



CAPE FEAR PUBLIC UTILITY AUTHORITY RECOMMENDED BUDGET FISCAL YEAR 2021-2022

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William A. Norris, Vice Chair
Deans Hackney, Secretary
Jennifer Adams, Treasurer
Jonathan Barfield, Jr., New Hanover County Commissioner
Hollis B. Briggs, Jr.
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Charles Rivenbark, City of Wilmington Councilman
Larry Sneeden
Rob Zapple, New Hanover County Commissioner

Kenneth R. Waldroup, PE, Executive Director John B. McLean, CPA, Chief Financial Officer

> 235 Government Center Drive Wilmington, NC 28403 www.cfpua.org

Board Members



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Seated in 2017

Committees: Executive, Finance & Communications

Term ends in 2023



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Seated in 2013
Term ends 2021
Committee: Executive & Finance



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Term ends 2022
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Seated in 2019

Term ends 2023

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Planning & Sustainability



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Term ends 2021
Committees: Communications &
Human Resources



Hollis Briggs, Jr.

Member

Appointed by New Hanover County
Seated in 2019
Term ends in 2022
Committees: Long Range Planning



Larry Sneeden

Member

Appointed by New Hanover County

Seated in 2012

Term ends in 2023

Committees: Long Range Planning



Rob Zapple
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Appointed by New Hanover County
Seated in 2019
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GOVERNMENT FINANCE OFFICERS ASSOCIATION

Distinguished Budget Presentation Award

PRESENTED TO

Cape Fear Public Utility Authority North Carolina

For the Fiscal Year Beginning

July 1, 2020

Christopher P. Morrill

Executive Director

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BUDGET GUIDE

This document contains Cape Fear Public Utility Authority's Fiscal Year 2021-2022 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.

Financial Summaries – The Financial Summaries section provides a detailed picture of the Authority's FY 2021-2022 annual operating and capital budget including information on total budgeted expenditures, revenues, and net position. Consolidated financial schedules are provided. Long-Term financial management provides a big picture, entity-wide, multi-year view of the Authority's finances including operating and capital expenditures, debt, liquidity, and rate affordability.

Capital Budget & Debt – This section details the Authority's FY 2021-2022 capital budget and the approach to funding the capital program as well as information on the Authority's debt obligations.

Department Information – This section describes each department and their goals, objectives, and performance measures.

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 2021-2022 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 13th year of service, 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. With the Authority's human and financial resources focused on 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 21-22:

- The rehabilitation and replacement of aging 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 10-year Capital Improvement 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.
- Commitment to sustainable capital funding CFPUA's debt limit and long-term capital funding needs imply that \$18 million of capital investment must be funded through current-year water and wastewater rate revenue collections each year.
- In June 2017, the issue of water quality became the focus of our community when per- and polyfluoroalkyl substances (PFAS) were discovered in the drinking water and in the Cape Fear River—the largest source of drinking water for our region. Cape Fear Public Utility Authority has taken legal action, continued to monitor and track levels of these compounds, and is currently undertaking a \$43.0 million treatment upgrade at the Sweeney Water Treatment Plant to more effectively remove PFAS and other emerging contaminants. As of April 30, 2020, the Authority has spent \$16.8 million related to emerging contaminants. These expenditures 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 \$607,000 in state grants, all of these costs were funded with rate revenues.
- COVID-19 poses several potential challenges from a financial perspective including additional expenditures, decreased revenues due to stay-at-home orders and mandated business closures, and adverse effects to cash flow due to customers' inability to pay and mandated suspensions of late fees and shut-offs. Forecasted expenditures and revenue assumptions included in the FY 20-21 operating budget do not include any provision for potential adverse financial effects related to COVID-19. CFPUA has already begun the process of applying for federal assistance to reimburse expenditures related to COVID-19. CFPUA cash reserve policy mandates that a minimum of \$50 million be held in undesignated fund balance. This reserve balance is deliberately designed to insulate CFPUA from revenue shortfalls and unanticipated increases in expenditures. To the extent that COVID-19 adversely affects our finances, the unrestricted fund balance is available to ensure that services continue to be delivered.

OPERATING BUDGET

The total Fiscal Year 2021-2022 operating budget is approximately \$92.0 million. The tables below detail the approved operating budget by major revenue sources and major categories of expenditures.

| | | | | | | Increase/ | |
|------------------------------------|-------|----|------------|----|-------------|-----------------|-------------|
| Appropriations | | FY | 21 Adopted | F' | Y22 Adopted | (Decrease) | %Difference |
| Salaries & Benefits | | \$ | 25,755,773 | \$ | 27,056,318 | \$ 1,300,545 | 5.0% |
| Operating | | | 20,477,349 | | 21,727,653 | \$ 1,250,304 | 6.1% |
| Debt Service | | | 25,746,559 | | 25,184,354 | \$ (562,205) | -2.2% |
| Transfers to Capital Projects Fund | | | 18,000,000 | | 18,000,000 | \$ - | 0.0% |
| | Total | \$ | 89,979,681 | \$ | 91,968,325 | \$ 1,988,644 | 2.2% |

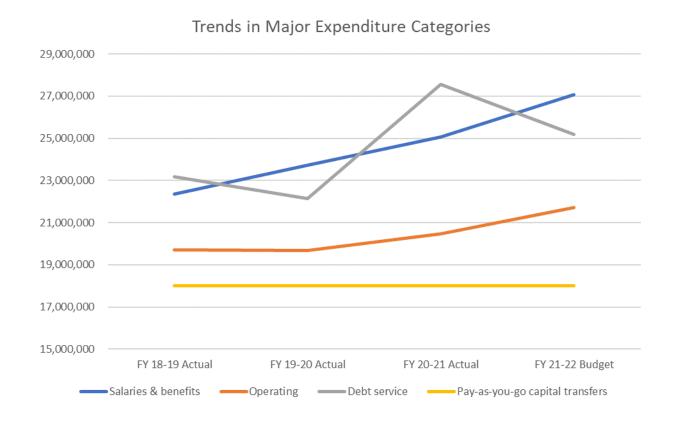
| | | | | | Increase/ | |
|---------------------------------------|----|-------------|----|-------------|-------------------|-------------|
| Estimated Revenues | F۱ | /21 Adopted | F | Y22 Adopted | (Decrease) | %Difference |
| Water/Wastewater Charges - Fixed | \$ | 31,100,185 | \$ | 31,387,935 | \$ 287,750 | 0.9% |
| Water/Wastewater Charges - Volumetric | | 45,340,246 | | 47,348,560 | \$ 2,008,314 | 4.4% |
| System Development Charges | | 5,785,500 | | 7,095,000 | \$ 1,309,500 | 22.6% |
| Investment Earnings | | 1,657,650 | | 200,000 | \$ (1,457,650) | -87.9% |
| Other Charges for Service | | 5,596,100 | | 4,657,000 | \$ (939,100) | -16.8% |
| Appropriated Fund Balance | | 500,000 | | 1,279,830 | \$ 779,830 | 156.0% |
| Total | \$ | 89,979,681 | \$ | 91,968,325 | \$ 1,988,644 | 2.2% |

Despite the \$2.0 million increase in appropriations and a decrease in investment earnings and other revenues, the FY 21-22 budget includes no change to water and wastewater rates. Staff has been focused on forecasting key revenue drivers as accurately as possible including customer growth, consumption per customer, and the number of new customers that will be assessed a system development charges in the upcoming year. Fixed and volumetric rate revenues are projected to increase by \$288,000 and \$2.0 million, respectively, compared to the FY 20-21 budget due to projected growth in customers and consumption per customer. System development charges are projected to be approximately \$7.1 million an increase of approximately \$1.3 million compared to the FY 20-21 adopted budget.

As a foundation for the FY 21-22 budget process, key goals and assumptions are identified and highlighted below:

- A commitment to adequately staff and retain employees to ensure continued excellence in providing service to our customers. The FY 21-22 operating budget includes a \$1.3 million increase to salaries & benefits for 4 new full-time equivalent positions in water and wastewater treatment; a 1.5% cost-of-living adjustments and 3% merit increases for existing staff; and equity adjustments for staff to meet market levels and reduce attrition. The increase to salaries and benefits also includes increases in the required employer contributions to the North Carolina Local Government Employees' Retirement System.
- Operating costs are projected to increase by \$1.3 million. Some of this increase is due to
 enhancing the level of service we provide to our customers. In particular, the FY21-22 operating
 budget includes increases in software licensing related to our customer information system and
 projected increases in postage as we transition to monthly billing. The remaining increases are
 due to inflationary pressures in insurance premiums and raw water costs.
- A \$562,000 decrease in debt service requirements, attributable to the early payoff of state revolving loans and reduced interest payments on 2019A bonds.
- \$18 million in pay-as-you-go capital funding that balances CFPUA's debt load and provides for an high level of debt service coverage

For historical context, the following graph provides trends in the Authority's actual activity over the past 3 years and appropriations in FY21-22 budget by major expenditure category.



During the last three years, the Authority's customer base has grown 3% per year on average. The growth in salaries and benefits and operating expenditures has grown necessarily to keep pace with the growing system and the customers we serve. In addition, the growth in salaries & benefits reflects market and merit increases for existing staff and consistent growth in the required contributions to the Local Government Employees' Retirement System. Debt service decreased from FY 18-19 to FY 19-20 as no new debt was issued during this time period. The increase in debt service in FY 20-21 reflects additional debt service payments related to the new money component on the Authority's 2019 Water and Sewer Revenue and Refunding Bonds, the proceeds of which were used to finance treatment upgrades at the Sweeney Water Treatment Plant for the removal of PFAS from the treated surface water and a new raw water transmission main in partnership with Brunswick County. The increase in debt service in FY 20-21 also reflects the early retirement of a Clean Water State Revolving loan that was financed with settlement proceeds from a class action lawsuit. Finally, pay-as-you-go funding for the Authority's capital program has remained consistent over the timeframe presented. The \$18 million represents the Authority's target level of annual pay-as-you-go funding that is designed to achieve consistent debt service coverage of at least 1.6 times given the level of the Authority's capital expenditures.

CAPITAL BUDGET

Major drivers of the capital budget include system growth, aging infrastructure, and emerging contaminants including PFAS. New projects appropriated in FY 21-22 total \$27.5 million. Combined with remaining unspent appropriations from prior years, the total capital budget is \$105.4 million. Major projects include the rehabilitation and replacement of pump stations, water lines, and sewer lines; treatment upgrades; new raw water transmission main; and new infrastructure to accommodate a growing service area.

The Authority adopts a 10-Year Capital Improvement Plan (CIP) each year. The total 10-Year CIP adopted for Fiscal Years 2022 through 2031 is \$370.1 million. 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 using one or more of the following criteria:

- Compliance with regulatory requirements.
- Efficiency leading to future operating or capital savings.
- Capacity increases necessary for current and 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 customers 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, 2020. The Authority has received this prestigious award for seven years. 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 21-22 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 our customers. We have established a clear and transparent track record of responsibly employing our funding for the betterment of our customers, and I am confident we will continue on this path in FY 21-22.

Respectfully submitted,

Kenneth Waldroup, P.E.

Kenneth Waldroup

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. Recently, the Authority entered into a three-year bulk purchase agreement that provides the Town of Wrightsville Beach additional available drinking water during tourist season up to 45 million gallons per year. New Hanover County's population is approximately 235,000 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 71,463 customer accounts, an increase of 899 compared to the previous year. Also, an additional 3,420 locations have services available (vacant lots). The Authority recently entered into a three-year bulk purchase agreement providing the Town of Wrightsville Beach additional drinking water during tourist season. The water system has 1,168 miles of distribution lines on June 30, 2020. The Authority also keeps twelve wells on standby to supplement the water supply during emergencies or peak demand periods. Metered water consumption for the fiscal year June 30, 2020 increased 7.65% from the previous year.

The Authority has a needs-based contract to purchase up to 23.0 million gallons per day MGD of raw water from the Lower Cape Fear Water and Sewer Authority (LCFWASA) 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 LCFWASA at U.S. Highway 421. The raw surface water is pumped to the Sweeney Water Treatment Plant (SWTP), which provides potable water to most of the Authority's service area. The SWTP has a rated capacity of 35 MGD. Average production during the fiscal year ended June 30, 2020 was 15.34 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 5.5 million gallons of storage in four elevated tanks. The LCFWASA and CFPUA share in the 106 MGD (combined) allocation of raw water from the Cape Fear River withdrawn at the Kings Bluff Raw Water Facilities.

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In October 2009, the Authority placed a 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 disinfection, fluoridation, corrosion control, and pH adjustment. The Richardson Plant has a rated capacity of 7.0 MGD. The Richardson Plant had a daily average production during the fiscal year ended June 30, 2020 of 2.99 MGD. The distribution system provides water service to customers and includes 2.8 million gallons of covered ground storage and 2.1 million gallons of elevated storage in four elevated tanks. In addition, the Authority operates one smaller groundwater system, Monterey Heights, providing groundwater directly to customers from five 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, 2020 was 0.911MGD.

The Wastewater System

There are 71,675 wastewater accounts, an increase of 1,675 compared to the previous year. Also, an additional 3,743 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 923 miles of gravity lines, 22,855 manholes, 150 pump stations and 157 miles of pressurized sewage force main. Wastewater consumption, based on metered water (excluding irrigation) for the fiscal year June 30, 2020 increased 5.15% from the previous year.

