\$	91.52
Usage Charge, per 1,000 gallons							
Treated Water		\$		\$	3.55	\$	3.36
AVERAGE RESIDENTIAL BILL (base	d on 3,980 gallons)						
Fairfield Harbor Bradfield Farms		\$ \$	20.44 16.05	\$ \$	26.97 26.97	\$ \$	24.81 24.81

Monthly Bulk Flat Rate, per customer

Casselberry Exhibit No. 26 Page 2 of 3

SEWER RATES AND CHARGES

FAIRFIELD HARBOUR SERVICE AREA

TAINTILLD HAN	BOOK SERVICE ARE	<u>~</u>				
Monthly Sewer R	ates:					PublicStaff's
			<u>Ex</u>	risting	<u>Proposed</u>	Recommend
Reside	ential					
	Flat Rate, per dwel	ling unit	\$	37.89		
Comm	ercial and Other					
	Monthly Flat Rate (Customers who do	o not take water)	\$	37.89		
	Monthly Metered R	ates (based on met	er siz	e with zero	usage)	
J	Charge, per 1,000 gall		***	10.17 15.26 25.43 50.85 81.36 152.56 254.26 508.52 5.63		
Monthly	y Water Availability Ra	te	\$	2.64		
BRADFIELD FAF	RMS SUBDIVISISION		<u>Ex</u>	isting	Proposed	PublicStaffs <u>Recommend</u>
Reside	ntial Customer Monthly	y Flat Rate	\$	26.56		
	I WOODLAND FARMS y Bulk Flat Rate, per cu		\$	25.20		
	T THE GREEN APART	MENTS	•	05.00		

FAIFIELD HARBOR AND BRADFIELD FARMS NEW RATE DIVISION

\$ 25.20

MONTHLY SEWER RATES: PublicStaff's Existing Proposed Recommend Residential Flat Rate, per dwelling unit Bulk Flat Rate, per REU 42.83 \$41.40 41.83 \$40.40 Commercial and Other Monthly Flat Rate (Customers who do not take water) \$ 42.83 \$41.40 Monthly Metered Rates (based on meter size with zero usage) <1" meter \$ \$ 11.50 \$11.12 1-1/2" meter \$55.60 57.50 2" meter \$ 92.00 \$88.96

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Usag	ge Charge, per 1,000 gallons	<u>Ex</u> \$	isting	<u>Pro</u> \$	oposed 6.36		olicStaffs commend 6.20
Fairfield Harbo Mont	ur thly Water Availability Rate	\$	2.64	\$	2.64	\$	2.65
RESIDENTIAL	BILL FLAT RATE						
Brad	ield Harbor Ifield Farms Sewer (Bradfield Area)	\$ \$ \$	37.89 26.56 25.20	\$ \$ \$	42.83 42.83 41.83	\$ \$ \$	41.40 41.40 40.40

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AVERAGE MONTHLY BILLS AT COMPANY'S PRESENT AND PROPOSED RATES AND PUBLIC STAFF'S RECOMMENDED RATES

WATER OPERATIONS

Service Area Uniform Flat Uniform Metered Clearwater Treasure Cove Forest Hill Fairfield Mountain	CWSNC <u>Present</u> \$41.60 \$47.87 \$34.18 \$22.06 \$43.25 \$47.49	CWSNC <u>Proposed</u> \$50.17 \$57.60 \$57.60 \$57.60 \$57.60 \$57.60	Percent Increase 20.60% 20.33% 68.52% 161.11% 33.18% 21.29%	Public Staff Recommended \$47.45 \$55.09 \$55.09 \$24.81 \$55.09 \$55.09	Percent Increase 14.06 % 15.08 % 61.18 % 12.47 % 27.38 % 16.00 %
Sapphire Valley	\$56.39	\$57.60	2.15%	\$55.09	(2.31)%
Connestee Falls	\$53.88	\$57.60	6.90%	\$55.09	2.25 %
Carolina Trace	\$34.19	\$35.75	4.56%	\$33.24	(2.78)%
Carolina Forest	\$35.10	\$39.65	12.96%	\$37.14	5.81 %
High Vista Estates	\$35.34	\$39.89	12.87%	\$37.38	5.77 %
Riverpointe	\$47.47	\$52.02	9.59%	\$49.51	4.30 %
Whispering Pines	\$31.28	\$35.83	14.55%	\$33.32	6.52 %
White Oak/Lee F. Winston Plantation	\$35.34	\$39.89	12.87%	\$33,51	(5.18)%
	\$35.34	\$39.89	12.87%	\$33.51	(5.18)%
Winston Pointe	\$35.34	\$39.89	12.87%	\$33.51	(5.18)%
Woodrun	\$35.10	\$39.65	12.96%	\$37.14	5.81 %
Yorktown	\$42.34	\$46.89	10.75%	\$44.38	4.82 %
Zemosa Acres	\$43.37	\$47.92	10.49%	\$45.41	4.70 %
Fairfield Harbour	\$20.44	\$26.97	31.95%	\$24.81	21.38 %
Bradfield Farms	\$16.05	\$26.97	68.04%	\$24.81	54.58 %

Average bill calculated using the average consumption of 3,980 gallons, based on all residential customers with 5/8 inch meter.

SEWER OPERATIONS

Service Area Uniform Flat Sapphire Valley Nags Head Connestee Falls Uniform Rate White Oak Plt./ Lee Forest/ Winston Pt. Kings Grant College Park Mt. Carmel Fairfield Mountain Carolina Trace	CWSNC Present \$52.55 \$35.52 \$62.65 \$49.92 \$52.31 \$49.47 \$46.90 \$53.40 \$54.19 \$86.67 \$64.04	CWSNC Proposed \$ 60.22 \$ 60.22 \$ 60.22 \$ 59.93 \$ 59.93 \$ 54.42 \$ 51.85 \$ 58.35 \$ 65.73 \$ 108.37 \$ 59.93	Percent Increase 14.60% 69.54% (3.88%) 20.05% 14.57% 10.01% 10.55% 9.27% 21.30% 25.04% (6.42)	Public Staff Recommended \$ 56.57 \$ 56.57 \$ 56.57 \$ 56.60 \$ 53.22 \$ 49.73 \$ 56.23 \$ 63.61 \$106.25 \$ 56.60	Percent Increase 7.65 % 59.26 % (9.70)% 13.38 % 8.20 % 7.58 % 6.03 % 5.30% 17.38 % 22.59 % (11.62)%
Fairfield Harbour	\$37.89	\$ 42.83	13.04%	\$ 41.40	9.26 %
Bradfield Farms	\$26.56	\$ 42.83	61.26%	\$ 41.40	55.87 %
Bulk Sewer	\$25.20	\$ 41.83	65.99%	\$ 40.40	60.32 %

Average bill calculated using the average consumption of 3,417 gallons, based on all residential customers with 5/8 inch meter.