





CAPE FEAR PUBLIC UTILITY AUTHORITY ADOPTED BUDGET FISCAL YEAR 2018 - 2019

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Wesley P. Corder, Vice-Chair
Jennifer Adams, Secretary
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Skip Watkins, New Hanover County Commissioner
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> 235 Government Center Drive Wilmington, NC 28403 www.cfpua.org

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Committees: Executive & Long

Range Planning



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Vice-Chair

Jointly appointed by City of Wilmington and New Hanover County
Seated in 2017
Term ends 2020
Committee: Executive & Finance



Jennifer Adams
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Committee: Executive & Finance



Kevin O'Grady
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Term ends 2019
Committees: Human Resources & Communications





Larry Sneeden
Member

Appointed by New Hanover County
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Term ends in 2020
Committees: Executive, Finance,
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William Norris
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Communications



Deans Hackney

Member

Appointed by City of Wilmington

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Term ends 2019

Committees: Long Range Planning & Human Resources



Pat Kusek
Commissioner
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Seated in 2011
Term ends in 2018
Committees: Finance



Skip Watkins
Commissioner
Appointed by New Hanover County
Seated in 2017
Term ends in 2018
Committees: Finance



Cindee Wolf
Member
Appointed by City of Wilmington
Seated in 2011
Term ends in 2020
Committees: Long Range Planning,
Human Resources, Communications



Donna S. Pope Clerk to the Board

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GOVERNMENT FINANCE OFFICERS ASSOCIATION

Distinguished Budget Presentation Award

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Cape Fear Public Utility Authority North Carolina

For the Fiscal Year Beginning

July 1, 2017

Christopher P. Morrill

Executive Director

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BUDGET GUIDE

This document contains Cape Fear Public Utility Authority's Fiscal Year 2018-2019 Budget, which is the financial plan that will guide the Authority's operations over the year.

The budget document is divided into the following sections:

Introduction – This section begins with the Executive Director's Budget Message which explains the major goals and challenges, major changes in financial policies, important features of the activities incorporated into the budget, and the reasons for changes in appropriation levels. Next, information is presented to help stakeholders understand some of the environmental, organizational, and policy factors that drive the development of the Authority's budget including the Strategic Plan, organizational profile and structure, financial structure, a description of the Authority's budget process, budget calendar, and key financial policies.

Operating Budget – The Operating Budget section provides a detailed picture of the Authority's FY 2018-2019 annual operating budget including information on total budgeted expenditures, revenues, and net position. This section also presents information for each of the Authority's departments including departmental descriptions and performance goals/metrics.

Capital Budget – This section details the Authority's FY 2018-2019 capital budget and the approach to funding the capital program. Detailed project descriptions are included for each of the projects appropriated as part of the FY 2018-2019 Capital Improvements Program, including an infrastructure risk assessment before and after project completion to demonstrate the value of each project from a risk mitigation perspective.

Long-term Financial Management — Because the Authority's operating and capital activities are budgeted separately using differing perspectives (single fiscal year versus project life), it can be difficult for stakeholders to determine Authority-wide financial operations from budgetary information alone. Projecting financial results and monitoring key financial metrics over multiple years allows the Authority to take proactive measures to ensure the continuance of high-quality water and wastewater services. This section provides a big picture, entity-wide, multi-year view of the Authority's finances including operating and capital expenditures, debt, liquidity, and rate affordability.

Supplemental & Statistical Information — This section provides stakeholders with statistical and background information that may serve as context to supplement the budgetary and financial information contained in this document.

Members of the Authority Board Cape Fear Public Utility Authority 235 Government Center Drive Wilmington, NC 28403

Dear Members of the Authority Board:

I am pleased to present the Authority's Fiscal Year 2018-2019 budget. This budget was prepared in accordance with the Local Government Budget and Fiscal Control Act, and is designed to provide services meeting or exceeding all applicable state regulations and rate covenants. This budget contains the necessary projects and operational funding to ensure that we continue providing the highest quality water and wastewater services to our customers at the lowest practical cost.

As we enter our tenth year of serving over 200,000 people in the City of Wilmington and New Hanover County, we continue to successfully operate under our guiding principles of Stewardship, Sustainability, and Service. These tenets provide a strong base upon which we have built award-winning services. At the same time, they drive us to continually increase the value of the services we offer.

Given the complex issues facing water and sewer providers, I am confident this budget continues the Authority in the right direction. It addresses a broad spectrum of important topics such as customer service, public health, environmental stewardship, staff development, risk management and emergency preparedness to name a few. With the Authority's human and financial resources focused in the right areas, we will remain ready to meet the needs of our community.

The following factors influenced the decisions made in developing the budgets for FY 18-19:

- The rehabilitation and replacement of gaining infrastructure We are pleased to report that deliberate investment in infrastructure and operations is consistently paying dividends, improving our resiliency and enhancing our services while reducing risk. The primary components of this budget include projects identified in the ten-year Capital Improvements Program (CIP), forecasted water and wastewater demands, projected operating costs required to sustain service levels, and debt obligations. With continued input from you and key stakeholders, our budgets will accurately assess and meet community needs, both now and into the future.
- Recently adopted financial policies that limit the issuance of debt The Board adopted a policy that provides general criteria that indicate which projects are optimal candidates for debt funding. These policies also provide for an explicit debt limit expressed in terms of the debt-to-capitalization ratio. The debt limit was based on the Authority's desired level of debt service coverage and its expectation of borrowing costs over the long-term. These policies have major implications on the operating and capital budgets and how capital costs are funded.

The debt limit implies that the normal, recurring level of annual capital expenditures will be funded through current year water and wastewater rate revenue collections. Increases to water and wastewater rates will be necessary to achieve this funding level. The Authority's long-term financial plans include gradual rate increases over a six-year timeframe to transition to where normal, recurring capital expenditures are fully funded through rates. During this transition period, available fund balance identified pursuant to the Authority's liquidity and cash reserve policy will be used to supplement rate revenues as a capital funding source. The rates incorporated in the FY18-19 budget include an increase for both water and wastewater service that equates to an additional \$2.82 on an average residential customer's bi-monthly combined water and wastewater bill.

• In 2017, the issue of water quality became the focus of our community when emerging contaminants were discovered in the drinking water and in the Cape Fear River—the largest source of drinking water for our region. Over the past year, Cape Fear Public Utility Authority has taken legal action, continued to monitor and track levels of these compounds, and begun testing new treatment technologies that have the potential to remove them from the drinking water. As of March 31, 2018, the Authority has spent \$1,740,730 related to GenX and other emerging contaminants. These costs include \$320,500 for water and wastewater treatment costs related to water removed from the Authority's contaminated aquifer storage and recovery well. Except for \$185,000 in state grants, all of these costs were funded with rate revenues.

OPERATING BUDGET

The total Fiscal Year 2018-2019 operating budget is approximately \$81.6 million. As a foundation for the FY 18-19 budget process, key goals and assumptions are identified and highlighted below:

- Fiscal Year 2018-2019 budgeted operating expenditures (excluding salaries and benefits, contingency, and debt service appropriations) are based on known costs or projections of likely costs derived from historical data adjusted for current expectations. Budgeted operating expenditures for FY 18-19 are approximately \$1.3 million greater than operating expenditures in the adopted FY 17-18 budget. Approximately \$650,000 of this increase is attributable to forecasted legal, sampling, and other costs directly attributable to GenX.
- Budgeted salaries include 4.25 additional full-time equivalent (FTE) positions including two FTE in Information Technology, one FTE in Water Treatment, one FTE in Operations – Utility Services, and .25 FTE in Environmental Management/Safety. Budgeted salaries also include equity adjustments for various positions, a 1.5% cost-of-living adjustment, and 2.5% merit increases.

- Benefits were budgeted with a composite 4% in health premiums, respectively, effective January
 1, 2019 and an increase in the Local Government Employee Retirement System employer contribution rate from 7.5% to 7.75% of covered payroll.
- Unlike prior operating budgets, the FY 18-19 operating budget does not contain a contingency
 appropriation as authorized by North Carolina General Statutes. In accordance with boardadopted policy, the Authority's unrestricted fund balance is deliberately designed to include
 sufficient amounts to cover any unanticipated expenditures and/or revenue shortfalls.
 Consequently, a separate contingency appropriation is not necessary.
- Transfers to the capital projects funds are approximately \$16.7 million, an increase of \$1.8 million from the FY 17-18 adopted budget. The increase in budgeted transfers is a deliberate decision made to transition to where normal, recurring annual capital expenditures are fully funded though rates pursuant to the Authority's debt management policy.
- Debt service requirements (principal and interest on outstanding debt) in FY 18-19 are \$23.2 million.

CAPITAL BUDGET

The total of the 10-Year Capital Improvements Program (CIP) is \$272.2 million. New projects appropriated in FY 18-19 total \$54.9 million with most of the budgeted expenditures programmed to rehabilitate or replace existing infrastructure as part of asset management and addressing aging infrastructure.

The 10-Year CIP plan is reevaluated each year and provides opportunities to revisit the priorities and progress of these criteria. All projects were evaluated by preparing initial business cases. This process reviewed the best information available to identify project alternatives, pros and cons for each alternative, and planning level cost comparisons.

The initial business cases assess current risk and the risk reduction achieved by various project alternatives, in terms of consequence of failure and likelihood of failure. All projects were also prioritized on one or more of the following criteria:

- Compliance with regulatory requirements.
- Efficiency leading to future operating or capital savings.
- Capacity increases necessary for current of future flows.
- Growth in the number of customers served.

Once projects are prioritized, the 10-Year CIP is incorporated into the Authority's long-term financial plan prepared within the constraints established in policy to determine the financial impact on debt and debt service coverage, fund balance, and rates. This process is iterative in which the goal is to optimize system investment while being responsible to our rate payers and ensuring the financial sustainability of the organization.

AWARDS

The Government Finance Officers Association of the United States and Canada (GFOA) presented a Distinguished Budget Presentation Award to the Authority for its annual budget for the fiscal year beginning July 1, 2017. The Authority has received this prestigious award for six years. In order to receive this award, a governmental unit must publish a budget document that meets criteria as a policy document, as an operations guide, as a financial plan and as a communications device. We believe our FY 18-19 budget continues to conform to program requirements, and we are submitting it to GFOA to determine eligibility for another award.

This budget represents the combined efforts, experience, and expertise of the Authority Board, its Committees, and staff. This important work allows Cape Fear Public Utility Authority to meet the short and long-term needs of the customers we serve. A clear and transparent track record of responsibly employing our funding to the betterment of our customers and community has been established, and I am confident we will continue on this path in FY 18-19.

Respectfully submitted,

James R. Flechtner, P.E. Executive Director

CAPE FEAR PUBLIC UTILITY AUTHORITY PROFILE

Organizational Overview

Cape Fear Public Utility Authority was formed by the City of Wilmington and New Hanover County to combine the water and wastewater operations, and began operations on July 1, 2008. The Authority was established pursuant to the Chapter 162A, Article 1 of the North Carolina General Statutes, known as the North Carolina Water and Sewer Authorities Act. The Authority's service area consists of the City of Wilmington and areas of New Hanover County previously served by the New Hanover County Water and Sewer District (District). It does not include the municipalities of Carolina Beach, Kure Beach, and Wrightsville Beach; although by agreement, wastewater flows from Wrightsville Beach and a portion of Pender County are conveyed to and treated by the Authority. New Hanover County's population is approximately 220,000 in an area encompassing approximately 220 square miles. Of this total, 21 square miles consist of water and wetlands. New Hanover County is the second smallest county in North Carolina by land area and is also the second most densely populated of the 100 counties. The County's beaches provide miles of unspoiled natural beauty and are the area's most popular tourist attractions. The County is the eastern terminus of Interstate Highway 40, a transcontinental route ending in Barstow, California.

An eleven-member board governs the Authority. The City and County appoint five members each, with four of those appointments (two each) coming from their respective governing boards. The eleventh member is jointly appointed. The Authority board is responsible for the adoption of the annual budget, setting water and wastewater rates, making policy decisions, and managing the Executive Director and Legal Counsel.

The Water System

The water system is composed of a surface water system and two groundwater systems. There are 68,612 customer accounts, an increase of 1,260 compared to the previous year. Also, an additional 4,506 locations have services available (vacant lots). The water system has 1,113 miles of distribution lines at June 30, 2017. The Authority also keeps eight wells on standby to supplement the water supply during emergencies or peak demand periods. Metered water consumption for the fiscal year June 30, 2017 increased .21% from the previous year.

The Authority has a needs-based contract to purchase up to 23.0 MGD of raw water from the Lower Cape Fear Water and Sewer Authority (LCFWSA) with a term ending in 2030. Raw surface water is either drawn from the Cape Fear River through the Authority's 10 million gallon per day (MGD) raw water intake at King's Bluff or purchased through a connection with the LCFWSA at U.S. Highway 421. The raw surface water is pumped to the Sweeney Water Treatment Plant (SWTP), which provides potable water to the majority of the Authority's service area. The SWTP has a rated capacity of 35 MGD. Average production during the fiscal year ended June 30, 2016 was 14.35 MGD. The surface water distribution system has been providing water service for more than 100 years and includes 16.0 million gallons of covered finished water storage and 5.6 million gallons of storage in five elevated tanks. The LCFWSA and CFPUA equally share in the 106 MGD (combined) allocation of raw water from the Cape Fear River withdrawn at the Kings Bluff Raw Water Facilities.

In October 2009, the Authority placed a Richardson Nano-Filtration Groundwater Membrane Plant (the Richardson Plant) into operation to serve the northeast section of the distribution system. The source of raw water is from 25 wells drawing from two different aquifers. The plant softens the groundwater and removes organic and inorganic contaminants to produce a blended groundwater that is followed by

CAPE FEAR PUBLIC UTILITY AUTHORITY PROFILE

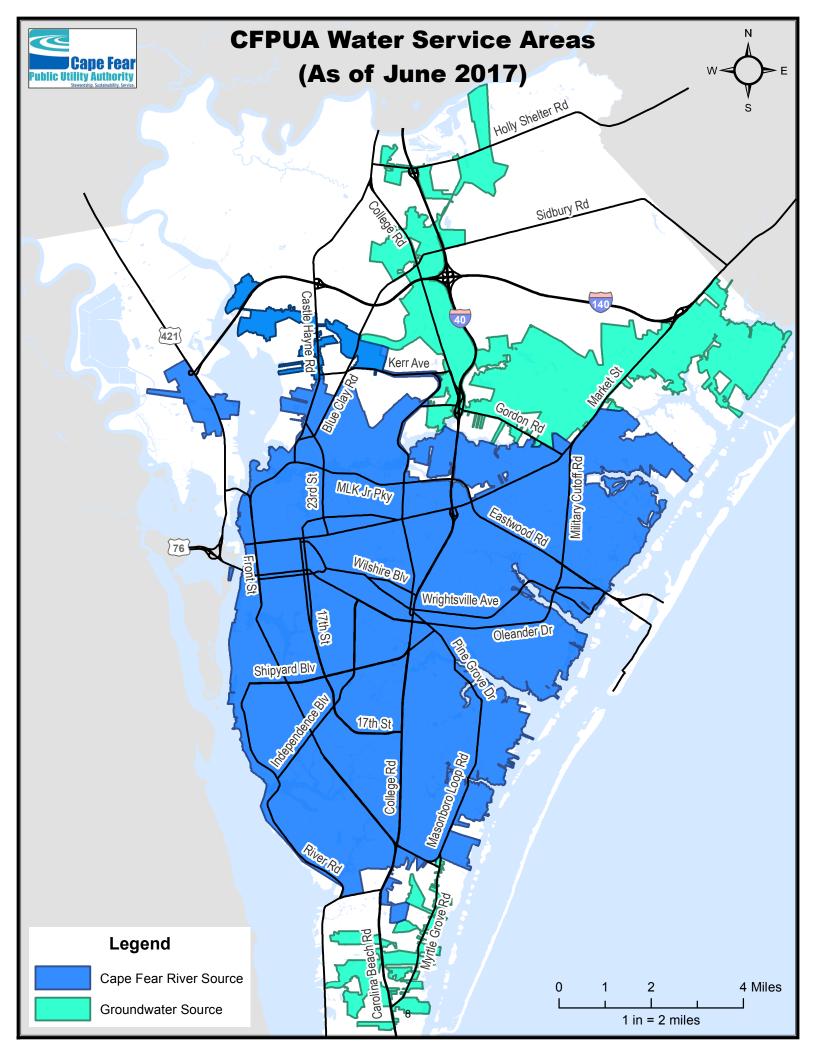
disinfection, fluoridation, and corrosion control and pH adjustment. The Richardson Plant has a rated capacity of 6.0 MGD. The Richardson Plant had a daily average production during the fiscal year ended June 30, 2017 of 2.475 MGD. The distribution system provides water service to customers and includes 2.8 million gallons of covered ground storage and 2.35 million gallons of elevated storage in five elevated tanks. In addition, the Authority operates one smaller groundwater system, Monterey Heights, providing groundwater directly to customers from four wells and a single 0.5 million gallon elevated storage tank. The groundwater receives disinfection and pH adjustment before being pumped to the distribution system and the storage tank. Average production of the Monterey Heights system during the fiscal year ended June 30, 2017 was 0.652 MGD.

The Wastewater System

There are 66,384 wastewater accounts, an increase of 654 compared to the previous year. Also, an additional 2,838 locations have services available (vacant lots). The Authority also provides wholesale wastewater treatment services to the Town of Wrightsville Beach and provides wastewater services to a portion of Pender County. The Authority's collection system consists of approximately 850 miles of gravity lines, 21,200 manholes, approximately 140 pump stations and 130 miles of pressurized sewage force main. Wastewater consumption, based on metered water (excluding irrigation) for the fiscal year June 30, 2017 decreased.61% from the previous year.

The Authority currently owns and operates the James A. Loughlin, or Northside Wastewater Treatment Plant (NSWWTP) and the M'Kean Maffitt, or Southside Wastewater Treatment Plant (SSWWTP). The NSWWTP is permitted to treat up to 16.0 MGD. The SSWWTP is permitted to treat up to 12.0 MGD. For the fiscal year ended June 30, 2017, the combined average daily flows were 18.76 MGD of the combined 28.1 MGD permitted, including the Walnut Hills Plant, which ceased operation on June 30, 2017. Flows from the Walnut Hills Treatment Plant have been redirected to the NSWWTP. The NSWWTP and SSWWTP both use physical, chemical and biological processes to clean the wastewater. After the wastewater flows are collected and treated, the treated effluent from the SSWWTP and the NSWWTP is discharged into the Cape Fear River. The Authority also has a hauled waste program receiving septage and other non-hazardous wastes to NSWWTP for processing.

The Authority has a sewer use ordinance that is administered under the pretreatment program. Ordinance revisions were approved by the Board on October 10, 2012, to ensure compliance with state and federal requirements and incorporate federal streamlining revisions. The pretreatment program monitors and regulates significant wastewater dischargers that are either connected to the Authority's wastewater collection system or hauled to the wastewater treatment plants. Currently, seven significant industrial users (SIU) are permitted under the program. SIU permits contain discharge limits for pollutants such as biochemical oxygen demand (BOD), total suspended solids (TSS), chemical oxygen demand (COD), oil and grease, chlorides, ammonia, total kjeldahl nitrogen (TKN), fluoride, certain metals, and organics. All of these SIUs pre-treat wastewater prior to discharging to the Authority. All SIUs submit monthly monitoring reports. Authority staff conducts semi-annual monitoring. Surcharges are applied to waste that contains pollutants in excess of domestic strength waste. A NC Division of Water Quality approved enforcement response plan ensures permit violations are addressed timely and equitably. Additionally, the pretreatment program permits and monitors food service establishments and other dischargers of non-domestic wastewater that could be harmful to the treatment works, employees, bio-solids, public health, and receiving waters.



CAPE FEAR PUBLIC UTILITY AUTHORITY STRATEGIC PLAN JULY 2014

MISSION STATEMENT

The Cape Fear Public Utility Authority's mission is to provide high quality water and sewer service in an environmentally responsible manner that protects public health, while maintaining the lowest practicable cost.

STRATEGIC VISION

Cape Fear Public Utility Authority is committed to excellence. The Authority effectively and efficiently manages operations, infrastructure, and investments to protect, restore, and enhance the natural environment; responsibly uses water and other natural resources; promotes economic vitality; supports public safety and health; and engenders overall community improvement and involvement on significant issues. The Authority continuously improves and not only meets but also strives to exceed all regulatory requirements.

GUIDING PRINCIPLES

The Authority is committed to the principles of *Stewardship*, *Sustainability* and *Service*. These principles serve as a guide for ethical decisions, provide a gauge for measuring success, and define our responsibility to the community. They guide our organization in the following way:

Stewardship

- Of the region's natural resources
- Of the financial resources and assets our customers entrust to us

Sustainability

- Of the region through dependable water and wastewater utilities that support public health and economic prosperity
- Of the Authority's ability to meet the community's current and future water and wastewater needs and expectations

Service

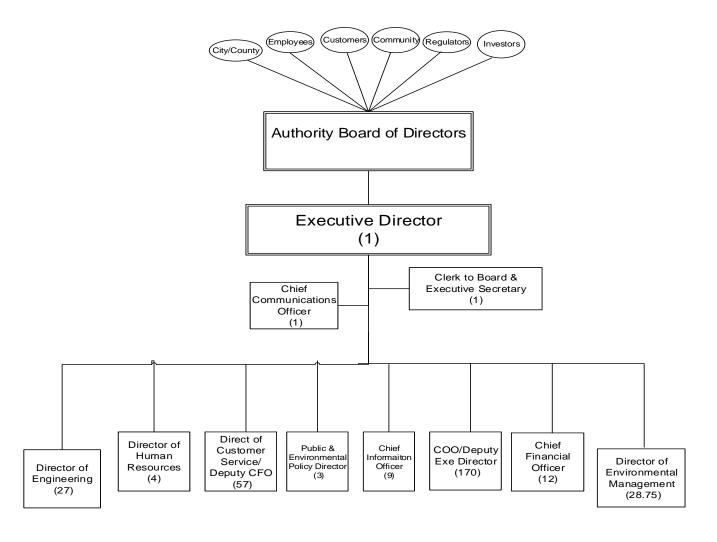
- To our customers by providing reliable, cost-effective water and wastewater utilities
- To our community as a thoughtful and participatory corporate citizen

GOALS & STRATEGIES

- The Authority will hold paramount our responsibility to protect the environment, ensure public health and safety, and respond effectively to the needs of our customers.
- Strategy 1.A Optimize the protection and use of water and other natural resources, and recycle where cost effective. Utilize the Environmental Management System to ensure and monitor regulatory compliance. Maintain and enhance the natural environment.
- Strategy 1.B Provide a safe work environment for our staff, contractors, and customers.
- Strategy 1.C Understand, anticipate, and respond to our customers and our community's needs in a professional, prompt, and efficient manner.
- Strategy 1.D Identify partnerships, develop alliances, and encourage public participation with both public and private community stakeholders.
- GOAL 2: The Authority will maintain a stable financial position that balances rates, the environment, and the organization's long-term capital and operating needs.
- Strategy 2.A— Establish and maintain a responsible balance among the fee schedule, long-term debt, asset values, Capital Improvement Program needs, operating expenses, and revenues.
- Strategy 2.B— Operate as a fiscally sound entity that identifies and implements cost-efficiencies, as well as exceeds benchmarks, targets, and measures comparable to similar utilities and consistent with industry standards.
- Strategy 2.C Build, operate, and maintain high quality and cost-effective collection, treatment, and distribution systems and maximize the life expectancy of physical assets.
- The Authority will build, maintain and operate the enterprise, and all of its human and physical assets, in a manner that provides both new and existing customers with consistently high quality services.
- Strategy 3.A Establish criteria to prioritize the systematic extension of wastewater collection systems to areas with failing septic systems and water distribution systems to areas with poor quality well water in an equitable manner to maximize public health and economic development.
- Strategy 3.B Establish a creative and forward thinking organizational culture that rewards integrity and innovation, and brings about efficiencies.
- Strategy 3.C Acquire and implement technologies and tools that allow for improved interdepartmental communication, enterprise-wide sharing of information, and operational efficiencies.
- Strategy 3.D Recruit and retain a well-qualified and motivated workforce. Provide opportunities for individual growth, and with that, organizational improvement.

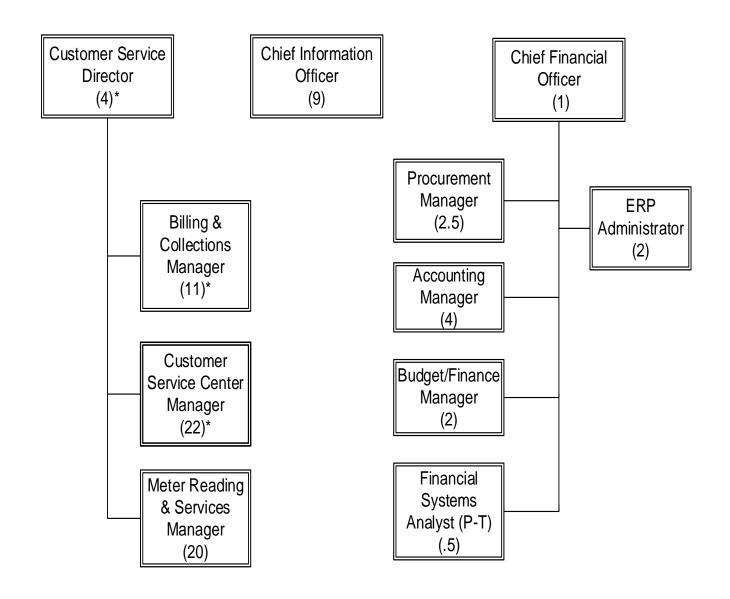


ADMINISTRATION DIRECT REPORTS





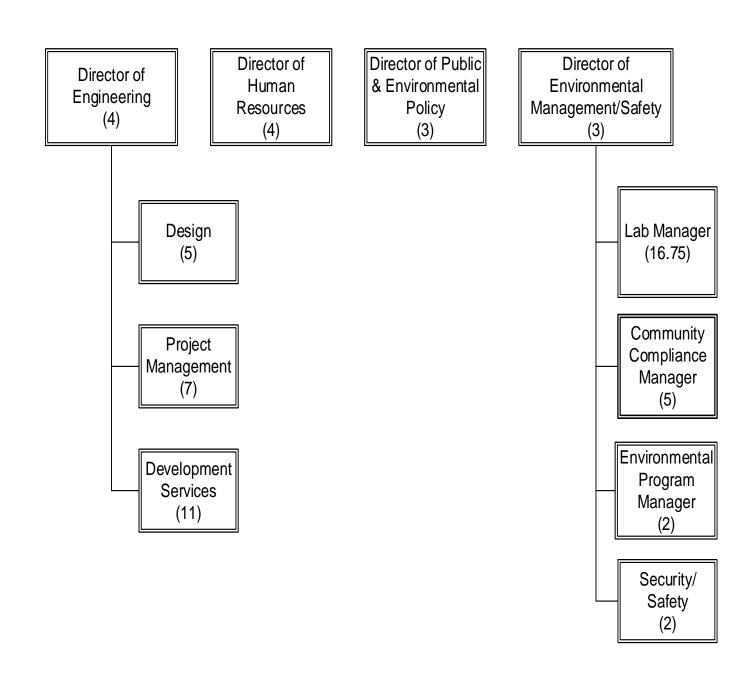
FINANCE, ERP, CUSTOMER SERVICE DIRECT REPORTS



*Includes 3 Back Fill positions for ERP

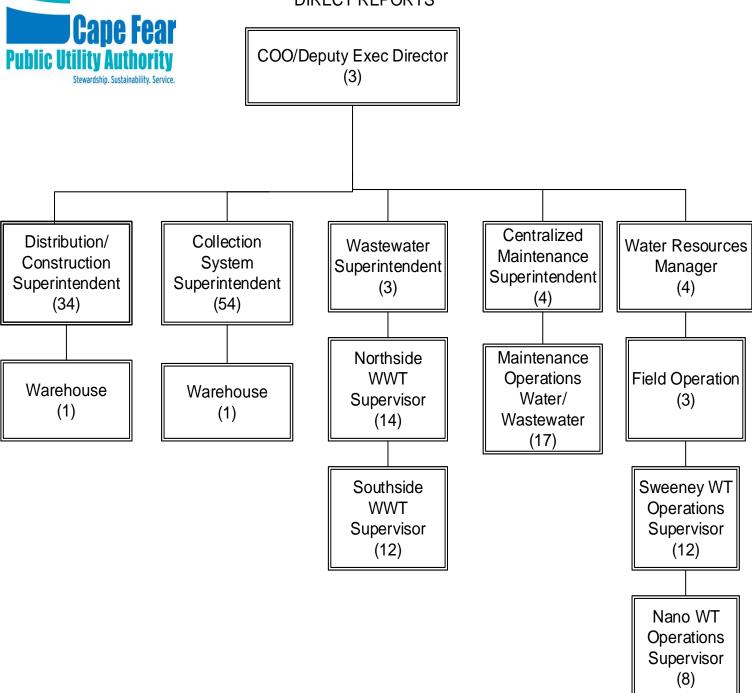


ENGINEERING, HUMAN RESOURCES, ENVIRONMENTAL MANAGEMENT, PUBLIC POLICY DIRECT REPORTS





OPERATIONS DIRECT REPORTS



FINANCIAL STRUCTURE

Fund Description, Fund Structure and Basis of Accounting

The Authority uses fund accounting to account for its financial resources and report the results of its operations. In fund accounting, accounts are organized on the basis of funds, each of which is considered an independent fiscal entity with a separate set of self-balancing accounts consisting of assets, liabilities, fund balance, revenues and expenditures. The establishment of discrete funds helps to ensure that public monies are only spent for approved purposes as established by budget ordinances and other actions of the Board, laws and regulations, contracts and other agreements.

For budgetary accounting and reporting, the Authority uses two funds: the Operating Fund and the Capital Projects Fund. Though not required, two funds are maintained mainly because of differences in how budgets are adopted and controlled. The annual budget is adopted as required by NC General Statute 159-8 for the Operating Fund. The annual budget ordinance establishes appropriations and estimated revenues for a single fiscal year. Expenditures in the Operating Fund include salaries and benefits for the Authority's employees, system maintenance, and other administrative costs. Revenues to fund these costs include charges for water and wastewater service, system development charges, investment earnings, and other miscellaneous revenues.

On the other hand, budgets related to the activity accounted for in the Capital Projects Fund are established by the adoption of capital project ordinances in accordance with NC General Statute 159-13.2. Capital project ordinances provide for budgeted expenditures and funding sources for those expenditures over the life of capital projects, rather than for a single fiscal year. The Capital Projects Fund accounts for system-wide, water, and wastewater capital projects that are appropriated in the capital budget. Funding sources include transfers from the Operating Fund, proceeds from the issuance of debt obligations, grant revenues, and contributions from third parties through cost-sharing agreements.

For financial reporting in accordance with generally accepted accounting principles, the Authority is considered a special-purpose government engaged exclusively in business-type activities. This means that the Authority reports both its operating and capital activities together in the basic financial statements on the full-accrual basis of accounting similar to a private business.

The Authority uses the modified accrual basis of accounting for budgetary purposes as required by NC General Statute 159-26(c). The modified accrual basis of accounting takes a short-term perspective and is intended to provide information to help the public determine whether a government was able to meet its financial obligations in the current year with available financial resources. For financial reporting in accordance with generally accepted accounting principles, the Authority uses the accrual basis of accounting. The accrual basis of accounting takes a longer-term perspective and doesn't just account for a government's current year obligations and financial resources, but accounts for all economic resources and liabilities. For example, capital costs for water and wastewater infrastructure under the accrual basis of accounting are capitalized as assets and expensed over the estimated useful life because these costs represent economic resources that have a future service capacity. However, under the modified accrual basis of accounting, these costs are not capitalized as assets since newly constructed infrastructure isn't a financial resource that's available to fund short-term liabilities. Rather, these costs are expensed when paid.

BUDGET PROCESS

This section outlines the process and procedures that guide the preparation and management of the Authority's annual budget. The Authority follows guidelines established in board-adopted policies.

Preparation of the annual budget begins approximately eight months prior to the start of each fiscal year with the development of the budget calendar. The budget calendar provides the projected dates and items that must be completed to meet the mandatory budget adoption as required by NC General Statute 159-8. The calendar is updated and revised as the budget process progresses and is a primary communication tool of the budget process. The Authority's budget calendar must adhere to the following requirements detailed in NC General Statute 159-8.