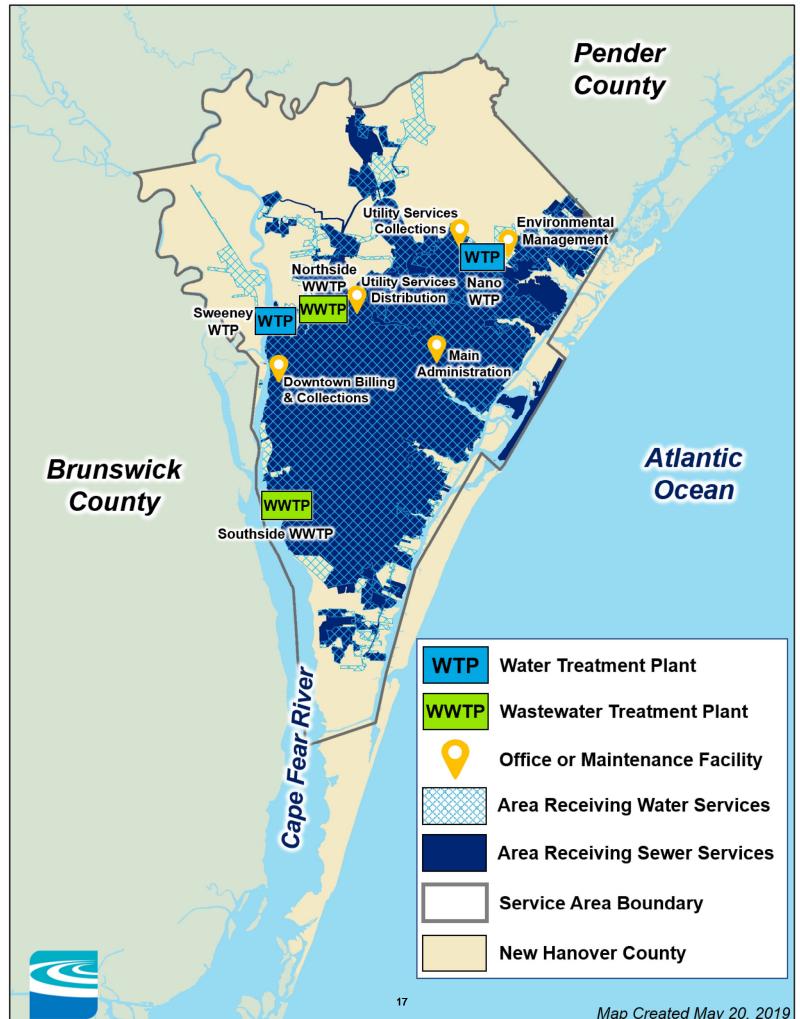
The Authority currently owns and operates the James A. Loughlin, or Northside Wastewater Treatment Plant (NSWWTP) and the M'Kean Maffitt, or Southside Wastewater Treatment Plant (SSWWTP). The NSWWTP is permitted to treat up to 16.0 MGD. The SSWWTP is permitted to treat up to 12.0 MGD. For the fiscal year ended June 30, 2020, the combined average daily flows were 16.6 MGD of the combined 28.0 MGD permitted. 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, six 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 nitrogen (TKN), fluoride, certain metals, and organics. All 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

CAPE FEAR PUBLIC UTILITY AUTHORITY PROFILE

non-domestic wastewater that could be harmful to the treatment works, employees, bio-solids, public health, and receiving waters.

Additional information regarding the Authority's service area and operating statistics are located in the supplemental and statistical section of this document.



Cape Fear Public Utility Authority

Strategic Plan 2019

Mission Statement

"We are a customer-centric organization that delivers high-quality water services."

Vision

Supporting our community's quality of life through the responsible use and care of water.

Values

Excellence, transparency, education, and collaboration

Goals

Goal One: Understand and respond to the community's current and future needs.

Strategies:

- 1.1. Understand, anticipate, and respond to our customers and our community's needs in a professional, prompt, and efficient manner.
- 1.2. Maintain a stable financial position that balances rates, affordability, the environment, and the organization's long-term capital and operating needs.
- 1.3. Identify partnerships, develop alliances, and encourage participation with both public and private community stakeholders.
- 1.4. Recruit and retain a well-qualified and motivated workforce that reflects the diversity of the community we serve.
- 1.5. Develop and communicate CFPUA service standards to ensure we operate a responsive and cost-effective collection, treatment, and distribution system.

Goal Two: Championing a positive customer service culture.

Strategies:

- 2.1. Remain committed to a vision of customer service delivery that understands our community's needs, increases our partnership, and ensures that our customers get the right help and support while enjoying a consistent, positive experience.
- 2.2. Promote customer self-reliance through a range of online services that can be easily accessed from any device; and support those who need individual service.
- 2.3. Develop process improvement initiatives that are cost-effective, compliant, and address the needs of our customers and the organization.
- 2.4. Provide and promote a framework to keep customers informed and up-to-date using their preferred communication method.



Goal Three: Providing exemplary leadership in protecting natural resources.

Strategies:

- 3.1. Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources.
- 3.2. Build a culture of sustainability by creating new energy-reducing goals and challenging existing ones.
- 3.3. Comply and many times surpass federal, state, county, city, and industry standards.
- 3.4. Continue and enhance community education around current programming, environmental stewardship, and CFPUA's role in protecting the environment.
- 3.5. Advocate for water quality protection and related issues.
- 3.6. Explore the use of highly-treated waste water for potable or other non-potable applications.

Goal Four: Cultivating community ownership and advancing relationships.

Strategies:

- 4.1. Develop and share compelling content to deepen CFPUA's relationship with customers and inspire positive engagement.
- 4.2. Partner with the community and media to carry a credible brand message to CFPUA's customers and to a broader audience.
- 4.3. Shift organizational messaging from CFPUA as an organization to focus on the people who provide water service.

Goal Five: Fostering an engaged and forward-thinking workforce.

Strategies:

- 5.1. Adopt state-of-the-art tools, systems, and processes that prepare CFPUA for future technological advancements.
- 5.2. Establish best practices around a culture of talent management and employee development to ensure employees are trained and ready to advance.
- 5.3. Implement leadership and communication best practices to grow employee morale, engagement, and productivity.
- 5.4. Acquire and implement technologies and tools that allow for enhanced interdepartmental collaboration, enterprise-wide sharing of information, and operational efficiencies.



This section outlines how specific actions to advance the goals contained in the Strategic Plan are incorporated into the FY 21-22 budget.

The Authority's Strategic Plan is evaluated annually by management and the Board each year to determine if changes need to be made. As part of the annual budget development process, management develops a 3-to-5-year action plan that is aimed at advancing the goals contained in the Strategic Plan. These actions are incorporated in the operating and capital budgets subject to funding constraints.

The following table contains the strategic actions to be accomplished in FY 21-22, links to goals in the Strategic Plan, and the financial impact to the FY 21-22 budget.

| Goal One: Under | Goal One: Understand and respond to the community's current and future needs | | | | | |
|---|---|--|-----------------|---|--|--|
| | Action Plan/Strategy | Total estimated cost | Timeline | Impact on FY 21-22 Budget | | |
| 1.1 Understand, anticipate, and respond to our customers and our community's needs in a professional, prompt, and efficient manner. | Incorporate the Sweeney GAC Enhancement project into daily operation to remove PFAS | Approximately \$575,000/year for contactors, electricity and staff | June 2022 | 40,000 | | |
| 1.2 Maintain a stable financial position that balances rates, affordability, the environment, and the organization's long-term capital and operating needs. | Explore revenue-neutral rate structure alternatives that optimize equity, affordability, and conservation. | \$0 | January 2022 | TBD based on any necessary rate increases | | |
| 1.3 Identify partnerships, develop alliances, and encourage participation with both public and private community stakeholders. | Identify partnerships around environmental education and collaboration; build alliances with nonprofits to assist in bill affordability | \$0 | Annual | No impact | | |
| 1.4 Recruit and retain a well-qualified and motivated workforce that reflects the diversity of the community we serve. | Diversify recruitment sources and ensure compensation structures reflect the external market through market analysis | \$0 | January 2022 | No impact | | |
| 1.5 Develop and communicate CFPUA service standards to ensure we operate a responsive and cost-effective collection, treatment, and distribution system. | Review and update the CFPUA Construction Standards | \$10,000 per year | Annual | \$10,000 | | |

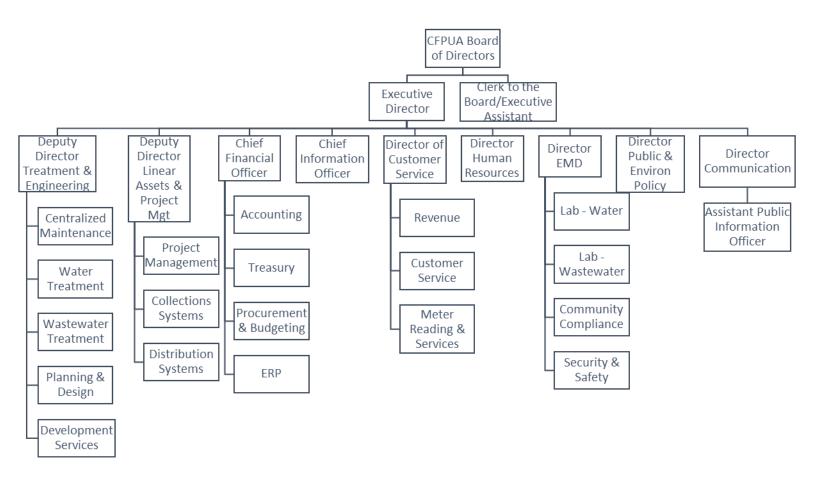
| Goal Two: Championing a positive customer service culture | | | | | |
|--|--|----------------------|-------------------|---------------------------------|--|
| | Action | Total estimated cost | Timeline | Impact on FY 21-22 Budget | |
| 2.1 Remain committed to a vision of customer service delivery that understands our community's needs, increases our partnership, and ensures that our customers get the right help and support – while enjoying a consistent, positive experience. | Begin billing customers on a monthly basis rather than on a bimonthly basis to allow customers to be more up-to-date on their consumption behavior and better manage household expenses. | \$300,000 | September 2021 | \$200,000 | |
| 2.2 Promote customer self- reliance through a range of online services that can be easily accessed from any device; and support those who need individual service. | Offer additional on-line services and payment options. | \$0 | June 2022 | No impact | |
| 2.3 Develop process improvement initiatives that are cost-effective, compliant, and address the needs of our customers and the organization. | Review customer facing solutions (i.e., application and form submittal) | \$0 | June 2022 | No impact | |
| 2.4 Provide and promote a framework to keep customers informed and up-to-date using their preferred communication method. | Expand frequency and reach of social media messaging | \$0 | Annual | No impact | |

| Goal Three: P | Provide exemplary leadership | in protecting nat | ural resources | |
|---|---|--|----------------|--|
| | Action | Total estimated cost | Timeline | Impact on FY 21-22 Budget |
| 3.1 Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. | Effectively maintain water and wastewater treatment plant equipment as well as conduct routine maintenance on linear assets and pump stations | This is annual cost made up of Treatment/ Engineering Budget and Linear Asset and Project Management budget as well the CIP Budget | Annual | Treatment/ Engineering Budget and Linear Asset and Project Management budget |
| 3.2 Build a culture of sustainability by creating new energy-reducing goals and challenging existing ones. | Monitor organizational greenhouse gas emissions and set emissions reduction goals | \$0 | June 2022 | No impact |
| | Monitor Energy Consumption at Plant sites | \$0 | Annual | No impact |
| 3.3 Comply and many times surpass federal, state, county, city, and industry standards. | Manage the Water and Wastewater Treatment plants to comply with Federal and State drinking water treatment regulations, standards, and permits | This is annual ongoing cost made up of the Water and Wastewater Treatment Budgets | Annual | Water and Wastewater Treatment Budgets |
| | Ensure all testing on water and wastewater is performed and reported accurately and timely | \$0 | Annual | No impact |
| 3.4 Continue and enhance community education around current programming, environmental stewardship, and CFPUA's role in protecting the environment. | Continue to participate in community events such as river fest, earth day, and look for other opportunities to participate and promote CFPUAs role in the community | \$1,000 per year | Annual | \$1,000 |
| 3.5 Advocate for water quality protection and related issues. | Participate in regional water quality centric environmental groups | \$1,000 per year | Annual | \$1,000 |
| 3.6 Explore the use of highly-treated waste water for potable or other nonpotable applications. | Continue to evaluate opportunities for potable reuse and provide updates to the Board | \$5,000 annually for research. Actual implementation would require a CIP project | Annual | \$5,000 |

| Goal Four: Cultivating community ownership and advancing relationships. | | | | | |
|---|--------------------------------|-----------------|----------|------------------|--|
| | | Total estimated | | Impact on FY | |
| | Action | cost | Timeline | 21-22 Budget | |
| | Increase awareness about key | | | | |
| | CFPUA initiatives, including | | | | |
| | customer education about | | | | |
| | preventing FOG-related sewer | | | | |
| 4.1 Develop and share | clogs, promoting prudent | | | | |
| compelling content to | irrigation practices, help for | | | | |
| deepen CFPUA's | customers struggling | \$54,000 per | Annual | \$54,000 | |
| relationship with customers and inspire positive engagement. | financially, and providing | year | Ailliaai | V 5 1,000 | |
| | updates on major projects | | | | |
| | such as the Sweeney | | | | |
| | Treatment Enhancements | | | | |
| | Project through paid | | | | |
| | community outreach with | | | | |
| | local TV Stations | | | | |
| 4.2 Partner with the | Keep customers and the | | | | |
| community and media to | community updated on major | | | | |
| carry a credible brand | projects with a focus on their | Part of 4.1 | Annual | Part of 4.1 | |
| message to CFPUA's | effectiveness at treating for | Part 01 4.1 | Allitual | Pait 01 4.1 | |
| customers and to a broader | PFAS and legal efforts to | | | | |
| audience. | recoup costs | | | | |
| 4.3 Shift organizational | Identify and spotlight | | | | |
| messaging from CFPUA as | employees throughout the | | | | |
| an organization to focus on | organization who exemplify | \$180 per year | Annual | \$180 | |
| the people who provide | the organization's dedication | | | | |
| water service. | to customer service. | | | | |

| Goal Fiv | Goal Five: Fostering an engaged and forward-thinking workforce. | | | | | |
|--|--|--|------------------------------|------------------------------|--|--|
| | Action | Total estimated cost | Timeline | Impact on FY 21-22 Budget | | |
| 5.1 Adopt state-of-the-art tools, systems, and processes that prepare CFPUA for future technological advancements. | Increase CFPUA's Cyber Security Posture | \$200,000 | Complete June 2022 | \$200,000.00 | | |
| | Implement a sewer capacity tracking system that continuously updates | \$0 | Complete June 2022 | No Impact | | |
| 5.2 Establish best practices around a culture of talent management and employee development to ensure employees are trained and ready to advance. | Provide employees access to training that improves customer service, safety, professional competency, and appropriate use of technology. | Annual ongoing cost made up of all dept training budgets and HR organization wide training | Annual | \$100,000 | | |
| 5.3 Implement leadership and communication best practices to grow employee morale, engagement, and productivity. | Review external resources related to organizational development, training development and coaching. | \$0 | Complete December 2022 | No Impact | | |
| 5.4 Acquire and implement technologies and tools that allow for enhanced interdepartmental collaboration, enterprisewide sharing of information, and operational efficiencies. | Expand Virtual Desktop Implementation | \$1,000,000 | Complete December 2022 | \$1,000,000 | | |
| | Utilize enterprise-wide asset management system for inventory and production tracking to promote informed decisions. | Annual \$100,000 licensing cost | Annual | \$100,000 | | |