Before

April 30 Each department head shall transmit to the budget officer the budget requests and

revenue estimates for their department for the budget year.

No Later Than

June 1 The budget together with the budget message shall be submitted to the governing

board. The public hearing on the budget should be scheduled at this time.

No Later Than

July 1 The governing board shall adopt a budget ordinance.

The Finance Department holds a Budget Kick-off Meeting to communicate the instructions for the annual budget process, to help ensure the budget is prepared in a manner consistent with Authority policies, and review items that may be new for the budget year. The departments are provided with budget instructions, forms and training material needed to prepare budget requests for the upcoming budget year.

Other highlights of the Authority's Finance and Accounting Policies Budget Policy include:

- The Authority operates under an annual budget with a fiscal year period of July 1 through June 30.
- The Authority operates under an annual balanced budget ordinance in which the sum of estimated net revenues and appropriated fund balances are equal to the authorized expenditures.
- The budget shall include only estimated revenues reasonably expected to be realized in the budget year.
- Legally available fund balance (Appropriated Fund Balance) can be used in balancing the annual budget when sufficient funds are available.
- Except as restricted by law, the Authority Board may amend the budget ordinance, according to board-adopted policies, at any time after the ordinance's adoption, so long as the ordinance continues to satisfy the requirements of North Carolina General Statutes 159-8 and 159-13.

The following procedures are used to amend the budget as provided policy:

BUDGET PROCESS

- Transfers of budget authority among expenditure line items within the same department require Department Head, or designee, approval.
- Transfers of budget authority among appropriation lines in the Budget Ordinances require approval of the Chief Financial Officer and must be reported to the Board at the meeting subsequent to such transfer. These transfers must be recorded in the meeting minutes.
- Changes to the appropriation levels provided for in the Budget Ordinances may only be made by the Board through an adopted budget ordinance.

BUDGET CALENDAR

Day/Date/Time	Event	Group	
September 2017 – December 2017	Multi Departmental CIP Team Develops	Multi Departmental CIP Team	
·	Draft FY19 CIP and Ten-Year CIP	·	
Wednesday, January 3, 2018	Regular Finance Committee Meeting	Finance Committee	
2:00 pm IT Conference Room	- Budget Calendar		
Wednesday, January 10, 2018	Regular Board Meeting	Authority Board	
9:00 am NHC-Harrell Room	- Budget Calendar	,	
Thursday, January 18, 2018	Budget Kickoff Meeting	CFPUA Staff	
1:00 - 2:00 pm IT Conference Room			
Thursday, January 18, 2018	Budget Training Sessions as Needed	CFPUA Staff	
2:00 - 3:00 pm IT Conference Room	- Budget Forms Available to Departments		
Thursday, January 25, 2018	FY19 CIP Draft Budget to LRPC	Engineering/LRPC	
	Publish System Development Charge on	<u> </u>	
Thursday, February 1, 2018	CFPUA website for Public Comment		
Wednesday, February 7, 2018	Regular Finance Committee Meeting	Finance Committee	
9:00 am IT Conference Room			
Wednesday, February 14, 2018	Regular Board Meeting	Engineering/Authority Board	
Following Regular Board Meeting	- FY19 CIP Board Workshop	,	
	Employee Group and Business Insurance	Human Resources/Finance	
Friday, February 9, 2018	Estimates Due	·	
Friday, February 16, 2018	New Position Requests due to HR	CFPUA Staff	
	Departmental Budgets Submitted to Finance	CFPUA Staff	
Monday, February 19, 2018	by 5:00 pm		
	Fee Schedule Review Submitted to Finance	CFPUA Staff	
	by 5:00 pm		
Wednesday, February 28, 2018	Performance Evaluations Due to HR	Human Resources	
Thursday, March 1, 2018	Departmental Budget Reviews	ED/Finance	
Wednesday, March 7, 2018			
9:00 am IT Conference Room	Regular Finance Committee Meeting	Finance Committee	
Wednesday, March 14, 2018			
9:00 am NHC-Harrell Room	Regular Board Meeting	Authority Board	
	End of Public Comment Period for the		
Monday, March 19, 2018	System Development Charge		
Thursday, March 22, 2018	FY19 CIP Approval by LRPC	Engineering/LRPC	
Wednesday, April 4, 2018	Regular Finance Committee Meeting	Finance Committee	
9:00 am IT Conference Room	- Preliminary Rate Review		
	- Preliminary Budget Review		
	- Review SDC Calculation		
Wednesday, April 11, 2018	Regular Board Meeting/Public Hearing	Authority Board	
	- Preliminary Rate Review		
	- Public Hearing on SDC Calculation and		
	Adoption of SDCs (if no revisions are		
9:00 am NHC-Harrell Room	needed)		
	- Preliminary Budget Review		
	- FY19 CIP Recommended for Approval		
	Bi-monthly Finance Committee Meeting		
Wednesday, April 18, 2018	(OPTIONAL)	Finance Committee	
9:00 am IT Conference Room	- Preliminary Rate Review Continued		
	- Preliminary Budget Review Continued		
	Recommended Budget Completed	CFPUA Staff	

BUDGET CALENDAR

Day/Date/Time	Event	Group	
Wednesday, May 2, 2018	Regular Finance Committee Meeting	Finance Committee	
	- Recommended Budget Submitted		
	- Review Revised System Development		
9:00 am IT Conference Room	Charge (if necessary)		
Wednesday, May 9, 2018	Regular Board Meeting	Authority Board	
	- Recommended Budget Submitted		
	- Review and Approve Revised System		
9:00 am NHC-Harrell Room	Development Charge (if necessary)		
	Budget Workshop (including rates) -	Authority Board	
Wednesday, May 9, 2018	OPTIONAL		
IT Conference Room (following Regular			
Board meeting)			
Wednesday, June 6, 2018	Regular Finance Committee Meeting	Finance Committee	
	- Recommendation of Budget Adoption		
9:00 am IT Conference Room	Submitted (including rates)		
Wednesday, June 13, 2018	Regular Board Meeting/Public Hearing	Authority Board	
9:00 am NHC-Harrell Room	- Budget Adoption (including rates)		

FINANCIAL POLICIES

Policies that affect the Authority's long-term financial sustainability are adopted by the Board. These policies are periodically reviewed. These policies are summarized below.

Adopted Budget

- The Adopted Budget and Budget Ordinance for the Authority is the basis for the financial plan for the fiscal year. The budget is prepared and presented in conformity with the North Carolina Local Government Budget and Fiscal Control Act under NC General Statute 159-8. The Authority operates under an annual balanced budget ordinance in which the sum of estimated net revenues and appropriated fund balances are equal to the authorized expenditures. Refer to the Budget Process for detailed information on the adopted budget.
- Operating appropriations lapse at the end of each fiscal year and are controlled at the department and expenditure category level. Capital appropriations do not lapse at the end of each fiscal year and are controlled at the project level.

Debt Management

- The Authority issues debt under the guidance of the Local Government Commission, a division of the State of North Carolina. Debt is issued in accordance with North Carolina General Statutes 162A.
- The Authority generally limits debt issuance to only those projects that are high-dollar, emergency-related, or growth oriented.
- Debt may not be issued if such issuance would cause the ratio of outstanding debt to the value of capital assets to exceed 45%, consistent with target debt coverage and expected long-term borrowing costs.

Unrestricted Fund Balance and One-time Revenues

- The Authority periodically evaluates the targeted level of unrestricted fund balance that is needed
 to maintain sufficient liquidity for working capital needs and to provide for a reserve for
 unanticipated expenditures and/or revenue shortfalls that is tailored to the specific business risks
 relevant to the Authority's operations. The Authority's current unrestricted fund balance target is
 \$50 million.
- The Authority is precluded from using "one-time" revenues, including operating surpluses
 generated in prior years, to fund recurring expenditures. After the end of each fiscal year,
 operating surpluses are identified and designated through Board action for the early retirement
 of debt, the accumulation of capital reserves, the payment of post-retirement healthcare benefits,
 or to remain as unrestricted fund balance available to fund future non-recurring expenditures.

Revenues

FINANCIAL POLICIES

The Authority sets rates and charges in accordance with North Carolina General Statute 162A-9. Water and wastewater rates consist of fixed and volumetric charges. Fixed charges are based on the greater of the debt service for the year or 35% of the operating budget. Volumetric charges are established to fund all operating costs less the estimated fixed charges, system development charges, and other revenues.

Investments

- The Authority is empowered to invest in types of securities in accordance with North Carolina General Statute 159-30 (c).
- The Authority prepares detailed cash flow forecasts to maximize the amount and maturity of investments to optimize investment returns.
- The State Treasurer of North Carolina enforces strict standards of financial stability for each depository that collateralizes public deposits under the pooling method. The State Treasurer enforces standards of minimum capitalization for all pooling method financial institutions. The Authority relies on the State Treasurer to monitor those financial institutions. The Authority analyzes the financial soundness of any other financial institution used by the Authority. The Authority complies with the provisions of G.S. 159-31 when designating official depositories and verifying that deposits are properly collateralized.
- The investment portfolio shall be properly diversified in order to minimize risks brought on by economic and market changes. To achieve this diversification:
 - No more than 25% of the Authority's total investment portfolio shall be invested in a single security type.
 - The Authority will not invest in securities maturing more than five years from date of purchase and the weighted average maturity of the portfolio shall never exceed one year.

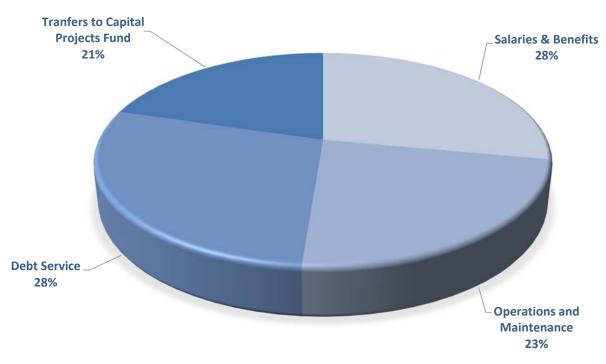
Long-term Financial Planning

In order to plan and demonstrate the Authority's long-term operational and financial sustainability, the Authority is required to annually prepare a long-term financial plan which incorporates long-term capital expenditure plans and projected operating costs constrained by the Authority's debt and revenue policies. The long-term financial plan is an iterative, multi-departmental process that seeks to balance efficient and effective service delivery, sufficient capital investment, the Authority's financial health, and rate affordability.

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The Authority's operating budget covers the cost to operate the system each year including water and wastewater treatment, water distribution, wastewater collection, system maintenance, environmental management, engineering, customer service, and administration. Appropriations in the operating budget are made on an annual basis meaning that budget authority lapses at the end of each fiscal year. This contrasts with the capital budget in which specific project appropriations continue through the life of the project, which may span multiple budget years. The information below summarizes the major expenditure categories and some of the key factors and assumptions driving the FY18-19 operating budget.

Fiscal Year 2018-2019 Expenditures by Type

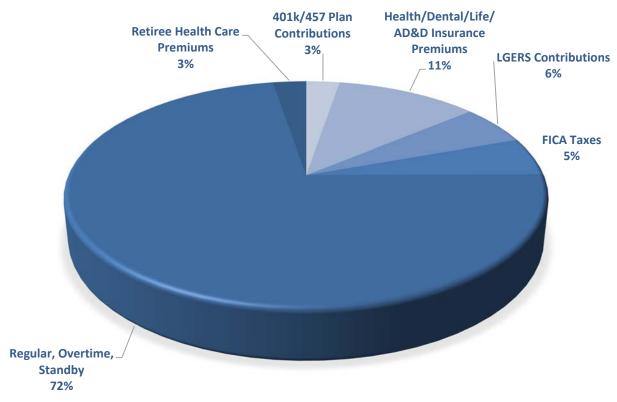


Salaries and Benefits

Approximately 28% of the Authority's operating budget is comprised of salaries and benefits costs related to the Authority's employees and retirees. The FY 18-19 budget includes appropriations to fund salaries and benefits for 313.75 full-time equivalent positions, which is 7.25 more full-time equivalent positions than were appropriated in the FY 17-18 adopted budget. Salaries are budgeted with equity increases for various positions, a 1.5% market cost-of-living adjustment, and 2.5% merit increases. Appropriations for benefits incorporate a composite 4% increase in North Carolina state health plan premiums (effective January 1, 2019) and an increase in employer contributions to the North Carolina Local Government

Employees Retirement System from 7.50% to 7.75% (effective July 1, 2017). The following chart details the composition of budgeted salaries and benefits costs for FY 18-19.

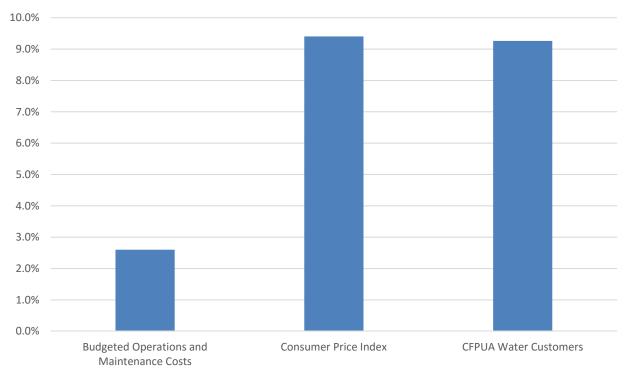




Operations and Maintenance

These costs include all direct, non-capital costs to operate the water and wastewater systems including water and wastewater treatment, water distribution, wastewater collection, engineering, customer service, environmental management and testing, and administrative costs. The FY 18-19 budget continues the Authority's commitment to delivering the highest quality services at the lowest practical cost. The graph below demonstrates the growth in operating and maintenance costs prior to the creation of the Authority compared to percentage changes in customers and the consumer price index over the same time span.

Growth in Operations & Maintenance Costs Compared to Growth in Customers and Consumer Price Index Since Inception



Source: Bureau of Labor Statistics for Consumer Price Index Data

Debt Service

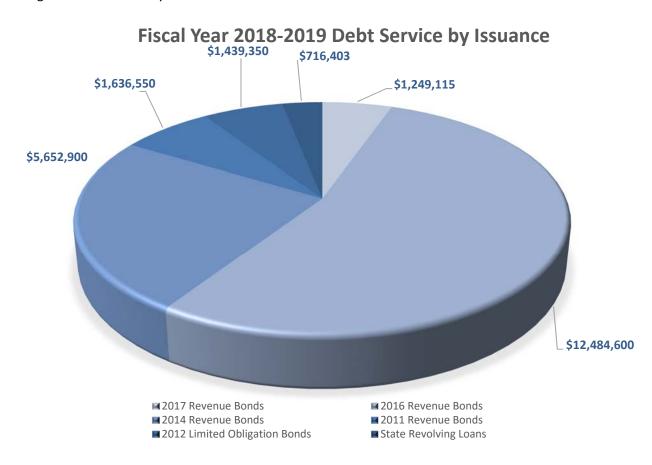
The Authority is empowered to issue revenue bonds to fund its capital program. Pursuant to the interlocal agreement transferring the City of Wilmington's and New Hanover County's water and wastewater system to the Authority, the Authority assumed responsibility for the related debt. All the debt transferred from the City has been retired, while the 2012 Limited Obligation Bonds assumed from the County remain outstanding.

The Authority is required to structure its rates to maintain coverage at 1.2 times the annual debt service requirement; however, the Authority's policy is to maintain coverage of at least 1.6 times the annual debt service requirement. In addition, in accordance with policy, the Authority does not issue debt if the issuance of such debt would cause the Authority's debt balance to exceed 45% of the Authority's capital asset balance. The Authority does not plan to issue debt in FY 18-19 and is projecting to achieve a coverage ratio of 1.69 times the FY 18-19 debt service requirement and maintain outstanding debt balances at 36.1% of capital assets. The Authority maintains credit ratings of AA+ and Aa2 from Standard & Poor's and Moody's, respectively. Both ratings are one level below the highest possible ratings.

The following chart details the debt service requirements to maturity related to the Authority's outstanding debt:

Issue Name	Principal	Interest	Total	Coupon	Maturity
2017 Revenue Bonds	\$ 32,890,000	\$ 11,848,283	\$ 44,738,283	3.03%	2037
2016 Revenue Bonds	141,590,000	55,516,388	\$ 197,106,388	1.75% - 5.00%	2035
2014 Revenue Bonds	55,500,000	24,732,125	\$ 80,232,125	.20% - 5.00%	2040
2011 Revenue Bonds	5,335,000	504,575	\$ 5,839,575	4.00% - 5.00%	2021
2012 Limited Obligation Bonds	9,795,000	2,228,125	\$ 12,023,125	2.50% - 4.34%	2028
State Revolving Loans	18,720,142	2,833,320	\$ 21,553,462	2.00% - 2.46%	2039
Total	\$ 263,830,142	\$ 97,662,816	\$ 361,492,958		

The debt service appropriation for the FY 18-19 budget of \$23.2 million includes amounts to pay principal and interest on the Authority's outstanding debt obligations. FY 18-19 principal payments total \$12.7 million and interest payments total \$10.5 million. The following graph details the composition of FY 18-19 budgeted debt service by issuance.

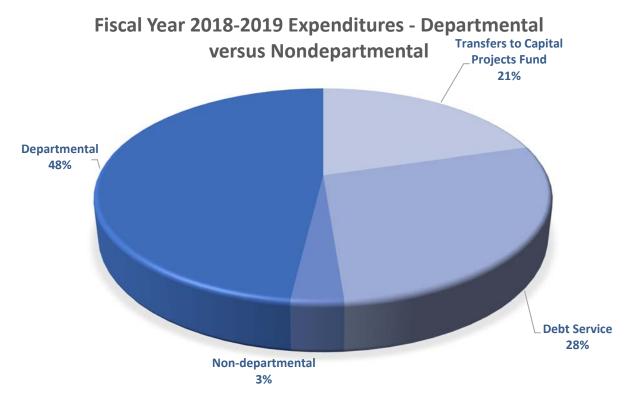


EXPENDITURE SUMMARY

Transfers to Capital Projects Fund

In addition to proceeds from the issuance of debt, transfers of current year revenues to the capital projects fund is the other major source of funding for the Authority's capital program. With the adoption of the Authority's debt management policy, these transfers will gradually increase over the coming years until the Authority's average, recurring capital expenditures are fully funded from transfers. The appropriation in FY18-19 of \$16.7 million, a 12.0% increase over the transfers appropriated in FY 17-18, reflects the implementation of this policy.

As the chart below shows, 48% of the FY 18-19 budget is controlled by the Authority's various departments including salaries and benefits and operational costs to execute the Strategic Plan. The remaining 52% are not controlled by individual departments and include transfers to the capital projects fund, debt service, and various overhead expenditures that aren't attributable to a specific departmental such as expenditures for rent and insurance.



The following chart details the Authority's staffing trends over the upcoming budget year and the previous two years. The FY 18-19 budget authorizes a total of 313.75 full-time equivalent (FTE) positions, an increase of 7.25 FTEs from the FY 17-18 adopted budget. Three of these additional FTEs were added during FY 17-18 and include the addition of 3 customer service representatives to handle additional call volumes and to achieve targeted performance related to call hold and resolution times. The other 4.25 FTEs authorized as part of the FY 18-19 budget include 2 FTEs in Information Technology to provide increased customer service to Authority's various departments related to helpdesk and application/server maintenance; 1 FTE in Utility Services to optimize staffing levels for water and sewer main repairs; 1 FTE in Water Treatment to enhance and maintain the Authority's emergency well sites; and .25 FTE in Environmental Management for laboratory technician services. In addition, the Public & Environmental Policy department was created mid-year FY 17-18. All 3 FTEs in this department were transferred from the Administration, Utility Services, and Environmental Management departments.

	<u>FY17</u>	<u>FY18</u>	FY19
Administration	4.0	4.0	3
Finance	12.0	12.0	12
Public & Environmental Policy	-	-	3
Human Resources	5.0	4.0	4
Information Technology	6.0	7.0	9
Engineering	27.0	27.0	27
Operations - Administration	7.0	3.0	3
Operations - Centralized Maintenance	17.0	21.0	21
Operations - Utility Services	90.0	90.0	90
Operations - Wastewater Treatment	28.0	29.0	29
Operations - Water Treatment	25.0	26.0	27
Environmental Management/Safety	28.5	29.5	28.
Customer Service/Meters	54.0	54.0	57
Total	303.5	306.5	313.

Note: Three FTE were added mid-year FY 17-18 in Customer Service.

AUTHORITY BOARD

Board Chair, Michael C. Brown, III

The Cape Fear Public Utility Authority Board consists of eleven members. The City of Wilmington and New Hanover County appoint five members each; two of those appointments come from their respective governing boards. The eleventh member is jointly appointed. The Board is responsible for, among other things, adopting the annual budget, setting water and sewer rates, making policy decisions, managing the Executive Director, and contracting with the Authority's Legal Counsel.

The Authority Board budget for FY 18-19 is \$64,710, or .08% of the total FY 18-19 operating budget. Of the total departmental budget, \$38,759 (or 60.0%) is budgeted to pay monthly stipends for the Board's 11 members. The remaining \$25,951 (or 40.0%) is budgeted for various expenditures including costs to broadcast Board meetings, advertise public hearings, and cell phone and tablet stipends.

ADMINISTRATION

Executive Director, James R. Flechtner, P.E.

The Administration Department consists of the Executive Director, the Chief Communications Officer, and the Clerk to the Board. The Executive Director serves at the pleasure of the Board and is responsible for executing the Board's strategic vision, policies, and objectives. The Chief Communications Officer is

responsible for keeping customers and other key stakeholders, including the news media, informed about CFPUA's activities and issues affecting customers and the region. They also support departments with outreach to customers affected by scheduled construction projects or by providing emergency response assistance.

The Administration Department budget for FY 18-19 is \$1,156,590, or 1.41% of the total FY 18-19 operating budget. Of the total departmental budget, \$432,163 (or 37.4%) is budgeted to pay salaries and benefits for the department's 3 full-time equivalent positions. The remaining \$724,427 (or 62.6%) is budgeted for various expenditures including \$622,000 for legal costs including those related to GenX litigation.

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance				
Communications	Maintain an effective, user- friendly website	1.C	"Bounce rate" - Percentage of website visitors who enter the site	55%	Current Year: Not previously tracked				
			and then leave rather than continue to view other pages within the same site		Prior Year: Not previously tracked				
	Solicit and inc	Strategies/Initiatives to Achieve Targeted Performance: Solicit and incorporate input from internal and external website users to optimize accessibility and user experience							
	Position the organization as a partner with the	1.C, 1.D	Number of Notify Me! subscriptions as percentage of customer accounts	10%	Current Year: Not previously tracked				
	community through outreach and engagement		customer accounts		Prior Year: Not previously tracked				
			Click rates for internal communications	25%	Current Year: Not previously tracked				
				Prior Year: Not previously tracked					
			12-month rolling media sentiment	1:1	Current Year: .12:1				
			ratio		Prior Year: Not previously tracked				

DEPARTM	DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
	Strategies/Initiatives to Achieve Targeted Performance: Increase opportunities for customers subscribe to Notify Me! (e.g. when customers sign up new service, at the bottom of each news flash post, etc.) Continue building relationships with media outlets to publicize organizational and community successes							
	Complete public information requests in a timely manner	1.C	Average number of weeks to complete public information requests	4	Current Year: Not previously tracked Prior Year: Not previously tracked			
		_	Performance: For receiving and comple	eting public records	requests			

FINANCE

Chief Financial Officer, John McLean, CPA

The Finance Department is responsible for the following:

- developing and recommending financial policies that facilitate the fiscal sustainability of the
 organization and developing and executing budgets and financial plans in accordance with these
 policies including rate development, debt issuance, and the investment of public funds;
- supporting organization-wide operations through the timely, accurate payment of vendors, employees, and other parties; managing the procurement of goods and services; budget management; and enterprise resource planning system support;
- communicating financial information to stakeholders including customers, the Board, credit rating agencies, the development community, and governmental partners.

The Finance Department budget for FY 18-19 is \$1,223,692, or 1.50% of the total FY 18-19 operating budget. Of the total departmental budget, \$1,071,960 (or 87.6%) is budgeted to pay salaries and benefits for the department's 12 full-time equivalent positions. The remaining \$151,732 (or 12.4%) is budgeted for various expenditures including the cost of the annual financial audit, financial advisors/consultants, and professional development.

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance				
Accounts Payable	Optimize the timing of vendor payments to delay cash outflows	3.C	3-month rolling dollar-weighted average absolute	3	Current Year: Not previously tracked				
	while avoiding business interruption due to late payment	siness interruption	value of variance between optimal invoice payment date and actual invoice payment date in days		Prior Year: Not previously tracked				
	Utilize bank di	anization-wide on th	ne importance of submit te recognizing the poter		over daily cash				
Payroll	Minimize payroll error corrections 3.C	3.C	2-month rolling average number of error corrections per payroll run	4	Current Year: Not previously tracked				
					Prior Year: Not previously tracked				
	• Draft, train, a	Strategies/Initiatives to Achieve Targeted Performance:							
Procurement	Provide water/sewer services at the lowest practicable cost	2.B	12-month rolling average number of bids per bid request	3	Current Year: Not previously tracked				
				Prior Year: Not previously tracked					
			12-month rolling dollar-weighted average contract	85%	Current Year: Not previously tracked				
		award value as a percentage of median contract bid amount		Prior Year: Not previously tracked					
	· ·	mplement strategies	Performance: to maximize the numbe ing pools when appropri		ds and services				
	Provide for efficient operations by minimizing the	3.C	12-month rolling average number of days to award	45	Current Year: Not previously tracked				

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prio Year Performance
	number of days from bid to award				Prior Year: Not previously tracked
	• Provide training	o Achieve Targeted F ng on bid checklists a			
Financial Reporting	Timely and efficient production of financial reports to internal and external stakeholders including the CAFR, monthly Board financials, and departmental budget reports.	3.C	12-month rolling number of financial reports submitted after scheduled deadlines	0	Current Year: 3
					Prior Year: Not previously tracked
	_	nology to automate	Performance: the production of custor lures and provide approp		
Investment Management	Efficiently use ratepayer funds to	2.B	Idle cash as a percentage of total	16%	Current Year: 11.6%
	offset potential rate increases by		cash and investments		Prior Year: 9.4%
	maximizing investment yields		Dollar-weighted rate of return as a % of	105%	Current Year: 94.7%
		NCCMT Term yield		Prior Year: Not previously tracked	

HUMAN RESOURCES

Director of Human Resources, Denise Matroni

The Human Resources Department provides quality service and support in employment, employee relations, benefits, compensation, health and safety, and training to the employees so that they can best serve the needs of the customers of Cape Fear Public Utility Authority.

The Human Resources Department budget for FY 18-19 is \$553,180 or .68% of the total FY 18-19 operating budget. Of the total departmental budget, \$423,163 (or 76.5%) is budgeted to pay salaries and benefits

for the department's 4 full-time equivalent positions. The remaining \$129,375 (or 23.5%) is budgeted for various expenditures including costs related to insurance brokerage services for employee benefits, worker's compensation claims administration, organizational training, employee recognition and education assistance, and advertisement of position vacancies.

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
Recruitment	Optimize the advertising sources and dollars for	3.D	Rolling average advertising costs per applicant	<\$15	Current Year: \$10.40 Prior Year:			
	candidate pools.		регаррпсанс		\$6.49			
	 Increase visib work here. 	option advertising ility of CFPUA work Applicant tracking	Performance: packages at reasonable teams and projects to p system will allow data	ique more interest l				
	Improve retention of employees within the	3.D	Turnover rate	<5%	Current Year: 1.27%			
	first year.				Prior Year: 1.07%			
	Improve the applicant selection process through	3.D	12-month rolling average number of positions filled	75%	Current Year: Not previously tracked			
	timely response to candidates.		within 60 days of position closing as a percentage of total position openings		Prior Year: Not previously tracked			
	Strategies/Initiatives to Achieve Targeted Performance:							
	 Require all members of selection committees to complete Behavior Based Interviewing Training. Develop onboarding/mentor program for new employees to transition them into the workforce to reduce turnover during probationary period. Implementing Applicant tracking system will allow data to be collected on recruitment selection. 							
Compensation & Classification	Optimize the pay policy to pay	3.B	Number of pay grades where the	5	Current Year: 5			
	employees at a competitive rate.		average salary is at or above the first quartile		Prior Year: 5			
	Strategies/Initiatives t	o Achieve Targeted	Performance:	<u>'</u>	'			
	 Placement of 	new hires, promoti	to identify pay inequitions ons and reclassifications	s fairly in the pay rai	nge based on			
	experience, e	ducation, internal e	quity and market condit	tions.				
	 Verify CFPUA ranges to comparable entities for market equity. 							

PUBLIC & ENVIRONMENTAL POLICY

Director, Lindsey Hallock

The Public and Environmental Policy Department consists of the Director, the Public and Environmental Policy Specialist and the Environmental Data Analyst. The mission of the Public and Environmental Policy Department is to ensure that CFPUA contributes to the long-term sustainability of Wilmington and New Hanover County. The department helps create strategic environmental and public policy goals, and assists other departments in implementing and maintaining programs to meet them.

The department provides white papers, regulatory research, data analysis and educational materials to help the organization monitor and improve its environmental and public policy initiatives. The department also conducts external outreach to customers, environmental groups, research organizations and local government, ensuring that CFPUA has stakeholder input and local expertise looped into our policies and programs.

The Public & Environmental Policy Department budget for FY 18-19 is \$283,723, or .35% of the total FY 18-19 operating budget. Of the total departmental budget, \$267,021 (or 94.1%) is budgeted to pay salaries and benefits for the department's 3 full-time equivalent positions. The remaining \$16,702 (or 5.9%) is budgeted for various expenditures including software licenses and training, printing for special educational materials, and various computer hardware.

DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance		
Data Analysis	Produce accurate compliance maps for the Environmental	3.C	12-month rolling average number of revisions to compliance maps	<2	Current Year: Not previously tracked		
	Management Department in a timely and efficient manner.				Prior Year: Not previously tracked		
	Strategies/Initiatives to Achieve Targeted Performance: Create standardized template of questions to ensure full understanding of what each map needs. Create standardized data collection protocol for each map.						
Community Outreach	Attend and participate in meetings of stakeholders and	1.D	12-month rolling average meetings participated in per month	2	Current Year: Not previously tracked		

DEPARTME	DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
	·	groups in the comm	Performance: unity to learn meeting s nal opportunities to scho		Prior Year: Not previously tracked			
Policy Implementation	Produce policy papers on CFPUA environmental/public policy programs to monitor organization's policy progress	1.A	12-month rolling number of policy papers	10	Current Year: Not previously tracked Prior Year: Not previously tracked			
	Strategies/Initiatives to Achieve Targeted Performance Identify top environmental programs to be highlighted and work with other departments to set goals and recommendations for them. Collect data to measure and quantify program success.							

INFORMATION TECHNOLOGY

Chief Information Officer, Cord Ellison

The Information Technology Department is responsible for the connectivity of eight facilities, as well as the SCADA network that consists of over 250 outlying sites. It also supports and maintains all Authority servers, personal computers (PC's), network equipment, and telephone systems. In addition, the Information Technology Department is responsible for the Authority's technology security, the website, closed-circuit television (CCTV), and network security across the organization.

The Information Technology Department budget for FY 18-19 is \$2,411,030, or 2.95% of the total FY 18-19 operating budget. Of the total departmental budget, \$824,194 (or 34.2%) is budgeted to pay salaries and benefits for the department's 9 full-time equivalent positions. The remaining \$1,586,836 (or 65.8%) is budgeted for various expenditures including the cost of software licenses, scheduled replacement of computers, data connection services, regular maintenance on the Authority's SCADA system, and costs related to customer service call center enhancements including virtual hold, web chat, and call recording.

DEPARTME	DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
Network/Server Maintenance	Maintain IT infrastructure in an effective and timely manner to minimize downtime	3.C	12-month rolling up-time ratio	99.9%	Current Year: Not previously tracked			
					Prior Year: Not previously tracked			
	Strategies/Initiatives to Achieve Targeted Performance:							
	 Continue to assess risks to the organization's network and invest in redundancy and new technology as appropriate to address those risks 							
Helpdesk/Work Orders		1.C, 3.C	Monthly percentage of break/fix work orders completed within 24 hours	95%	Current Year: Not previously tracked			
					Prior Year: Not previously tracked			
	Strategies/Initiatives to Achieve Targeted Performance: Right-size IT staff to the volume of work orders Continue regularly replace hardware devices							

ENGINEERING

Director of Engineering, Carel Vandermeyden, P.E.