ORGANIZATION CHART

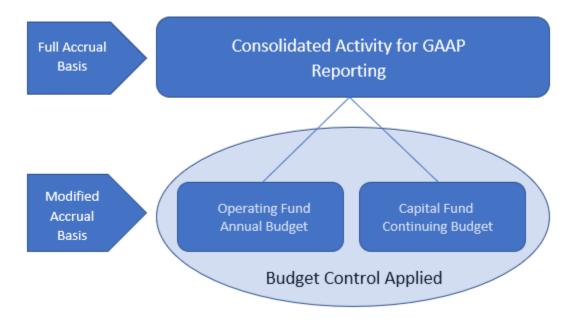


FINANCIAL STRUCTURE

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 based on 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.

The Authority is obligated to maintain a financial structure that provides for budgetary control and meets all financial reporting requirements. The following diagram depicts the Authority's financial structure.



Budget Control and Reporting

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 for all departmental units. 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-

FINANCIAL STRUCTURE

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.

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.

GAAP Financial Reporting

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.

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.

Operating Budget

CFPUA uses a modified zero-based budgeting approach to develop its annual operating budget. Budget development is centralized to ensure that line item estimates are consistent among departments and consistent with assumed consumption and other factors upon which revenue estimates are based. Only significant line items are forecasted at a detailed level to reduce the overall administrative burden. A recommended operating budget is developed by management that considers the estimated cost to maintain current service levels for the next budget year (a continuation budget) and a recommended number of expansions to current service levels, including actions to achieve goals outlined in the Strategic Plan (the expansion budget). Although the operating budget is developed at a department and line item level, the operating budget is controlled at the department and category level. The categories in the operating budget include salaries and benefits, operating, capital outlay, debt service, and pay-as-you-go capital funding. Controlling the budget by department and category, rather than by line item, gives departments budgetary flexibility during the budget year. The legal level of budget control is at the fund level (operating fund versus capital fund).

The continuation budget is the estimated cost of maintaining existing, authorized levels of recurring service without major structural changes. The continuation budget is developed for each department as follows:

1. Salaries and benefits line items for the continuation budget consist of two pieces: 1) cost estimates related to existing staff levels and 2) cost estimates related to approved new staff needed to maintain existing service levels (e.g. new staff needed to carry out a service currently provided but additional staff are needed due to customer growth). New position requests are submitted by each department and considered by the management team. Estimates are then

BUDGET PROCESS

- developed for currently authorized positions and approved new positions that include any approved merit and cost-of-living increases and estimated increases for health, dental, life insurance, retirement, and other benefits.
- 2. For line items in the operating category, Finance staff determine which departmental line items are significant based on dollar amount. Finance collaborates with departmental staff to develop cost estimates for individually significant budget line items. Non-significant line items are forecasted based on historical averages. Afterwards, significant and non-significant line items are combined for each department and submitted to each department head for review. Adjustments are made to individual non-significant line items when needed.
- 3. Each department submits requests for capital outlay included in the operating budget. These requests generally include small pumps and other equipment with a useful life greater than one year that aren't covered by the capital budget.
- 4. The debt service category includes scheduled maturities of principal and interest payments. Payas-you-go capital funding is set at the level necessary to maintain the level of annual capital investment needed to support CFPUA's capital improvement plan and the debt limitation established in policy.

The expansion budget is the estimated incremental cost of major structural changes to existing service levels. Items included in the expansion budget come from two sources: 1) the action plans developed by management and the Board to advance the goals outlined in the Strategic Plan and 2) departmental requests including new programs, studies, and pilot projects. Management evaluates and prioritizes these requests. A number of service level decision packages are developed that combine the continuation operating budget and various expansion budget requests. Management considers these decision packages subject to estimated funding and organizational priorities and develops a recommended operating budget to present to the Finance Committee and the Board.

Capital Budget

The development of the capital budget involves a risk-based prioritization process based on asset management best practices that results in the 10-Year Capital Improvement Plan. This plan is reviewed by the Finance Department to identify funding sources and ensure that the plan is consistent with CFPUA's financial policies and that key financial metrics will continue to be achieved. The proposed 10-Year Capital Improvement plan is reviewed by the Long-Range Planning Committee, Finance Committee, and the full Board in February through May. Changes are made based on these deliberations.

After discussions over several months, the Board adopts the operating and capital budget ordinances upon recommendation of the Finance Committee in June. A public hearing is held at the June meeting for public input.

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 for by policy:

BUDGET PROCESS

- 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 |
|---|--|------------------------------|
| - | Multi Departmental CIP Team Develops | |
| September 2020 – December 2020 | Draft FY21 CIP and Ten-Year CIP | Multi Departmental CIP Team |
| | New Position/Reclassification Requests due | |
| Friday, December 31, 2020 | to HR | |
| - | Departmental non-recurring maintenance | |
| Friday, January 15, 2021 | requests due to Centralized Maintenance | |
| Thursday, January 28, 2021 | FY21 CIP Draft Budget to LRPC | Engineering/LRPC |
| Friday, January 15, 2021 | Expansion Budget Requests Due | <u> </u> |
| , , | Departmental Estimates of Significant | |
| | Continuing Budget Operating Items due to | |
| Wednesday, January 20, 2020 | Finance | |
| | Review and meet with Departments to | |
| January 21, 2021- February 19, 2021 | discuss Operating Budgets | CFPUA Staff |
| Wednesday, February 3, 2021 | Regular Finance Committee Meeting | Finance Committee |
| 9:00 am Virtual | - Review SDC Calculation | Tindrice committee |
| Wednesday, February 10, 2021 | Regular Board Meeting | Engineering/Authority Board |
| 9:00 am Wilmington Convention | Regular Board Weeting | Lingineering/Authority board |
| Center | - Review SDC Calculation | |
| Center | Neview Spe calculation | |
| | Publish System Development Charge on | |
| Wednesday February 10, 2021 | CFPUA website for Public Comment | |
| Wednesday rebruary 10, 2021 | CIT OA WEBSILE IOI I ablic comment | |
| | Meeting to finalize new | |
| | position/reclassification requests for the | |
| Thursday, February 18, 2021 | Continuation Budget | |
| Friday, February 28, 2021 | Performance Evaluations Due to HR | Human Resources |
| Monday, March 1, 2021 | Business Insurance Estimates Due | CFPUA Staff |
| Widitaly, Walcii 1, 2021 | | CFPOA Stall |
| Wodnosday March 2 2021 | Regular Finance Committee Meeting | |
| Wednesday, March 3, 2021 9:00 am Virtual | Preliminary Recommended Budget Review Review of CIP | Einance Committee |
| | | Finance Committee |
| Wednesday, March 10, 2021 | Regular Board Meeting | |
| 9:00 am Wilmington Convention Center | Preliminary Recommended Budget Review Review of CIP | Authority Board |
| | | Authority Board |
| Thursday, March 25,2021 | FY21 CIP Approval by LRPC | Engineering/LRPC |
| Wodnesday March 31, 2021 | End of public comment period for proposed | |
| Wednesday, March 31, 2021 | system development charges | |
| Moderandor April 7, 2020 | Regular Finance Committee Meeting | Finance Committee |
| Wednesday, April 7, 2020 | Preliminary Recommended Budget Review | Finance Committee |
| 9:00 am Virtual | | |
| Wodnesday April 14, 2020 | Pogular Poord Mooting/Dublic Hooring | Authority Poard |
| Wednesday, April 14, 2020 | Regular Board Meeting/Public Hearing | Authority Board |
| | Preliminary Recommended Budget Review Public Hearing on SDC Calculation and | |
| 0:00 am Wilmington Convention | 1 | |
| 9:00 am Wilmington Convention | Adoption of SDCs (if no revisions are | |
| Center | needed) | |
| | EV31 CID Pocommonded for Approval | |
| Eriday April 20, 2021 | - FY21 CIP Recommended for Approval | CEDILA Stoff |
| Friday, April 30, 2021 | Recommended Budget Completed | CFPUA Staff |
| | | |

BUDGET CALENDAR

| Day/Date/Time | Event | Group |
|-------------------------------|--------------------------------------|-------------------|
| Wednesday, May 5, 2021 | Regular Finance Committee Meeting | Finance Committee |
| 9:00 am Virtual | - Recommended Budget Submitted | |
| Wednesday, May 12, 2021 | Regular Board Meeting | Authority Board |
| 9:00 am Wilmington Convention | | |
| Center | - Recommended Budget Submitted | |
| Wednesday, June 2, 2021 | Regular Finance Committee Meeting | Finance Committee |
| | - Recommendation of Budget Adoption | |
| IT Conference Room | Submitted (including rates) | |
| Wednesday, June 9, 2021 | Regular Board Meeting/Public Hearing | Authority Board |
| 9:00 am Wilmington Convention | | |
| Center | - 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.

FINANCIAL POLICIES

Revenues

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 annual debt service requirements 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.

EXPENDITURE SUMMARY

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 fiscal years. The FY 21-22 operating budget is \$91,968,325, an increase of 2.2% compared to the adopted FY 20-21 operating budget. The information below summarizes the major expenditure categories and some of the key factors and assumptions driving the FY 21-22 operating budget.

Salaries and Benefits

Salaries and benefits costs related to the Authority's employees and retirees budgeted for FY 21-22 are approximately \$27.05 million, which makes up 29% of the Authority's operating budget. The following chart details the Authority's staffing trends over the upcoming budget year and the previous two years. The FY 21-22 budget authorizes a total of 327.75 full-time equivalent (FTE) positions, an increase of 4 FTEs from the current staffing levels.

Authorized Full-time Equivalent Positions by Fiscal Year

| · | FY 19-20 | FY 20-21 | FY 21-22 |
|--|----------|----------|----------|
| Administration (1101) | 4.00 | 4.00 | 2.0 |
| Communications (1102) | | | 2.0 |
| Finance (1201) | 12.00 | 12.00 | 12.0 |
| Human Resources (1301) | 4.00 | 4.00 | 4.0 |
| Public & Environmental Policy (1401) | 3.00 | 3.00 | 3.0 |
| Information Technology (2504) | 9.00 | 9.00 | 9.0 |
| Treatment & Engineering Services: | | | |
| Administration (2001) | 5.00 | 5.00 | 5.0 |
| Engineering (2002 & 2004) | 16.00 | 17.00 | 17.0 |
| Centralized Maintenance (2401 & 2402) | 21.00 | 22.00 | 22.0 |
| Water Treatment (2600's) | 27.00 | 28.00 | 30.0 |
| Wastewater Treatment (2700's) | 32.00 | 32.00 | 33.0 |
| Linear Assets & Project Management | | | |
| Administration (2501) | 4.00 | 4.00 | 4.0 |
| Utility Services (2800's & 2900's) | 91.00 | 94.00 | 94.0 |
| Project Management (2003) | 6.00 | 6.00 | 6.0 |
| Environmental Management/Safety (3000's) | 29.75 | 29.75 | 30.75 |
| Customer Service/Meter Services (3500's) | 57.00 | 54.00 | 54.0 |
| Total | 320.75 | 323.75 | 327.75 |

EXPENDITURE SUMMARY

The following table details the change in individual salary and benefits line items compared to the adopted FY 20-21 operating budget.

| | | | | | Increase/ | | | |
|----------------------------|--------------------|--------------|------------|--------------|------------|----|------------|-------------|
| | | FY21 Adopted | | FY22 Adopted | | | (Decrease) | %Difference |
| Regular Salary & Wages | | \$ | 17,722,587 | \$ | 18,699,025 | \$ | 976,438 | 5.5% |
| Health/Dental Insurance | | | 3,158,283 | | 3,059,151 | \$ | (99,132) | -3.1% |
| LGERS Pension Contribution | | | 1,878,103 | | 2,202,228 | \$ | 324,125 | 17.3% |
| FICA - Social Security | | | 1,109,449 | | 1,166,067 | \$ | 56,618 | 5.1% |
| Overtime | | | 673,700 | | 692,300 | \$ | 18,600 | 2.8% |
| 401K Matching Contribution | | | 669,089 | | 696,607 | \$ | 27,518 | 4.1% |
| FICA - Medicare | | | 259,494 | | 272,730 | \$ | 13,236 | 5.1% |
| Standby | | | 212,200 | | 187,300 | \$ | (24,900) | -11.7% |
| Life/AD&D Insurance | | | 44,300 | | 44,370 | \$ | 70 | 0.2% |
| Long Term Disability | | | 23,768 | | 23,740 | \$ | (28) | -0.1% |
| Miscellaneous | | | 4,800 | | 4,800 | \$ | - | 0.0% |
| Employee License Incentive | | | - | | 8,000 | \$ | 8,000 | 100.0% |
| | Grand Total | \$ | 25,755,773 | \$ | 27,056,318 | \$ | 1,300,545 | 5.0% |

Regular salaries and wages increased by 5.2% due to the following:

- The addition of 4 new FTE positions
 - Planner/Schedulers (2 FTE) in the Water Treatment division to keep up with an increased workload, due to new projects in the field services division and the new Granulated Activated Carbon filtration process beginning at the Sweeney Water Treatment Plant.
 - Chemist (1 FTE) in the Environmental Management Department to keep up with the increased workload required by the new lead and copper rule.
 - Operator (1 FTE) in the Wastewater Treatment division to maintain current service levels.
 An Operator position was reclassified into a supervisor position to manage the bio-solids program. The Operator position will backfill the position that was reclassified.
- A 1.5% cost-of-living and 3% merit increases for certain employees.
- Equity adjustments totaling \$88,000 for staff to meet market levels and reduce attrition.

The increases in regular salaries and wages and overtime resulted in commensurate increases in amounts budgeted for FICA taxes and 401(k) matching contributions. In addition to the increases in regular salaries and wages and overtime, required employer contributions to the North Carolina Local Government Employees Retirement System increased from 10.15% to 11.35% of covered payroll resulting in an overall increase of 17.3% compared to the FY 20-21 adopted budget. Budgeted expenditures for health and dental benefits decreased 3.1% from the prior year's adopted budget due to a \$17.40 reduction per employee per month to the North Carolina state health plan premiums staring in January 2021.

EXPENDITURE SUMMARY

Operations and Maintenance

Operations and maintenance 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. Operations and maintenance budgeted for FY 21-22 total approximately \$21.7 million, an increase of 6.1% from the FY 20-21 adopted budget.

The table below details changes in budgeted operating expenditures by department.

| | | | | | Increase/ | |
|------------------------------------|----|------------|----|--------------|-----------------|-------------|
| | FY | 21 Adopted | F | FY22 Adopted | (Decrease) | %Difference |
| Authority Board | \$ | 21,344 | \$ | 19,794 | \$ (1,550) | -7.3% |
| Adminstration | | 532,498 | | 571,880 | 39,382 | 7.4% |
| Communications | | - | | 65,676 | 65,676 | |
| Finance | | 152,449 | | 147,714 | (4,735) | -3.1% |
| Human Resourses | | 132,148 | | 134,960 | 2,812 | 2.1% |
| Public & Environmental Policy | | 25,764 | | 23,294 | (2,470) | -9.6% |
| Information Technology | | 2,209,224 | | 2,503,609 | 294,385 | 13.3% |
| Treatment & Engineering Services: | | | | | - | |
| Administration | | 44,968 | | 66,077 | 21,109 | 46.9% |
| Engineering | | 98,636 | | 65,573 | (33,063) | -33.5% |
| Centralized Maintenance | | 1,985,219 | | 1,864,141 | (121,078) | -6.1% |
| Water Treatement | | 4,974,819 | | 5,159,071 | 184,252 | 3.7% |
| Wastewater Treatment | | 2,521,943 | | 2,581,201 | 59,258 | 2.3% |
| Linear Assets & Project Management | | | | | - | |
| Adminstration | | 16,230 | | 11,254 | (4,976) | -30.7% |
| Utility Services | | 4,055,348 | | 4,097,950 | 42,602 | 1.1% |
| Project Management | | 16,260 | | 14,728 | (1,532) | -9.4% |
| Environmental Mangement/Safety | | 719,862 | | 803,014 | 83,152 | 11.6% |
| Customer Service/Meter Services | | 956,849 | | 1,176,774 | 219,925 | 23.0% |
| Non-departmental | | 2,013,788 | | 2,420,943 | 407,155 | 20.2% |
| Total | \$ | 20,477,349 | \$ | 21,727,653 | \$ 1,250,304 | 6.1% |

Significant increases in operations and maintenance expenditures from the FY 20-21 adopted budget by department are as follows:

- Non-Departmental The \$407,155 increase is primarily due to property and auto insurance premiums. Property and wind/hail insurance has increased because of the number of catastrophic events over the past 2 years. In addition, auto insurers are passing on rate increases created by losses and increases from the NC Automobile Reinsurance Facility.
- Information Technology The \$294,385 increase is a result of increased licensing cost of the new ERP system that was implemented in FY 20-21. In addition, there is an increased cost to maintain the virtual server platform.

EXPENDITURE SUMMARY

- Customer Service The \$219,925 increase is primarily due to moving from bi-monthly billing to monthly billing, which will require additional postage.
- Water Treatment The \$184,252 increase is a result of a 19.4% increase in the raw water purchase rate, an increase in production, and a rise in raw materials cost for chemicals.
- Environmental Management/Safety The \$83,152 increase is for additional lab testing for the new lead and copper rule and additional PFAS testing on new filters.

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 debt management policies are designed to maintain coverage of at least 1.8 times the annual debt service requirement. In addition, this policy provides that the Authority cannot 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 following chart compares the budgeted debt service in FY 21-22 to the FY 20-21 adopted budget:

| | | | | | Increase/ | |
|--------------------------------------|----|---------------|----|---------------|-----------------|-------------|
| | FY | 20-21 Adopted | FY | 21-22 Adopted | (Decrease) | %Difference |
| Water and Sewer Rate Revenue Bonds | \$ | 23,050,500 | \$ | 22,751,847 | \$ (298,653) | -1.3% |
| Debt Assumed from New Hanover County | | 1,328,150 | | 1,278,350 | \$ (49,800) | -3.7% |
| State Revolving Loans | | 1,367,909 | | 1,154,157 | \$ (213,752) | -15.6% |
| Total | \$ | 25,746,559 | \$ | 25,184,354 | \$ (562,205) | -2.2% |

The debt service appropriation for the FY 21-22 budget is \$25.2 million, a decrease of 2.2% compared to the FY 20-21 adopted budget. The decrease is mainly attributable to the early payoff of a state revolving loan, reducing the debt service by \$177,000 per year, and reduced interest payments on the 2019A bond.

The Authority does not plan to issue any new debt during FY 21-22; however, the Authority was approved to receive a Clean Water State Revolving loan to fund a \$4.5 million project to rehabilitate gravity sewer on 5th Ave, in downtown Wilmington. The Authority is also applying for a Drinking Water State Revolving Loan of approximately \$1.75 million to fund the replacement of water mains, valves and services on 5th Ave in downtown Wilmington. Debt service payments for these loans will begin when these projects are completed. None of these projects are expected to completed during FY 21-22.

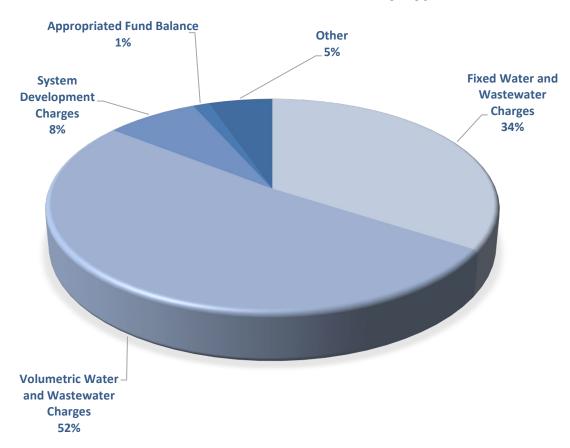
EXPENDITURE SUMMARY

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. The FY 21-22 operating budget includes \$18 million in pay-as-you-go capital funding. The \$18 million in annual pay-as-you-go capital funding is the amount that is needed each year to both support the Authority's long-term capital needs while also complying with the Authority's debt limit over the long term.

The Authority sets rates, fees and charges with oversight, supervision, and approval from the Board. The Authority's operations, capital improvement program and debt payments are funded almost entirely through rates, fees and other charges for water and wastewater services, with occasional grants from the state or federal government and contributions from the City of Wilmington, New Hanover County or other governmental and nongovernmental entities.

Fiscal Year 2021-2022 Revenues by Type



Water and Wastewater Fixed and Volumetric Charges

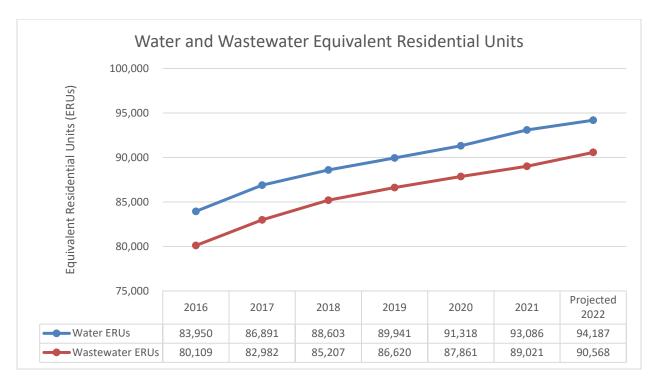
Most of the Authority's revenues (86%) are generated from rate revenues for water and wastewater service. Rates are composed of fixed and volumetric portions. Fixed charges represent the minimum amount a customer will pay regardless of usage. The volumetric component charges a cost per 1,000 gallons of usage. As shown above, in FY 21-22, 52% of total budgeted revenue are from volumetric charges and 34% of total budgeted revenue are from fixed charges. Fixed charges are estimated to total \$31.4 million (\$15.6 million from water and \$15.8 million from wastewater), a 0.9% increase from the FY 20-21 adopted budget. Volumetric revenues are anticipated to total \$47.3 million (\$23.5 million from water and

\$23.8 million from wastewater), a 4.4% increase from the FY 20-21 adopted budget. These increases are attributable to projected increases in the number of equivalent residential units (ERUs) and usage per equivalent residential unit compared to the FY 20-21 adopted budget.

Water and wastewater fixed charges are developed to recover the greater of debt service due during the year or 35% of the operating budget. This policy exists for two reasons: 1) to guarantee that sufficient amounts are available to pay debt service irrespective of usage 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 usage.

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 ERUs, which expresses the number of active accounts as if each customer were a residential customer. ERUs assumed for the FY 21-22 budget are based on current actual ERUs inflated by a growth factor based on recent experience.

The chart below provides trends in actual water and wastewater ERUs since FY 15-16 and projected water and wastewater ERUs for FY 21-22.



The number of ERUs served has grown steadily over the last several years. This trend in growth is expected to continue through FY 21-22 based on the number of plan reviews and building inspections.

The table below compares the ERU assumptions and fixed charge revenues in the FY 20-21 and FY 21-22 budgets.

| | | | | | Increase/ | |
|-----------------------------------|----|-------------|----|-------------|---------------|--------------|
| | F | Y21 Adopted | ı | Y22 Adopted | (Decrease) | % Difference |
| Assumed ERUs - Water | | 93,300 | | 94,187 | 887 | 1.0% |
| Bimonthly Fixed Water Charge | \$ | 27.56 | \$ | 27.56 | \$ - | 0.0% |
| Total Fixed Charges Water | \$ | 15,428,089 | \$ | 15,574,762 | \$ 146,673 | 3.0% |
| Assumed ERUs - Wastewater | | 89,760 | | 90,568 | 808 | 0.9% |
| Bimonthly Fixed Wastewater Charge | \$ | 29.10 | \$ | 29.10 | \$ - | 0.0% |
| Total Fixed Charges Wastewater | \$ | 15,672,096 | \$ | 15,813,173 | \$ 141,077 | 0.9% |
| Total Fixed Charges | \$ | 31,100,185 | \$ | 31,387,935 | \$ 287,750 | 0.9% |

The volumetric charge utilizes a uniform rate structure such that the rate per 1,000 gallons remains constant for all levels of usage. 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 usage. Usage projections for FY 21-22 are equal to actual FY 20-21 usage projected through the end of fiscal year.

The chart below provides trends in actual water and wastewater consumption per ERU since FY 15-16 and projected water and wastewater consumption per ERU for FY 20-21 and FY 21-22.

Water and Wastewater Consumption per ERU by Fiscal Year



Water and wastewater consumption depend largely on rainfall. FY 19-20 was a relatively dry year resulting in greater billed water and wastewater consumption. The increase in consumption per ERU in FY 19-20 was more pronounced for water due to irrigation usage which is not billed wastewater charges. Since that time we have seen a return to normal rainfall resulting in a decrease in the consumption per ERU.