The Administration Division is responsible for the overall management of the Engineering Department and for ensuring that department functions are aligned to meet the Authority's strategic objectives. The Department comprise five divisions: Administration, Asset Management, Planning and Design, Project Management and Development Services.

The Engineering Department budget for FY 18-19 is \$2,703,945, or 3.31% of the total FY 18-19 operating budget. Of the total departmental budget, \$2,479,988 (or 91.7%) is budgeted to pay salaries and benefits for the department's 27 full-time equivalent positions. The remaining \$223,957 (or 8.3%) is budgeted for various expenditures including the cost of updating the Authority's construction specifications, the service area's Water Master Plan, and the Authority's asset management database.

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance				
Asset Management	Minimize corrective maintenance efforts due to asset failure	2.C	Rolling 12-month ratio of preventative maintenance efforts	6:1	Current Year: 5.1:1				
			to corrective maintenance efforts		Prior Year: Not previously tracked				
			d Performance: appleteness of asset invention	tory and data qualit	y of asset data				
Planning &	Provide timely	1.C	12-month rolling	90%	Current Year:				
Design	research and response to customer		average percentage of responses to		90%				
	requests for water and sewer master		customer requests provided within 10		Prior Year: 89.5%				
	plans Strategies/Initiatives to		business days						
Development Services	 Maintain a re duplication Provide timely review of plans submitted 	adily accessible ard	12-month percentage of plan	90%	Current Year:				
Services		1.0		30%					
			days						
	 Update design 	opaute design galaune desament to communicate plan submitted expectations to develope							
	Provide timely review of building permit	1.C	12-month rolling percentage of	90%	Current Year: 100%				
	applications		building permits reviewed within 10 business days		Prior Year: 100%				
	Collaborate w user interface	Strategies/Initiatives to Achieve Targeted Performance: Collaborate with the County to implement new building permit processing software to improve user interface, coordination of multi-agency review, and accuracy performance tracking Train additional staff to participate with building permit review software							
	Perform timely Certificate of Occupancy	1.C	12-month rolling percentage of inspections	90%	Current Year: 90%				
	inspections on all buildings connected to CFPUA water and		completed within 2 business days		Prior Year: Not previously tracked				

DEPARTME	DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
	Strategies/Initiatives to Achieve Targeted Performance:							
	 Improve communications and checklists describing inspection procedures and expectations to ensure standardized and predictable inspections 							
Project Management	Deploy appropriations for capital investment in the water and	2.C	Dollar-weighted average time elapsed between appropriation and	3	Current Year: Not previously tracked Prior Year:			
	wastewater system in a timely manner		project completion in years		Not previously tracked			
	 Strategies/Initiatives to Achieve Targeted Performance: Leverage technology to track project life cycle Structure consultant contracts to include project milestones Schedule projects with a three-year life cycle for design, permitting, bidding, and construction Work with other departments for timely execution of capital projects managed outside of Engineering 							

OPERATIONS – ADMINISTRATION

Chief Operations Officer, Frank C. Styers, P.E.

The Operations Department is committed to delivering essential water and wastewater services to our customers in an efficient and environmentally responsible manner. Divisions include water treatment, wastewater treatment, utility services distribution and construction, utility services collections operations and maintenance, and centralized maintenance. The department is responsible for regulatory compliance of the various utility systems and providing outstanding water and sewer service to our customers. The Department continues its efforts to minimize sanitary sewer overflows (SSOs), improve water quality, and improve response to critical events that can damage infrastructure or the environment.

The Operations - Administration budget for FY 18-19 is \$373,620, or .46% of the total FY 18-19 operating budget. Of the total departmental budget, \$359,648 (or 96.3%) is budgeted to pay salaries and benefits for the department's 3 full-time equivalent positions. The remaining \$13,972 (or 3.7%) is budgeted for various expenditures including cell phone stipends, dues and subscriptions, and office supplies.

OPERATIONS – CENTRALIZED MAINTENANCE

Maintenance Superintendent, Kevin Boyett

The Centralized Maintenance Division is responsible for maintenance activities associated with the water and wastewater treatment plants, well sites, buildings and other facilities, as well as fleet management. Efforts to consolidate maintenance resources have proven beneficial. Centralized Maintenance is continuing to evaluate strategies to become more efficient by moving towards a more predictive approach to maintenance. The Authority's Computerized Maintenance and Management System (CMMS) has proven to be a key component in this transition and will continue to prove effective.

The Operations – Centralized Maintenance budget for FY 18-19 is \$2,796,844, or 3.42% of the total FY 18-19 operating budget. Of the total division budget, \$1,384,152 (or 49.5%) is budgeted to pay salaries and benefits for the division's 21 full-time equivalent positions. The remaining \$1,412,692 (or 50.5%) is budgeted for various expenditures including contracted services for fleet and equipment maintenance, landscaping, and materials costs for various plant and facilities maintenance.

DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance		
Plant/Facilities Maintenance	Maintain plant/facilities in an effective and timely manner to minimize downtime	1.C	12-month rolling number of preventative maintenance work orders as a percentage of total work orders	60%	Current Year: 57.0% Prior Year: 53.7%		
			12-month rolling average number of days to complete plant/facilities work orders	15	Current Year: 14.22 Prior Year: 13.20		
	Strategies/Initiatives to Achieve Targeted Performance: Continue to perform regular inspections and condition assessments of facilities Continue to leverage available technology to execute a risk-based schedule for preventative maintenance Ensure that maintenance staff has the best available resources to efficiently perform work orders						
Fleet Maintenance	Ensure regular and timely maintenance	1.C	6-month rolling average work order life for scheduled	15	Current Year: 19.36		

DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance		
	of fleet to minimize downtime		fleet maintenance in days		Prior Year: 24.31		
	Continue to le	the importance reg	ular vehicle maintenand chnology to notify empl		maintenance and		

OPERATIONS – UTILITY SERVICES

Superintendent, Robert P. Daughtry and Jim Tayson

Operations – Utility Services consists of the Collection System Operations and Maintenance Division and the Construction and Water Distribution Division. The Collection System Operations and Maintenance Division maintains the collection systems through regular inspection and cleaning of gravity lines, maintains outfalls, and operates and maintains 148 pump stations. These duties help reduce the frequency and volume of sanitary sewer overflows (SSOs). The Construction and Water Distribution Division repairs breaks to lines, performs locate services, and ensures water quality through regular line flushing.

The Operations – Utility Services budget for FY 18-19 is \$9,389,317, or 11.48% of the total FY 18-19 operating budget. Of the total division budget, \$5,806,732 (or 61.8%) is budgeted to pay salaries and benefits for the division's 90 full-time equivalent positions. The remaining \$3,582,585 (or 38.2%) is budgeted for various expenditures including contracted service for odor and corrosion control and root control, pump replacement, electricity for pump stations, fuel for service vehicles and generators, materials costs for line and pump station repairs, maintenance costs for CCTV inspection equipment, and contracted surveying and clearing services for right-of-way maintenance.

DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS								
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
Water Quality	Optimize levels of residual chlorine to ensure water quality	1.A	12-month rolling percentage of routine distribution sampling events where additional corrective flushing is required	10%	Current Year: Not previously tracked Prior Year: Not previously tracked			
	Strategies/Initiatives t • Minimize ove	_	d Performance:					

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance	
		eduled flushing en valves on regula	ır basis			
	Minimize the number of water quality	1.C	12-month rolling number of	3	Current Year: 4.16	
	complaints		complaints per thousand customer accounts		Prior Year: 5.14	
	Improve cust		heduled system-wide flu education	ıshing		
Locate Services	Minimize time to complete locate work orders	1.C	Average time to complete locate work orders per	30	Current Year: 28.4 Prior Year:	
	Work orders		month (in minutes)		24.3	
				Ratio of completed locates to new locates (rolling 12-months)	1:1	Current Year: Not previously tracked
			monutary		Prior Year: Not previously tracked	
	Strategies/Initiatives t	_	-			
	 Ensure infras 	tructure is docume			ial locates	
Collections System Maintenance	Optimize daily locate assign Minimize the number of sanitary sewer overflows through	_		25.5	Current Year: 62.94	
continuous maintenance					Prior Year: 53.88	
			12-month rolling number of miles of	87	Current Year: 132.02	
			gravity mains cleaned		Prior Year: 107.87	

Minimize the number of sanitary sewer overflows by reducing response times through inspections and clearing of easements and right of ways to insure proper access is available.	1.A	12-month rolling number of miles of outfall easements cleared	18.75	Current Year: 20.49 Prior Year: 9.95			
clearing of easements and right of ways to insure proper access is							
Strategies/Initiatives to Achieve Targeted Performance: Continue to perform regular easement/outfall inspections Continue to perform a risk-based schedule for clearing and maintaining easements/outfalls Leverage the latest technologies to efficiently conduct inspections and maintenance							
Minimize the number of sanitary sewer overflows through weekly inspections and preventive	1.A	Number of weekly pump station inspections completed as percentage of total	pump station inspections completed as	Current Year: 100%			
maintenance, combined with remote monitoring to insure timely response and corrective maintenance.		scheduled inspections		Prior Year: 100%			
c c v a r c r t r c r	• Continue to p • Leverage the Minimize the number of sanitary sewer overflows through weekly inspections and preventive maintenance, combined with remote monitoring to insure timely esponse and corrective maintenance. Strategies/Initiatives to	Continue to perform a risk-based Leverage the latest technologies Minimize the number of sanitary sewer overflows through weekly inspections and preventive maintenance, combined with remote monitoring to insure timely esponse and corrective maintenance. Strategies/Initiatives to Achieve Targeted Output Description: 1.A 1.A 1.A 1.A 2.A 2.A 3.A 4.A 4.A 4.A 4.A 4.A 4.A 4	Continue to perform a risk-based schedule for clearing of Leverage the latest technologies to efficiently conduct in Minimize the number of sanitary sewer overflows through weekly inspections and preventive maintenance, combined with remote monitoring to insure timely esponse and corrective maintenance. Strategies/Initiatives to Achieve Targeted Performance:	 Continue to perform a risk-based schedule for clearing and maintaining eas Leverage the latest technologies to efficiently conduct inspections and main Minimize the number of sanitary sewer Dumber of weekly pump station inspections Descriptions completed as percentage of total scheduled inspections Descriptions combined with emote monitoring or insure timely response and corrective maintenance. 			

OPERATIONS – WATER TREATMENT

Water Resources Manager, John F. Malone

The Water Treatment Division processes source water from the Cape Fear River and confined aquifers to distribute clean, treated drinking water through three different systems within New Hanover County. A staff of state-certified treatment operators and a team of skilled maintenance technicians keep all facilities operational 24 hours per day, seven days per week to ensure that a supply of safe drinking water is available for customers of the Authority.

The Operations – Water Treatment budget for FY 18-19 is \$7,163,778, or 8.76% of the total FY 18-19 operating budget. Of the total division budget, \$1,866,351 (or 26.1%) is budgeted to pay salaries and benefits for the division's 27 full-time equivalent positions. The remaining \$5,297,427 (or 73.9%) is

budgeted for various expenditures including electricity and chemicals used in the treatment process, the purchase of raw water, residuals disposal, maintenance and instrumentation contracts, plant maintenance, and equipment replacement.

DEPARTME	DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
Water Treatment	Ensure that treated water complies with all regulatory requirements Strategies/Initiatives to	1.A o Achieve Targeted	Monthly number of individual compliance measurements outside permit limits as a percentage of total compliance measurements Performance:	0%	Current Year: 0% Prior Year: 0%			
	 Continuously monitor process data to optimize processes and achieve desired levels Regularly inspect and maintain equipment 							
	Optimize plant processes to minimize turbidity	1.A	Monthly percentage of turbidity tests that are at or below .1 NTU target	95%	Current Year: 100% Prior Year: 100%			
	· ·	_	Performance: a to optimize processes	and achieve desired	l levels			

OPERATIONS – WASTEWATER TREATMENT

Wastewater Treatment Superintendent, Milton Vann

The Wastewater Treatment Division manages the operation and maintenance of the Authority's two wastewater treatment plants (WWTPs): Northside (NSWWTP) and Southside (SSWWTP). The Walnut Hills WWTP ceased operation on June 30, 2016 with tributary flow redirected to the NSWWTP. These facilities have received diligent operation and maintenance attention, exhibited exemplary regulatory permit compliance, and observed strict compliance with the approved budget.

The Staff has participated in many Cape Fear Public Utility Authority program initiatives including: asset management, SCADA master planning, centralized maintenance, contingency emergency generator connection provisions and treatment chemical bidding and award. The Staff has maintained high training and certification standards, including operator, backflow prevention, and pesticide application certifications.

A significant accomplishment was realized with the procurement of contracted residuals management services. This contract covers various aspects of CFPUA's residuals management program from January 1, 2017 through December 31, 2019 with two possible one-year renewal options extending the contract period to December 31, 2021.

The Operations – Wastewater Treatment budget for FY 18-19 is \$4,304,456, or 5.27% of the total FY 18-19 operating budget. Of the total division budget, \$1,912,516 (or 44.4%) is budgeted to pay salaries and benefits for the division's 29 full-time equivalent positions. The remaining \$2,391,940 (or 55.6%) is budgeted for various expenditures including electricity and chemicals used in the treatment process, the disposal of wastewater residuals, plant maintenance, and equipment replacement.

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance
complies wi permit requiremen Optimize por removal to labove comprequiremen		1.A	Monthly number of individual compliance measurements	0%	Current Year: .005%
	permit requirements		above permit limits as a percentage of total compliance measurements		Prior Year: .02%
	Optimize pollutant removal to levels above compliance requirements to minimize the impact	1.A	Monthly percentage of BOD loading removed above allowable pollutant loading	Northside/Southside: 85%/80%	Current Year: 91%/77%
					Prior Year: 73%/78%
	on the environment	1.A	Monthly percentage of TSS	Northside/Southside: 98%/85%	Current Year: 100%/87%
			loading removed above allowable pollutant loading		Prior Year: 99.5%85%
		1.A	Monthly percentage of	Northside Only: 95%	Current Year: 94%
			ammonia loading removed above allowable pollutant loading		Prior Year: 96%

ENVIRONMENTAL MANAGEMENT/SAFETY

Environmental Management Director, Beth Eckert

The Environmental and Safety Management Department supports the core mission of the Authority through operational and administrative activities of five divisions: Laboratory Services, Community Compliance, Emergency Response and Security Management, Environmental Management, and Safety Management.

- Laboratory Services provides critical operational and compliance lab data daily to support operation of both the water and wastewater systems.
- Community Compliance ensures proper implementation of the Sewer Use and Cross Connection
 control ordinances to help prevent treatment disruptions at the wastewater treatment plants and
 eliminate sanitary sewer overflows. The oversight of the cross-connection program helps ensure
 protection of public health and drinking water quality by minimizing system vulnerabilities that
 could allow system contamination.
- Emergency Response and Security Management works with staff in each department and other
 agencies to identify system threats and vulnerabilities and to develop and implement plans and
 training opportunities to mitigate and respond to risk.
- Environmental Management supports compliance efforts and activities to drive continual improvement and environmental stewardship. This area works with staff and other environmental agencies to formalize processes and programs, ensure training and perform compliance audits and identify opportunities for improvement. Safety Management works with staff and OSHA to ensure safe work practices meet or exceed safety requirements. These programs ensure staff are performing their work safely.

The Environmental Management/Safety Department budget for FY 18-19 is \$2,723,121, or 3.33% of the total FY 18-19 operating budget. Of the total departmental budget, \$2,078,776 (or 76.3%) is budgeted to pay salaries and benefits for the department's 28.75 full-time equivalent positions. The remaining \$644,345 (or 27.3%) is budgeted for various expenditures including the cost of chemicals and supplies for in-house lab testing, third party lab testing services, maintenance agreements on lab equipment, and employee safety training.

DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance		
Laboratory Services	Provide accurate and timely data to fully support the safe and	2.C	3-month rolling number of lab tests requiring	0%	Current Year: 0%		

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance
	optimal treatment of water and wastewater provided to our customers		qualification as a percentage of total lab tests		Prior Year: Not previously tracked
			3-month rolling number of samples completed on	100%	Current Year: 100%
			schedule as a percentage of total scheduled samples		Prior Year: 100%
	Strategies/Initiatives to	o Achieve Targeted	l Performance:		
	Ensure proper	r training of all labo	oratory staff in sampling	procedures	
	Maintain dialFurther reseadata and repo	ogue with the regu rch laboratory info orting more effectiv	ly plan sampling routes latory bodies to ensure p rmation management sy yely and perform a busin	stems that will help ess case evaluation	manage the lab to determine if it is
Cit			our size and complexity		
Community Compliance	Minimize threats to ensure system integrity to control costs, protect system	2.C	12-month rolling number of food service establishments that	99%	Current Year: 99%
	assets, and minimize the impact of the sewer system on the environment including local streams by reducing	oct of the stem on the nent g local	are compliant with FOG ordinance requirements as a percentage of total food service establishments		Prior Year: 99%
	the amount of fats,		12-month rolling	3:1	Current Year:
	oils, grease (FOG) discharged to the		ratio of proactive FOG community	3:1	1.25:1
	sewer system		events to reactive FOG outreach events		Prior Year: Not previously tracked
	Strategies/Initiatives to	o Achieve Targeted	l Performance:		
		od service establish a timely manner on	ments annually any non-compliant even	nts during inspection	S
	 Take appropri 	iate enforcement to	o protect the wastewate	r system	
		-	areas where high amoun		ged and identify
			e and educate the public		
	Increase the l	evel of community	outreach regarding bene	efits to the region or	FOG reduction
	Ensure the protection of the water system from cross	2.C	Rolling 12-month number of backflow preventers in	85%	Current Year: 80%

Domain	Departmental	Strategic	Performance	Targeted	Current/Prior
	Objective	Goal	Metric	Performance	Year Performance
			testing requirements as a percentage of total backflow preventers		Prior Year: 80%
	requirements redeveloped. • Ensure all ren requirements	erations, enginee are identified and ninder letters go d		ties are developed and one of the developed and one to customers of the developed and the developed an	nd /or of testing
Safety Management	communication Minimize the number of workplace accidents	ons 1.B	12-month rolling number of reportable accidents	0	Current Year: 22 Prior Year: 19
	and progress Perform a gal and timeline to Improve train more buy-in a	thly with departm within each area o analysis of each to resolve each ga ing efforts on the and drives a positi	ent directors of each area area for safety items and	work with each are	a to develop a plan
Emergency Response & Security Management	Optimize the resiliency of the organization and its ability to respond to unplanned events	2.C	NIMS training completion rate	90%	Current Year: 79% Prior Year: Not previously tracked
unplanned events			Percentage of total staff that participated in at least one emergency exercise or drill during the	75%	Current Year: Not previously tracked Prior Year: Not previously
	attendance • Work with loo provide more	w hires and each cal stakeholders a training opportui	department director to so nd NIMS instructors along nities.	g with the local comi	munity college to
	year • Continue wor		training of staff on emerg artment of homeland sect		

DEPARTME	DEPARTMENTAL OBJECTIVES AND PERFORMANCE METRICS							
Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance			
		mbership in Water IS in identifying vulner						
Environmental Management	Expand the scope of the Environmental Management System to fully support and drive an overall continual improvement culture with respect to environmental management	1.A	Percentage of organization that is fully operating within the ISO 14001 framework	75%	Current Year: 32% Prior Year: 32%			
	Strategies/Initiatives to Achieve Targeted Performance: Continue to educate departments on the EMS and its benefits Work with each group to fill the gaps in procedure development Work with each group to customize as much as possible the elements of the EMS to promote and drive continual improvement, environmental stewardship, and communication among various greas.							

CUSTOMER SERVICE

Customer Service Director, Kristi Irick

The Customer Service Department is responsible for customer service related functions including reading and maintaining meter services, billing customer accounts, addressing customer concerns and collecting on customer accounts. In addition, Customer Service bills for miscellaneous receivables and processes payments for service through multiple payment channels. There are two customer service locations and a call center staffed to address customer inquiries in an efficient and timely manner. The Department's objective is to provide an exceptional customer experience by meeting our customers' needs through timely response, effective service and managed financial costs.

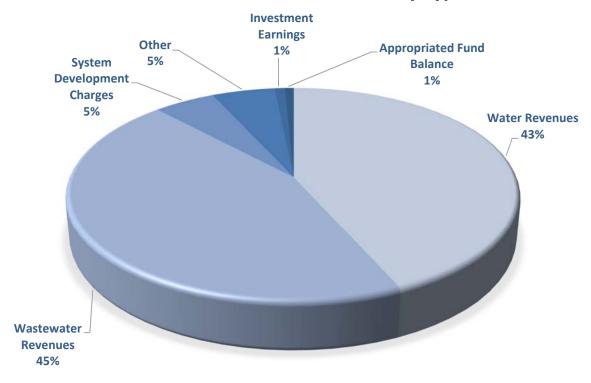
The Customer Service Department budget for FY 18-19 is \$4,163,730, or 5.09% of the total FY 18-19 operating budget. Of the total departmental budget, \$3,318,813 (or 79.7%) is budgeted to pay salaries and benefits for the department's 57 full-time equivalent positions. The remaining \$844,917 (or 20.3%) is budgeted for various expenditures including contracted services for utility bill printing and mailing, materials to repair/replace water meters, licenses for automatic meter reading software, fuel for meter reading vehicles, fees to third-party collections agencies, and annual fees for the interactive voice response system.

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year Performance
Administration	Process leak adjustments timely	1.C	2-month rolling average days to process leak adjustments	14	Current Year: Not previously tracked Prior Year: Not previously tracked
	Strategies/Initiatives t • Provide timel	_	e <mark>d Performance:</mark> tomer requests for adjustn	nent consideration	
0	Produce accurate and timely bills	3.C	3-month rolling number of cancel/rebills as a	96%	Current Year: 98.5%
			percentage of total bills		Prior Year: 99.2%
		Percentage of accounts billed	5%	Current Year: 2.4%	
			outside billing schedule		Prior Year: 3.3%
Service i	 Leverage tech 		in reports ixed, recurring bill schedule ccurate billing statements Monthly call abandon rate	es and to define bille	Current Year: 23.12%
					Prior Year: 14.30%
			Monthly average 5 hold time	5	Current Year: 5.1
					Prior Year: Not previously tracked
			Monthly average talk time in minutes	5	Current Year: 5.35
					Prior Year: 5.17
	Right-size cus volume of cus	site navigation to tomer service sta stomer inquiries	ed Performance: o maximize customer self-s ffing and size/ number of orts for customer service s	communication cha	nnels to the

Domain	Departmental Objective	Strategic Goal	Performance Metric	Targeted Performance	Current/Prior Year
					Performance
	Leverage tech	hnology such as v	irtual hold		
	Accurately apply payments to customer accounts	1.C	Monthly number of payment corrections as	<.05%	Current Year: Not previously tracked
			percentage of total payments processed		Prior Year: Not previously tracked
	Strategies/Initiatives t Ensure inform	_	ed Performance: correct so that payments	are not misapplied	or incorrectly
Minimize delinquent balances	2.A	Dollar amount of utility billing receivables that are greater than 90	<35%	Current Year: 31.3%	
		days delinquent as a percentage of the total dollar value of utility billing receivables		Prior Year: 28.2%	
	Strategies/Initiatives t	o Achieve Target		ı	
	tools/recours	ie	ations to existing ordinanc		iximize collection
		1	hnologies available to cust		0
Meter Services	Produce accurate and timely meter readings	1.C, 2.A	Monthly number of meter re-reads where there was a	99.1%	Current Year: 99.73%
			discrepancy as a percentage of total reads		Prior Year: 99.55%
	Strategies/Initiatives t • Leverage aut		ed Performance: ding technology to collect	timely meter readin	gs
	Minimize the time to complete meter	1.C, 2.B	18-month rolling average number of	60	Current Year: 42.6
	services work orders		days to complete stuck/damaged meter work orders		Prior Year: 22.7
			2-month rolling average number of	7	Current Year: 6.25
		days to complete new meter set work		Prior Year: Not previously	

The Authority sets rates, fees and charges with oversight, supervision, or direction from the Board. The Authority's operations, capital improvement program and debt payments are funded almost entirely through rates, fees and other charges for these water and wastewater services, with occasional grants from the state or federal governments and contributions from the City, the County or other entities.

Fiscal Year 2018-2019 Revenues by Type

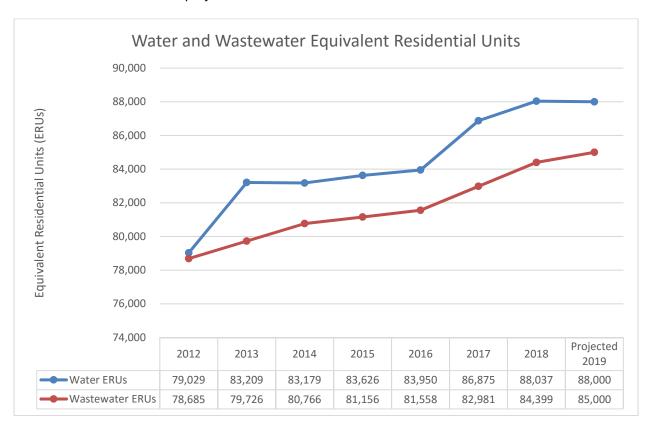


Water and Wastewater Revenues

Most of the Authority's revenues (88%) are generated by charges for water and wastewater service. As shown above, in FY 18-19, 43% of total budgeted revenue is anticipated from water services and 45% of total budgeted revenue is anticipated from wastewater services. The existing water and wastewater rates consist of 1) fixed meter charges that designate the minimum amount a customer will pay regardless of consumption and 2) volumetric charges per 1,000 gallons based upon the amount of metered water flow. Water rate revenues are anticipated to total \$35.4 million (\$14.5 million – fixed and \$20.9 million – volumetric) while wastewater revenues are anticipated to total \$36.5 million (\$14.8 million – fixed and \$21.7 million – volumetric).

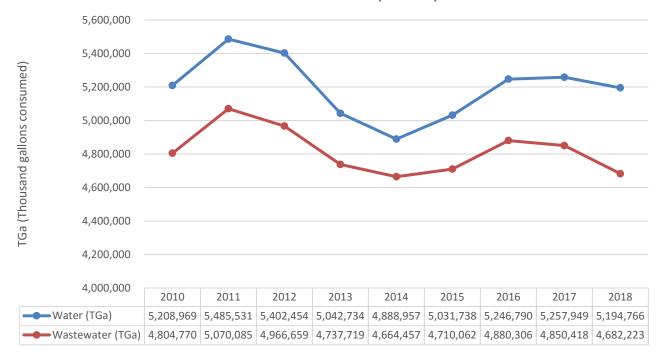
Water and wastewater fixed charges are developed to recover the greater of debt service allocable to water and wastewater or 35% of the operating budget allocable to water and wastewater. This policy exists for two reasons: 1) to guarantee that sufficient amounts are available to pay debt service irrespective of consumption and 2) in periods in which annual debt service requirements are declining, to ensure that the Authority's revenues are insulated from significant decreases in water and wastewater consumption.

The fixed meter charges are incremented such that customers with larger water meter sizes pay a higher fixed charge. Fixed meter charges are calculated based on the number of equivalent residential units (ERUs), which expresses the number of accounts as if each customer were a residential customer. ERUs assumed for the FY 18-19 budget are based on recent actual counts. The graph below depicts the actual ERUs since FY 11-12 and the projected ERUs for FY 18-19 for water and wastewater.

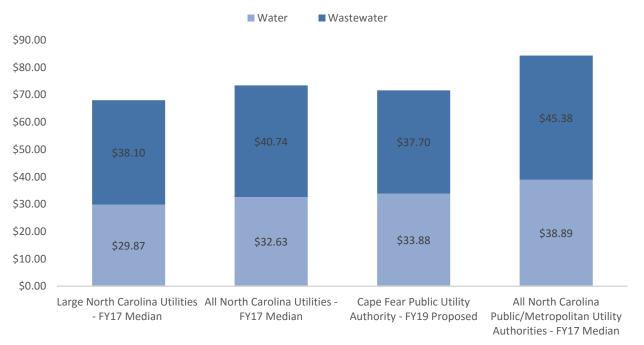


The volumetric charge utilizes a uniform rate structure such that the rate per 1,000 gallons remains constant for all levels of consumption. Volumetric charges are developed to recover operating costs allocated to water and wastewater, respectively, that aren't recovered from fixed charges and other revenues. The remaining allocated cost pools for water and wastewater are divided by projected water and wastewater consumption. Consumption projections for FY 18-19 are equal to actual FY 17-18 consumption projected through the end of fiscal year. The graph on the following page depicts the actual calendar year consumption since 2010.

Water and Wastewater Consumption by Fiscal Year



Median Monthly Residential Water and Sewer Bill



Source: Environmental Finance Center, Water and Wastewater Rates and Rate Structures in North Carolina, 2017

The table below compares the FY18-19 fixed and volumetric charges for water and wastewater to the rates in effect for FY 17-18.

			4	
	FY 18-19	FY 17-18	\$ Difference	% Difference
Water:				
Fixed	\$27.56	\$26.67	\$0.89	3.3%
Volumetric	\$4.02	\$3.85	\$0.17	4.4%
Wastewater:				
Fixed	\$29.10	\$29.10	-	-
Volumetric	\$4.63	\$4.58	\$0.05	1.1%

Assuming monthly consumption of 5,000 gallons, a residential customer will pay \$71.58 per month (\$143.16 every two months) in FY 18-19. The graph on the previous page compares the Authority's monthly residential water and wastewater bills to those of other North Carolina public water and wastewater utilities in effect for FY 16-17. Although the Authority bills customers every two months, monthly bill amounts were calculated for purposes of comparability.

The peer groups for bill comparison include all North Carolina public water and wastewater utilities, large North Carolina public water and wastewater utilities (defined as those utilities with more than 25,000 customer accounts), and all North Carolina public/metropolitan public utility authorities. The median monthly bills for the peer groups are based on rates in effect for FY 16-17. The amounts presented for the Authority are based on rates for FY 18-19. The Authority's average monthly residential bill compares favorably to the median bills for each of the peer groups. The total monthly residential bill is lower than the median bills for all North Carolina public utilities and the North Carolina public/metropolitan utility authorities and 5.3% higher than the median bill for large North Carolina Utilities. The Authority's monthly residential wastewater bill is lower than the median monthly residential wastewater bills for each peer group, while the Authority's monthly residential water bill is higher than the median bill for all peer groups except for all North Carolina Public/Metropolitan Utility Authorities.

System Development Charges

The system development charge is the upfront contribution that a new customer pays to buy into infrastructure that will benefit the new customer that has been paid for with past rate collections. Rate payer equity is calculated by reducing the depreciated value of infrastructure by amounts that were not paid by past rate payers including the outstanding balance of debt issued to acquire or construct the infrastructure, conveyed infrastructure, grant funding, and cash contributions from developers and governmental entities. Rate payer equity is then allocated between water and wastewater in proportion to cumulative capital investment in the water and wastewater systems. These allocations are then divided by the number of equivalent residential units projected for water and sewer for the upcoming fiscal year.

The system development charges are applied based on the size of the water meter for the new connection and are scaled for larger connection sizes. System development charges for FY 18-19 are \$1,830 and \$1,800 for water and wastewater, respectively. System development charges are anticipated to comprise 5% of the Authority's operating revenues for FY 17-18.

Other Charges for Service

Other charges for service account for 5% of total budgeted revenues. Other charges include penalties and late fees, application and premise visit fees, meter fees and tap fees. Budgeted amounts are based on historical averages adjusted for current trends.

Investment Earnings

Investment earnings are budgeted at \$700,000 in FY 18-19 which is approximately 1% of total budgeted revenue. Maintaining investment earnings at levels experienced in previous fiscal years will be a challenge as available cash and investment balances are spent down to fund the capital program in accordance with the Authority's recently adopted liquidity and reserve policy. Staff is planning to implement procedures to forecast cash flows to maximize the dollars that can be invested in longer-term, higher-yielding investments that comply with State laws to ensure safety and liquidity.

Appropriated Fund Balance

Upon inception of the Authority, the City of Wilmington and New Hanover County transferred funds that were explicitly designated for funding post-employment health insurance benefits to legacy employees. The FY 18-19 Budget includes an estimated use of \$600,000 of appropriated fund balance to fund appropriations related to the provision of retiree health insurance benefits.