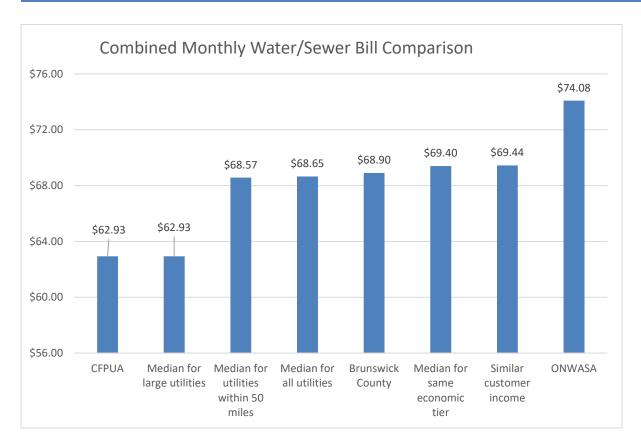
The table below compares the usage assumptions and volumetric charge revenues in the FY 19-20 and FY 20-21 budgets.

| | | | | Increase/ | |
|---|----|-------------|------------------|-----------------|--------------|
| | F | Y21 Adopted | Y22 Adopted | (Decrease) | % Difference |
| Assumed ERUs - Water | | 93,300 | 94,187 | 887 | 1.0% |
| Assumed Annual Usage per ERU - Water | | 59.29 | 62.26 | 2.97 | 5.0% |
| Assumed Annual Usage - Water (TGal) | | 5,531,757 | 5,863,612 | 331,855 | 6.0% |
| Volumetric Charge - Water | \$ | 4.02 | \$ 4.02 | \$ - | 0.0% |
| Total Volumetric Charges - Water | \$ | 22,237,665 | \$ 23,571,719 | \$ 1,334,054 | 6.0% |
| Assumed ERUs - Wastewater | | 89,760 | 90,568 | 808 | 0.9% |
| Assumed Annual Usage per ERU - Wastewater | | 55.59 | 56.70 | 1.11 | 2.0% |
| Assumed Annual Usage - Wastewater (Tgal) | | 4,989,758 | 5,135,387 | 145,629 | 2.9% |
| Volumetric Charge - Wastewater | \$ | 4.63 | \$ 4.63 | \$ - | 0.0% |
| Total Volumetric Charges - Wastewater | \$ | 23,102,581 | \$ 23,776,841 | \$ 674,260 | 2.9% |
| Total Volumetric Charges | \$ | 45,340,246 | \$ 47,348,560 | \$ 2,008,314 | 4.4% |

The Authority's water and wastewater rates remain at or below the median rates within North Carolina. Assuming monthly usage of 4,000 gallons, a residential customer will pay \$62.93 per month (\$125.86 every two months) in FY 21-22. The bar graph below compares CFPUA's monthly combined water and sewer bill to the median combined bills of all North Carolina utilities, all large North Carolina utilities within the same economic tier, all North Carolina utilities with similar income, and all North Carolina utilities within 50 miles of CFPUA. The combined bills for Brunswick County and Onslow Water and Sewer Authority (ONWASA) are also included. These two utilities are CFPUA's most direct peers in terms of topography, size, and income level.

It should be noted that the monthly combined bill for each peer is based on rates in effect for FY 20-21. The amounts presented for the Authority are based on rates for FY 21-22. Therefore, any rate increases effective for FY 21-22 are not included in the peers' monthly bills.

The chart on the next page provides a comparison of CFPUA's bill to the bills for various peer groups assuming 4,000 gallons per month.



Source: Environmental Finance Center, North Carolina Utilities Dashboard

System Development Charges

The system development charge (SDC) 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. The SDC calculation consists of two parts: 1) quantifying the value of infrastructure paid for by current and past rate payers that will benefit new customers (i.e. rate payer equity) and 2) allocating rate payer equity to existing and new customers. 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 table below presents the adopted SDCs (for 5/8" meters) for FY 20-21 and FY 21-22:

| | | | | | Increase/ | |
|--|---------|------------|------|--------------|------------|--------------|
| | FY 20-2 | 21 Adopted | FY 2 | 1-22 Adopted | (Decrease) | % Difference |
| System Development Charge - Water | \$ | 1,920 | \$ | 2,120 | \$ 200 | 10.4% |
| System Development Charge - Wastewater | \$ | 2,070 | \$ | 2,180 | \$ 110 | 5.3% |

The increases in the adopted SDCs are a direct result of the adoption of revisions to the Authority's debt management policy. These revisions have increased the proportion of cumulative capital investments that are funded on a pay-as-you-go basis and consequently increased rate payer equity. Estimated total SDC revenues are derived by multiplying the SDCs by the number of new customers (on an ERU basis) that are expected to be assessed the SDC during the year. Total SDC revenues are estimated to be \$7,095,000, which assumes 1,650 new ERUs will be assessed SDCs for both water and wastewater. This assumed level of ERUs is consistent with recent trends over the last three fiscal years. All leading indicators such as the level of plan reviews and inspections suggest that this level of growth should continue during FY 21-22.

Other Revenues (Other Charges for Service and Investment Earnings)

Other revenues account for 5% of total budgeted revenues. Other revenues include penalties and late fees, application and premise visit fees, meter fees, tap fees, and investment earnings. Budgeted amounts are based on historical averages adjusted for current trends. Other charges for FY 21-22 are \$4.6 million, a decrease of approximately \$2.4 million from the FY 20-21 budget. The decrease is due to a \$1.5 million decrease in projected investment earnings attributable to the low yields that CFPUA is able to earn on its investments. The remainder of the decrease is due to the suspension of shutoffs and the assessment of late fees implemented to assist customers that may be experiencing economic difficulty due to the COVID-19 pandemic.

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 21-22 budget includes an estimated use of \$500,000 of appropriated fund balance to fund appropriations related to the provision of retiree health insurance benefits. The FY21-22 budget also includes \$779,930 of debt service reserve funds that have been designated to pay off final maturities for the Authority's 2011 revenue bonds.

CONSOLIDATED FINANCIAL SCHEDULE

| | 0 | perating Fund | | | c | apital Fund | | | | All Funds |
|---|--------------|--------------------------------|----|---------------|----|--------------------------------|----|--------------------------------|----|---------------------------|
| | FY | 21-22 Adopted | FY | 21-22 Adopted | | Prior Year | | | | |
| | | Budget | | Budget | Α | ppropriations | A۱ | ailable Budget | Αv | ailable Budget |
| REVENUES | φ. | 20 140 401 | Φ. | | Φ. | | φ. | | • | 20 140 401 |
| Water Revenues | \$ | 39,146,481 | \$ | - | \$ | - | \$ | - | \$ | 39,146,481 |
| Wastewater Revenues | | 39,590,014 | | - | | - | | - | | 39,590,014 |
| Investment Earnings | | 200,000 | | - | | - | | - | | 200,000 |
| System Development Charges | | 7,095,000 | | - | | 2 425 262 | | - 425 262 | | 7,095,000 |
| Grants | | 4 507 000 | | - | | 2,425,262 | | 2,425,262 | | 2,425,262 |
| Other Revenues TOTAL REVENUES | \$ | 4,507,000 90,538,495 | \$ | <u> </u> | \$ | 7,835,391 10,260,653 | \$ | 7,835,391 10,260,653 | \$ | 12,342,391 100,799,148 |
| EXPENDITURES | | | | | | | · | .,, | | |
| Operating | | | | | | | | | | |
| Authority Board | \$ | 69,357.0 | \$ | _ | \$ | _ | \$ | _ | \$ | 69.357.0 |
| Administration | Ψ | 934,891 | Ψ | _ | Ψ | _ | Ψ | _ | Ψ | 934,891 |
| Communications | | 308,868 | | _ | | _ | | _ | | 308,868 |
| Finance | | 1,400,748 | | _ | | _ | | _ | | 1,400,748 |
| Human Resources | | 645,010 | | _ | | _ | | _ | | 645,010 |
| Public & Environmental Policy | | 346,439 | | _ | | _ | | _ | | 346,439 |
| Information Technology | | 3,493,521 | | _ | | _ | | _ | | 3,493,521 |
| Treatment & Engineering Services: | | 0,400,021 | | _ | | _ | | _ | | 0,430,021 |
| Administration | | 831,781 | | _ | | _ | | _ | | 831,781 |
| Engineering | | 1,627,459 | | _ | | _ | | _ | | 1,627,459 |
| Centralized Maintenance | | 3,481,753 | | _ | | | | | | 3,481,753 |
| Water Treatment | | 7,592,456 | | _ | | _ | | _ | | 7,592,456 |
| Wastewater Treatment | | 5,077,501 | | _ | | _ | | _ | | 5,077,501 |
| Linear Assets & Project Management: | | 3,077,001 | | _ | | _ | | _ | | 0,077,001 |
| Administration | | 575,239 | | _ | | _ | | _ | | 575,239 |
| Collections | | 7,028,642 | | _ | | _ | | _ | | 7,028,642 |
| Distribution | | 3,787,132 | | _ | | _ | | _ | | 3,787,132 |
| Project Management | | 661,980 | | _ | | _ | | _ | | 661,980 |
| Environmental Management | | 3,403,474 | | _ | | _ | | _ | | 3,403,474 |
| Customer Service | | 4,596,777 | | _ | | _ | | _ | | 4,596,777 |
| Nondepartmental | | 2,920,943 | | _ | | _ | | _ | | 2,920,943 |
| Debt Service | | 25,184,354 | | _ | | _ | | _ | | 25,184,354 |
| Contingency | | 20, 104,004 | | _ | | _ | | _ | | 20, 104,004 |
| Total Operating | \$ | 73,968,325 | \$ | | \$ | | \$ | | \$ | 73,968,325 |
| Capital | Ψ | 70,300,020 | Ψ | _ | Ψ | _ | Ψ | _ | Ψ | 70,300,020 |
| System-wide | \$ | _ | \$ | 3,350,000.00 | \$ | 2.505.710 | \$ | 5.855.710.00 | \$ | 5,855,710.00 |
| Water | Ψ | _ | Ψ | 9,480,000 | Ψ | 51,206,986 | Ψ | 60,686,986 | Ψ | 60,686,986 |
| Wastewater | | | | 14,700,000 | | 24,168,053 | | 38,868,053 | | 38,868,053 |
| Total Capital | \$ | - | \$ | 27,530,000 | \$ | 77,880,749 | \$ | 105,410,749 | \$ | 105,410,749 |
| TOTAL EXPENDITURES | \$ | 73,968,325 | \$ | 27,530,000 | \$ | 77,880,749 | \$ | 105,410,749 | \$ | 179,379,074 |
| OTHER FINANCING COLIROFO (/LIGFO) | | | | | | | | | | |
| OTHER FINANCING SOURCES/(USES) | Φ. | 150,000 | Φ. | | Φ. | | Φ. | | Φ. | 150.000 |
| Sale of Capital Assets | \$ | 150,000 | \$ | - | \$ | - | \$ | - | \$ | 150,000 |
| Proceeds from Bonds/Installment Obligations | | - | | 6,590,308 | | 38,716,017 | | 45,306,325 | | 45,306,325 |
| Appropriated Fund Balance | | 1,279,830 | | - | | 4,204,628 | | 4,204,628 | | 5,484,458 |
| Transfers to Capital Fund | | (18,000,000) | | - | | - | | - | | (18,000,000) |
| Transfers from Operating Fund | - | | | 20,939,692 | | 24,699,451 | | 45,639,143 | | 45,639,143 |
| TOTAL OTHER FINANCING SOURCES/(USES) | \$ | (16,570,170) | \$ | 27,530,000 | \$ | 67,620,096 | \$ | 95,150,096 | \$ | 78,579,926 |
| CHANGE IN FUND BALANCE | \$ | _ | \$ | _ | \$ | _ | \$ | _ | \$ | - |