PROJECTED CHANGES IN NET POSITION

The Authority is a stand-alone enterprise in which the cost of service is recovered exclusively through customer rates and charges. Consequently, the most meaningful measure of financial position for the Authority's operations is equity, or net position. This measure represents the extent to which the Authority's assets and deferred outflows of resources exceed its liabilities and deferred inflows of resources on the full accrual basis of accounting similar to a private company.

Net position is composed of three components: 1) net investment in capital assets, 2) restricted net position, and 3) unrestricted net position. Net position in capital assets is the depreciated historical cost of system assets less the outstanding balance of debt used to acquire/construct those assets. Consequently, these amounts are not available to meet the Authority's ongoing obligations. Restricted net position consists of those resources that are restricted through law or by outside parties for a particular purpose. The Authority's remaining net position is unrestricted and can be used to satisfy the Authority's ongoing obligations including debt service, normal operating expenses, and for the acquisition of capital assets.

The following bar chart shows the components of the Authority's net position since FY 14-15 and projected through FY 18-19.

\$500.0 \$443.7 \$450.0 \$407.6 \$391.2 \$400.0 \$359.1 \$335.2 \$350.0 \$150.0 \$122.8 \$113.9 \$113.3 \$108.7 \$97.1 \$100.0 \$50.0 \$16.4 \$16.3 \$11.0 \$2.9 \$0.0 \$0.0 2015 2016 2017 2018 Projected 2019 Projected

Trends in Net Position

Unrestricted

Restricted

■ Net Investment in Capital Assets

PROJECTED CHANGES IN NET POSITION

The main driver of the Authority's net position is the way in which the Authority's capital program is funded. Funding capital improvements with revenues increases net position, while funding capital improvements with debt has no effect on net position. These changes are reflected in changes to the net investment in capital assets. As the chart demonstrates, the Authority's net investment in capital assets is projected to increase to \$443.7 million by the end of FY 18-19. This increase is due to funding capital improvements with rates collected in the current year and unrestricted net position while the related debt balance is projected to decrease as scheduled principal payments are made with no new planned issuance. The Authority's restricted net position increased from \$2.9 million in FY 15-16 to \$11.0 million in FY 16-17 as resources were accumulated with a trustee equal to 1/6th of the Authority's next interest payment and 1/12th of the Authority's next principal payment on its outstanding revenue bonds. Restricted net position is projected to increase by \$5.2 million which is equal to the FY 16-17 operating surplus that was officially designated as a capital reserve for the Southside Wastewater Treatment Plant Capacity Upgrade project that is scheduled to start in FY 34-35. Unrestricted net position is projected to decrease to \$97.1 million by the end of FY 18-19. This decrease is a consequence of the Authority's debt policies. As debt is limited and less of the capital improvement program is funded with debt, rates will be gradually increased through FY 22-23 to fund \$18 million in capital expenditures per year. In the meantime, unrestricted resources will gradually be spent down to targeted levels to fund the Authority's capital improvement program.

CAPE FEAR PUBLIC UTILITY AUTHORITY FY 18-19

				0	PE	RATING BUI	DO	GET SUMI	MΑ	RY							
(Budgetary Basis)																	
	CFPUA FY 15-16					CFPUA FY 16-17		CFPUA FY 16-17		CFPUA FY 17-18		CFPUA FY 17-18 mendments &		CFPUA FY 17-18	CFPUA FY 17-18		CFPUA FY 18-19
	Adjusted Budget			Actual Adju		justed Budget		Actual		Adopted Budget		Transfers	Adj	justed Budget	Projected	Adopted Budg	
APPROPRIATIONS																	
Operating Expenditures Non-Departmental	\$	37,091,146 2,398,500	\$	33,777,917 2,140,026	\$	36,969,097 \$ 2,328,260		34,326,392 2,313,084	\$	37,152,403 2,491,903	\$	915,682 (46,324)	\$	38,068,085 2,445,579	\$ 33,607,070 2,432,122	\$	39,311,736 2,568,810
Contingency		472,000		-		953,000		-		675,000		(606,640)		68,360	-		-
Debt Service & Issuance Costs		35,619,793		34,092,560		24,950,053		24,022,711		24,292,749		79,382		24,372,131	24,372,131		23,178,918
Payment to Refunded Bond Escrow Agent	1	187,785,880		187,785,880		-		-		-		33,960,000		33,960,000	32,729,050		-
Transfer to Capital Projects		16,233,854		16,233,854		16,430,910		16,430,910		14,906,616		5,159,998		20,066,614	20,066,614		16,695,665
Total Appropriations	2	279,601,173		274,030,237		81,631,320		77,093,097		79,518,671		39,462,098		118,980,769	113,206,987		81,755,129
REVENUES & OTHER FINANCING SOURCES																	
Water Revenues	\$	30,887,000	\$	31,830,526	\$	31,063,342 \$		29,625,368	\$	33,791,230	\$	-	\$	33,791,230	\$ 33,791,230	\$	35,434,638
Wastewater Revenues		33,637,000		34,833,445		34,053,524		32,918,776		35,986,641		-		35,986,641	35,986,641		36,519,691
System Development Charges		5,545,400		6,068,284		3,600,000		6,277,464		4,000,000		62,000		4,062,000	4,941,647		4,200,000
Investment Earnings		2,794,710		3,267,763		434,000		652,859		700,000		20,000		4,520,800	4,931,319		4,300,800
Operating Grants		-		-		-		220,254		-		-		700,000	1,120,544		700,000
Appropriated Fund Balance		17,895,818		-		6,257,754		-		540,000		5,180,098		5,720,098	-		600,000
Sale of Capital Assets		90,521		172,740		-		92,023		-		-		-	70,956		-
Proceeds from Debt Issuance	1	183,750,224		183,000,224		690,000		-		-		34,200,000		34,200,000	32,890,000		-
Other Revenues		5,000,500		5,996,643		5,532,700		6,844,728		4,500,800							
Total Revenues	\$ 2	279,601,173	\$	265,169,624	\$	81,631,320 \$		76,631,471	\$	79,518,671	\$	39,462,098	\$	118,980,769	\$ 113,732,337	\$	81,755,129
Revenues Over/(Under) Appropriations	\$	-	\$	(8,860,613)	\$	- \$		(461,626)	\$	-	\$	-	\$	-	\$ 525,350	\$	-

CAPE FEAR PUBLIC UTILITY AUTHORITY FY 18-19

	SIAIEW	ENT O	F REVENUES	-		ANGES IN FUN	ID BALANCE						
(Budgetary Basis)													
	CFPU	4	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA			
	FY 15-	FY 15-16 Adjusted Budget		FY 15-16	FY 16-17	FY 17-18	FY 17-18 Amendments &	FY 17-18 Adjusted	FY 15-16	FY 18-19			
	Adjusted			Adjusted Budget	Actual	Adopted Budget	Transfers	Budget	Projected	Adopted Budget			
REVENUES AND OTHER FINANCING SOURCES													
Operating Revenues													
Water Revenues	\$ 30.8	37,000	\$ 31,830,526	\$ 31,063,342	\$ 29,625,368	\$ 33,791,230	\$ -	\$ 33,791,230	\$ 33,791,230	\$ 35,434,63			
Wastewater Revenues		37,000	34,833,445	34,053,524	32,918,776	35,986,641		35,986,641	35,986,641	36,519,69			
Investment Earnings	·	94,710	3,267,763	434,000	652,859	700,000	-	700,000	1,120,544	700,00			
System Development Charges	5,5	15,400	6,068,284	3,600,000	6,277,464	4,000,000	62,000	4,062,000	4,941,647	4,200,00			
Other Revenues	5,0	00,500	5,996,643	5,532,700	7,064,982	4,500,800	20,000	4,520,800	4,931,319	4,300,80			
Total Revenues	77,8	64,610	81,996,661	74,683,566	76,539,449	78,978,671	82,000	79,060,671	80,771,381	81,155,12			
Other Financing Sources													
Sale of Capital Assets		90,521	172,740	-	92,023	-	-	-	70,956				
Proceeds from Debt Issuance	183,7	50,224	183,000,224	690,000	-	-	34,200,000	34,200,000	32,890,000				
Appropriated Fund Balance		95,818	-	6,257,754	-	540,000	5,180,098	5,720,098	-	600,000			
Total Other Financing Sources		36,563	183,172,964	6,947,754	92,023	540,000	39,380,098	39,920,098	32,960,956	600,000			
T-1-1 D-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	ć 270.6		^ 26F 460 62F										
Total Revenues and Other Financing Sources	\$ 279,6	01,173	\$ 265,169,625	\$ 81,631,320	\$ 76,631,472	\$ 79,518,671	\$ 39,462,098	\$ 118,980,769	\$ 113,732,337	\$ 81,755,129			
-	\$ 279,6	01,1/3	\$ 265,169,625	\$ 81,631,320	\$ 76,631,472	\$ 79,518,671	\$ 39,462,098	\$ 118,980,769	\$ 113,732,337	\$ 81,755,129			
EXPENDITURES AND OTHER FINANCING USES	\$ 279,6	01,1/3	\$ 265,169,625	\$ 81,631,320	\$ 76,631,472	\$ 79,518,671	\$ 39,462,098	\$ 118,980,769	\$ 113,732,337	\$ 81,755,129			
-					\$ 76,631,472	\$ 79,518,671				\$ 81,755,12			
EXPENDITURES AND OTHER FINANCING USES	\$ 279,6	56,543						\$ 118,980,769					
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures	\$												
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board	\$ \$	56,543	\$ 57,731	\$ 66,106	\$ 59,766	\$ 62,371	\$ -	\$ 62,371	\$ 53,624	\$ 64,710			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration	\$ 8	56,543 31,105	\$ 57,731 749,142	\$ 66,106 857,121	\$ 59,766 809,194	\$ 62,371 739,980	\$ - 382,982	\$ 62,371 1,122,962	\$ 53,624 1,096,053	\$ 64,710 1,156,590			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance	\$ 8	56,543 31,105 30,270	\$ 57,731 749,142 1,022,547	\$ 66,106 857,121 1,097,280	\$ 59,766 809,194 1,064,078	\$ 62,371 739,980 1,138,109	\$ - 382,982 58,800	\$ 62,371 1,122,962 1,196,909	\$ 53,624 1,096,053 1,086,822	\$ 64,71 1,156,59 1,223,69			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources	\$ 8 1,1	56,543 31,105 30,270	\$ 57,731 749,142 1,022,547	\$ 66,106 857,121 1,097,280	\$ 59,766 809,194 1,064,078	\$ 62,371 739,980 1,138,109	\$ - 382,982 58,800 5,565	\$ 62,371 1,122,962 1,196,909 533,379	\$ 53,624 1,096,053 1,086,822 485,718	\$ 64,71 1,156,59 1,223,69 553,18 283,72			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy	\$ 8 1,1 6 1,5	56,543 31,105 80,270 57,023	\$ 57,731 749,142 1,022,547 620,185	\$ 66,106 857,121 1,097,280 659,207	\$ 59,766 809,194 1,064,078 621,402	\$ 62,371 739,980 1,138,109 527,814	\$ - 382,982 58,800 5,565 80,955	\$ 62,371 1,122,962 1,196,909 533,379 80,955	\$ 53,624 1,096,053 1,086,822 485,718 21,400	\$ 64,71 1,156,59 1,223,69 553,18			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology	\$ 8 1,1 6 1,5 2,3	56,543 31,105 80,270 57,023 -	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163	\$ - 382,982 58,800 5,565 80,955 8,455	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering	\$ 8 1,1 6 1,5 2,3 2,3	56,543 31,105 30,270 57,023 - 38,466 73,530	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826	\$ - 382,982 58,800 5,565 80,955 8,455 3,000	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance	\$ 1,1 6 1,5 2,3 2,3	56,543 31,105 30,270 57,023 - 38,466 73,530 29,842	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration	\$ 1,1 6 1,5 2,3 2,3 4 6,6	566,543 31,105 30,270 57,023 - 38,466 73,530 29,842	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment	\$ 1,1 6 1,5 2,3 2,3 4 6,6 4,0	566,543 31,105 30,270 57,023 - 38,466 73,530 29,842 00,711	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment	\$ 1,1 6 1,5 2,3 2,3 4 6,6 4,0 9,6	56,543 31,105 30,270 57,023 - 38,466 73,530 29,842 00,711 15,116 72,554	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247)	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45 9,389,31			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment Operations - Utility Services	\$ 1,1,5 2,3 2,3 4 6,6 4,0 9,6 2,3	56,543 31,105 30,270 57,023 - 38,466 73,530 29,842 00,711 15,116 72,554 50,585	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059 8,239,042	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545 9,902,694	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695 8,662,732	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199 9,241,363	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247) (1,733)	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952 9,239,630	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608 8,113,418	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45 9,389,31 2,723,12			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment Operations - Utility Services Environment Management	\$ 1,1,5 2,3 2,3 4 6,6 4,0 9,6 2,3	56,543 31,105 30,270 57,023 - 38,466 73,530 29,842 00,711 15,116 72,554 50,585 23,644	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059 8,239,042 2,189,349	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545 9,902,694 2,367,914	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695 8,662,732 2,255,303	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199 9,241,363 2,665,826 4,062,825	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247) (1,733) 72,301	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952 9,239,630 2,738,127	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608 8,113,418 2,545,803	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45 9,389,31 2,723,12			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment Operations - Utility Services Environment Management Customer Service	\$ 1,1,5 2,3 2,3 4 6,6 4,0 9,6 2,3 3,6	56,543 81,105 80,270 57,023 - 88,466 73,530 29,842 00,711 15,116 72,554 50,585 23,644 57,368	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059 8,239,042 2,189,349 3,327,976	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545 9,902,694 2,367,914 3,958,046	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695 8,662,732 2,255,303 3,619,731	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199 9,241,363 2,665,826 4,062,825	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247) (1,733) 72,301	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952 9,239,630 2,738,127	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608 8,113,418 2,545,803	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45 9,389,31 2,723,12			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment Operations - Utility Services Environment Management Customer Service Damage Claims	\$ 1,1,5 2,3 2,3 4 6,6 4,0 9,6 2,3 3,6	56,543 31,105 30,270 57,023 - 38,466 73,530 29,842 00,711 15,116 72,554 50,585 23,644 67,368 59,550	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059 8,239,042 2,189,349 3,327,976 3,468	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545 9,902,694 2,367,914 3,958,046 50,000	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695 8,662,732 2,255,303 3,619,731 (370)	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199 9,241,363 2,665,826 4,062,825	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247) (1,733) 72,301	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952 9,239,630 2,738,127	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608 8,113,418 2,545,803	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45 9,389,31 2,723,12			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment Operations - Utility Services Environment Management Customer Service Damage Claims Outside Partnerships	\$ 1,1,5 2,3 2,3 4 6,6 4,0 9,6 2,3 3,6	56,543 31,105 30,270 57,023 - 38,466 73,530 29,842 00,711 15,116 72,554 50,585 23,644 57,368 59,550 32,839	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059 8,239,042 2,189,349 3,327,976 3,468 78,490	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545 9,902,694 2,367,914 3,958,046 50,000 76,650	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695 8,662,732 2,255,303 3,619,731 (370) 69,196	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199 9,241,363 2,665,826 4,062,825	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247) (1,733) 72,301	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952 9,239,630 2,738,127	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608 8,113,418 2,545,803	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45 9,389,31 2,723,12			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment Operations - Utility Services Environment Management Customer Service Damage Claims Outside Partnerships Non-Capital Construction Fines and Penalties	\$ 1,1 2,2 2,3 4 6,6 4,0 9,6 2,3 3,6	56,543 81,105 80,270 57,023 - 88,466 73,530 29,842 00,711 15,116 72,554 50,585 23,644 57,368 59,550 82,839 835,000 26,000	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059 8,239,042 2,189,349 3,327,976 3,468 78,490 164,663	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545 9,902,694 2,367,914 3,958,046 50,000 76,650 298,500 25,132	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695 8,662,732 2,255,303 3,619,731 (370) 69,196 293,107	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199 9,241,363 2,665,826 4,062,825	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247) (1,733) 72,301 52,424	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952 9,239,630 2,738,127	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608 8,113,418 2,545,803 3,590,731	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03 2,703,94 2,796,84 373,62 7,163,77 4,304,45 9,389,31 2,723,12 4,163,73			
EXPENDITURES AND OTHER FINANCING USES Operating Expenditures Authority Board Administration Finance Human Resources Public & Environmental Policy Information Technology Engineering Operations - Centralized Maintenance Operations - Administration Operations - Water Treatment Operations - Wastewater Treatment Operations - Utility Services Environment Management Customer Service Damage Claims Outside Partnerships Non-Capital Construction	\$ 1,1 2,2 2,3 4 6,6 4,0 9,6 2,3 3,6	56,543 31,105 30,270 57,023 - 38,466 73,530 29,842 00,711 15,116 72,554 50,585 23,644 57,368 59,550 32,839 35,000	\$ 57,731 749,142 1,022,547 620,185 - 1,486,683 2,165,691 2,225,301 385,411 6,335,572 3,856,059 8,239,042 2,189,349 3,327,976 3,468 78,490	\$ 66,106 857,121 1,097,280 659,207 - 1,654,523 2,321,163 2,464,404 348,649 6,834,163 3,937,545 9,902,694 2,367,914 3,958,046 50,000 76,650 298,500	\$ 59,766 809,194 1,064,078 621,402 - 1,640,136 2,287,267 2,377,817 336,718 6,388,620 3,791,695 8,662,732 2,255,303 3,619,731 (370) 69,196	\$ 62,371 739,980 1,138,109 527,814 - 1,871,163 2,708,826 2,685,692 362,002 7,009,233 4,077,199 9,241,363 2,665,826 4,062,825 - - -	\$ - 382,982 58,800 5,565 80,955 8,455 3,000 141,721 5,000 192,459 (86,247) (1,733) 72,301	\$ 62,371 1,122,962 1,196,909 533,379 80,955 1,879,618 2,711,826 2,827,413 367,002 7,201,692 3,990,952 9,239,630 2,738,127 4,115,249	\$ 53,624 1,096,053 1,086,822 485,718 21,400 1,789,100 2,455,816 2,680,820 339,790 5,898,367 3,449,608 8,113,418 2,545,803	\$ 64,71 1,156,59 1,223,69 553,18 283,72 2,411,03			

CAPE FEAR PUBLIC UTILITY AUTHORITY FY 18-19

	STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE																
(Budgetary Basis)																	
		CFPUA FY 15-16		CFPUA FY 15-16		CFPUA FY 15-16		CFPUA FY 16-17		CFPUA FY 17-18	F	CFPUA Y 17-18 endments &	F	CFPUA Y 17-18 djusted	CFPUA FY 15-16		CFPUA FY 18-19
	Adj	usted Budget		Actual	A	djusted Budget		Actual	Add	opted Budget	Т	ransfers	Е	Budget	Projected	Add	pted Budget
Total Operating Expenditures Before Debt Service		39,961,646		35,917,945		40,250,357		36,639,476		40,319,306		262,718	4	10,582,024	36,039,192		41,880,546
Debt Service		35,619,793		34,092,560		24,950,053		24,022,711		24,292,749		79,382	2	24,372,131	24,372,131		23,178,918
Other Financing Uses																	
Payment to Refunded Bond Escrow Agent		187,785,880		187,785,880		-		-		-		33,960,000	3	33,960,000	32,729,050		-
Transfers to Capital Project Funds		16,233,854		16,233,854		16,430,910		16,430,910		14,906,616		5,159,998	2	20,066,614	20,066,614		16,695,665
Total Other Financing Uses	·	204,019,734		204,019,734		16,430,910		16,430,910		14,906,616		39,119,998	5	4,026,614	52,795,664		16,695,665
Total Expenditures and Other Financing Uses	\$	279,601,173	\$	274,030,239	\$	81,631,320	\$	77,093,097	\$	79,518,671	\$	39,462,098	\$ 11	18,980,769	\$ 113,206,987	\$	81,755,129
Revenues and Other Sources Over																	
Expenditures and Other Financing Uses		-		(8,860,614)		-		(461,625)		-		_		-	525,350		-
1																	

CAPE FEAR PUBLIC UTILITY AUTHORITY FY 18-19

	CFPUA FY 15-16	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA		
	13-10	FY 15-16	FY 16-17	FY 16-17	FY 17-18	FY 17-18	FY 17-18	FY 17-18	FY 18-19		
	Adjusted Budget	Actual	Adjusted Budget	Actual	Adopted Budget	Amendments & Transfers	Adjusted Budget	Projected	Adopted Budget	% Change - FY19 Budget/FY18 Adopted Budget	
EXPENDITURES BY DEPARTMENT											
Authority Board	\$ 66,543 \$	57,731	\$ 66,106	59,766	\$ 62,371	\$ -	\$ 62,371	\$ 53,624	\$ 64,710	3.75%	
Administration	881,105	749,142	857,121	809,194	739,980	382,982	1,122,962	1,096,053	1,156,590	56.30%	
Finance	1,180,270	1,022,547	1,097,280	1,064,078	1,138,109	58,800	1,196,909	1,086,822	1,223,692	7.52%	
Human Resources	667,023	620,185	659,207	621,402	527,814	5,565	533,379	485,718	553,180	4.819	
Public & Environmental Policy	-	-	· <u>-</u>	-	· -	80,955	80,955	21,400	283,723	100.00%	
Information Technology	1,538,466	1,486,683	1,654,523	1,640,136	1,871,163	8,455	1,879,618	1,789,100	2,411,030	28.85%	
Engineering	2,373,530	2,165,691	2,321,163	2,287,267	2,708,826	3,000	2,711,826	2,455,816	2,703,945	-0.18%	
Operations - Centralized Maintenance	2,329,842	2,225,301	2,464,404	2,377,817	2,685,692	141,721	2,827,413	2,680,820	2,796,844	4.14%	
Operations - Administration	400,711	385,411	348,649	336,718	362,002	5,000	367,002	339,790	373,620	3.21%	
Operations - Water Treatment	6,615,116	6,335,572	6,834,163	6,388,620	7,009,233	192,459	7,201,692	5,898,367	7,163,778	2.20%	
Operations - Wastewater Treatment	4,072,554	3,856,059	3,937,545	3,791,695	4,077,199	(86,247)	3,990,952	3,449,608	4,304,456	5.57%	
Operations - Utility Services	9,650,585	8,239,042	9,902,694	8,662,732	9,241,363	(1,733)	9,239,630	8,113,418	9,389,317	1.60%	
Environment Management	2,323,644	2,189,349	2,367,914	2,255,303	2,665,826	72,301	2,738,127	2,545,803	2,723,121	2.15%	
Customer Service	3,667,368	3,327,976	3,958,046	3,619,731	4,062,825	52,424	4,115,249	3,590,731	4,163,730	2.48%	
Damage Claims	59,550	3,468	50,000	(370)		52,424	-,113,243	3,330,731	-,103,730	0.00%	
Outside Partnerships	82,839	78,490	76,650	69,196	_	_	_	_	_	0.00%	
Non-Capital Construction	285,000	164,663	298,500	293,107	_	_	_	_		0.00%	
Fines and Penalties	26,000	104,003	25,132	255,107						0.00%	
Nondepartmental	2,398,500	2,140,026	2,328,260	2,313,084	2,491,903	(46,324)	2,445,579	2,432,122	2,568,810	3.09%	
•	35,619,793	34,092,560		24,022,711	24,292,749	79,382	24,372,131	24,372,131	23,178,918	-4.59%	
Debt Service, Net	187,785,880	187,785,880	24,950,053	24,022,711	24,292,749		33,960,000	32,729,050	23,170,910	0.00%	
Payment to Refunded Bond Escrow Agent Litigation Settlement	871,000	870,609	50,000	50,000		33,960,000	33,960,000	32,729,030	_	0.00%	
Contingency-Operating	472,000	670,003	953,000	50,000	675,000	(606,640)	68,360	_		-100.00%	
Transfers to Capital Projects	16,233,854	16,233,854	16,430,910	16,430,910	14,906,616	5,159,998	20,066,614	20,066,614	16,695,665	12.00%	
TOTAL	\$ 279,601,173	274.030.239	\$ 81,631,320	77,093,097	\$ 79,518,671	\$ 39.462.098	\$ 118,980,769	\$ 113.206.987	\$ 81,755,129	2.81%	
			<u> </u>		<u> </u>			· · · · · · · · · · · · · · · · · · ·		:	
EXPENDITURES BY CATEGORY											
Salaries & Benefits	\$ 20,194,067 \$	18,843,801	\$ 19,860,705	19,171,589	\$ 21,420,446	\$ (373,936)	\$ 21,046,510	\$ 19,095,010	\$ 22,864,878	6.74%	
Operating	15,196,705	13,583,135	16,049,112	14,232,082	15,731,957	1,193,974	16,925,931	14,476,013	16,446,858	4.54%	
Capital Outlay	375,985	233,753	558,998	510,788	-	95,644	95,644	36,047	-	0.00%	
Damage Claims	59,550	3,468	50,000	(370)	-	-	· <u>-</u>	-	=	0.009	
Outside Partnerships	82,839	78,490	76,650	69,196	_	-	-	-	=	0.00%	
Non-Capital Construction	285,000	164,663	298,500	293,107	_	-	-	-	-	0.00%	
Fines and Penalties	26,000	-	25,132	, _	_	=	_	_	-	0.00%	
Nondepartmental	2,398,500	2,140,026	2,328,260	2,313,084	2,491,903	(46,324)	2,445,579	2,432,122	2,568,810	3.09%	
Debt Service, Net	35,619,793	34,092,560	24,950,053	24,022,711	24,292,749	79,382	24,372,131	24,372,131	23,178,918	-4.59%	
Payment to Refunded Bond Escrow Agent	187,785,880	187,785,880	-	,,	,,	33,960,000	33,960,000	32,729,050	-,	0.00%	
Litigation Settlement	871,000	870,609	50,000	50,000	-			- ,,	-	0.00%	
Contingency-Operating	472,000	-	953,000		675,000	(606,640)	68,360	-	-	-100.00%	
Transfers to Capital Projects	16,233,854	16,233,854	16,430,910	16,430,910	14,906,616	5,159,998	20,066,614	20,066,614	16,695,665	12.00%	
TOTAL	\$ 279,601,173	274 020 220	\$ 81,631,320 \$	77,093,097	\$ 79,518,671	\$ 30.462.000	\$ 118,980,769	\$ 112 206 007	\$ 81,755,129	2.81%	

CAPE FEAR PUBLIC UTILITY AUTHORITY FY 18-19

		Ελ	(PENDITURE	S DETAIL BY	Y DEPARTME	NT				
	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	
	FY 15-16	FY 15-16	FY 16-17	FY 16-17	FY 17-18	FY 17-18	FY 17-18	FY 17-18	FY 18-19	
	Adjusted Budget	Actual	Adjusted Budget	Actual	Adopted Budget	Amendments & Transfers	Adjusted Budget	Projected	Adopted Budget	% Change - FY19 Budget/FY18 Adopted Budget
Authority Board										
Salaries & Benefits	\$ 42,645	\$ 41,614	\$ 44,108	\$ 43,460	\$ 42,635	\$ -	42,635	\$ 40,514	\$ 38,759	-9.099
Operating	23,898	16,117	21,998	16,306	19,736	· -	19,736	13,110	25,951	31.499
Total Authority Board	66,543	57,731	66,106	59,766	62,371	-	62,371	53,624	64,710	3.75
Administration										
Salaries & Benefits	591,705	553,356	505,860	491,721	519,780	(58,802)	460,978	434,069	432,163	-16.86
Operating	289,400	195,786	351,261	317,473	220,200	441,784	661,984	661,984	724,427	228.99
Total Administration	881,105	749,142	857,121	809,194	739,980	382,982	1,122,962	1,096,053	1,156,590	56.30
Finance										
Salaries & Benefits	1,137,350	990,431	1,032,080	1,012,118	1,057,277	(4,000)	1,053,277	965,568	1,071,960	1.39
Operating	42,920	32,115	65,200	51,960	80,832	62,800	143,632	121,254	151,732	87.71
Total Finance	1,180,270	1,022,547	1,097,280	1,064,078	1,138,109	58,800	1,196,909	1,086,822	1,223,692	7.52
Human Resources										
Salaries & Benefits	470,970	460,228	516,647	494,603	407,288	2,025	409,313	382,555	423,805	4.06
Operating	196,053	159,957	142,560	126,799	120,526	3,540	124,066	103,163	129,375	7.34
Total Human Resources	667,023	620,185	659,207	621,402	527,814	5,565	533,379	485,718	553,180	4.81
Public & Environmental Policy										
Salaries & Benefits	-	-	-	-	-	80,739	80,739	21,261	267,021	100.00
Operating	-	-	-	-	-	216	216	139	16,702	100.00
Total Public & Environmental Policy		-	-	-	-	80,955	80,955	21,400	283,723	100.00
Information Technology										
Salaries & Benefits	520,626	512,123	560,798	554,630	674,803	(8,000)	666,803	623,889	824,194	22.14
Operating	1,017,840	974,561	1,093,725	1,085,506	1,196,360	5,584	1,201,944	1,154,340	1,586,836	32.64
Capital Outlay		-	-	-	-	10,871	10,871	10,871		0.00
Total Information Technology	1,538,466	1,486,683	1,654,523	1,640,136	1,871,163	8,455	1,879,618	1,789,100	2,411,030	28.85
Engineering										
Salaries & Benefits	2,262,912	2,066,880	2,191,212	2,167,147	2,376,529	(25,000)	2,351,529	2,212,339	2,479,988	4.35
Operating	110,618	98,812	121,451	111,667	332,297	28,000	360,297	243,477	223,957	-32.60
Capital Outlay	<u> </u>	-	8,500	8,453	-		-	-		0.00
Total Engineering	2,373,530	2,165,691	2,321,163	2,287,267	2,708,826	3,000	2,711,826	2,455,816	2,703,945	-0.18
Operations - Centralized Maintenance										
Salaries & Benefits	1,185,064	1,142,035	1,331,670	1,285,858	1,373,646	-	1,373,646	1,244,657	1,384,152	0.76
Operating	1,036,071	1,011,897	1,118,310	1,077,536	1,312,046	124,117	1,436,163	1,436,163	1,412,692	7.679

CAPE FEAR PUBLIC UTILITY AUTHORITY FY 18-19

					DEPARTME					
	CFPUA FY 15-16	CFPUA FY 15-16	CFPUA FY 16-17	CFPUA FY 16-17	CFPUA FY 17-18	CFPUA FY 17-18	CFPUA FY 17-18	CFPUA FY 17-18	CFPUA FY 18-19	
	Adjusted Budget	Actual	Adjusted Budget	Actual	Adopted Budget	Amendments & Transfers	Adjusted Budget	Projected	Adopted Budget	% Change - F Budget/FY1 Adopted Bud
Capital Outlay	108,707	71,369	14,424	14,423	-	17,604	17,604	-	-	0
Total Operations - Centralized Maintenance	2,329,842	2,225,301	2,464,404	2,377,817	2,685,692	141,721	2,827,413	2,680,820	2,796,844	4
Operations - Administration										
Salaries & Benefits	383,813	380,697	332,416	322,654	346,084	-	346,084	320,695	359,648	3
Operating	16,898	4,714	16,233	14,064	15,918	5,000	20,918	19,095	13,972	-12
Total Operations - Administration	400,711	385,411	348,649	336,718	362,002	5,000	367,002	339,790	373,620	5
Operations - Water Treatment										
Salaries & Benefits	1,627,525	1,520,688	1,699,821	1,605,378	1,830,309	(69,340)	1,760,969	1,542,362	1,866,351	
Operating	4,898,469	4,757,867	5,066,096	4,716,466	5,178,924	250,111	5,429,035	4,344,317	5,297,427	
Capital Outlay	89,122	57,017	68,246	66,776	-	11,688	11,688	11,688	-	(
Total Operations - Water Treatment	6,615,116	6,335,572	6,834,163	6,388,620	7,009,233	192,459	7,201,692	5,898,367	7,163,778	:
Operations - Wastewater Treatment										
Salaries & Benefits	\$ 1,926,118 \$	1,794,788 \$	1,740,978 \$	1,711,644	\$ 1,894,801	\$ (71,821) \$	1,822,980	\$ 1,709,392 \$	1,912,516	(
Operating	2,137,683	2,054,178	2,196,567	2,080,051	2,182,398	(26,490)	2,155,908	1,740,216	2,391,940	9
Capital Outlay	8,753	7,093	-	-	-	12,064	12,064	-	-	(
Total Operations - Wastewater Treatment	4,072,554	3,856,059	3,937,545	3,791,695	4,077,199	(86,247)	3,990,952	3,449,608	4,304,456	!
Operations - Utility Services										
Salaries & Benefits	5,396,994	5,045,195	5,315,576	5,099,477	5,711,954	(156,078)	5,555,876	5,019,776	5,806,732	
Operating	4,112,491	3,123,757	4,213,221	3,230,947	3,529,409	110,928	3,640,337	3,080,154	3,582,585	:
Capital Outlay	141,100	70,090	373,897	332,308	-	43,417	43,417	13,488	-	(
Total Operations - Utility Services	9,650,585	8,239,042	9,902,694	8,662,732	9,241,363	(1,733)	9,239,630	8,113,418	9,389,317	
Environment Management										
Salaries & Benefits	1,861,936	1,784,851	1,801,568	1,742,888	2,094,509	(96,659)	1,997,850	1,805,526	2,078,776	-
Operating	443,063	385,971	495,928	446,989	571,317	168,960	740,277	740,277	644,345	1
Capital Outlay	18,645	18,526	70,418	65,426	-	-	-	-	-	(
Total Environment Management	2,323,644	2,189,349	2,367,914	2,255,303	2,665,826	72,301	2,738,127	2,545,803	2,723,121	
Customer Service										
Salaries & Benefits	2,786,409	2,550,914	2,787,971	2,640,012	3,090,831	33,000	3,123,831	2,772,407	3,318,813	
Operating	871,301	767,404	1,146,562	956,317	971,994	19,424	991,418	818,324	844,917	-1
Capital Outlay	9,658	9,658	23,513	23,402		-	-	<u>-</u>	-	(
Total Customer Service	3,667,368	3,327,976	3,958,046	3,619,731	4,062,825	52,424	4,115,249	3,590,731	4,163,730	:
Damage Claims	59,550	3,468	50,000	(370)	-	-	_	-	_	

CAPE FEAR PUBLIC UTILITY AUTHORITY FY 18-19

		E>	(PENDITURE	S DETAIL BY	/ DEPARTME	NT				
	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	CFPUA	
	FY 15-16	FY 15-16	FY 16-17	FY 16-17	FY 17-18	FY 17-18	FY 17-18	FY 17-18	FY 18-19	
	Adjusted Budget	Actual	Adjusted Budget	Actual	Adopted Budget	Amendments & Transfers	Adjusted Budget	Projected	Adopted Budget	% Change - FY19 Budget/FY18 Adopted Budget
Outside Partnerships	82,839	78,490	76,650	69,196	-	_	-	-	-	0.00%
Non-Capital Construction	285,000	164,663	298,500	293,107	-	-	-	-	-	0.00%
Fine and Penalties	26,000	-	25,132	-	-	-	-	-	-	0.00%
TOTAL OPERATING EXPENDITURES	36,220,146	32,907,310 2,140,026	36,919,097	34,276,392	37,152,403	915,682	38,068,085	33,607,070 2,432,122	39,311,736 2,568,810	5.81%
Nondepartmental	2,398,500	2,140,026	2,328,200	2,313,084	2,491,903	(46,324)	2,445,579	2,432,122	2,500,610	3.09%
Debt Service, Net	35,619,793	34,092,560	24,950,053	24,022,711	24,292,749	79,382	24,372,131	24,372,131	23,178,918	-4.59%
Payment to Refunded Bond Escrow Agent	187,785,880	187,785,880	-	-	-	33,960,000	33,960,000	32,729,050	-	0.00%
Litigation Settlement	871,000	870,609	50,000	50,000	-	-	-	-	-	0.00%
Contingency-Operating	472,000	-	953,000	-	675,000	(606,640)	68,360	-	-	-100.00%
Transfers to Capital Projects	16,233,854	16,233,854	16,430,910	16,430,910	14,906,616	5,159,998	20,066,614	20,066,614	16,695,665	12.00%
TOTAL EXPENDITURES	\$ 279,601,173	\$ 274,030,239	\$ 81,631,320	\$ 77,093,097	\$ 79,518,671	\$ 39,462,098	\$ 118,980,769	\$ 113,206,987	\$ 81,755,129	2.81%

PASELEFINIENTOWALLYBURN

CAPITAL BUDGET

Capital improvements are necessary for rehabilitation, replacement, and acquisition of infrastructure and to provide safe, reliable, high-quality water and wastewater services. Capital improvements are budgeted through project ordinances that appropriate funds to be used over the life of the project, which may span several budget years. This contrasts with the Authority's operating budget appropriations which lapse at the end of each budget year. Capital budgets are developed by first preparing initial business cases to evaluate capital projects in terms of risk (defined as the product of the consequence of failure and the likelihood of failure) and whether the projects are necessary for compliance with regulatory requirements, improve efficiency, increase capacity, or are necessary to accommodate growth. Projects are prioritized based on risk and these other criteria.

The capital budgeting process is also governed by certain financial limitations. Except for grants and capital contributions, the Authority's capital projects are funded through either annual operating revenue (payas-you-go funded) or with proceeds from the issuance of debt (debt funded). In accordance with policy, debt is generally limited to high-dollar and growth-oriented projects. Debt cannot be issued if such issuance would cause the Authority's debt-to-capitalization ratio to exceed 45%. These debt limitations mean that most other capital expenditures are funded on a pay-as-you-go basis. The Authority develops its capital budgets to provide that pay-as-you-go funded capital expenditures approximate a predetermined target. Since pay-as-you-go funding comes from water and wastewater revenues, establishing an annual pay-as-you-go funded capital expenditure target reduces rate volatility and keeps rates affordable by reducing long-term debt and associated costs. The current amount of \$18 million was determined based on the size of the system, current condition of the system, expectations of construction and materials costs, and rate affordability benchmarks.

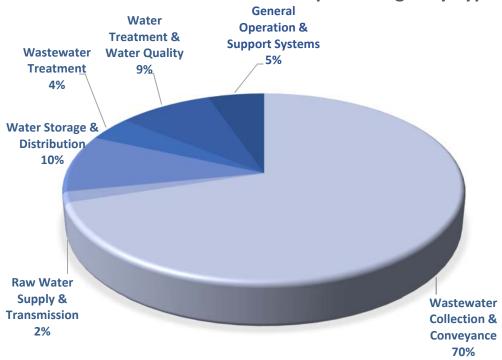
An important aspect of capital budgeting is the effect that budgeted projects have on the annual operating budget. As previously mentioned, most of the Authority's capital expenditures are debt funded or pay-as-you-go funded. Both funding methods impact the annual operating budget. Under the pay-as-you-go method, customers are charged through rates to fund capital costs. Pay-as-you-go funding is appropriated as a transfer to the capital fund in the annual operating budget. Under the debt funding method, customers are charged through rates to cover debt service costs related to debt issued to fund capital costs. Debt service costs are appropriated in the annual operating budget. Appropriations for transfers to the capital projects fund and debt service for FY 18-19 are \$16.7 million and \$23.2 million, respectively. Combined, these appropriations comprise 49% of the FY 18-19 operating budget.

The FY 18-19 capital budget totals \$54.9 million. The majority (75.8%) of the FY 18-19 capital budget is focused on rehabilitating or replacing existing infrastructure. Notable projects include the interim rehabilitation of gravity sewer lines, pump station 10 replacement, various pump station and force main replacement and rehabilitation projects, and designing upgrades to the Sweeney plant to remove GenX and other emerging contaminants. Another 14.7% of the FY 18-19 capital budget is programmed for system expansion with the remainder (9.5%) programmed for improving efficiency. Notable expansion projects include the extension of water to the northern part of the service area and capacity upgrades to pump station 36.

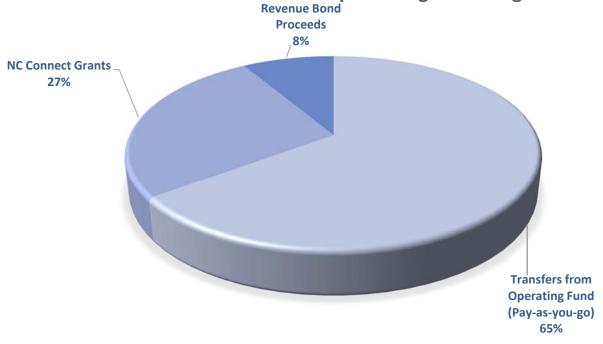
The pie charts on the following page detail project appropriations by type and the funding sources incorporated in the FY 18-19 capital budget.

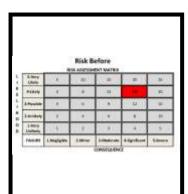
CAPITAL BUDGET

Fiscal Year 2018-2019 Capital Budget by Type



Fiscal Year 2018-2019 Capital Budget Funding Sources







FUNDING SOURCE

1 Pay-go Transfers

%

100%

REFERENCE NUMBER 4	Find It, Fix It Methodology Sewer Collection Rehabilitation (AMP)	17S394
Project Type:	Rehab or Replace Assets	
Project Area:	Wastewater Collection	

Summary:

Areas of our collection system are beyond their designed life-cycle. Utilizing asset management principles, including risk mitigation and remaining useful life, assets are determined to be rehabbed or replaced. Potential projects include eliminating infiltration and inflow tributary to Southside WWTP; manhole rehab along Laney Outfall; manhole rehab at Pump Stations 34 and 35; and rehabilitation or replacement of pipe which is over 40 years old and has a work order history or condition assessment that indicates failures or costly maintenance requirements.

CFPUA has approximately 870 miles of gravity sewer. It is estimated that 229 miles or 26% is over 40 years old, with 100 miles or 11% in the City which is over 70 years old.

Project Drivers and Benefits:

• COMPLIANCE 50%: Required for compliance with additional benefits.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

Total Estimated Cost	\$52,000,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$9,000,000	\$1,500,000	\$41,500,000

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(Anter	Linglate		CONSCIA/DK	4 lightness	\$500





REFERENCE NUMBER	IT SCADA (PS Upgrades)	16S344
10		
Project Type:	Rehab or Replace Assets	
Project Area:	Other	

This project is to fund systematic replacement of existing SCADA Remote Terminal Units (RTU's) at the Authority's 142 pump stations.

After ongoing replacements using current funding, approximately 115 existing RTU's will remain that are over 20-years old. Parts for these units are no longer available in the marketplace for repairs. In addition, these replacements are needed to convert to wireless Ethernet communication. \$250,000 in FY 19 will upgrade approximately 25 RTU panels.

Project Drivers and Benefits:

• COMPLIANCE 75%: Required for compliance with some other beneficial considerations.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$	2,250,000
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$750,000	\$250,000	\$1,250,000

# FUNDING SOURCE	%
1 Pay-go Transfers	100%
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			CONSTRUCTOR	1	

REFERENCE NUMBER	Comprehensive Meter Replacement Program	16W215
22		
Project Type:	Rehab or Replace Assets	
Project Area:	Water Distribution	

CFPUA has approximately 63,000 small meters (5/8" – typical residential) and 3,900 midsize meter (1", 1,1/2", and 2") The meter population is a mixture of radio read, touch/probe read, and manual read type. Billing is conducted bi-monthly, with a total of 221 routes and 9 meter readers. A majority of CFPUA's meters are approaching the end of their useful life, meaning a reduction in reading accuracy. CFPUA recognized the need to initiate a Meter Replacement Program to replace these aged meters and institute a consistent and efficient meter reading method.

Project Drivers and Benefits:

• COMPLIANCE 0%: No direct impact on compliance.

• EFFICIENCY 100%: Increases efficiency with no other benefits.

• CAPACITY 0%: No direct Impact on capacity.

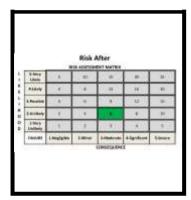
Total Estimated Cost	\$19,080,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$15,780,000	\$2,500,000	\$800,000



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REFERENCE NUMBER	Rehabilitation of Sewer Infrastructure	175395	
REFERENCE INDIVIDEN	Matching with City Streets	1/3535	
23	Watering with ency streets		
Project Type:	Rehab or Replace Assets		
Project Area:	Wastewater Collection		
Summary: When the City of Wilmington	on initiates street repaving or stormwater projects there	e are opportunities for	

When the City of Wilmington initiates street repaving or stormwater projects there are opportunities for replacement of CFPUA sewer infrastructure as a part of the City's project. These funds are programmed to fund design and construction of Authority infrastructure rehab or replacement under contracts managed by the City as set forth by future Interlocal Agreements. Brick streets, repaving and streetscape projects are prime examples where the cost to the public and traffic disruptions can be reduced by concurrently addressing sewer infrastructure improvements. See also a matching project for water infrastructure.



 COMPLIANCE 50%: 	Required for compliance with additional benefits.

Project Drivers and Benefits:

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

Total Estimated Cost	\$7,200,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$800,000	\$600,000	\$5,400,000







REFERENCE NUMBER	IT Virtual Desktop Migration	16A008
28		
Project Type:	Enhancement	
Project Area:	Other	

As the Authority looks to replace its antiquated PC's, the IT Division will be moving towards a virtual desktop solution. Desktop PC's will be allowed to run to failure to maximize the investment. Server resources are shared among virtual desktops to ensure that all resources are being utilized and not wasted. Desktop PC's will be replaced with a thin client which is less costly than a desktop. This solution allows for centralized management of the user's desktop. This solution has multiple levels of redundancy and can be securely accessed remotely from any location with Internet access which meets the Information Technology Division's Business Continuity plan.

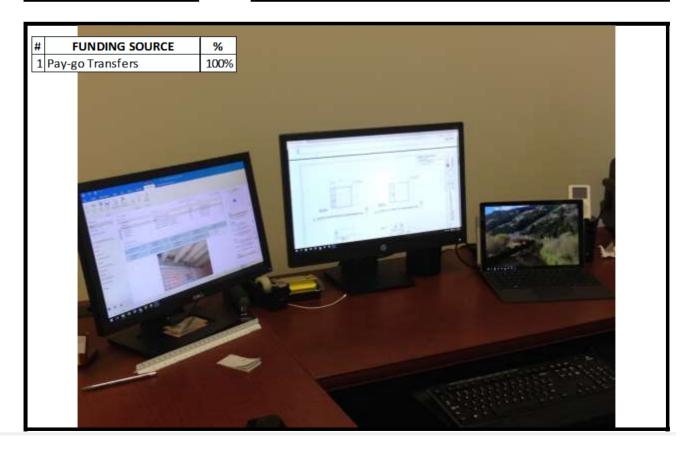
Project Drivers and Benefits:

• COMPLIANCE 50%: Required for compliance with additional benefits.

• EFFICIENCY 50%: Increase in efficiency with additional benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$520,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$240,000	\$140,000	\$140,000





REFERENCE NUMBER	Information Technology Networking	16A007	
30	Infrastructure Replacement		
Project Type:	Rehab or Replace Assets		
Project Area:	Other		

In 2008 the Information Technology Division purchased various electronics (Firewalls, Switches, Routers) to connect the Administrative building and the other CFPUA facilities to one another. These devices provide intelligent routing and segmenting for various (Data, Voice, SCADA) applications, security from outside networks, Internet access, and virus protection for the Authority. This project replaces that equipment in a prioritized manner across multiple years. Some equipment will be replaced only after it fails or is obsolete to extract maximum value and service life.



<u>Project Drivers and Benefits:</u>COMPLIANCE 25%: Some enhancement to compliance with substantial other benefits.

• EFFICIENCY 75%: Significant increase in efficiency with some other beneficial considerations.

No direct Impact on capacity.

• CAPACITY 0%:

Total Estimated Cost	\$1,364,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$364,000	\$100,000	\$900,000	



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			CONSTRUCTOR	1	

REFERENCE NUMBER	Motor Fleet Capital	17A013
34		
Project Type:	Rehab or Replace Assets	
Project Area:	Other	
Cumamamu		

CFPUA developed a long term model for motor fleet replacements based on predetermined criteria. Each of these vehicles will be evaluated based on maintenance records and past history. Replacement of those that can be extended in life cost effectively will be deferred. Fleet capital costs are an ongoing major capital expense. By setting aside regular appropriations of capital each year, the Authority is better financially prepared to prevent unplanned funding demands due to motor fleet expenses, without adequate resources.



Project Drivers and Benefits:

• COMPLIANCE 25%: Some enhancement to compliance with substantial other benefits.

• EFFICIENCY 75%: Significant increase in efficiency with some other beneficial

considerations.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$7,900,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$1,900,000	\$600,000	\$5,400,000



REFERENCE NUMBER 36	Water Meters for New Customers	17W247
Project Type:	Expansion	
Project Area:	Water Distribution	
6		

Summary:

Provides water meters for new customers added by development or other new connections. A sufficient number of water meters must be kept in inventory to meet the needs of new customers.



Project Drivers and Benefits:

• COMPLIANCE 0%: No direct impact on compliance.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

• GROWTH 50%: Increase customer growth with additional benefits.

Total Estimated Cost	\$3,150,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$500,000	\$250,000	\$2,250,000



REFERENCE NUMBER 38	Collection System - Standard Developer Agreements	17\$399
Project Type:	Expansion	
Project Area:	Wastewater Collection	

Summary:

Annual funds allocated to standard developer agreements. Provides cost sharing opportunities with private developers, decreasing overall cost of infrastructure and provides opportunities to increase customer base.



Project Drivers and Benefits:

• COMPLIANCE 0%: No direct impact on compliance.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

• GROWTH 50%: Increase customer growth with additional benefits.

Total Estimated Cost	\$2,150,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$650,000	\$150,000	\$1,350,000



REFERENCE NUMBER	Distribution System - Standard Developer	17W248	
39	Agreements		
Project Type:	Expansion		
Project Area:	Water Distribution		

Summary:

Annual funds allocated to standard developer agreements. Provides cost sharing opportunities with private developers, decreasing overall cost of infrastructure and provides opportunities to increase customer base.



Project Drivers and Benefits:

• COMPLIANCE 0%: No direct impact on compliance.

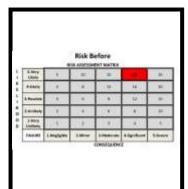
• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

• GROWTH 50%: Increase customer growth with additional benefits.

Total Estimated Cost	\$2,150,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$650,000	\$150,000	\$1,350,000





REFERENCE NUMBER 40	Plant Equipment, HVAC)	
Project Type:	Rehab or Replace Assets	
Project Area:	Other	
6		

This project funds replacement of large equipment such as HVAC, pumps and other equipment replacements large enough to be a capital project for any facility arising due to unplanned but non-emergency system failures that occur during the year.



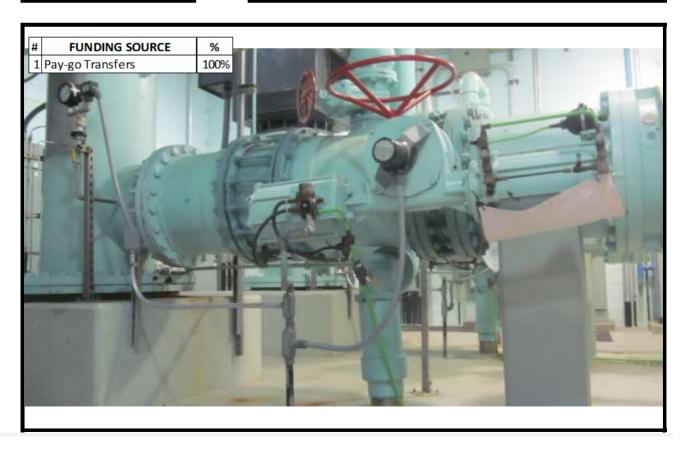
Project Drivers and Benefits:

• COMPLIANCE 50%: Required for compliance with additional benefits.

• EFFICIENCY 50%: Increase in efficiency with additional benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$5,280,000	
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs
\$280,000	\$500,000	\$4,500,000

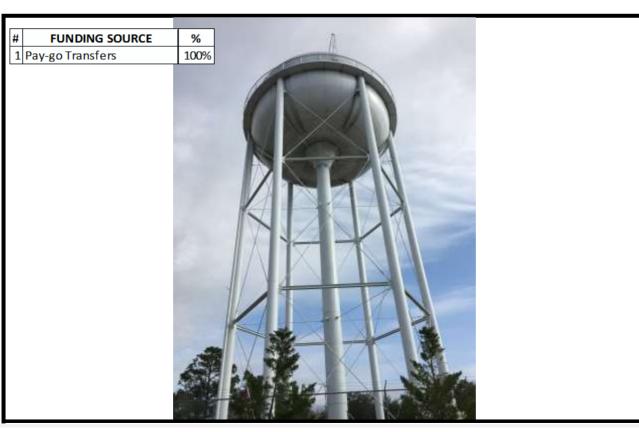


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				REFERENCE NUMBER	Elevated Tank Rehabilitation and Coatings	18W002			
				53					
isk B	efore no water	1		Project Type:	Rehab or Replace Assets				
20		=	30	Draiget Area	Water Distribution				
*	10	10		Project Area:	water distribution				
8	,	W. I	#	Summary:					
+	0.00	*:	36		newal of engineered coatings periodically in order to exte	end the tank's useful life.			
-	3 0 11/	4	4	Rehabilitation and replacement of tank appurtenances and structures is also required to extend life cycle.					
Miner	himbrok	Algohore	Since	•	FY-18 provided funding for rehabilitation of the Porter's Neck Elevated Tank and Wild Dunes, Porter's Neck				
	CONSTRUCTION	Gr.		Ground Tank, EV 10 funding is for rehabilitating an additional storage tank					



FY-18 provided funding for rehabilitation of the Porter's Neck Elevated Tank and Wild Dunes, Porter's Neck Ground Tank. FY-19 funding is for rehabilitating an additional storage tank.					
Project Drivers and Ben	efits:				
• COMPLIANCE 50%:	Required for compliance with additional benefits.				
• EFFICIENCY 50%:	Increase in efficiency with additional benefits.				
• CAPACITY 0%:	No direct Impact on capacity.				
• GROWTH 0%: No direct Impact on customer growth.					
Total Estimated Cost	Total Estimated Cost \$5,500,000				
Budgeted FY 2014-20	018	Requested FY 2019	Future Budget Needs		
\$500,000		\$500,000	\$4,500,000		





							_
						REFERENCE NUME 68	PS - 34 Hewlett's Creek Redirect to Northside WWTP through NEI Northern Route
		Risk 8	efore on write	77		Project Type:	Rehab or Replace Assets
Littry Utale	- 1	20.		-	30	Project Area:	Wastewater Collection
stary '		10	10	16	- 10	Project Area:	wastewater Collection
Persition				u.	14	Summary:	
and the	100		0.00	+0	36		r Treatment plant has limited capacity and efforts continue to divert flow to the
) Mary Linkson	1	1	0	4.5			re possible. In order to extend the time until the new construction at the Southside
State and	Victoria Control	William Co.	B. Carrier C.	Carried Land	27423/23/24	MA/A/TD is required this	a project will address the mayoment of the DC 24 basis to Northeide Treatment

WWTP is required, this project will address the movement of the PS 34 basin to Northside Treatment
Plant. This will include pumping PS 34 up the NEI to PS 35 and adding a gravity connection to the wet well
of PS 35, allowing a re-pump to Northside.



Project Drivers and Bend	efits:
COMPLIANCE 50%:	Required for compliance with additional benefits.

No direct Impact on efficiency.

• CAPACITY 50%: Increase in capacity with additional benefits.

• GROWTH 0%: No direct Impact on customer growth.

Total Estimated Cost	\$1,650,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$150,000	\$1,500,000	\$0	

# FUNDING SOURCE	%
1 Pay-go Transfers	100%

• EFFICIENCY 0%:

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REFERENCE NUMBER	Southside WWTP - Disinfection Project	17\$409
88		
Project Type:	Rehab or Replace Assets	
Project Area:	Wastewater Treatment	

This project will replace chlorine gas with an alternative and safer disinfectant. Safety benefit to employees and the general public as well as introducing an improvement already planned for needed improvements to the facility. FY-18 provided design funding for this project. This funding will be for construction.



Project Drivers and Benefits:

• COMPLIANCE 50%: Required for compliance with additional benefits.

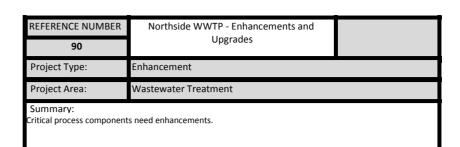
• EFFICIENCY 50%: Increase in efficiency with additional benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$2,450,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$425,000	\$2,100,000	\$0	









<u>Project Drivers and Benefits:</u> • COMPLIANCE 25%: Some enhancement to compliance with substantial other benefits.

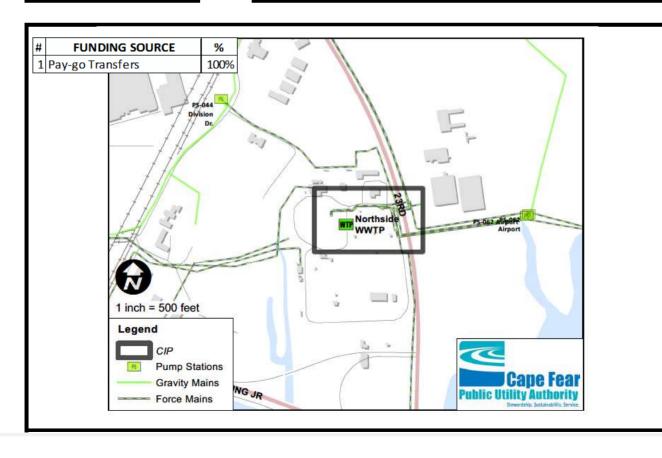
Significant increase in efficiency with some other beneficial

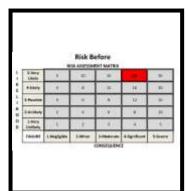
considerations.

• CAPACITY 0%: No direct Impact on capacity.

• EFFICIENCY 75%:

Total Estimated Cost	\$1,850,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$0	\$100,000	\$1,750,000	





REFERENCE NUMBER	EMD HVAC and Power Supply	16W213
91		
Project Type:	Rehab or Replace Assets	
Project Area:	Other	

The EMD Facility and Richardson Plant have a shared power supply. Due to regular maintenance of the generator at the plant, the EMD facility experiences routine power bumps causing equipment to restart. This causes interferences with laboratory work and additional wear and tear to the equipment. The HVAC system has also been experiencing failures and volatility in both temperature and humidity.



Project Drivers and Benefits:

• COMPLIANCE 25%: Some enhancement to compliance with substantial other benefits.

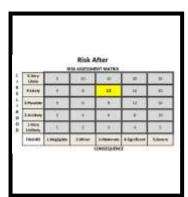
• EFFICIENCY 75%: Significant increase in efficiency with some other beneficial

considerations.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$860,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$650,000	\$260,000	\$0	







REFERENCE NUMBER	Sweeney WTP Boiler Replacement	
99		
Project Type:	Rehab or Replace Assets	
Project Area:	Water Treatment	

The Sweeney Water Treatment Plant Diesel Fired Boiler and HVAC controls are beyond their useful life. In the past four years maintenance costs have been extremely high to keep the boiler running and the environmental controls are only partially functional. The system was originally sized to service a larger plant area and the most recent expansions provided alternate heating and cooling systems for the new plant areas; the boiler and controls only service the older portion of the remaining plant and operator control room, and support dehumidification for the operations lab and main electrical room. The control system is obsolete and parts procurement and support is difficult; control software is no longer functional for control only partial monitoring. It is recommended to fund a PER to determine appropriate sizing.

Project Drivers and Benefits:

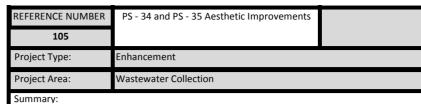
• COMPLIANCE 100%: Required for compliance with no other benefits.

• EFFICIENCY 0%: No direct Impact on efficiency.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$150,000	
Budgeted FY 2014-2018	Requested FY 2019 Future Budget Needs	
\$0	\$150,000	\$0





Pump Stations 34 and 35 are in highly visible areas. Their current appearance detracts from the aesthetics of the area. Improvements will be made to the allow these stations blend into the area more seamlessly.



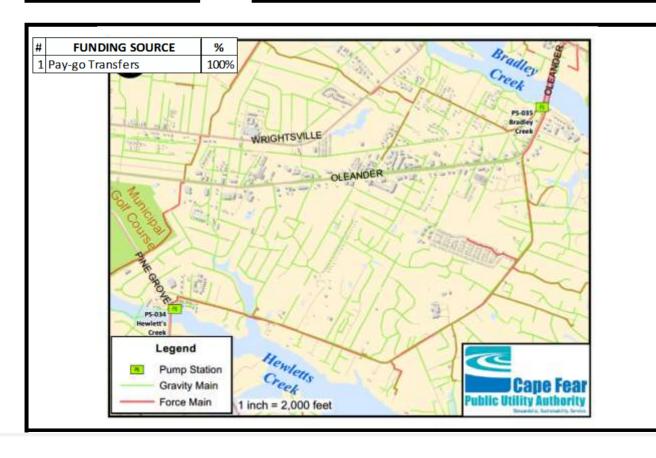
Project Drivers and Benefits:

• COMPLIANCE 0%: No direct impact on compliance.

• EFFICIENCY 100%: Increases efficiency with no other benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$300,000		
Budgeted FY 2014-2018	Requested FY 2019 Future Budget Needs		
\$0	\$300,000	\$0	









REFERENCE NUMBER 110	Generator Rehab and Replacement Program (AMP)	18A001
Project Type:	Rehab or Replace Assets	
Project Area:	Other	

CFPUA owns approximately 150 standby generators that are critical for the reliable operation of its wastewater pumping stations and well sites. This project is to systemically replace aging generators. For FY 18 the following generators will be replaced or rehabilitated: Sewer Pump Stations 20, 34, 44, 134, 150 and Water Well A.

Project Drivers and Benefits:

• COMPLIANCE 75%: Required for compliance with some other beneficial considerations.

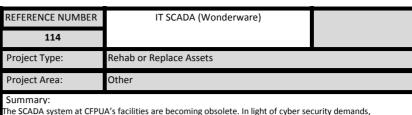
• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$2,000,000	
Budgeted FY 2014-2018	Requested FY 2019 Future Budget Needs	
\$200,000	\$200,000	\$1,800,000







The SCADA system at CFPUA's facilities are becoming obsolete. In light of cyber security demands, standardization, centralized management, and in an effort to reduce future integration costs, an updated system platform migration is recommended. This will upgrade software and hardware as well as provide much needed durability and security throughout the SCADA network. SCADA controls are necessary for compliant and efficient operation of each facility.



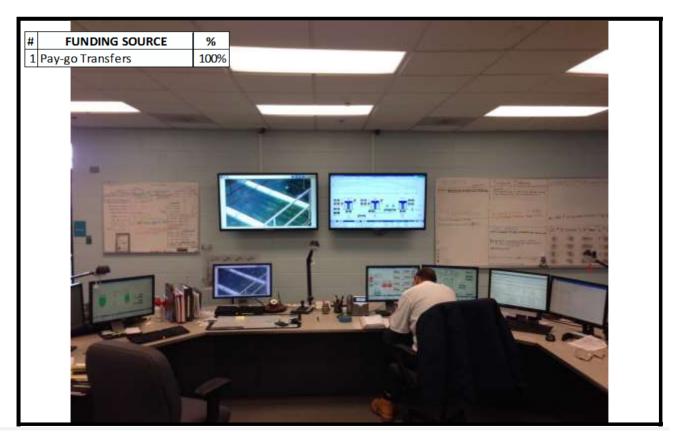
CONTRILIANICE FOR	B 1 1 (P 1 (1 1 - 1) (1 1)
• COMPLIANCE 50%:	Required for compliance with additional benefits.

• EFFICIENCY 50%: Increase in efficiency with additional benefits.

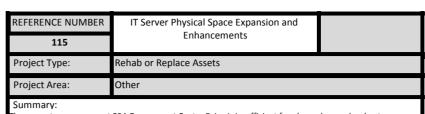
• CAPACITY 0%: No direct Impact on capacity.

Project Drivers and Benefits:

Total Estimated Cost	\$3,000,000	
Budgeted FY 2014-2018	Requested FY 2019 Future Budget Needs	
\$0	\$750,000	\$2,250,000







The current server room at 234 Government Center Drive is insufficient for planned upgrades due to enhanced security and enterprise software. These enhancements are interim until IT can be moved from 235 Government Center Drive to a new facility.



• COMPLIANCE 0%: No direct impact oncompliance.