THREE YEAR CONSOLIDATED AND FUND FINANCIAL SCHEDULES

CAPE FEAR PUBLIC UTILITY AUTHORITY

For the Twelve Months Ending Thursday, June 30, 2022

| | | | O | perating Fund | | | | , | C | Capital Fund* | | | | | T | otal All Funds | | |
|---------------------------------------|----|--------------|----|----------------|----|----------------|----|------------|----|---------------|----|-------------|----|--------------|----|----------------|----|--------------|
| | | FY 2020 | | FY 2021 | | FY 2022 | | FY 2020 | | FY 2021 | | FY 2022 | | FY 2020 | | FY 2021 | | FY 2022 |
| | | Actual | | Actual | | Budget | | Actual | | Actual | | Budget | | Actual | | Actual | | Budget |
| REVENUES | | | | | | | | | | | | | | | | | | |
| Water Revenues | \$ | 38,652,703 | \$ | 38,519,467 | \$ | 39,146,481 | \$ | - | \$ | - | \$ | - | \$ | 38,652,703 | \$ | 38,519,467 | \$ | 39,146,481 |
| Wastewater Revenues | | 38,317,157 | | 38,589,100 | | 39,590,014 | | - | | - | | - | | 38,317,157 | | 38,589,100 | | 39,590,014 |
| Investment Earnings | | 2,046,294 | | 260,774 | | 200,000 | | - | | - | | - | | 2,046,294 | | 260,774 | | 200,000 |
| System Development Charges | | 6,570,775 | | 8,047,468 | | 7,095,000 | | - | | - | | - | | 6,570,775 | | 8,047,468 | | 7,095,000 |
| Grants | | 48,189 | | 261,954 | | - | | 8,158,463 | | 2,333,442 | | 2,425,262 | | 8,206,652 | | 2,595,396 | | 2,425,262 |
| Other Revenues | | 5,523,733 | | 6,307,632 | | 4,507,000 | | 5,987,994 | | 14,445,691 | | 7,835,391 | | 11,511,727 | | 20,753,323 | | 12,342,391 |
| TOTAL REVENUES | \$ | 91,158,851 | \$ | 91,986,395 | \$ | 90,538,495 | \$ | 14,146,457 | \$ | 16,779,133 | \$ | 10,260,653 | \$ | 105,305,308 | \$ | 108,765,528 | \$ | 100,799,148 |
| EXPENDITURES | | | | | | | | | | | | | | | | | | |
| Authority Board | \$ | 53,278 | \$ | 68,950 | \$ | 69,357 | \$ | _ | \$ | _ | \$ | _ | \$ | 53,278 | \$ | 68,950 | \$ | 69,357 |
| Administration | • | 903,725 | * | 1,555,693 | • | 934,891 | • | _ | • | _ | • | _ | * | 903,725 | • | 1,555,693 | • | 934,891 |
| Communications | | - | | 75,132 | | 308,868 | | _ | | _ | | _ | | - | | 75,132 | | 308,868 |
| Finance | | 1,257,289 | | 1,297,844 | | 1,400,748 | | _ | | _ | | _ | | 1,257,289 | | 1,297,844 | | 1,400,748 |
| Human Resources | | 568,272 | | 582,121 | | 645,010 | | _ | | _ | | _ | | 568,272 | | 582,121 | | 645,010 |
| Public & Environmental Policy | | 308,789 | | 328,454 | | 346,439 | | _ | | _ | | _ | | 308,789 | | 328,454 | | 346,439 |
| Information Technology | | 2,585,036 | | 3,167,648 | | 3,493,521 | | _ | | _ | | _ | | 2,585,036 | | 3,167,648 | | 3,493,521 |
| Treatment & Engineering Services: | | 2,000,000 | | 0,107,010 | | 0,100,021 | | | | | | _ | | 2,000,000 | | - | | - |
| Administration | | 730,498 | | 761,080 | | 831,781 | | _ | | _ | | _ | | 730,498 | | 761,080 | | 831.781 |
| Engineering | | 1,316,164 | | 1,480,973 | | 1,627,459 | | _ | | _ | | _ | | 1,316,164 | | 1,480,973 | | 1,627,459 |
| Centralized Maintenance | | 3,203,783 | | 3,925,340 | | 3,481,753 | | _ | | _ | | _ | | 3,203,783 | | 3,925,340 | | 3,481,753 |
| Water Treatment | | 7,017,890 | | 6,854,459 | | 7,592,456 | | _ | | _ | | _ | | 7,017,890 | | 6,854,459 | | 7,592,456 |
| Wastewater Treatment | | 5,086,816 | | 4,458,164 | | 5,077,501 | | _ | | _ | | _ | | 5,086,816 | | 4,458,164 | | 5,077,501 |
| Linear Assets & Project Management: | | 3,000,010 | | 4,430,104 | | 3,077,301 | | = | | = | | | | 3,000,010 | | -,430,104 | | 5,077,501 |
| Administration | | 537,402 | | 550,525 | | 575,239 | | _ | | _ | | | | 537,402 | | 550,525 | | 575,239 |
| Collections | | 6,309,674 | | 6,628,065 | | 7,028,642 | | | | | | | | 6,309,674 | | 6,628,065 | | 7,028,642 |
| Distribution | | 3,553,989 | | 3,522,014 | | 3,787,132 | | | | | | | | 3,553,989 | | 3,522,014 | | 3,787,132 |
| Project Management | | 566,227 | | 629,068 | | 661,980 | | | | | | | | 566,227 | | 629,068 | | 661,980 |
| Environmental Management | | 2,884,865 | | 3,063,151 | | 3,403,474 | | = | | = | | = | | 2,884,865 | | 3,063,151 | | 3,403,474 |
| Customer Service | | 4,206,743 | | 4,255,334 | | 4,596,777 | | - | | - | | - | | 4,206,743 | | 4,255,334 | | 4,596,777 |
| Capital Outlay | | 4,200,743 | | 4,233,334 | | 4,550,777 | | 67,725,532 | | 66,473,016 | | 105,410,749 | | 67,725,532 | | 66,473,016 | | 105,410,749 |
| Nondepartmental | | 2,313,262 | | 2,316,461 | | 2,920,943 | | 07,723,332 | | 00,473,010 | | 103,410,749 | | 2,313,262 | | 2,316,461 | | 2,920,943 |
| Debt Service | | 22,141,316 | | 27,552,093 | | 25,184,354 | | - | | - | | - | | 22,141,316 | | 27,552,093 | | 25,184,354 |
| TOTAL EXPENDITURES | \$ | 65,545,018 | \$ | 73,072,569 | \$ | | \$ | 67,725,532 | \$ | 66,473,016 | \$ | 105,410,749 | \$ | 133,270,550 | \$ | 139,545,585 | \$ | 179,379,074 |
| OTHER EINANGING COURSES// IOES | | | | | | | | | | | | | | | | | | |
| OTHER FINANCING SOURCES/(USES) | • | 101.000 | Φ. | 045.014 | Φ. | 150.000 | • | | • | | • | | • | 101.000 | Φ. | 045.044 | • | 150.000 |
| Sale of Capital Assets | \$ | 131,623 | \$ | 215,914 | \$ | 150,000 | \$ | - | \$ | 455.000 | \$ | | \$ | 131,623 | \$ | 215,914 | \$ | 150,000 |
| Proceeds from Bonds/Debt | | 48,157,032 | | - | | 4 070 000 | | 58,924,336 | | 155,083 | | 45,306,325 | | 107,081,368 | | 155,083 | | 45,306,325 |
| Appropriated Fund Balance | | - | | - | | 1,279,830 | | 4,853,643 | | 6,965,050 | | 4,204,628 | | 4,853,643 | | 6,965,050 | | 5,484,458 |
| Insurance Proceeds | | 22,500 | | - | | - | | 228,190 | | 459,266 | | - | | 250,690 | | 459,266 | | - |
| Transfers from Operating Fund | | - | | - | | - | | 18,000,000 | | 18,000,000 | | 45,639,143 | | 18,000,000 | | 18,000,000 | | 45,639,143 |
| Transfers to Capital Projects | | (18,000,000) | | (18,000,000) | | (18,000,000) | | - | | - | | - | | (18,000,000) | | (18,000,000) | | (18,000,000) |
| Payment to Refunded Bond Escrow Agent | | (48,105,675) | | - (42 204 000) | _ | - (40 ==0 4=0) | _ | - | _ | - | _ | - | _ | (48,105,675) | | | _ | |
| TOTAL OTHER FINANCING SOURCES/(USES) | \$ | (17,794,520) | \$ | (17,784,086) | \$ | (16,570,170) | \$ | 82,006,169 | \$ | 25,579,399 | \$ | 95,150,096 | \$ | 64,211,649 | \$ | 7,795,313 | \$ | 78,579,926 |
| CHANGE IN FUND BALANCE | \$ | 7,819,313 | | 1,129,740 | | | | 28,427,094 | • | (04 114 404) | • | | | 36,246,407 | | (22,984,744) | • | |
| CHANGE IN FUND BALANCE | Þ | 7,819,313 | Þ | 1,129,740 | Ф | - | \$ | Z8,4Z7,U94 | Ф | (24,114,484) | Ф | - | \$ | 30,∠40,407 | Þ | (22,954,744) | Ф | - |

^{*} The budget amounts presented for the Capital Fund include total available appropriations as of July 1, 2021. Actual spending of these appropriations and recognition of the associated revenues will occur over multiple years. Consequently, comparison cannot be made between actual revenues and expenditures presented for FY 2020 and FY 2021 and the available budget amounts.

PROJECTED CHANGES IN FUND BALANCE & NET POSITION

The Authority does not have any governmental funds. Rather, the Authority reports its operations as a single enterprise fund using the economic resources measurement focus and accrual basis of accounting for general purpose external financial reporting. Consequently, net position is the most appropriate measure of the Authority's financial position. Net position represents the extent to which the Authority's assets and deferred outflows of resources exceed its liabilities and deferred inflows of resources on the accrual basis of accounting similar to a private company.

As discussed in the Financial Structure section, the Authority is required by law to budget using the modified accrual basis of accounting. For budgetary control and reporting purposes, the Authority uses two funds: the Operating Fund and the Capital Fund. Operating Fund appropriations lapse at the end of the fiscal year for which the appropriations were made. Capital Fund appropriations do not lapse at the end of the fiscal year in which the appropriations was made. The Authority monitors the combined unrestricted fund balance for the Operating Fund and the Capital Fund to ensure that unrestricted fund balance does not fall below \$50 million in accordance with the Authority's financial policies.

The following table projects the changes in restricted and unrestricted fund balance for the Operating Fund and the Capital Fund and the changes in the Authority's overall net position that are anticipated to occur during FY 21-22.

| | Ор | erating Fund | Capital Fund | Total |
|---|----|--------------|-------------------|-------------------|
| Restricted fund balance: | | | | |
| Balance July 1, 2021 | \$ | 13,053,615 | \$ 33,351,898 | \$ 46,405,513 |
| Change in debt service reserve | | 91,815 | - | 91,815 |
| Expenditure of bonds proceeds restricted for capital projects | | - | (9,687,405) | (9,687,405) |
| Expenditure of capital reserves restricted for capital projects | | - | (1,429,895) | (1,429,895) |
| Projected balance June 30, 2022 | \$ | 13,145,430 | \$ 22,234,599 | \$ 35,380,029 |
| Unrestricted fund balance: | | | | |
| Balance July 1, 2021 | \$ | 67,147,753 | \$ (6,182,086) | \$ 60,965,667 |
| Post-employment healthcare costs | | (500,000) | - | (500,000) |
| Prior year budget carryforwards | | (888,756) | - | (888,756) |
| Pay-as-you-go funding | | - | 18,000,000 | 18,000,000 |
| Pay-as-you-go funded capital expenditures | | - | (15,289,349) | (15,289,349) |
| Projected balance June 30, 2022 | \$ | 65,758,997 | \$ (3,471,435) | \$ 62,287,562 |
| Total fund balance | \$ | 78,904,427 | \$ 18,763,164 | \$ 97,667,590 |
| Net position | | | | |
| Balance July 1, 2021 | | | | \$ 606,889,773 |
| Adjustments to convert fund balance to net position | | | | |
| Capitalized expenditures funded with FY 21-22 revenues | | | | \$ 17,831,155 |
| Capital contributions | | | | 9,500,000 |
| Depreciation on capital assets | | | | (25,510,723) |
| Retirement of debt principal funded with current year revenues | | | | 13,548,030 |
| Amortization of bond premiums | | | | 3,612,754 |
| Amortization of deferred outflows related to debt refundings | | | | (2,174,720) |
| Total adjustments | | | - | \$ 16,806,496 |
| Projected balance June 30, 2022 | | | - | \$ 623,696,269 |
| Projected percentage change in net position | | | • | 2.8% |

PROJECTED CHANGES IN FUND BALANCE & NET POSITION

The Authority is projecting a combined unrestricted fund balance at the end of FY 21-22 of \$62.3 million, well above the policy minimum of \$50 million. Overall, fund balance is projected to be \$97.7 million which is a decrease of \$9.7 million. The projected decrease is due to an \$11.0 decrease in restricted fund balance driven the expenditure of revenue bond proceeds and capital reserve funds for capital projects. Unrestricted fund balance is projected to increase by \$1.3 million. The projected increase is mainly driven by pay-as-you-go funding exceeding projected pay-as-you-go funded capital expenditures. Net position is projected to increase \$16.8 million (2.8%) during FY 21-22 to \$624.5 million. The increase is mainly due to additions to capital assets and the retirement of outstanding debt with FY 21-22 revenues in excess of depreciation expense.

Consistent with the 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.

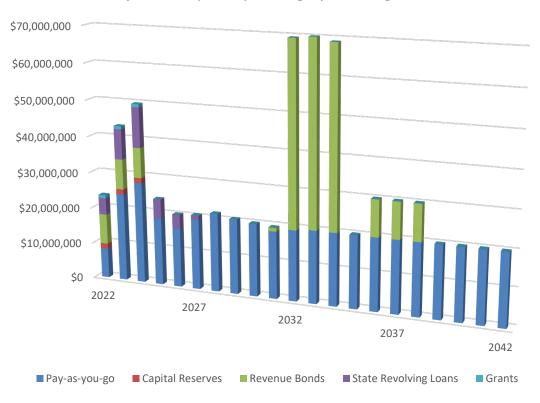
The development of the Authority's 20-year financial plan is an iterative, multi-departmental process and ultimately guided by the Authority's adopted policies and key benchmarks. The goal of this process is to ensure that the Authority remains both operationally and financially sustainable while minimizing 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

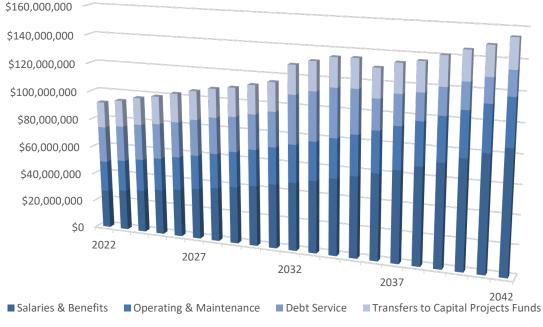
Operational sustainability means that high-quality service will continue to be delivered to customers over the long-term. This notion not only includes providing water and wastewater treatment, distribution, collection, customer service, engineering, and compliance services but also that the Authority 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.