Project Drivers and Benefits:

• EFFICIENCY 100%: Increases efficiency with no other benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$100,000	
Budgeted FY 2014-2018	Requested FY 2019 Future Budget Needs	
\$0	\$100,000	\$0









REFERENCE NUMBER	Gravity Sewer Rehab (Burnt Mill Outfall and	17S421	
116	Major Roads)(50/50 Grant Match)		
Project Type:	Rehab or Replace Assets		
Project Area:	Wastewater Collection		

This project rehabilitates or replaces existing gravity sewer infrastructure within the Burnt Mill Creek Outfall and under major roads that require significant coordination with NCDOT and work zones. All sewer in the project is over 40 years old and high consequence of failure. CFPUA was approved for 50% grant funding from the State for this project.

Project Drivers and Benefits:

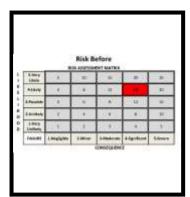
• COMPLIANCE 50%: Required for compliance with additional benefits.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

Total Estimated Cost	\$12,269,706	
Budgeted FY 2014-2018	Requested FY 2019 Future Budget Needs	
\$1,226,970	\$11,042,736	\$0







FUNDING SOURCE

1 Pay-go Transfers

3 Grants

REFERENCE NUMBER	PS 5, 6, 13, 16, 21 and 29 Replace and FM	17S419
117	Rehab (50/50 Grant Match)	
Project Type:	Rehab or Replace Assets	
Project Area:	Wastewater Collection	

Summary:

This project replaces 6 existing package pump stations that are over 30 years old and approaching the end of their useful service life as well as rehabilitates or replaces their force mains, as necessary. All of the pump stations consist of pre-packaged steel structures that are subject to corrosion and structural failures. The project will replace all of the package pump stations with new stations designed to meet current regulations and standards. The project will evaluate and replace or rehabilitate all or portions of existing force mains, as necessary to extend the life of these assets and reduce the likelihood of sanitary sewer overflows (SSOs) due to force main failures. CFPUA was approved for 50% grant funding from the State for this project.

Project Drivers and Benefits:

• COMPLIANCE 50%: Required for compliance with additional benefits.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

Total Estimated Cost	\$8,855,788	
Budgeted FY 2014-2018	Requested FY 2019 Future Budget Needs	
\$885,579	\$7,970,209	\$0









REFERENCE NUMBER	PS - 10 Replacement (50/50 Grant Match)	17S420
118		
Project Type:	Rehab or Replace Assets	
Project Area:	Wastewater Collection	

PS-010 (Smith Street) is the largest capacity pump station in the CFPUA system and is approximately 47 years old. The station is the primary influent station to the Northside Wastewater Treatment Plane (NSWWTP) for customers within Wilmington's city limits. It was found through the 2007 Wastewater Master Plan Update that the pump station would require improvements to meet future needs. Replacement is needed to accommodate anticipated flow projections for a 20-year window and to increase firm capacity from 10,300 gallons per minute (gpm) to 16,800 gpm. CFPUA was approved for 50% grant funding from the State for this project.

Project Drivers and Benefits:

• COMPLIANCE 50%: Required for compliance with additional benefits.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 25%: Some increase in capacity with substantial other benefits.

Total Estimated Cost	\$11,474,500		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$1,147,450	\$10,327,050	\$0	





REFERENCE NUMBER	Production Well Monterey Heights	18W001
121		
Project Type:	Expansion	
Project Area:		
6		

The Monterey Heights water system is supplied by 4 groundwater wells. The existing wells are unable to supply adequate water to support new customers from development over the next five years. This new well will add supply for immediate growth needs.



Project Drivers and Benefits:

• COMPLIANCE 25%: Some enhancement to compliance with substantial other benefits.

• EFFICIENCY 0%: No direct Impact on efficiency.

• CAPACITY 75%: Significant increase in capacity with some other beneficial

considerations.

Total Estimated Cost	\$1,000,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$100,000	\$1,000,000	\$0	



REFERENCE NUMBER	Sweeney WTP Treatment Enhancements	18W009
123		
Project Type:	Enhancement	
Project Area:	Water Treatment	

CFPUA is investigating various enhancements to address concerns of emerging contaminates. This project would design and construct improvements to Sweeney Water Treatment Plant and implement the selected treatment method. The FY-19 investment is for the design work and the replacement of the existing filler media.

Project Drivers and Benefits:

• COMPLIANCE 50%: Required for compliance with additional benefits.

• EFFICIENCY 50%: Increase in efficiency with additional benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$38,700,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$880,200	\$4,700,000	\$34,000,000	



REFERENCE NUMBER	Northern Water Mains - Cost Recovery Project	
124		
Project Type:	Expansion	
Project Area:	Water Distribution	

Summary:

This project provides water capacity for future develop throughout northern New Hanover County by completing a water transmission main loop. The planned water main is approximately 4.5 miles long and extends northward from the newly constructed Kerr Avenue water main to the General Electric campus, then eastward toward the New Hanover County Jail. Without the benefits of this looped main, all development north of I-140 will be constrained by limited water supply.



Project Drivers and Benefits:

• COMPLIANCE 0%: No direct impact on compliance.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 75%: Significant increase in capacity with some other beneficial

considerations.

• GROWTH 25%: Some increase in customer growth with substantial other.

Benefits

Total Estimated Cost	\$3,000,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$0	\$2,000,000	\$2,000,000	





REFERENCE NUMBER	EFERENCE NUMBER Northside Backup Generator Replacement			
125				
Project Type:	Rehab or Replace Assets			
Project Area:	Wastewater Treatment			
1				

Northside WWTP currently has two backup generators that (together) provide emergency power to the WWTP. The smaller of the two (1,275 kW) is in need of replacement. This project will evaluate emergency generator requirements, design and construct a new right-sized generator.



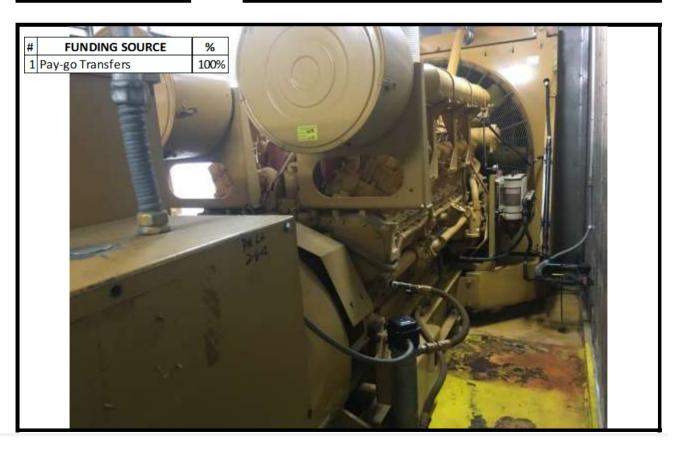
Project Drivers and Benefits:

• COMPLIANCE 75%: Required for compliance with some other beneficial considerations.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 0%: No direct Impact on capacity.

Total Estimated Cost	\$2,300,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$0	\$100,000	\$2,200,000	





							_
						REFERENCE NUMBER	Pump Stations Prioritization and Rehab (PS-
						126	32 and PS-51 Included)
		Risk B	efore on water	87		Project Type:	Rehab or Replace Assets
	- 1	. 20	2	= 1	30	Duningt Augus	Masteriates Callestian
	ı		10	101	16	Project Area:	Wastewater Collection
				0.0	14	Summary:	
100	П	+	0.00	*0	36		ations that are known to be approaching the end of the
1.4	il.	-	917	4.5		rehabilitation or replacem	ent. Through asset management, staff will evaluate the
1.00plg/00	Ī	I Miner	himdreds	4 Springer	Since	41, 47, 51, 61, and 85) for	condition and consequence, prioritize/scope for design
			constante	ia .	-	replacement of the highes	t risk pump stations with poor condition scoring. All pur
						life cycle will be scored an	d prioritized by an asset management team prior to sco



126	32 and PS-51 included)					
Project Type:	Rehab or Replace Assets					
Project Area:	Wastewater Collection					
Summary: FPUA has sewer pump stations that are known to be approaching the end of their life cycle and in need of						

ig the end of their life cycle and in fleed of will evaluate these pump stations (PS-32, scope for design the rehabilitation or n scoring. All pump stations approaching eam prior to scoping the design with the onsultant.

Project Drivers and Benefits: • COMPLIANCE 75%: Required for compliance with some other beneficial considerations.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 0%: No direct Impact on capacity.

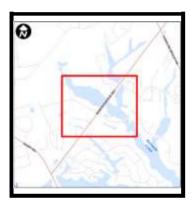
Total Estimated Cost	\$1,100,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$0	\$100,000	\$1,000,000	



REFERENCE NUMBER	PS - 36 Upgrade Cost Recovery	18S011
127		
Project Type:	Expansion	
Project Area:	Wastewater Collection	

Summary:

Pump Station 36 serves a large area around the intersection of Independence Boulevard and Carolina Beach Road, including the Barclay area. Pump Station 36 is out of capacity. The capacity in the pump station cannot be increased without a major project that is beyond the scope of any one development. This project will reconstruct Pump Station 36 to buildout capacity and recover the costs from future benefitting developers.



Project Drivers and Benefits:

• COMPLIANCE 0%: No direct impact on compliance.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 75%: Significant increase in capacity with some other beneficial

considerations.

Total Estimated Cost	\$4,000,000		
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs	
\$300,000	\$4,000,000	\$0	

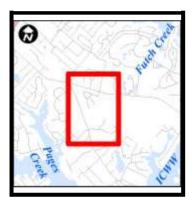


This Project Is Not Risk Driven

REFERENCE NUMBER	Forest Creek Outfall Cost Recovery Project	
128		
Project Type:	Expansion	
Project Area:	Wastewater Collection	

Summary:

Forest Creek Gravity Sewer Outfall will eliminate a private pump station that receives public sewer from CFPUA customers. Construction of the sewer outfall is beyond scope of any one developer. This project will construct a public sewer outfall that will enable future development with public sewer in the basin. Costs will be partially recovered from future benefitting developers.



Project Drivers and Benefits:

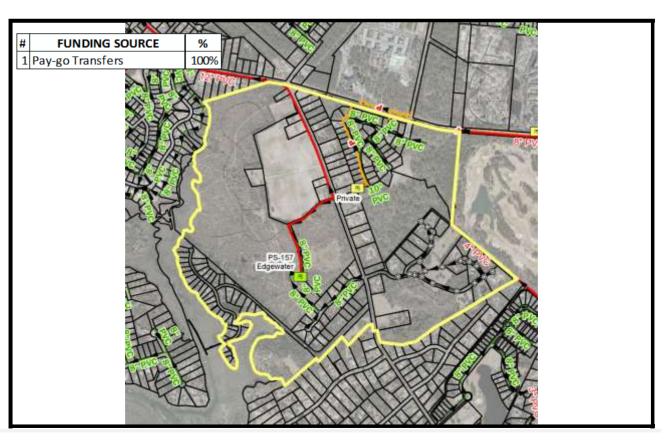
• COMPLIANCE 25%: Some enhancement to compliance with substantial other benefits.

• EFFICIENCY 25%: Increase in efficiency with substantial other benefits.

• CAPACITY 50%: Increase in capacity with additional benefits.

• GROWTH 0%: No direct Impact on customer growth.

Total Estimated Cost	\$500,000					
Budgeted FY 2014-2018	Requested FY 2019	Future Budget Needs				
\$0	\$500,000	\$0				



PROFILITIONALLYBIANT

WATER: Projected 10 Year Capital Improvements Plan

tts: Surface or Well Sources and Transmission If New Raw Water Line with LCFWSA ILA Il Raw Water Lines and Pilings Il Monterey Heights Improvements Treatment Enhancements W Water Supply, Chemistry and Membranes Ozone Replacement Boiler Replacement nents: Elevated, Ground and Aquifer Storage Rehabilitation and Coatings rades and Rehabilitation Meter Replacement Program Interey Heights Water System to Surface Water Methodology Water Replace and Rehab (AMP) of Water Infrastructure Matching with City Streets	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17W261 18W001 18W009 16W210 17W241 18W002	\$1,700,000 \$0 \$100,000 \$100,000 \$500,000 \$1,686,000 \$0	\$140,000 \$0 \$100,000 \$617,136 \$0 \$1,382,000 \$0	\$1,000,000 \$38,700,000 \$3,000,000 \$1,580,000	\$0 \$0 \$1,000,000 \$4,700,000 \$0	\$31,000,000 \$1,000,000 \$0 \$34,000,000 \$0	\$0 \$3,000,000 \$0	\$0 \$4,000,000 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$ \$ \$
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nents: Elevated, Ground and Aquifer Storage Rehabilitation and Coatings rades and Rehabilitation Meter Replacement Program Ionterey Heights Water System to Surface Water Methodology Water Replace and Rehab (AMP) of Water Infrastructure Matching with City Streets	1 1 1			\$0		\$0	\$0	\$1,580,000	\$0	\$0	\$0	\$0	\$0	\$0	• • • • • • • • • • • • • • • • • • •
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Ionterey Heights Water System to Surface Water Methodology Water Replace and Rehab (AMP) of Water Infrastructure Matching with City Streets	1	16W215		. ,	. , ,	. ,	. ,	. ,	. ,	, ,		. ,	, ,	. ,	
Ionterey Heights Water System to Surface Water Methodology Water Replace and Rehab (AMP) of Water Infrastructure Matching with City Streets	_	1011413	\$15,780,000	\$5,607,810	\$3,300,000	\$2,500,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	9
Methodology Water Replace and Rehab (AMP) of Water Infrastructure Matching with City Streets	1	17W257	\$2,675,000	\$2,075,710		\$0	\$0	\$3,000,000	\$0	\$5,000,000	\$2,000,000	\$3,000,000	\$0	\$0	•
of Water Infrastructure Matching with City Streets		17W244	\$1,200,000	\$120,000	\$15,200,000	\$0	\$200,000	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000	\$1,000,000	\$3,000,000	\$1,000,000	\$4,000,00
	1	17W243	\$1,137,234	\$400,000	\$5,400,000	\$0	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,00
ncy Repair	1	16W223	\$433,845	\$200,000	\$2,000,000	\$0	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	
tion Main Enhancements	1	18W005	\$100,000	\$98,000	\$1,200,000	\$0	\$300,000	\$0	\$300,000	\$0	\$300,000	\$0	\$300,000	\$0	9
tion Sample Stations	1	17W245	\$420,000	\$98,064		\$0	\$200,000	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	
eder Under Burnt Mill Creek Rehab/Replace	1		\$0	· · ·		\$0	\$50,000	\$350,000	\$0	\$0	\$0	\$0	\$0	\$0	
Rehabilitation or Replace	1		\$0	•		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000,00
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for New Customers	1	17W247	\$500,000	\$383,400	\$2,500,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,00
er Mains - Cost Recovery Project	1	-,,,-,,	\$0	\$0	. , ,	\$2,000,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,00
stem - Standard Developer Agreements	1	17W248	\$650,000	\$178,078	\$1,500,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,00
provement Projects	_		\$28,262,279	\$11,900,198	\$140,330,000	\$11,250,000	\$70,600,000	\$11,080,000	\$10,050,000	\$7,850,000	\$7,150,000	\$5,850,000	\$5,150,000	\$2,850,000	\$8,500,00
l Improvement Projects			\$30,384,999	\$3,855,024	\$108,589,995	\$40,789,995	\$6,700,000	\$3,750,000	\$6,750,000	\$10,150,000	\$8,450,000	\$13,250,000	\$6,250,000	\$6,250,000	\$6,250,00
al Improvement Projects			\$4,384,000	\$1,880,657	\$23,240,000	\$2,900,000	\$2,540,000	\$2,400,000	\$2,400,000	\$2,000,000	\$5,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,00
mprovement Projects			\$63,031,278	\$17,635,879	\$272,159,995	\$54,939,995	\$79,840,000	\$17,230,000	\$19,200,000	\$20,000,000	\$21,000,000	\$20,500,000	\$12,800,000	\$10,500,000	\$16,150,00
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WASTE WATER: Projected 10 Year Capital Improvements Plan

Ref. #	FY-2019 to FY-2028 CIP	Funding Source	Current Project #	Amount Budgeted Prior to FY-19	Project Balance Jan 1, 2018	FY-19 to FY-28 Planned	Y-19 Planned	FY-20 Planned	FY-21 Planned F	Y-22 Planned F	Y-23 Planned F	Y-24 Planned F	Y-25 Planned F	Y-26 Planned	Y-27 Planned	FY-28 Planned
	Wastewater Capital Improvement Projects							All dollar amo	ounts are shown in 20	19 dollars						
Waste W	Vater Treatment Plant Improvements															
131	Southside WWTP - Interim Rehabilitation Phase II	1		\$0	\$0	\$7,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000,000	\$0	\$0	\$0
88	Southside WWTP - Disinfection Project	1	17S409	\$425,000	\$377,800	\$2,100,000	\$2,100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
125	Northside Backup Generator Replacement	1		\$0	\$0	\$2,300,000	\$100,000	\$2,200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90	Northside WWTP - Enhancements and Upgrades	1		\$0	\$0	\$1,850,000	\$100,000	\$1,750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Collection	on System Rehabilitation/Replacement															
4	Find It, Fix It Methodology Sewer Collection Rehabilitation (AMP)	1	17S394	\$9,000,000	\$0	\$36,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
1	Sewer Emergency Repair	1	17S393	\$15,000,000	\$1,000,000	\$5,000,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
116	Gravity Sewer Rehab (Burnt Mill Outfall and Major Roads)(50/50 Grant Match)	1, 3	17S421	\$1,226,970	\$68,890	\$11,042,736	\$11,042,736	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	Rehabilitation of Sewer Infrastructure Matching with City Streets	1	17S395	\$800,000	\$800,000	\$6,000,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000
Pump St	tation & Forcemain Improvements															
118	PS - 10 Replacement (50/50 Grant Match)	1,3	17S420	\$1,147,450	\$510,650	\$10,327,050	\$10,327,050	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
117	PS 5, 6, 13, 16, 21 and 29 Replace and FM Rehab (50/50 Grant Match)	1,3	17S419	\$885,579	\$77	\$7,970,209	\$7,970,209	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
107	PS - 14 Greenfield Lake FM Replacement	1	18S004	\$400,000	\$400,000	\$4,000,000	\$0	\$0	\$0	\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$0
55	PS - 69 Motts Creek Pump Station Upgrade	1	15S307	\$400,000	\$170,350	\$3,900,000	\$0	\$0	\$0	\$0	\$3,900,000	\$0	\$0	\$0	\$0	\$0
68	PS - 34 Hewlett's Creek Redirect to Northside WWTP through NEI Northern Route	1	18S001	\$150,000	\$150,000	\$1,500,000	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
126	Pump Stations Prioritization and Rehab (PS-32 and PS-51 Included)	1		\$0	\$0	7-,,	\$100,000	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
105	PS - 34 and PS - 35 Aesthetic Improvements	1		\$0		\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
129	College Road Force Main Capacity in Chair Road Force Main	1		\$0	\$0	\$2,200,000	\$0	\$0	\$0	\$0	\$0	\$2,200,000	\$0	\$0	\$0	\$0
	rowth Projects															
127	PS - 36 Capacity Upgrade Cost Recovery	1	18S011	\$300,000	\$300,000	\$4,000,000	\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	Collection System - Standard Developer Agreements	1	17S399	\$650,000	\$77,257	\$1,500,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
128	Forest Creek Outfall Cost Recovery Project	1		\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total W	astewater Capital Improvement Projects			\$30,384,999	\$3,855,024	\$108,589,995	\$40,789,995	\$6,700,000	\$3,750,000	\$6,750,000	\$10,150,000	\$8,450,000	\$13,250,000	\$6,250,000	\$6,250,000	\$6,250,000
Total W	ater Capital Improvement Projects			\$28,262,279	\$11,900,198	\$140,330,000	\$11,250,000	\$70,600,000	\$11,080,000	\$10,050,000	\$7,850,000	\$7,150,000	\$5,850,000	\$5,150,000	\$2,850,000	\$8,500,000
Total Sy	stem Wide Capital Improvement Projects			\$4,384,000	\$1,880,657	\$23,240,000	\$2,900,000	\$2,540,000	\$2,400,000	\$2,400,000	\$2,000,000	\$5,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
Proposed	d Total Capital Improvement Projects			\$63,031,278	\$17,635,879	\$272,159,995	\$54,939,995	\$79,840,000	\$17,230,000	\$19,200,000	\$20,000,000	\$21,000,000	\$20,500,000	\$12,800,000	\$10,500,000	\$16,150,000
Funding																
1	Pay-go Transfers						\$26,119,998	\$6,700,000	\$3,750,000	\$6,750,000	\$10,150,000	\$8,450,000	\$13,250,000	\$6,250,000	\$6,250,000	\$6,250,000
2	Bond Proceeds						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Grants						\$14,669,998	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	SRF Loan Proceeds						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Contributions from Others						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL WASTEWATER						\$40,789,995	\$6,700,000	\$3,750,000	\$6,750,000	\$10,150,000	\$8,450,000	\$13,250,000	\$6,250,000	\$6,250,000	\$6,250,000

SYSTEM WIDE: Projected 10 Year Capital Improvements Plan

Ref. # FY-2019 to FY-2028 CIP	Funding Source	Current Project #	Amount Budgeted Prior to FY-19	Project Balance Jan 1, 2018	FY-19 to FY-28 Planned	FY-19 Planned			FY-22 Planned F	Y-23 Planned	FY-24 Planned	FY-25 Planned FY	Y-26 Planned F	Y-27 Planned	FY-28 Planned
System Wide Capital Improvement Projects							All dollar am	ounts are shown in	2019 dollars						
Systemwide projects for both Water and Wastewater															
34 Motor Fleet Capital	1	17A013	\$1,900,000	\$341,734	\$6,000,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000
40 OPS Large Equipment Purchases (Pumps, Plant Equipment, HVAC)	1	17A012	\$280,000	\$783	\$5,000,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
58 IT and Utility Ops New Ground Water Way Buildings	1		\$0	\$0	\$4,100,000	\$0	\$0	\$0	\$0	\$350,000	\$3,750,000	\$0	\$0	\$0	\$0
114 IT SCADA (Wonderware)	1		\$0	\$0	\$3,000,000	\$750,000	\$750,000	\$750,000	\$750,000	\$0	\$0	\$0	\$0	\$0	\$0
10 IT SCADA (PS Upgrades)	1	16S344	\$750,000	\$564,484	\$1,500,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$0	\$0	\$0	\$0
110 Generator Rehab and Replacement Program (AMP)	1	18A001	\$200,000	\$0	\$2,000,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
30 Information Technology Networking Infrastructure Replacement	1	16A007	\$364,000	\$159,628	\$1,000,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
91 EMD HVAC and Power Supply	1	16W213	\$650,000	\$615,160	\$260,000	\$260,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28 IT Virtual Desktop Migration	1	16A008	\$240,000	\$198,868	\$280,000	\$140,000	\$140,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
115 IT Server Physical Space Expansion and Enhancements	1		\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total System Wide Capital Improvement Projects			\$4,384,000	\$1,880,657	\$23,240,000	\$2,900,000	\$2,540,000	\$2,400,000	\$2,400,000	\$2,000,000	\$5,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
Total Water Capital Improvement Projects			\$28,262,279	\$11,900,198	\$140,330,000	\$11,250,000	\$70,600,000	\$11,080,000	\$10,050,000	\$7,850,000	\$7,150,000	\$5,850,000	\$5,150,000	\$2,850,000	\$8,500,000
Total Wastewater Capital Improvement Projects			\$30,384,999	\$3,855,024	\$108,589,995	\$40,789,995	\$6,700,000	\$3,750,000	\$6,750,000	\$10,150,000	\$8,450,000	\$13,250,000	\$6,250,000	\$6,250,000	\$6,250,000
Proposed Total Capital Improvement Projects			\$77,233,538	\$17,635,879	\$272,159,995	\$54,939,995	\$79,840,000	\$17,230,000	\$19,200,000	\$20,000,000	\$21,000,000	\$20,500,000	\$12,800,000	\$10,500,000	\$16,150,000
												•			
Funding Source															
1 Pay-go Transfers						\$2,900,000	\$2,540,000	\$2,400,000	\$2,400,000	\$2,000,000	\$5,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000
2 Bond Proceeds						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3 Grants						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4 SRF Loan Proceeds						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5 Contributions from Others						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL SYSTEM WIDE						\$2,900,000	\$2,540,000	\$2,400,000	\$2,400,000	\$2,000,000	\$5,400,000	\$1,400,000	\$1,400,000	\$1,400,000	\$1,400,000

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Consistent with its strategic plan, the Authority seeks to protect the environment, ensure public health and safety, and provide the highest quality services to both new and existing customers while maintaining a stable financial position that balances rates and the organization's long-term capital and operating needs. Balancing these objectives presents both challenges and opportunities. Long-term financial planning is a critical tool in developing strategies to ensure that this balance is maintained. Long-term financial planning is the process of aligning financial capacity with long-term service objectives. Financial planning uses forecasts to provide insight into future financial capacity so that strategies can be developed to achieve long-term sustainability considering service objectives and financial challenges.

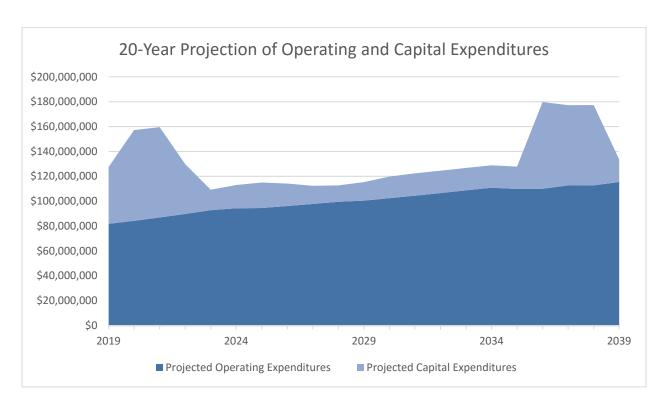
The development of the Authority's 20-year financial plan is an iterative, multi-departmental process and ultimately guided by the Authority's adopted policies and key benchmarks. The goal of this process is to ensure that the Authority remains both operationally and financially sustainable while minimizing the impact to ratepayers. With this goal in mind, the Authority's long-term financial plan seeks to optimize the balance among efficient and effective service delivery; strategic capital investment to address the riskiest infrastructure and facilitate growth and economic development; key financial metrics including debt service coverage and liquidity; and rate affordability.

Operational Sustainability

Operational sustainability means that high-quality service will continue to be delivered to customers over the long-term. This notion not only includes providing water and wastewater treatment, distribution, collection, customer service, engineering, and compliance services but also that the Authority makes sufficient, deliberate capital investments to minimize the risk of infrastructure failure and service disruption. The operating expenditure projections incorporated in the Authority's long-term financial plan were developed with the goals of fully funding operating and maintenance costs at current levels plus inflation; retaining and attracting high-quality staff through competitive salaries and benefits; and executing a capital program focused on rehabilitating and replacing aging, high-risk infrastructure and other major projects. The graph on the following page details the operating and capital expenditure projections incorporated in the Authority's long-term financial plan.

Operating expenditures, excluding debt service expenditures, were assumed to grow in accordance with inflationary assumptions. Salaries and benefits (other than health and dental benefits) are assumed to grow at 4% per year to accommodate growth in the workforce tied to customer and system growth and cost-of-living and merit-based increases. Health and dental benefits are assumed to grow at 8%, while all other operating costs are assumed to grow at 2% per year. Debt service expenditures are based on existing amortization schedules for outstanding debt. Debt service related to planned future debt issuance was based on the Authority's historical borrowing rate, maturities on existing debt, and amortized with level payments for principal and interest.

Capital expenditure projections are based on the Authority's Ten Year Capital Improvement Program, which is developed using risk-based analyses to plan the extent and timing of water and wastewater system improvements. Planned project appropriations included in the 10-Year Capital Improvements Program total \$272.2 million with 73% of these appropriations focused on rehabilitation and replacement of existing infrastructure. Notable projects include the construction of a new raw water transmission line, and upgrades to the Sweeney Water Treatment plant to remove GenX and other unregulated compounds.



Financial Sustainability

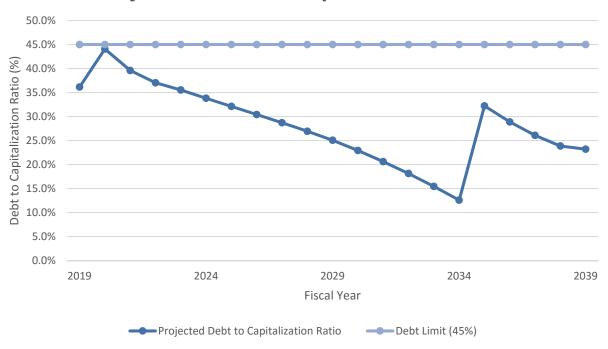
In addition to delivering and executing these services and projects, the Authority's long-term financial plan is focused on achieving the budgetary flexibility resulting from high levels of debt service coverage and liquidity. Further, maintaining debt service coverage and liquidity at high levels is viewed positively by credit markets and helps to ensure that the Authority continues borrowing at low costs.

The Authority's long-term financial plan incorporates the Authority's policy on debt limitations and cash reserve levels. In accordance with these policies, the long-term financial plan includes gradual increases to rates to a structure under which current year rate collections fully fund \$18 million in annual recurring capital expenditures. The Authority is currently planning to complete this transition by FY 22-23. During the transition period the Authority will supplement transfers from the operating fund with available cash reserves to fund capital expenditures. These policies were adopted to produce a resilient financial structure by reducing the proportion of the annual operating budget reserved for mandatory debt service payments, "free up" future borrowing capacity, and achieve robust coverage levels expected of the highest rated water and wastewater utilities.

Debt is a critical capital financing mechanism that provides an immediate funding source and allows for the gradual pay-back of borrowed funds in the future. Debt, however, can be excessive when annual debt service requirements grow to levels that cause rates to increase to unaffordable levels or force cuts to services in the absence of rate increases. The Authority's debt management policy is focused on maintaining the balance between debt funding, rate affordability, and operational sustainability by placing limits on debt issuance.

The Authority's debt management policy explicitly limits debt in two ways. First, the policy provides specific attributes that projects should generally have to be candidates for debt funding (e.g. for high-dollar projects where pay-go funding is impractical or for growth-oriented projects in which it makes sense for future rate payers to pay for those improvements). Second, the policy establishes a debt limit expressed in terms of the debt-to-capitalization ratio (debt outstanding as a percentage of the value of capital assets). The Authority may not issue debt if such issuance would cause the debt to capitalization ratio to exceed 45%. Measuring the Authority's debt load using the debt-to-capitalization is an appropriate way to quantify the Authority's debt load because the ratio reflects the Authority's long-term mix of debt and pay-as-you-go funding. The policy debt metric limit of 45% was derived considering the Authority's debt service coverage target and its expectation of long-term borrowing costs.

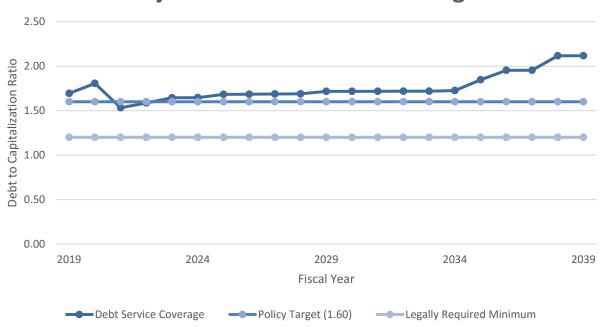
Projected Debt to Capitalization Ratio



The debt-to-capitalization ratio is projected to increase from 36.1% in FY 18-19 to 44.1% in FY 19-20 due to the projected issuance of debt to fund enhancements to the Sweeney plant for the removal of GenX and other unregulated contaminants, expansion of the Authority's raw water transmission line, and aerial water line rehabilitation. The debt-to-capitalization ratio is projected to decrease through FY 33-34 as no new debt is projected to be issued and projected capital investment outpaces projected depreciation on system assets. The debt-to-capitalization ratio is projected to increase to 32.2% in FY 34-35 due to the planned issuance of debt to fund a capacity upgrade for the Southside Wastewater Treatment Plant.

Debt service coverage measures an entity's ability to pay principal and interest on its debt obligations with current year revenues. Debt service coverage more than 1.0 indicates that net operating revenues (revenues minus operating expenses) were greater than the principal and interest due during the period. Financial structures that provide for relatively high debt service coverage ratios are valued by credit markets – the higher the debt service coverage ratio, the more assurance that debt service requirements will be met. The Authority is required to structure its rates so that revenues in any given year are equal to at least 1.2 times of the principal and interest due on its outstanding debt obligations. However, credit markets and raters generally prefer higher debt service coverage ratios. The Authority's debt service coverage target is 1.6.

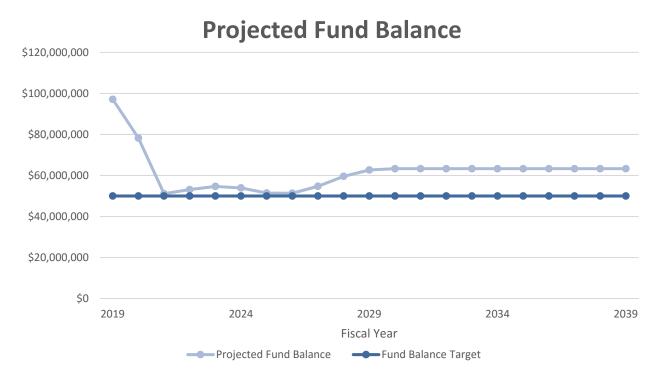
Projected Debt Service Coverage



The graph above indicates that coverage is projected to increase to 1.81 in FY 19-20 rapidly due to annual rate increases to fully fund annual recurring capital expenditures; sharply decrease to 1.53 due to projected increases in debt service from debt issuance to fund enhancements to the Sweeney plant for the removal of GenX and other unregulated contaminants, expansion of the Authority's raw water transmission line, and aerial water line rehabilitation; gradually increase due to decreasing debt service on existing debt to 1.73 in FY 33-34; then increase rapidly through FY 38-38 to 2.12 as existing debt is fully retired which outpaces increases in debt service related to the issuance of debt to fund the capacity upgrade for the Southside Wastewater Treatment Plant.

Available fund balance is another key indicator of financial health. The higher the available fund balance, the higher the capacity to absorb periods of declining revenues, unbudgeted expenditures, or both. At the same time, to minimize the impact to rate payers, it's critical that rates are developed and financial

resources spent so that fund balance in excess of targeted levels is not accumulated. To ensure this balance, Authority policy requires that a risk-based reserve/fund balance target is periodically determined. The Authority's current unrestricted fund balance target is \$50 million. As previously mentioned, the Authority plans to spend available fund balance to fund capital expenditures from FY 18-19 to FY 21-22 as rates are gradually increased to fully fund annual, recurring capital expenditures.



The graph above reflects these plans as fund balance is projected to sharply decrease through FY 21-22. Fund balance is projected to stay roughly flat at the \$50 million target through FY 25-26 and then experiences a projected accumulation to around \$60 million.

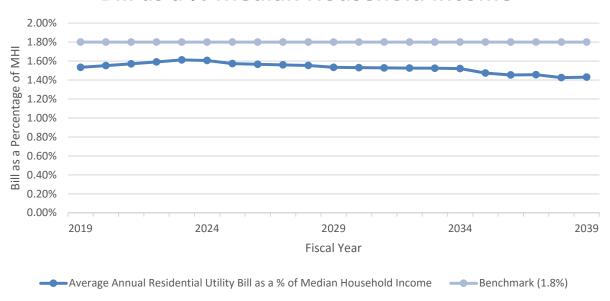
Rate Affordability

While there's no universal metric of affordability, one common metric is to quantify the average annual residential bill as a percentage of median household income for the service area. The Authority's long-term financial plan includes a projection of residential bimonthly combined water and wastewater bills based on consumption of 8,600 gallons per billing cycle with an assumed .5% increase per year in both consumption and equivalent residential units. Estimated median household income data for calendar year 2017 was used as a base year and is projected to grow by 1% per year.

Over the Authority's 20-year financial planning horizon, annual costs of residential water and wastewater service are projected to approach but remain below the target 1.8% of median household income for the service area. The annual residential utility bill as a percentage of median household income is projected to increase from 1.53% in FY 18-19 to 1.61% in FY 22-23 as rates are projected to not only fund inflation in the operating budget but also generate additional revenues to fully fund annual recurring capital

expenditures during that period. From FY 22-23 to FY 33-34 the annual residential utility bill as a percentage of median household income is projected to decrease slightly as annual debt service requirements gradually decrease as no new debt is projected to be issued during that period. The annual residential utility bill as a percentage of median household income is projected to experience a decrease from 1.52% to 1.43% from FY 33-34 to FY 38-39 as existing debt is fully retired which outpaces increases in annual debt service related to the issuance of debt to fund the capacity upgrade for the Southside Wastewater Treatment Plant during that period.

Projected Average Annual Residential Utility Bill as a % Median Household Income



Source: U.S. Census Bureau

Conclusion

Ensuring that the Authority continues to provide high-quality water and wastewater service to its customers, remains in a strong financial position, and minimizes the impact to customers requires a careful balance. Long-term financial planning is an important tool that the Authority uses to maintain this balance in a proactive manner. Guided by financial policies, the Authority's long-term financial plan fully funds operations at current levels plus inflation and funds an aggressive capital program focused on rehabilitating and replacing aging infrastructure. At the same time, target levels of debt, debt service coverage, and liquidity are projected to be attained while keeping the cost of service affordable for customers.

CAPE FEAR PUBLIC UTILITY AUTHORITY ACRONYMS

TERM	STANDS FOR
AMR	Automatic Meter Reading
APWA	American Public Works Association
ARRA	
ANNA	American Recovery and
ACD	Reinvestment Act
ASR	Aquifer Storage and Recovery
AWOP	Area Wide Optimization Program
AWWA	American Water Works Association
BOD	Biochemical Oxygen Demand
CAFR	Comprehensive Annual Financial
	Report
CAMA	Coastal Area Management Act
CBOD	Carbonaceous Biochemical Oxygen
	Demand
CFPUA	Cape Fear Public Utility Authority
CIP	Capital Improvement Program
CMMS	Computer Maintenance
	Management System
CMOM	Capacity Management, Operations
	& Maintenance
COD	Chemical Oxygen Demand
COPS	Certificates of Participation
COW	City of Wilmington
C-PAR	Corrective/Preventative Action
	Report
CWM	Clean Water Management
CWSRF	Clean Water State Revolving Funds
CY	Calendar Year
DART	Days Away Restricted Transferred
DBP	Disinfection Byproduct
DHS	Department of Homeland Security
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
DR	Disaster Recovery
DWQ	Division of Water Quality
EDC	Endocrine Disrupting Compound
EDMR	Electronic Discharge Monitoring
	Report
EEOC	Equal Employment Opportunity
	Commission
EMS	Environmental Management
	System
EOC	Emergency Operations Center
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
ERT	Encoder Receiver Transmitter
LIVI	Literaci Necelvei Hallallillei

TERM	STANDS FOR
ERP	Enterprise Resource Planning
FEMA	Federal Emergency Management
	Agency
FOG	Fats, Oils and Grease
FSE	Food Service Establishment
FTE	Full Time Equivalent Positions
FY	Fiscal Year
GAAP	Generally Accepted Accounting
	Principles
GASB	Government Accounting Standards
	Board
GC	Gas Chromatograph
GFOA	Government Finance Officers
	Association
GIS	Geographic Information Systems
GPD	Gallons per day
GPS	Global Positioning System
GS	General Statute
HAZMAT	Hazardous Material
НМІ	Human Machine Interface
HVAC	Heating, Ventilation and Air
	Conditioning
1/1	Infiltration and Inflow
ICP-MS	Inductively Coupled Plasma-Mass
	Spectrometry
ICS	Incident Command System
ILA	Interlocal Agreement
IRR	Irrigation
ISO	International Organization for
	Standardization (Greek)
IT	Information Technology
IU	Industrial User
IVR	Interactive Voice Response
KPI	Key Performance Indicator
LCFWSA	Lower Cape Fear Water & Sewer
	Authority
LCS	Lab Control Samples
LIMS	Laboratory Information
	Management System
LWSP	Local Water Supply Plan
MDD	Maximum Daily Demand
MDF	Maximum Daily Flow
MGD	Million gallons per day
MOU	Memorandum of Understanding
MSDS	Material Safety Data Sheet

CAPE FEAR PUBLIC UTILITY AUTHORITY ACRONYMS

TERM	STANDS FOR
NACWA	National Association of Clean
IVACVA	Water Agencies
NCDENR	North Carolina Department of
NCDLINI	Environment & Natural Resources
NCDWQ	North Carolina Division of Water
NCDVVQ	Quality
NCRWA	North Carolina Rural Water
NCRWA	Association
NEI	Northeast Interceptor
NHC	'
	New Hanover County
NIMS	National Incident Management
NOAA	System
NOAA	National Oceanic and Atmospheric
NOV	Administration
NOV	Notice of Violation
NPDES	National Pollutant Discharge
	Elimination System
NTU	Nephlometric Turbidity Units
0 & M	Operational & Maintenance
ORC	Operator in Responsible Charge
OSHA	Occupational Safety and Health
	Administration
PER	Preliminary Engineering Report
pH	Potential of Hydrogen
POSM	Pipeline Observation System
	Management
POTW	Public Owned Treatment Works
PPCP	Pharmaceuticals and Personal Care
	Products
PPM	Parts per million
PS	Pump Station
PSA	Protective Security Advisor
PWS	Public Water Supply
QA	Quality Assurance
QC	Quality Control
RFP	Request for Proposal
SBR	Sequencing Batch Reactor
SCADA	Supervisory Control and Data
	Acquisition
SDC	System Development Charge
SIU	Significant Industrial User
SKN	Soluble Kjeldahl Nitrogen
SNC	Significant Non-Compliant
SOI	Standard Operating Instructions
SOP	Standard Operating Procedures
	,

TERM	STANDS FOR
SSO	Sanitary Sewer Overflow
SUO	Sewer Use Ordinance
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TMDL	Total Maximum Daily Loads
TOC	Total Organic Carbon
TRC	Technical Review Committee
TSS	Total Suspended Solids
TTHM	Total Trihalomethanes
UNCW	University of North Carolina at
	Wilmington
USACE	United States Army Corp. of
	Engineers
USEPA	United States Environmental
	Protection Agency
VPN	Virtual Private Network
WEA	Water Environment Association
WEF	Water Environment Federation
WERF	Water Environment Research
	Foundation
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

_			Rates and Fees Effective 1/1/18	Rates and Fees Effective 7/1/18	Ordinance Reference
-	WATER RATES & FEES Water rates include both a fixed motor charge based on motor size and consumption charge based on motored				
	Water rates include both a fixed meter charge based on meter size and consumption charge based on metered consumption, billed bi-monthly (every two months).				
۱.	Fixed Meter Charge by Meter Size*		Bi-Monthly	Bi-Monthly	
	5/8"	\$	26.67	\$ 27.56	Sec. 1-97 (1)
	1" (Single-Family Residential with fire sprinkler system)	\$		\$ 27.56	Sec. 1-97 (1
	1"	\$		\$ 68.90	Sec. 1-97 (1
	1 1/2"	\$		\$ 137.80	Sec. 1-97 (1)
	2" 3"	\$		\$ 220.48	Sec. 1-97 (1) Sec. 1-97 (1)
	4"	\$		\$ 413.40 \$ 689.00	Sec. 1-97 (1 Sec. 1-97 (1
	6"	\$		\$ 1,378.00	Sec. 1-97 (1
	8"	\$		\$ 2,204.80	Sec. 1-97 (1
	10"	\$		\$ 3,445.00	Sec. 1-97 (1
	12"	\$	4,000.50	\$ 4,134.00	Sec. 1-97 (1
	* Fixed Meter Charge is not applied to Irrigation Meters if a separate Water Meter exists.				
•	Consumption Charge (per 1,000 gallons)**	\$	3.85	\$ 4.02	Sec. 1-97 (1
	** Single-Family Residential is serviced by one domestic meter		Di Manthi.	Di Manthi.	
	Availability Charge for unconnected 5/8" water service; Availability Charge for larger meters based on meter size		Bi-Monthly 26.67	Bi-Monthly \$ 27.56	Sec. 1-97 (1
	Availability Charge for unconnected 5/6 water service, Availability Charge for larger meters based on meter size	, J	20.07	\$ 27.30	3ec. 1-97 (1
	Bulk Water Rates				
	Bulk Water Resale Rate (per 1,000 gallons)	\$	3.09	\$ 3.48	Sec. 1-97 (1
	Bulk Reclaimed Water In-Service Area Rate (per 1,000 gallons)	\$			Sec. 1-97 (1)
	Bulk Reclaimed Water Deposit In-Service Area Rate ***		\$100 minimum	\$100 minimum	Sec. 1-97 (1)
	Bulk Reclaimed Water Out-of-Service Area Rate (per 1,000 gallons)	\$	3.19	\$ 3.19	Sec. 1-97 (1)
	Bulk Reclaimed Water Deposit Out-of-Service Area Rate***		\$125 minimum	\$125 minimum	Sec. 1-97 (1)
	*** Greater of 3 months estimated usage or the minimum				
	Water Service Connection Fee*				
	Service Line Connection Fee by Service Size 1" Service	\$	1,850.00	\$ 1,850.00	Sec. 1-97 (2) a; Sec. 1-5
	2" Service	\$			Sec. 1-97 (2) a; Sec. 1-5
		Ť	2,500.00	Ç 2,500.00	500. 1 57 (2) 0, 500. 1 5
	Inspection Fee for Developer-Installed Connection	\$	55.00	\$ 55.00	Sec. 1-97 (2) b; Sec. 1-6
	Inspection Fee for Developer-Installed Connection (After hours - Minimum of 2 hours)		\$75/hour	\$75/hour	Sec. 1-97 (2) b; Sec. 1-6
٠	Meter Set Fee by Meter Size (includes labor and materials)	-			
	5/8" 5/8" Split Service	\$		\$ 250.00 \$ 375.00	Sec. 1-97 (2) c; Sec. 1-5 Sec. 1-97 (2) c; Sec. 1-5
	1"	\$			Sec. 1-97 (2) c; Sec. 1-
	1 1/2"	\$		\$ 1,600.00	Sec. 1-97 (2) c; Sec. 1-5
	2"	Ś			Sec. 1-97 (2) c; Sec. 1-5
			,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	() , , , , , , , , , , , , , , , , , ,
ì.	System Development Charges				
	Water by Meter Size				Sec. 4-27
	5/8" (no Water SDC due on a 5/8" irrigation meter)	\$		\$ 1,830.00	Sec. 1-97 (2
	1" (Single-Family Residential with fire sprinkler system)	\$		\$ 1,830.00	Sec. 1-97 (2
	1"	\$			Sec. 1-97 (2)
	1 1/2"	\$			Sec. 1-97 (2
	2" 3"	\$			Sec. 1-97 (2
	4"	\$			Sec. 1-97 (2)
	6"	\$			Sec. 1-97 (2 Sec. 1-97 (2
	8"	\$			Sec. 1-97 (2
	10"	\$			Sec. 1-97 (2
			,		
	Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NC	AC			
	O2T.0114 - Design Flow Rates				
	Water Development Charge (minimum \$1,348.00 = 400 gallons)		\$3.37 per gallon	\$3.37 per gallon	Sec. 1-97 (2
ı.	Special Use of Water				
	Water Rates include both a fixed meter charge as referenced in Section A based on meter size or backflow prevente	r size,			
	whichever is less, plus consumption charge based on metered consumption as referenced in Section B, billed bi-more	nthly			
	(every two months).				
	Fixed Meter Charge by Size		Initial Fee	Initial Fee	
	5/8"	\$			Sec. 1-97 (3
	3/4"	\$			Sec. 1-97 (3
	1 1/2"	\$			Sec. 1-97 (3 Sec. 1-97 (3
	2"	\$			Sec. 1-97 (3 Sec. 1-97 (3
	3"	\$			Sec. 1-97 (3
	4"	\$			Sec. 1-97 (3
	Lost or stolen special use sign	Ş			Sec. 1-97 (3
			22.20		

CAPE FEAR PUBLIC UTILITY AUTHORITY RATES AND FEES SCHEDULE FY 17-18

		ites and Fees ective 1/1/18	Rates and Fees Effective 7/1/18	Ordinance Reference
Initial inspection		No Charge	No Charge	Sec. 1-97 (2)
Subsequent inspections	\$	55.00	\$ 55.00	Sec. 1-97 (2)
I. Fire Line Service				
Fixed Fire Line Charge by Size		Bi-Monthly	Bi-Monthly	
2"	\$	20.00	\$ 20.00	Sec. 1-97 (1)
4" 6"	\$	40.00 80.00	\$ 40.00 \$ 80.00	Sec. 1-97 (1)
8"	\$		\$ 140.00	Sec. 1-97 (1) Sec. 1-97 (1)
10"	\$	220.00		Sec. 1-97 (1)
12"	\$	320.00		Sec. 1-97 (1
2 SEWER RATES & FEES				
Sewer rates include both a fixed meter charge based on meter size and consumption charge based on metered				
consumption, billed bi-monthly (every two months).				
A. Fixed Meter Charge by Meter Size 5/8"	\$	3i-Monthly 29.10	Bi-Monthly \$ 29.10	Sec. 1-97 (1) f; Sec. 1-
1" (Single-Family Residential with fire sprinkler system)	\$	29.10	\$ 29.10	Sec. 1-97 (1) f; Sec. 1-
1"	\$	72.75	\$ 72.75	Sec. 1-97 (1) f; Sec. 1-
1 1/2"	\$	145.50	\$ 145.50	Sec. 1-97 (1) f; Sec. 1-
2"	\$	232.80	\$ 232.80	Sec. 1-97 (1) f; Sec. 1-
3"	\$	436.50	\$ 436.50	Sec. 1-97 (1) f; Sec. 1-
4"	\$	727.50	\$ 727.50	Sec. 1-97 (1) f; Sec. 1-
	\$	1,455.00	\$ 1,455.00	Sec. 1-97 (1) f; Sec. 1-
10"	\$	2,328.00	\$ 2,328.00 \$ 3,637.50	Sec. 1-97 (1) f; Sec. 1- Sec. 1-97 (1) f; Sec. 1-
12"	\$	3,637.50 4,365.00		Sec. 1-97 (1) f; Sec. 1-
	y	4,303.00	3 4,303.00	Jec. 1-37 (1)1, Jec. 1-
8. Consumption Charge (per 1,000 gallons) See Notes 1,2,3,4	\$	4.58	\$ 4.63	Sec. 1-97 (1) c; Sec. 1-
Note 1 Single-Family Residential metered consumption capped at 30,000 gallons per bi-monthly billing				Sec. 1-97 (1) c; Sec. 1-
Single Family Residential non-metered consumption based on the average residential consumption plus				S 1 07 (1) - S 1
Note 2 the fixed metered charge for a 5/8" meter Note 3 Nonresidential non metered consumption capped at 24,000 gallons per bimonthly billing				Sec. 1-97 (1) g; Sec. 1- Sec. 1-97 (1) g; Sec. 1-
Note 4 No cap for non-residential metered consumption				Sec. 1-97 (1) c; Sec. 1-
Note 5 Single-Family Residential is serviced by one domestic meter				300. 1 37 (1) 0, 300. 1
C. Availability Charge for unconnected 5/8" sewer service; Availability Charge for larger meters based on meter size	\$	Bi-Monthly 29.10	Bi-Monthly \$ 29.10	Sec. 1-97 (1)
D. Bulk Wastewater Collection and Treatement Rate (per 1,000 gallons)		\$3.32	\$3.34	Sec. 1-97 (1)
E. Sewer Service Connection Fee				
Installation Fee by Service Size				
4" Service	\$	2,200.00		Sec. 1-97 (2) a; Sec. 1-5
6" Service	\$	2,800.00		Sec. 1-97 (2) a; Sec. 1-
Inspection Fee for Developer-Installed Connection Inspection Fee for Developer-Installed Connection (After hours - Minimum of 2 hours)	\$	55.00 \$75/hour	\$ 55.00 \$75/hour	Sec. 1-97 (2) b; Sec. 1- Sec. 1-97 (2) b; Sec. 1-
			, , , ,	() , ,
F. System Development Charges				Sec. 4-47
Sewer by Meter Size	ċ	2 120 00	ć 1,800,00	
5/8" 1" (Single-Family Residential with fire sprinkler system)	\$	2,130.00 2,130.00	\$ 1,800.00 \$ 1,800.00	Sec. 1-97 (2 Sec. 1-97 (2
1"	\$	5,325.00	\$ 4,500.00	Sec. 1-97 (2
1 1/2"	\$	10,650.00	\$ 9,000.00	Sec. 1-97 (2
2"	\$	17,040.00	\$ 14,400.00	Sec. 1-97 (2
3"	\$	31,950.00	\$ 27,000.00	Sec. 1-97 (2
4"	\$	53,250.00	\$ 45,000.00	Sec. 1-97 (2
6"	\$	106,500.00	\$ 90,000.00	Sec. 1-97 (2
8"	\$	170,400.00 266,250.00	\$ 144,000.00 \$ 225,000.00	Sec. 1-97 (7 Sec. 1-97 (7
10	Ş		\$ 225,000.00 \$10/gallon	
Unmetered service (sewer only)		\$10/gallon projected flow	projected flow	Sec. 1-97 (.
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC				Sec. 1-97 (2
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates		projected flow	projected flow	·
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons)		projected flow 7.013 per gallon	projected flow \$7.013 per gallon	Sec. 1-97 (2
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates		projected flow	projected flow	Sec. 1-97 (2
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge		projected flow 7.013 per gallon	projected flow \$7.013 per gallon	Sec. 1-97 (2
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge Development Capacity Fees Chair Road Associates - Regional Lift Station (PS #157) and Northwest Forcemain Improvements		7.013 per gallon 51.50 per gallon \$5.04 per gpd	\$7.013 per gallon \$1.50 per gallon \$5.04 per gpd	Sec. 1-97 (; Sec. 1-97 (; Per Contr
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge Development Capacity Fees Chair Road Associates - Regional Lift Station (PS #157) and Northwest Forcemain Improvements Chair Road Associates - Northwest Forcemain Improvements Only		7.013 per gallon \$1.50 per gallon \$5.04 per gpd \$3.76 per gpd	\$7.013 per gallon \$1.50 per gallon \$5.04 per ggd \$3.76 per ggd	Sec. 1-97 (Sec. 1-97 (Per Contr Per Contr
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge 5. Development Capacity Fees Chair Road Associates - Regional Lift Station (PS #157) and Northwest Forcemain Improvements		7.013 per gallon 51.50 per gallon \$5.04 per gpd	\$7.013 per gallon \$1.50 per gallon \$5.04 per gpd	Sec. 1-97 (2 Sec. 1-97 (2 Per Contr Per Contr
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge 5. Development Capacity Fees Chair Road Associates - Regional Lift Station (PS #157) and Northwest Forcemain Improvements Chair Road Associates - Northwest Forcemain Improvements Only Kirkland Sewer Project Capacity Fee		7.013 per gallon \$1.50 per gallon \$5.04 per gpd \$3.76 per gpd	\$7.013 per gallon \$1.50 per gallon \$5.04 per ggd \$3.76 per ggd	Sec. 1-97 (2 Sec. 1-97 (2 Per Contr Per Contr
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge 5. Development Capacity Fees Chair Road Associates - Regional Lift Station (PS #157) and Northwest Forcemain Improvements Chair Road Associates - Northwest Forcemain Improvements Only		7.013 per gallon \$1.50 per gallon \$5.04 per gpd \$3.76 per gpd	\$7.013 per gallon \$1.50 per gallon \$5.04 per ggd \$3.76 per ggd	Sec. 1-97 (2 Sec. 1-97 (2 Per Contr Per Contr
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge Development Capacity Fees Chair Road Associates - Regional Lift Station (PS #157) and Northwest Forcemain Improvements Chair Road Associates - Northwest Forcemain Improvements Only Kirkland Sewer Project Capacity Fee		7.013 per gallon \$1.50 per gallon \$5.04 per gpd \$3.76 per gpd	\$7.013 per gallon \$1.50 per gallon \$5.04 per ggd \$3.76 per ggd	Sec. 1-97 (2 Sec. 1-97 (2 Per Contr Per Contr
Unmetered service (sewer only) Shell Buildings Alternative Fee Calculation - former NHC Water & Sewer District. Fees base on class of use & 15A NCAC O2T.0114 - Design Flow Rates Sewer Impact Fee (minimum \$2,103.90 = 300 gallons) Sewer Development Charge Development Capacity Fees Chair Road Associates - Regional Lift Station (PS #157) and Northwest Forcemain Improvements Chair Road Associates - Northwest Forcemain Improvements Only Kirkland Sewer Project Capacity Fee Wastewater Pretreatment		7.013 per gallon \$1.50 per gallon \$5.04 per gpd \$3.76 per gpd	\$7.013 per gallon \$1.50 per gallon \$5.04 per ggd \$3.76 per ggd	Sec. 1-97 (2 Sec. 1-97 (2 Per Contr Per Contr

CAPE FEAR PUBLIC UTILITY AUTHORITY RATES AND FEES SCHEDULE FY 17-18

		Rates and Fees Effective 1/1/18	Rates and Fees Effective 7/1/18	Ordinance Reference
	Modification of Permit (each occurrence)	\$ 200.00	\$ 200.00	Sec. 5-58: Sec. 5-91 (
	Restoration of Revoked Permit (each occurrence)	\$ 1,500.00	\$ 1,500.00	Sec. 5-58: Sec. 5-91 (
		Individually	Individually	
	Monitoring Fee	determined		Sec. 5-
	Enforcement Cost Recovery	Individually determined	Individually determined	Con 1 07/3\:.Con F
	Emorcement Cost Recovery	determined	determined	Sec. 1-97 (3) j; Sec. 5-
. Other Wast	tewater Permits	4 400.00	400.00	
	Flow Less than 1,000 gallons/day (initial and annual)	\$ 100.00		Sec. 5-58: Sec. 5-91
	Flow Between 1,000 and 7,500 gallons/day (initial and annual)	\$ 200.00		Sec. 5-58: Sec. 5-91
	Flow Between 7,501 and 15,000 gallons/day (initial and annual)	\$ 300.00		Sec. 5-58: Sec. 5-91
		Individually	•	
	Monitoring Fee	determined		Sec. 5
	Food Service Establishment Permit and Annual Inspection Fee (per location)	\$ 100.00		Sec. 5-58: Sec. 5-91
_	Grease Interceptor Pumping Variance (each occurrence)	\$ 220.00		Sec. 5
	Enforcement Cost Bassyon	Individually determined		Sec. 1.07/2\ i. Sec. F
	Enforcement Cost Recovery Restoration Fee of Revoked Other Wastewater Permit (each occurrence)	2x permit fee	determined 2x permit fee	Sec. 1-97 (3) j; Sec. 5 Sec. 1-97 (1) d; Sec. 5
	Residuals permit application fee (initial and renewals)	\$ 100.00		Sec. 1-97 (1) 0; Sec. 5
_	nestados permit applicación de (initial dila refierada)	ŷ 100.00	Ç 100.00	300. 3
. Pretreatme	ent Wastewater Treatment Surcharges	Monthly	Monthly	
	Surcharge for BOD (per 100 lbs; when BOD>200mg/L and COD < 3x BOD)****	\$ 36.00	\$ 36.00	Sec. 1-97 (1) d; Sec. 5
	Surcharge for COD (per 100 lbs; when COD>600mg/L and >/=3xBOD)****	\$ 36.00	\$ 36.00	Sec. 1-97 (1) d; Sec. 5
	Surcharge for TSS (per 100 lbs; when TSS >200mg/l)	\$ 21.00	\$ 21.00	Sec. 1-97 (1) d; Sec. 5
	**** Surcharge is assessed for either BOD or COD, but not both.			
. Charges for	Septage Haulers	Monthly	Monthly	
	In-Service Area Rate (per gallon)	\$ 0.1378		Sec. 1-97 (1) b; Sec. 5-
	Out-of-Service Area Rate (per gallon)	\$ 0.1723	\$ 0.1723	Sec. 1-97 (1) b; Sec. 5
	Utility Deposit	\$ 500.00		Sec.
. Charges for	Miscellaneous Hauled Wastewater Fees (subject to applicable surcharges)			
	Short-Term Permit	Monthly	Monthly	
	Per gallon Within Service Area	\$ 0.030	\$ 0.030	Sec. 1-97 (1) b; Sec. 5
	Per gallon Out-of-Service Area	\$ 0.060	\$ 0.060	Sec. 1-97 (1) b; Sec. 5
	Long-Term Permit			
	One Time System Development Charge In accordance with Fee Schedule and specified in permit.			Sec. 1-97 (2)d; Sec. 5-
	one time system beteropment enarge in decordance than the schedule and specified in permit.	Monthly	Monthly	300. 1 37 (2)0, 300. 3
	Long-Term Permit Monthly Consumption Charge (per 1,000 gallons)	\$ 4.58	\$ 4.63	Sec. 1-97 (1) c; Sec. 5-
	Long-Term Permit Monthly Fixed Meter Charge by Meter Size/Flow:			
	5/8" (Flow between 0-28,800 gpd)	\$ 29.10	\$ 29.10	Sec. 1-97 (1) f; Sec. 5-
	1" (Flow between 28,801-72,000 gpd)	\$ 72.75	\$ 72.75	Sec. 1-97 (1) f; Sec. 5-
	1 1/2" (Flow between 72,001-144,000 gpd)	\$ 145.50	\$ 145.50	Sec. 1-97 (1) f; Sec. 5-
	2" (Flow between 144,001-230,400 gpd)	\$ 232.80	\$ 232.80	Sec. 1-97 (1) f; Sec. 5
	3" (Flow between 230,401-460,800 gpd)	\$ 436.50	\$ 436.50	Sec. 1-97 (1) f; Sec. 5
	4" (Flow between 460,801-720,000 gpd)	\$ 727.50	\$ 727.50	Sec. 1-97 (1) f; Sec. 5
	6" (Flow between 720,001-1,440,000 gpd)	\$ 1,455.00	\$ 1,455.00	Sec. 1-97 (1) f; Sec. 5
	8" (Flow between 1,440,001-2,304,000 gpd)	\$ 2,328.00		Sec. 1-97 (1) f; Sec. 5
	10" (Flow between 2,304,001-3,312,000 gpd)	\$ 3,637.50		Sec. 1-97 (1) f; Sec. 5
	12" (Flow > 3,312,001 gpd)	\$ 4,365.00	\$ 4,365.00	Sec. 1-97 (1) f; Sec. 5
. Processing	Charge for Haulers of Non-Hazardous Wastewater Treatment Plant (WWTP) Residuals as delivered to a			
designated	CFPUA WWTP (Per Pound Total Solids Dry Weight Basis as Delivered/Received)	Monthly	Monthly	
	Unstabilized/Less Than Class B Residuals In-Service Area Rate	\$ 0.8020		Sec. 1-97 (1) b; Sec. 5
	Stabilized/Equal to or Better Than Class B Residuals In-Service Area Rate	\$ 0.6015		Sec. 1-97 (1) b; Sec. 5
	Unstabilized/Less Than Class B Residuals Out-of-Service Area Rate	\$ 1.0025		Sec. 1-97 (1) b; Sec. 5
	Stabilized/Equal to or Better Than Class B Residuals Out-of-Service Area Rate	\$ 0.7519	\$ 0.7519	Sec. 1-97 (1) b; Sec. 5
Penalties				
. Tampering	Violations			
	Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed			
	consumption in the past 24 months)	\$110.10 minimum	\$120.60 minimum	Sec. 1-97 (3) m; Sec 1-166
	Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption)	\$136.80	\$138.90	Sec. 1-97 (3) m; Sec 1-166
	Cut Lock Fee	\$75.00	\$75.00	Sec. 1-97 (3) f; Sec. 1-166
	Unauthorized turn on or turn off water supplied by Authority	\$50.00	\$55.00	Sec. 1-9 (g); Sec. 1-9
	Meter Obstruction Fee	\$55.00	\$55.00	Sec. 1-97 (3
		Triple the amount	Triple the amount	
		of losses and		
		damages sustained	damages sustained	
		by the Authority or	by the Authority or	
		the second second second	\$5000, whichever is	
		\$5000, whichever is		Sec. 1-97 (
	System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e)	\$5000, whichever is greater	greater	Jec. 1-37 (
	System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) Violation of Cross Connection Control Ordinance		greater Up to \$1,000/day	Sec. 2-10
Dagliff	Violation of Cross Connection Control Ordinance	greater		
Backflow Pi	Violation of Cross Connection Control Ordinance reventer Violations	greater Up to \$1,000/day	Up to \$1,000/day	Sec. 2-1
Backflow Pi	Violation of Cross Connection Control Ordinance	greater Up to \$1,000/day \$200.00	Up to \$1,000/day \$200.00	Sec. 2-1 Sec. 2-10
Backflow Pi	Violation of Cross Connection Control Ordinance reventer Violations Commercial failure to submit required backflow preventer test report	greater Up to \$1,000/day	Up to \$1,000/day	