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. Capital expenditures funded with water and wastewater rate revenues throughout the 20-year time horizon include scheduled replacement and rehabilitation of water and wastewater system assets that average approximately \$20 million per year. Layered upon these expenditures are large projects that will be debt funded through the issuance of revenue bonds. The expenditure of revenue bond proceeds in FY 21-22, FY 22-23 and FY 23-24 relate to the treatment upgrades at the Sweeney Water Treatment Plant for PFAS removal and the Authority's share of the construction of a new raw water transmission main from the King's Bluff intake station to Brunswick County's water treatment plant. The expenditure of revenue bonds in FY 30-31 through FY 33-34 relates to a \$150 million capacity upgrade to the Southside Wastewater Treatment Plant and the expenditure of revenue bonds starting in FY 35-36 through FY 37-38 relate to a \$30 million capacity upgrade at the Northside Wastewater Treatment Plant. Projected expenditures funded with state revolving loans include rehabilitation of replacement of pump stations and wastewater collection lines.

Projected Capital Spending by Funding Source



Projected Operating Expenditures by Category



Operating expenditures, excluding debt service expenditures, were assumed to grow in accordance with inflationary assumptions. Salaries and benefits are assumed to grow at 6% per year to accommodate growth in the workforce tied to customer, system growth and cost-of-living and merit-based increases, and growth in benefit costs. Projected operating expenditures include \$1.6 million for maintenance and replacement of granular activated carbon filters at the Sweeney Water Treatment Plant each year starting in FY 22-23. 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.

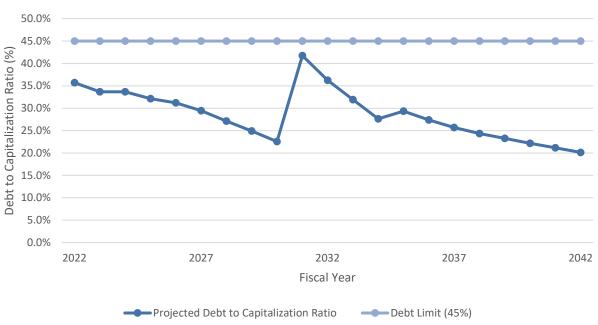
Financial Sustainability

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. These policies were adopted in February 2017 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. In accordance with these policies, rates were deliberately increased in FY 17-18 and FY 18-19 to achieve \$18 million in annual pay-as-you-go capital funding. 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.

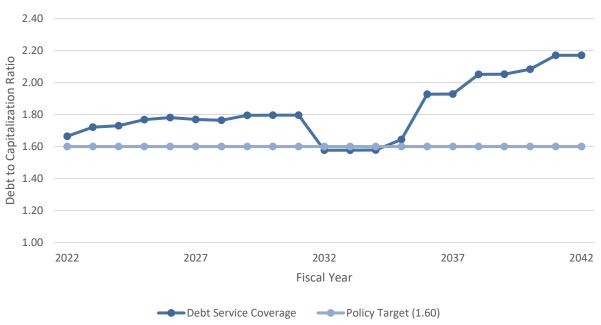




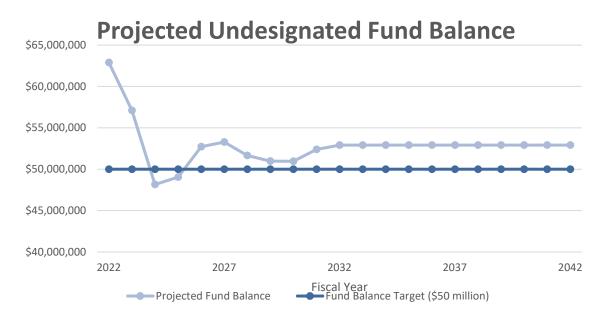
Over the 20-year forecast horizon, the debt-to-capitalization ratio is projected to be below the 45% limit. The debt-to-capitalization ratio is projected to decrease through FY 30-31 as the balance of outstanding debt decreases and the projected capital investment outpaces projected depreciation on system assets. The debt-to-capitalization ratio is projected to increase to 41.7% in FY 30-31 due to the planned issuance of debt to fund a capacity upgrade for the Southside Wastewater Treatment Plant. For financial flexibility, debt issuances have been projected so that the projected debt-to-capitalization never approaches the 45% limit too closely. Therefore, there is always some excess debt capacity available as circumstances may arise that require the issuance of debt.

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.





The graph above indicates that coverage is projected to be relatively stable through FY 30-31. Projected coverage decreases to around 1.6 in FY 30-31 due to increased debt service requirements related to the issuance of debt to fund the capacity upgrade at the Southside Wastewater Treatment Plant. Projected coverage sharply increases in FY 35-36 due to decreased debt service requirements as much of the Authority's existing debt fully matures.



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.

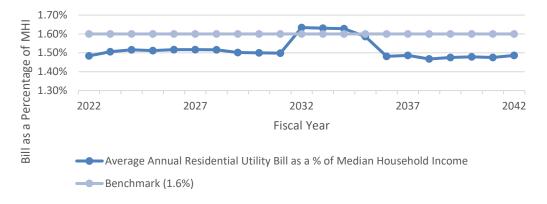
The graph on the previous page reflects CFPUA's deliberate plan to spend available fund balance on its capital program to around the \$50 million target through FY 23-24. Fund balance is projected to stay roughly flat at the \$50 million target through the remainder of the forecast horizon.

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 8,100 gallons per billing cycle with an assumed 2% increase per year in both consumption and equivalent residential units. Estimated median household income data for calendar year 2018 per the U.S. Census Bureau 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 1.6% 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 1.63% in FY 30-31 due to increased debt service requirements related to the issuance of debt to fund the capacity upgrade at the Southside Wastewater Treatment Plant and then decreases sharply in FY35-36 due to decreased debt service requirements as much of the Authority's existing debt fully matures.

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



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.

The biggest threat to remaining within these various financial benchmarks is the \$150 million capacity upgrade to the Southside Wastewater Treatment Plant, specifically the impact of this project on projected debt service coverage and the average annual residential utility bill as a percentage of median household income. Knowing that such a large project is on the horizon, management will be developing strategies to smooth out the projected impact of the project on debt service coverage and rate affordability. One strategy could be to borrow more in the years up to FY 30-31 in the form of state revolving loans. Doing so will not change the overall mix of debt and pay-as-you-go funding, but would smooth out the projected downward spike in debt service and projected upward spike in the average annual residential utility bill as a percentage of median household income in two ways. First, a gradual build-up of debt balance will result in a gradual increase to rates and reduce the amount needed to be borrowed to finance the Southside Wastewater Treatment plant capacity upgrade. Second, gradually building up the debt balance through low-interest state revolving loans will reduce overall debt service requirements through interest savings.

Costs related to the rehabilitation, replacement, acquisition, and construction of the Authority's infrastructure are generally 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. The capital budget includes projects having a total estimated cost exceeding \$100,000 that provide for the following:

- Construction or acquisition of new facilities, infrastructure, and equipment;
- Major repair, rehabilitation or replacement of existing facilities and infrastructure; or
- Upgrades to existing facilities and infrastructure to increase capacity, enhance treatment and service delivery, or mitigate the risk of loss.

Capital expenditures are those expenditures that qualify for capitalization in accordance with generally accepted accounting principles and the Authority's capitalization policies. The Authority defines capital expenditures as outlays with an initial cost in excess of \$5,000 that provide present service capacity in excess of one year. The scope of the projects included in the capital budget are not strictly aligned with the Authority's definition of capital expenditures. This means that not all expenditures included in the capital budget qualify for capitalization and some expenditures included in the operating budget may qualify for capitalization.

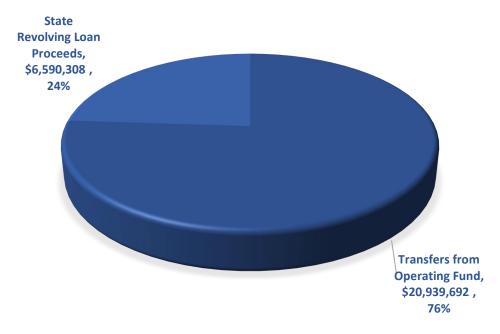
Each year the Authority develops a 10-year Capital Improvement Plan. The 10-Year Capital Improvement Plan begins with evaluating proposed projects in terms of risk (defined as the product of the consequence of failure and the likelihood of failure) and whether the projects are necessary for compliance with regulatory requirements, improve efficiency, increase capacity, or are necessary to accommodate growth. Projects are prioritized based on risk and these other criteria resulting in a draft 10-year Capital Improvement Plan. The draft plan is incorporated into the Authority's long-term financial planning model to determine whether the plan is financially feasible. Financial feasibility is assessed by determining whether the draft plan is projected to maintain target levels of debt service coverage, debt-to-capitalization ratio, rate affordability, and undesignated fund balance. The 10-year Capital Improvement Plan is adjusted, and funding strategies developed based on this analysis.

Although a 10-Year Capital Improvement Plan is developed each year, only the first year in the plan is appropriated. For FY 21-22 capital budget appropriations total \$27.5 million. A large portion, (47%) of the FY 21-22 capital budget, is focused on improving wastewater collection and conveyance. This includes \$5.7 million for the rehab and replacement of gravity sewer mains in our downtown area that are over 70 years old. In addition, \$3.35 million is programmed to construct a new pump station and \$2.05 million is programmed to upgrade Pump Station #69. Both are in the southern part of the county, where growth is outpacing current infrastructure. The pump stations are anticipated to be complete in the fall of 2022 and will affect future operating budgets. Annual operating costs for stations of the same size are around \$20,000 for electricity and maintenance cost, which could include pump repairs, electrical panel repairs and generator maintenance. The full FY 22 capital budget can be found on the Authority website: https://www.cfpua.org/654/Capital-Improvement-Plan.

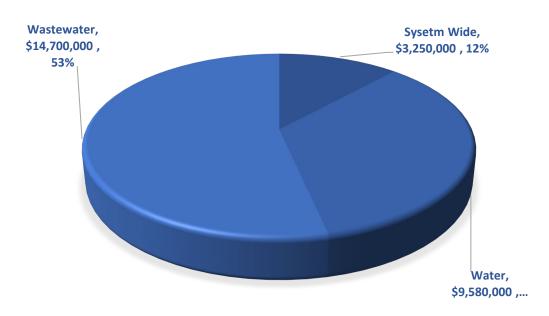
The FY 22 capital project appropriations total \$27,530,000. The pie charts on the following pages detail FY 21-22 capital project appropriations by fund, type and area and funding sources. The majority of the

FY 21-22 appropriations are for wastewater projects and focus on rehabilitation and replacement. The FY 21-22 capital budget is mainly funded by transfers from the operating fund.

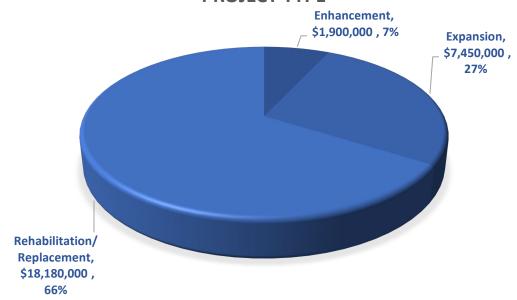
FY 21-22 CAPITAL FUNDING SOURCES



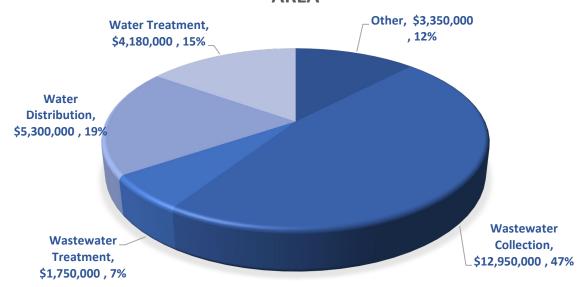
FY 21-22 CAPITAL APPOPRIATIONS BY FUND



FY 21-22 CAPITAL APPROPRIATIONS BY PROJECT TYPE

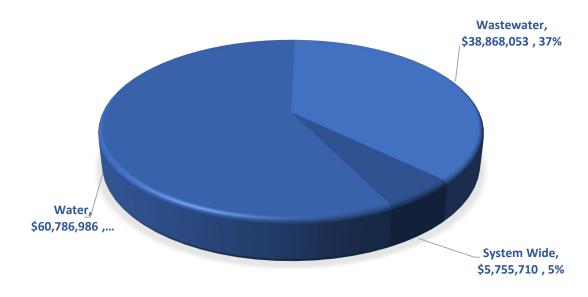


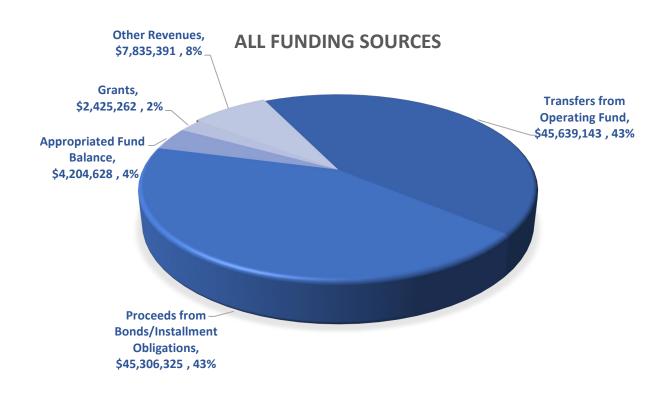
FY 21-22 CAPITAL APPROPRIATIONS BY PROJECT AREA



All capital appropriations for existing and new FY 22 appropriations total \$105,410,479. The breakdown by fund is shown below along with funding sources.

ALL CAPITAL APPROPRIATIONS BY FUND





Major nonrecurring projects include the Sweeney Water Treatment Plant Enhancements and the construction of a new raw water line. The projects were undertaken in prior budget years but will be completed this year.