CAPE FEAR PUBLIC UTILITY AUTHORITY RATES AND FEES SCHEDULE FY 17-18

			Rates and Fees Effective 1/1/18	Rates and Fees Effective 7/1/18	Ordinance Reference
		Subsequent violation of backflow installation requirements	\$1,000.00	\$1,000.00	Sec. 2-10 (b
_	D				
C.	Pretreatment \	Violations	Up to \$25,000	Up to \$25,000	Sec. 5-189
		Violation of Sewer Use Ordinance	Up to \$25,000	Up to \$25,000	Sec. 5-189
D.	Water Emerge	ncy Management Ordinance			
		Violation of Water Emergency Management Regulations	Up to \$500/day	Up to \$500/day	Sec. 3-13 (c
5	Miscellanec	Dus and Other			
•	Wilderice				
۱.	Service/repair	rosts			
	oc. rice, repair		Individually	Individually	
		Contracted services at actual cost plus 10% administrative fee	determined	determined	Sec. 1-9 (
			Individually	Individually	
		CFPUA staff and equipment at FEMA reimbursable cost	determined	determined	Sec. 1-9 (e
2	Other Fees				
•	Other rees		Individually	Individually	
		After Hours Fee	determined	determined	Sec. 1-97 (3)
		Emergency Reconnect Fee	\$ 110.00	\$ 110.00	Sec. 1-97 (3)
		Late Day Reconnect Fee		\$ 55.00	Sec. 1-97 (3)
				10% of balance; \$25	
			-	maximum on Single-	
		Lata Fao	Family Residential services	Family Residential	C 1 07 (2)
		Late Fee Loan Processing Fee/Deferral Fee	Actual Cost to File	services Actual Cost to File	Sec. 1-97 (3) Sec. 1-97 (3)
		Meter Test	\$ 55.00		Sec. 1-97 (3) I; Sec. 1-36; Sec. 1-16
		Large Meter Test (requested by Customer) (Meters 3" and larger)		\$ 150.00	Sec. 1-36; Sec. 1-16
		New Service Charge		\$ 55.00	Sec. 1-97 (3) d; Sec. 1-6 (a
		Premise Visit Fee	\$ 55.00	\$ 55.00	Sec. 1-97 (3) p; Sec. 1-1
		Delinquency Fee	\$ 55.00	\$ 55.00	Sec. 1-97 (3)m; Sec. 1-166 (a
		Reread Fee (requested by Customer)			
		Correct Read	\$ 55.00	\$ 55.00	Sec. 1-97 (3)
		Incorrect Read (CFPUA error)	No Cost	No Cost	Sec. 1-97 (3)
		Reconnection Fee (after disconnect)	\$ 55.00	\$ 55.00	Sec. 1-97 (3)
		Utility Deposit Single-Family Residential (may be adjusted by Customer Service Director based on services	U- +- ¢200	U- +- ¢200	C 1
		provided and prior payment history)	Up to \$200 Determined by	Up to \$200 Determined by	Sec. 1-
		Utility Deposit Commercial	Policy	Policy	Sec. 1-
		Hydrant Meter Deposit for festivals (up to 1 1/2" meter size)	\$ 500.00		Sec. 1-97 (3)
		Hydrant Meter Deposit for festivals (2" and higher meter size)	Actual Cost	Actual Cost	Sec. 1-97 (3)
		Hydrant Meter Installation & Removal for festivals (per meter)	\$ 55.00	\$ 55.00	Sec. 1-97 (3)
		Plan Review Fees:			
		Minor Subdivisions - no required NCDEQ water or sewer permits	\$ 120.00	\$ 120.00	Sec. 1-97 (3) I; Sec. 4-3 (a
		Commercial Plans (multi-family residential/commercial) - no required NCDEQ water and sewer			
		permits Main Extraorions (I Militar releastion / ROW) wildowing less than EQQ Linear Foot	\$ 120.00		Sec. 1-97 (3) I; Sec. 4-3 (
		Main Extensions/Utility relocation/ROW widening less than 500 Linear Feet Main Extensions/Utility relocation/ROW widening 500-999 Linear Feet	\$ 240.00 \$ 300.00	\$ 240.00 \$ 300.00	Sec. 1-97 (3) l; Sec. 4-3 (a Sec. 1-97 (3) l; Sec. 4-3 (a
		Main Extensions/Othley relocation/ROW widening 1,000-4,999 linear feet	\$ 600.00	\$ 600.00	Sec. 1-97 (3) I; Sec. 4-3 (
		Main Extensions/Utility relocation/ROW widening 5,000-9,999 linear feet	\$ 850.00		Sec. 1-97 (3) I; Sec. 4-3 (
		Main Extensions/Utility relocation/ROW widening 10,000 linear feet and greater	\$ 1,400.00		Sec. 1-97 (3) I; Sec. 4-3 (a
		Pump Station Review (plus the main extensions fee above)	\$ 350.00		Sec. 1-97 (3) I; Sec. 4-3 (
		Re-review Fee	\$ 50.00		Sec. 1-97 (3) I; Sec. 4-3 (
		Water/Sewer Line Acceptance Testing Reinspection	\$55/hour	\$55/hour	Sec. 4-3 (
		Water/Sewer Line Acceptance Testing Reinspection - After Hours Fee	\$75/hour	\$75/hour	Sec. 4-3 (
		Inspection Fee for Developer-Installed Main Lines (After hours - Minimum of 2 hours)	\$75/hour	\$75/hour	Sec. 1-97 (2) b; Sec. 1-6 (
		Demolition Inspection Fee		\$ 55.00	Sec. 1-97 (3) s; Sec. 1-6 (
		Violation of Extension Policy	\$100, \$200, \$500	\$100, \$200, \$500	Sec. 4-10
		Copy and Printing Fees, including Public Records Request	Actual cost	Actual cost	
		Tank Mounted Equipment Structural Analysis Review Fee	\$ 1,250.00	\$ 1,250.00	Sec. 1-97 (3)
			Individually	Individually	
			determined;	determined;	
		Water Tower Lease	\$2,500 minimum	\$2,500 minimum	Set by contra
		Additional Antenna Fee - per antenna exceeding nine antennas	\$ 300.00		
		Ground Space Fee - Additional ground space above 400 square feet	\$5.92/square foot	\$5.92/square foot	
		-			
С.	Miscellaneous	Administrative Fees			
		Returned Check Fee (Per event; Closed Account, NSF, Stop Payment of Customer/Vendor issued Check)	\$ 25.00	\$ 25.00	Sec. 1-97 (3
		Convenience Fee per transaction; maximum payment amount up to \$500 per transaction.	\$ 3.75		
		Dishonored Bank Draft Fee (Per event; Closed Account, NSF, Stop Payment of Customer/Vendor Draft) Check Stop Payment Fee (Stop Payment of CFPUA issued Check requested by Customer/Vendor)	\$ 25.00		Sec. 1-97 (3
			\$ 5.00	\$ 5.00	Sec. 1-97 (3

Cape Fear Public Utility Authority Demographic Statistics Current Fiscal Year and Last Eight Fiscal Years

Fiscal Year	City of	New Hanover		Public	Local		
Ended	Wilmington	County	Median	School	Unemployment	Personal	Per Capita
June 30	Population (1)	Population (1)	Age (3)	Enrollment (2)	Rate % (3)	Income (4)	Income (4)
2017	117,525	223,483	38	26,096	3.9%	N/A	\$40,487
2016	115,933	220,358	38	25,901	4.8%	N/A	N/A
2015	113,657	216,298	38	26,241	5.6%	N/A	N/A
2014	112,067	213,267	38	25,470	6.1%	N/A	\$40,076
2013	109,922	209,234	38	25,364	9.1%	N/A	\$38,846
2012	108,297	206,189	37.5	25,253	9.3%	\$50,890	\$37,559
2011	106,476	202,667	36.7	23,934	10.1%	\$45,890	\$36,108
2010	102,207	194,054	38.5	23,643	9.4%	\$46,129	\$34,692
2009	101,526	192,235	38	23,614	9.0%	\$44,719	\$34,578

Note: Fiscal year 2009 was the first year of operations for the Authority.

- (1) US Census Bureau.
- (2) Provided by the NHC Schools Finance Department
- (3) North Carolina Department of Commerce
- (4) Provided by www.ncworks.gov; data provided for as many years as available.

Cape Fear Public Utility Authority Principal Water Customers Current Fiscal Year and Eight Years Ago

2009 (1) 2017 Thousands of % of Thousands of % of % of Gallons % of System Revenues (\$) Revenues Gallons Revenues (\$) Revenues Ten Largest Users of the Water System Annual Consumption System Ten Largest Users of the Water System Annual Consumption 1.32% 1.89% 1 UNC Wilmington 106,046 2.02% \$ 433,532 1 UNC Wilmington 136,483 2.34% \$ 430,613 1.17% 0.83% 1.02% 2 New Hanover Regional Medical Center 61,496 272,382 2 New Hanover County 63,232 1.08% 232,431 0.84% 0.93% 3 New Hanover County 43.953 228,738 0.69% 3 New Hanover Regional Medical Center 61,473 1.05% 211,318 0.81% 0.69% 0.92% 42,575 4 New Hanover County Schools 0.82% 4 LSREF3 Bravo, LLC (Multi-family Complexes) 226,098 47,862 208,756 5 Wilmington Housing Authority 42,086 0.80% 189,660 0.58% 5 Wilmington Housing Authority 40,956 0.70% 137,433 0.60% 0.77% 0.75% 0.52% 0.43% 6 NHC Board of Education 40,412 248,277 6 Lake Forest Apartments 30,088 97,305 7 Lake Forest Apartments 25,620 0.49% 108,427 0.33% 7 College Manor Apartments 0.40% 80,985 0.36% 23,411 8 Tribute Properties 21,422 0.41% 167,560 0.51% 8 Mayfaire Complex 22,955 0.39% 119,091 0.52% 9 College Manor Apartments 18,720 0.36% 98,770 0.30% 9 Tribute Properties 21,463 0.37% 114,526 0.50% 10 State of North Carolina 0.31% 0.21% 10 Elementis Chromium 0.33% 58,243 0.26% 16,395 68,146 18,971 466,893 8.00% \$ 1,690,699 7.42% Total Net Consumption / Net Revenue 418,725 7.96% \$ 2,041,590 6.20% Total Net Consumption / Net Revenue

Total Annual System Net Consumption / Net Revenue

5,834,129

\$ 22,781,177

\$ 32,938,782

5,257,949

Note: Fiscal year 2009 was the first year of operations for the Authority.

Total Annual System Net Consumption / Net Revenue

(1) Restated 2009 Top 10 Users to reflect "Net Consumption" and "Net Revenue"

Source: Cape Fear Public Utility Authority Customer Service Department.

Cape Fear Public Utility Authority Principal Wastewater Customers Current Fiscal Year and Eight Years Ago

2017 2009 ⁽¹⁾

	Thousands	% of	D(d)	% of		Thousands		D(d)	% of
Ten Largest Users of the Wastewater System Annual Consumption	of Gallons	,	Revenues (\$)		Ten Largest Users of the Wastewater System Annual Consumption	of Gallons		Revenues (\$)	
1 Town of Wrightsville Beach	184,695	3.81%	\$ 740,843	1.98%	1 Town of Wrightsville Beach	214,743	4.42%	\$ 442,639	2.00%
2 New Hanover Regional Medical Center	59,916	1.24%	325,861	0.87%	2 UNC Wilmington	87,800	1.81%	269,249	1.22%
3 UNC Wilmington	59,903	1.24%	331,656	0.89%	3 New Hanover Regional Medical Center	54,042	1.11%	176,741	0.80%
4 Wilmington Housing Authority	42,056	0.87%	230,420	0.62%	4 New Hanover County Schools	45,665	0.94%	199,592	0.90%
5 LSREF3 Bravo, LLC (Multi-family Complexes)	41,803	0.86%	262,577	0.70%	5 Wilmington Housing Authority	40,652	0.84%	129,175	0.58%
6 New Hanover County	38,875	0.80%	248,449	0.67%	6 New Hanover County	34,744	0.72%	132,783	0.60%
7 New Hanover County Schools	36,182	0.75%	275,359	0.74%	7 Lake Forest Apartments	30,080	0.62%	92,040	0.42%
8 Lake Forest Apartments	25,620	0.53%	133,064	0.36%	8 Mayfaire Complex	25,303	0.52%	125,124	0.57%
9 Tribute Properties	20,746	0.43%	191,054	0.51%	9 Tribute Properties	24,536	0.51%	154,676	0.70%
10 City of Wilmington	19,944	0.41%	198,825	0.53%	10 College Manor Apartments	23,411	0.48%	77,352	0.35%
Total Net Consumption / Net Revenue	529,740	10.94%	\$ 2,938,108	7.87%	Total Net Consumption / Net Revenue	580,975	11.96%	\$ 1,799,371	8.15%
Total Annual System Net Consumption / Net Revenue	4,850,416	_	\$ 37,336,970	_	Total Annual System Net Consumption / Net Revenue	4,856,146		\$ 22,089,335	_

Note: Fiscal year 2009 was the first year of operations for the Authority.

(1) Restated 2009 Top 10 Users to reflect "Net Consumption" and "Net Revenue"

Source: Cape Fear Public Utility Authority Customer Service Department.

Cape Fear Public Utility Authority Principal Employers Current Fiscal Year and Eight Years Ago

2017 2009

	Employees		Percentage of Tota	al	Employees		Percentage of Total County	
Employers	(1) F		Employment	Employers	(3)	Rank	Employment	
New Hanover Regional Medical Center	6,880	1	5.95%	New Hanover Regional Medical Center	4,890	1	5.10%	
New Hanover County Schools	4,300	2	3.72%	New Hanover County Schools	4,130	2	4.30%	
GE Hitachi Nuclear Energy and GE Aviation	3,000	3	2.59%	GE Hitachi Nuclear Energy and GE Aviation	3,000	3	3.13%	
Wal-Mart Stores	2,387	4	2.06%	University of North Carolina at Wilmington	1,810	4	1.89%	
University of North Carolina Wilmington	1,933	5	1.67%	New Hanover County	1,670	5	1.74%	
New Hanover County	1,692	6	1.46%	PPD	1,420	6	1.48%	
PPD	1,500	7	1.30%	Cape Fear Community College	1,260	7	1.31%	
Verizon Wireless	1,354	8	1.17%	City of Wilmington	1,200	8	1.25%	
Duke Energy	1,325	9	1.15%	Verizon Wireless	1,200	9	1.25%	
City of Wilmington	1,000	10	0.86%	Corning, Inc.	1,000	10	1.04%	
		=	21.93%	 =		=	22.49%	
Total # Employed at June 30 of the respective FY (2)		_	115,687	Total # Employed at June 30 of the respective FY (2)		_	95,964	

Note: Fiscal year 2009 was the first year of operations for the Authority.

⁽¹⁾ Source: 2017 Book on Business; www.wilmingtonbiz.com

⁽²⁾ Source: North Carolina Employment Security Commission (2009) and www.ncworks.gov (2017)

⁽³⁾ Source: New Hanover County CAFR for Fiscal Year Ended June 30, 2009 using the Wilmington Industrial Development, Inc. and NC State Demographics Website.

Cape Fear Public Utility Authority
Operating Statistics
Current Year and Last Eight Fiscal Years

Fiscal Year 2017 2016 2015 2014 2013 2012 2011 2010 2009 Water System Number of available service connections⁽¹⁾ 73.118 71.439 70.356 68.794 68.033 67.067 64.602 63.683 62.551 Number of treatment plants - surface water system 1 1 1 1 1 1 1 1 1 27.50 27.50 Treatment capacity (mgd) - surface water 35.00 35.00 35.00 35.00 35.00 35.00 27.50 14.63 14.35 13.44 13.20 13.70 13.30 14.30 Average production (mgd) - surface water 13.56 13.50 2 3 3 3 3 3 3 3 Number of groundwater systems 3 Number of treatment plants - groundwater system 1 1 1 1 1 1 1 1 37 34 36 36 36 36 36 Number of active wells - groundwater system 36 36 6 6 6 6 6 6 6 6 Treatment capacity (mgd) - groundwater plant Treatment capacity (mgd) - other groundwater systems 0.90 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 Average production (mgd) - groundwater 3.08 3.04 2.94 2.48 2.95 2.95 3.20 3.30 3.10 1,041 (2) 1,070 (2) Miles of water mains 1.113 1.114 1.089 1.078 1.072 1.129 1.103 Wastewater System Number of available service connections⁽¹⁾ 71.539 69.222 68.246 66.829 66.059 64.529 64.330 63.793 62.296 3 Number of treatment plants 2 3 3 3 3 3 3 3 WPC plant permit (mgd) 28.10 28.10 28.10 22.10 22.10 22.10 22.10 22.10 22.10 Average annual daily flow (mgd) 17.16 18.76 17.48 16.45 16.17 15.10 15.80 16.80 15.60 Number of lift stations 146 142 143 141 141 141 141 142 142 Miles of wastewater gravity mains⁽²⁾ 827⁽²⁾ 840(2) 877 848 844 840 881 877 850 Miles of wastewater force mains 142 131 131 112 110 104 104 100 100 Number of manholes 22.017 21.221 21.049 20.918 20.300 20.300 20.300 N/A N/A

Note: Fiscal year 2009 was the first year of operations for the Authority.

Source: Cape Fear Public Utility Authority Records

⁽¹⁾ Data restated to remove irrigation meters associated with domestic meters for the same location.

⁽²⁾ Based on more accurate information as a result of implementating and improving the accuracy of an asset management system.

Cape Fear Public Utility Authority Consumption by Customer Group Current Fiscal Year and Last Eight Fiscal Years

_	201	7	20	16	20)15	2	2014	2	013	2	012	2	2011	201	10 (1)	200	9 (1)
	Thousand Gallons	% of Consumption	Thousand Gallons	% of Consumption	Thousand Gallons	% of Consumption	Thousand Gallons	% of Consumption	Thousand Gallons	% of Consumption	Thousand Gallons	% of Consumption						
Water Customers																		
Residential	3,651,875	69.45%	3,630,541	69.20%	3,461,812	68.80%	3,415,831	69.87%	3,522,531	69.85%	3,806,074	70.45%	3,887,894	70.88%	3,652,988	70.13%	4,152,536	71.18%
Commercial	1,151,382	21.90%	1,128,569	21.51%	1,053,502	20.94%	1,006,253	20.58%	1,026,039	20.35%	1,059,983	19.62%	1,075,703	19.61%	1,032,322	19.82%	1,094,936	18.77%
Industrial	68,109	1.30%	74,645	1.42%	65,334	1.30%	63,349	1.30%	59,116	1.17%	62,267	1.15%	62,278	1.14%	57,719	1.11%	102,707	1.76%
Institutional and Government	386,583	7.35%	413,036	7.87%	451,090	8.96%	403,523	8.25%	435,048	8.63%	474,130	8.78%	459,656	8.38%	465,940	8.94%	483,950	8.30%
Total	5,257,949	100.00%	5,246,790	100.00%	5,031,738	100.00%	4,888,957	100.00%	5,042,734	100.00%	5,402,454	100.00%	5,485,531	100.00%	5,208,969	100.00%	5,834,129	100.00%
Wastewater Customers				07.000/														
Residential	3,277,428	67.57%	3,287,280	67.36%	3,171,068	67.33%	3,184,447	68.27%	3,246,521	68.52%	3,424,127	68.94%	3,497,483		3,329,608	69.30%	3,543,624	72.97%
Commercial	1,048,627	21.62%	1,019,892	20.90%	956,150	20.30%	922,045	19.77%		19.50%	941,927	18.96%	957,062		842,782	17.54%	869,266	17.90%
Town of Wrightsville Beach	184,695	3.81%	227,370	4.66%	207,905	4.41%	210,681	4.52%	203,370	4.29%	207,561	4.18%	214,479		234,303	4.88%	214,743	4.42%
Pender County	11,291	0.23%	10,562	0.22%	10,033	0.21%	9,008	0.19%	10,473	0.22%	11,550	0.23%	16,224	0.32%	13,550	0.28%	14,139	0.29%
Industrial	15,470	0.32%	18,257	0.37%	21,027	0.45%	19,468	0.42%	16,296	0.34%	16,197	0.33%	18,219	0.36%	23,060	0.48%	24,964	0.51%
Institutional and Government	312,907	6.45%	316,946	6.49%	343,878	7.30%	318,809	6.83%	337,107	7.12%	365,297	7.35%	366,618	7.23%	361,467	7.52%	189,410	3.90%
Total (2)	4,850,418	100.00%	4,880,306	100.00%	4,710,062	100.00%	4,664,457	100.00%	4,737,719	100.00%	4,966,659	100.00%	5,070,085	100.00%	4,804,770	100.00%	4,856,146	100.00%

Note: Fiscal year 2009 was the first year of operations for the Authority.

Source: Cape Fear Public Utility Authority Customer Service Department.

⁽¹⁾ Prior year data has been updated to reflect adjustments made in the current year. Water includes domestic and irrigation connections

⁽²⁾ The Total value for Thousand Gallons listed for Wastewater Customers does not include an estimation for the volumetric value of the Flat Wastewater customer class.

For billing purposes, the calculation of Flat Wastewater charges is based on 24,000 gallons discharged bimonthly. There were an average of approximately 1,530 Flat Wastewater customers in 2015.



Budget Ordinance

Ordinance Making Appropriations For the Fiscal Year Beginning July 1, 2018

LEGISLATIVE INTENT/PURPOSE:

Appropriations and estimated revenues for the Fiscal Year Beginning July 1, 2018.

THEREFORE, BE IT ORDAINED by the Board of the Cape Fear Public Utility Authority:

SECTION I: The following appropriations are hereby made. The following revenues are estimated to be available during the fiscal year to meet these appropriations.

Appropriations	
Operating Expenditures	\$39,311,736
Non-Departmental	2,568,810
Debt Service	23,178,918
Transfers to Capital Projects Funds	16,695,665
Total Appropriations	\$81,755,129
Revenues	
Wastewater Revenues	\$36,519,691
Water Revenues	35,434,638
Appropriated Fund Balance	600,000
Investment Earnings	700,000
Other Charges for Service	4,300,800
System Development Charges	4,200,000
Total Revenues	\$81,755,129

SECTION II: That appropriations herein authorized shall have the amount of outstanding purchase orders as of June 30, 2018 added to each appropriation as it appears in order to account for the payment against the fiscal year in which it is paid.

SECTION III: Pursuant to NCGS 159-15, the Executive Director is hereby authorized to transfer moneys among appropriations in SECTION I above. Such transfers shall be reported to the Board at the next regular meeting after such transfer has occurred. The transfers shall be entered in the minutes.

SECTION IV: Pursuant to NCGS 159-13.2, the following appropriations are hereby made. Expenditures authorized by these appropriations may occur over multiple fiscal years. The following revenues are estimated to be available in the fiscal year the expenditures occur.

Appropriations	
System-Wide Capital Improvement Projects	\$2,900,000
Water Capital Improvement Projects	11,250,000
Wastewater Capital Improvement Projects	40,789,995
Total Appropriations	\$54,939,995
Revenues	
Transfers from Operating Fund	\$35,569,997
Bond Proceeds	4,700,000
NC Connect Grant	14,669,998
Total Revenues	\$54,939,995

SECTION V: Pursuant to NCGS 159-15, the Executive Director is hereby authorized to transfer moneys among available appropriations authorized in this and prior project ordinances. Such transfers shall be reported to the Board at the next regular meeting after such transfer has occurred. The transfers shall be entered in the minutes.

Adopted at a regular meeting

On June 13, 2018

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WORD/CONCEPT	DEFINITION
Account	A basic component of the accounting ledger used to classify financial
	transactions that are similar in terms of a given frame of reference; such as
	purpose, object or source.
Accrual Basis	A basis of accounting in which transactions are recognized at the time they
	are incurred as opposed to when case is received or spent.
Adopted Budget	The budget document formally approved by the Authority Board. This
	document sets forth authorized expenditures and the means of financing
	those expenditures; used interchangeably with the term "Final Budget".
Annualized	Taking charges that occurred mid-year and calculating their cost for a full
	year for the purpose of preparing an annual budget.
Appropriation	A legal authorization to incur obligations and to make expenditures for
	specific purposes.
Aquifer	A wet underground layer of water-bearing permeable rock or
	unconsolidated materials (gravel, sand or silt) from which groundwater can
	be usefully extracted using a water well.
Asset	Resources owed that has monetary value.
Asset Management	A systematic process of operating, maintaining and upgrading assets cost-
	effectively.
Audit	An examination of some or all of the following items: documents, records,
	reports, systems of internal control, accounting procedures, and other
	evidence, or one or more of the following purposes: (a) determining the
	propriety, legality and mathematical accuracy of proposed or completed
	transactions; (b) ascertaining whether all transactions have been recorded;
	and (c) determining whether transactions are accurately recorded in the
	accounts and in the statements drawn from in accordance with accepted
	accounting practices.
Authorized Positions	Employee positions that are authorized in the adopted budget to be filled
	during the year.
Backflow	A term in plumbing for an unwanted flow of water in the reverse direction.
	It can be a serious health risk for the contamination of potable water
	supplies with foul water.
Backflow Prevention	A device used to protect water supplies from contamination or pollution.
Device	
Balance Sheet	A formal statement of assets, liabilities and fund balance as of a specific
	date.
Balanced Budget	Refers to a budget in which revenues are equal to expenditures. Thus,
	neither a budget deficit nor a budget surplus exists.
Benchmarking	The process of comparing one's business processes and performance
	metrics to industry bests and/or best practices from other industries; often
	treated as a continuous process in which organizations continually seek to
Cillian	improve their practices.
Collateral	Property acceptable as a security for a loan or other obligation; guaranteed
0 11	by a security pledged against the performance of an obligation.
Collaterize	To secure (a loan) through the use of collateral.
Compensated Absences	Refers to employees' time off with pay for vacations, holidays and sick days.

WORD/CONCEPT	DEFINITION
Comprehensive Annual	The official annual financial report of the Authority; summarizes and
Financial Report (CAFR)	discloses the financial activity of the Authority.
Computer Maintenance	A CMMS software package maintains a computer database of information.
Contingency	A budgetary reserve set aside for emergencies or unforeseen expenditures
	not otherwise budgeted.
Corporate Governance	Processes, customers, policies, laws and institutions affecting the way a
	corporation is directed, administered or controlled.
Debt Coverage Ratio	The ratio of cash available for debt servicing to interest, principal and lease
	payments. It is a popular benchmark used in the measurement of an
	entity's ability to produce enough cash to cover its debt payments. The
	higher this ratio is, the easier it is to obtain a loan.
Debt Management	A formal agreement between the Authority and its' creditors.
Debt Service	The cost of paying principal and interest on borrowed money according to a
	pre-determined payment schedule.
Department	A basic organizational unit that is functionally unique in its delivery of
	services; each department can be subdivided into divisions.
Depreciation	Drop in value; a method of allocating the cost of a tangible asset over its
	useful life.
Disbursement	The expenditure of monies from an account.
Distinguished Budget	A voluntary awards program administered by the Government of Finance.
Effluent	An outflowing of water or gas from a natural body of water, or from a
	human-made structure.
Encoder Receiver	Communications modules that fit on electric, gas or water meters. ERT's
Transmitter (ERT)	encode consumption and tamper information from the meters and
	communicates the data to Itron data collection systems including handheld
	devices, mobile automatic reading devices and networks.
Encumbrance	A commitment of appropriated funds to purchase an item or service. To
	encumber funds means to set aside or commit funds for a specified future
	expenditure.
Enterprise Fund	A government owned fund that sells goods and services to the general
	public; are common in local government.
Environmental	Refers to the management of an organization's environmental programs in
Management System (EMS)	a comprehensive, systematic, planned and documented manner. It
	includes the organizational structure, planning and resources for
	developing, implementing and maintaining policy for environmental
	protection.
Environmental Protection	The agency of the federal government of the United States charged with
Agency (EPA)	protecting human health and the environment by writing and enforcing
E Pr	regulations based on laws passed by Congress.
Expenditure	The payment of funds against appropriations that reduce cash balance; are
Facilities Daniert	made for the purpose of acquiring an asset, service or settling a loss.
Feasibility Report	An evaluation and analysis of the potential of a proposed project which is
	based on extensive investigation and research to support the process of
	decision making.

<u>DEFINITION</u>
A 12-month period designated as the operating year for accounting and
budgeting purposes in an organization.
Assets of long-term character that are intended to continue to be held or
used; includes land, buildings, machinery, furniture and other equipment.
A position converted to the decimal equivalent of a full-time position .
System used by non-profit organizations, particularly governments.
Difference between assets and liabilities reported in a governmental fund
on the modified accrual basis of accounting.
Uniform minimum standards for financial accounting and recording,
encompassing the conventions, rules and procedures that define accepted
accounting principles.
A statement of broad direction, purpose or intent; general and timeless.
The accepted standard setting body for establishing accounting and
financial reporting principles.
Water located beneath the ground surface in soil pore spaces and in the
fractures of rock formations.
The basis physical and organizational structures needed for the operation of
a society of enterprise (1), or the services the facilities necessary for an
economy to function (2). It can be generally defined as the set of
interconnected structural elements that provide the framework supporting
an entire structure of development.
Cost of using money.
Interest earned on cash held in interest bearing deposits and accounts.
An emergency management doctrine used nationwide to coordinate
emergency preparedness and incident management and response among
the public and private sectors.
Controls water pollution by regulating point sources that discharge
pollutants into waters of the United States.
Items of expenditure essential to the operation of the Authority that do not
fall within the function of any department.
The annual budget of an activity stated in terms of Budget Classification
Code, functional/sub functional categories and cost accounts. It contains
estimates of the total value of resources required for the performance of
the operation; used to keep track of maintenance operations, salaries and
interest payments.
The cost for personnel, materials and equipment required for a department
to function.
Funds received to pay for on-going operations. It includes rates and fees;
used to pay for day-to-day services.
A law made by a municipality or other local authority.
The discharge point of a waste stream into a body of water; alternatively it
may be the outlet of a river, drain or a sewer where it discharges into the
sea, a lake, etc. A wastewater treatment system discharges treated effluent
to a water body from an outfall.

WORD/CONCEPT	DEFINITION
Pay-As-You-Go Basis	AKA "Pay-Go"; a term used to describe a financial policy by which capital
·	outlays or capital projects are financed from current revenues rather than
	from borrowing.
Performance Measure	Defines data that documents how effectively or efficiently a program is
	achieving its objectives.
Potable Water	Drinking water.
Procurement	The acquisition of goods or services. It is favorable that the goods or
	services are appropriate and that they are procured at the best possible
	cost to meet the needs of the purchaser in terms of quality and quantity,
	time and location.
Proprietary Fund	An account in which certain (government) transactions are handled.
	Services that fit into a proprietary fund are grouped by similarities to
	evaluate their performance.
Revenues	Sources of income financing the operations of the Authority.
Risk Management	The process of identifying, assessing and controlling risks arising from
	operational factors and making decisions that balance risk costs with
	mission benefits.
SCADA (Supervisory	A computer system that monitors and controls industrial, infrastructure or
Control & Data Acquisition)	facility-based processes.
Septage	The material pumped out of a septage tank or onsite sewage facility.
Service	Helping others with a specific need or want.
Stewardship	An ethic that embodies responsible planning and management of
	resources.
Strategic Plan	A process for determining where an organization is going over the next year
	or, more typically, 3 to 5 years (long term); some extend their vision to 20
	years.
Strategic Vision	Outlines what the organization wants to be, or how it wants the world in
	which it operates to be. This is a long-term view and concentrates on the
	future.
Surface Water	Water collecting on the ground or in a stream, river, lake, wetland or ocean;
	it is related to water collecting as groundwater or atmospheric water.
Sustainability	The long-term maintenance of responsibility, which has environmental,
	economic and social dimensions, and encompasses the concept of
	stewardship, the responsible management of resource use.
System Development	Calculated charges to cover the cost of capacity in the Authority's existing
Charges	water and wastewater plants and transmission facilities, and the estimated
	cost of capacity in future treatment plants and facilities that are covered in
	the 10-year Capital Improvement Plan.