The Sweeney Water Treatment Plan Enhancement project was undertaken to reduce the contaminate levels of multiple per and polyfluoroalkyl compounds that are present in the raw water source for the Sweeney Water Treatment Plant. This requires the construction of a deep bed Granular Activated Carbon (GAC) contractor process. Construction is expected to be complete by the end of FY 22. To date, \$51.1 Million has been budgeted for the overall project with \$41 million of that earmarked for construction and design of the facility. To date \$24 million has been spent with the remaining \$17 million expected to be expended during FY 22. Future operating budgets will be impacted by the cost associated with the GAC contactor exchanges. Each contactor exchange will cost approximately \$465,000. Up to two exchanges may be required per year, depending on performance. Other expenses include, \$55,000 for increased electricity costs and \$56,000 for a full-time position to manage the new treatment process. No savings are anticipated with the project and any additional revenue would be generated by a rate increase to fund the increased operating cost and the debt service.

The raw water main project consists of the construction of a new 54 in raw water pipeline to convey water to the Sweeney Water Treatment plant. The new pipeline will provide redundancy to and additional raw water capacity in the area. It is a joint project between the Authority and Brunswick County. The Authority is responsible for 36.585% of the overall project cost and Brunswick County is responsible for 63.415%. The line will be conveyed to Lower Cape Fear Water and Sewer Authority (LCFWASA) upon completion. Construction is expected to be completed by January 2022. The overall project budget was \$44 million with the Authority responsible for 36.585% of that. To date \$34 million has been expended with \$10 million expected to be expended in FY 22. After completion, the expected operating costs associated with the new line are expected to be minimal. The LCFWASA will maintain the line. Any major expenditures for repairs would result in an increase to the raw water rate charged to the Authority by LCFWASA. Also, if additional capacity is needed, the Authority would be responsible for the additional gallons purchased, which would be offset by the revenue generated from the increased demand. The FY 22 budget for raw water is \$1.3 million. If less maintenance is needed it could result in savings if the LCFWASA were to lower rates based on lower operating cost. However, this is not anticipated.

DEBT

The Authority issues debt in accordance with North Carolina General Statutes 162A and under the guidance of the Local Government Commission, a division within the North Carolina Department of State Treasurer. The Authority is authorized to issue revenue bonds and installment obligations under certain federal programs including the Clean Water Revolving Loan Program and the Drinking Water Revolving Loan Program to fund capital improvements. The Authority also carries a share of limited obligations bonds assumed from New Hanover County upon creation of the Authority.

The following table contains information on the Authority's outstanding debt obligations:

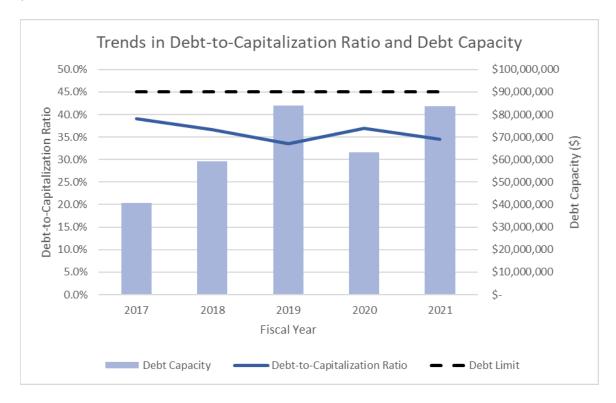
| | | | | | emaining rincipal at | |
|--|----------------------------|----------|-----------------|----|-------------------------|---|
| | Series/Issue | | | | June 30, | |
| Type of Security | Description | Orio | inal Issuance | | 2021 | Purpose of Issuance |
| Type of Security | Description | OTIE | illai issualice | | 2021 | To pay the costs of granular activated carbon treatment |
| | | | | | | upgrades at the Sweeney Water Treatment Plant; to pay for a |
| | | | | | | share cost of a new raw surface water transmission line; |
| Revenue Bonds | Series 2019A | \$ | 77.580.000 | \$ | 76.970.000 | refund all of the outstanding 2017 Bonds |
| Revenue Bonds | Series 2019B | \$ | | _ | | To refund a portion of the outstanding 2014A Bonds |
| Revenue Bonds | Series 2016 | \$ | | | | To refund all outstanding 2008 Bonds |
| | | | | | | To pay the costs of certain water and sewer system |
| | | | | | | improvements and to refund a portion of outstanding 2005 |
| Revenue Bonds | Series 2014A | \$ | 60,355,000 | \$ | 34,785,000 | |
| | | | | | | To pay the costs of certain water and sewer system |
| | | | | | | improvements and to refund a portion of outstanding 2003 |
| Revenue Bonds | Series 2011 | \$ | 44,100,000 | \$ | 1,365,000 | Bonds |
| | | | | | | To refund New Hanover County's 2003 Certificates of |
| Limited Obligation Bonds | Series 2012 | \$ | 20,540,000 | \$ | 6,750,000 | Participation |
| Clean Water State Revolving Loan | CS370923-02 | \$ | 429,000 | \$ | 278,850 | To pay for the rehabilitation of Pump Station #28 |
| Clean Water State Revolving Loan | CS370923-03 | \$ | 1,086,266 | \$ | 706,073 | To pay for the rehabilitation of sewer on 30th Street |
| | | | | | | To pay for the rehabilitation of the McCumber's Ditch sewer |
| Clean Water State Revolving Loan | CS370923-04 | \$ | 1,097,140 | \$ | 713,141 | |
| | | | | | | To pay for the rehabilitation of the Greenfield Lake sewer |
| Clean Water State Revolving Loan | CS370923-05 | \$ | 2,201,480 | \$ | 1,430,962 | |
| | | | | | | To pay for the rehabilitation of the Smith Creek Alandale |
| Clean Water State Revolving Loan | CS370923-06 | \$ | 1,913,623 | \$ | 1,243,855 | pump station |
| | | | | | | To pay for the rehabilitation of the Southside Wastewater |
| Clean Water State Revolving Loan | CS370923-08 | \$ | 6,158,625 | \$ | 4,797,738 | Treatment Plant |
| | | | | _ | | To pay for the rehabilitation and replacement of the Quail |
| Clean Water State Revolving Loan | CS370923-09 | \$ | 461,950 | Ş | 3/5,932 | Woods Pump Station #137 |
| Chara Matan Chata Barrahina I | 00270022 40 | , | 2 540 422 | , | 2.467.400 | To pay for the rehabilitation and replacement of the Pump |
| Clean Water State Revolving Loan | CS370923-10 | \$ | 3,519,432 | \$ | 3,167,489 | Station #10 Force Main |
| Clean Water State Baselsing Lags | CS370923-11 | \$ | 1 25/ 207 | ċ | 1 210 050 | To pay for the rehabilitation and replacement of the Pump Station #12 Force Main |
| Clean Water State Revolving Loan | C3370923-11 | Ş | 1,354,287 | \$ | 1,218,858 | |
| Drinking Water State Revolving Loan | H-LRX-F-10-1314B | ċ | 204,082 | ċ | 114 246 | To pay for a portion of the cost to construct an aquifer storage and recover well |
| Dilliking water state vesoising roal | 11-LNA-F-1U-1314B | Ş | 204,082 | Ş | 114,540 | To pay for a portion of the cost to construct an aquifer |
| Drinking Water State Revolving Loan (AF | ΣΡΔ H_ΔΡΡΔ_ΠΟ_121 <i>1</i> | \$ | 1,131,523 | \$ | 678 014 | storage and recover well |
| All (All All All All All All All All All | WA 11-AVVA-03-1314 | ۲ | 1,131,323 | ۲ | 0/0,914 | Storage and recover well |

DEBT

The following table lists the principal and interest requirements through maturity on the Authority's outstanding debt obligations:

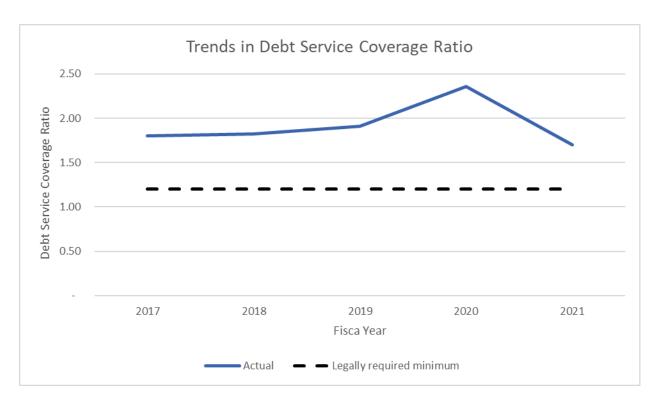
| | <u>Revenue</u> | evenue Bonds Local | | ompensation | Installment (| <u>Obligations</u> | <u>Tot</u> | <u>al</u> |
|-------------|----------------|--------------------|-----------|-------------|---------------|--------------------|-------------|------------|
| Fiscal Year | Principal | Interest | Principal | Interest | Principal | Interest | Principal | Interest |
| 2022 | 12,405,000 | 10,346,847 | 990,000 | 288,350 | 932,860 | 221,298 | 14,327,860 | 10,856,495 |
| 2023 | 12,850,000 | 9,723,908 | 980,000 | 248,950 | 932,860 | 207,135 | 14,762,860 | 10,179,993 |
| 2024 | 13,510,000 | 9,073,653 | 970,000 | 207,525 | 932,860 | 192,972 | 15,412,860 | 9,474,150 |
| 2025 | 12,740,000 | 8,458,731 | 960,000 | 164,100 | 932,860 | 178,809 | 14,632,860 | 8,801,640 |
| 2026 | 13,355,000 | 7,847,679 | 955,000 | 118,625 | 932,860 | 164,646 | 15,242,860 | 8,130,950 |
| 2027 - 2031 | 76,465,000 | 29,529,157 | 1,895,000 | 94,625 | 4,664,298 | 610,782 | 83,024,298 | 30,234,564 |
| 2032 - 2036 | 76,425,000 | 12,333,124 | - | - | 3,804,227 | 263,432 | 80,229,227 | 12,596,556 |
| 2037 - 2041 | 19,870,000 | 4,144,025 | - | - | 1,593,336 | 44,613 | 21,463,336 | 4,188,638 |
| 2042 - 2045 | 12,040,000 | 987,600 | - | - | - | - | 12,040,000 | 987,600 |
| | 249,660,000 | 92,444,724 | 6,750,000 | 1,122,175 | 14,726,158 | 1,883,686 | 271,136,158 | 95,450,585 |

Under the Authority's debt policy, debt issuances are generally limited 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 (debt-to-capitalization ratio) to exceed 45%. The debt-to capitalization ratio is currently 34.5%. This means the Authority has the capacity to issue approximately \$83.6 million in debt before reaching the 45% limitation. The following chart shows trends in the Authority's debt-to-capitalization ratio and available debt capacity over the last 5 fiscal years:



DEBT

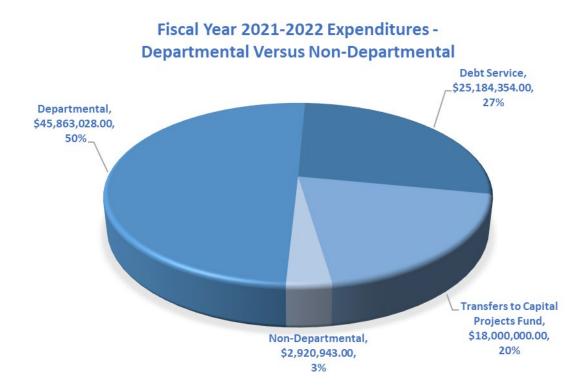
Under the rate covenant contained in the Authority's General Trust Indenture, the Authority must maintain debt service coverage ratio of at least 1.2. The Authority, however, budgets to achieve debt service coverage between 1.6 and 1.8 times. The chart below provides trends in the Authority's actual debt service coverage ratio over the past 5 fiscal years compared to the legally required minimum.



Between FY 16-17 and FY 18-19 coverage increased slightly due to a decrease in debt service requirements while net revenues remained relatively stable over the period. Coverage spiked in FY 19-20 as annual debt service requirements decreased by 7.1% and net revenue increased by 14.9%. The increase is net revenues was attributable to an increase in rate revenues related to increased billed water consumption driven by dry weather conditions. In FY 21-22, debt service coverage returned to target levels. Debt service requirements increased related to the new money component of the 2019A Bonds. In addition, net revenues also returned to historical levels as weather conditions returned to normal.

The Authority currently carries credit ratings of AA+ and Aa2 from Standard and Poor's and Moody's, respectively. The Authority does not plan to issue debt in FY 21-22.

As the chart below shows, 50% of the \$91.6 million FY 21-22 budget is controlled by the Authority's various departments including salaries and benefits and operational costs to execute the Strategic Plan. The remaining 50% 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 department such as expenditures for rent and insurance.

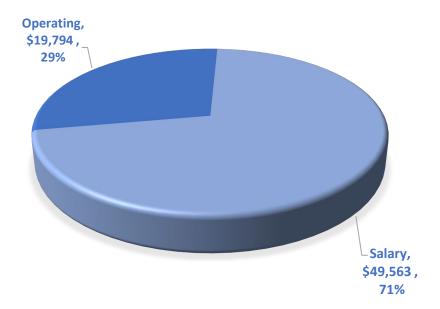


AUTHORITY BOARD

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.

Departmental Budget

The Authority Board budget for FY 21-22 is \$69,357 or .08% of the total FY 21-22 operating budget. Of the total departmental budget 71% is budgeted to pay monthly stipends for the Board's 11 members. The remaining 29% is budgeted for various expenditures including costs to broadcast Board meetings, advertise public hearings, and cell phone and tablet stipends.

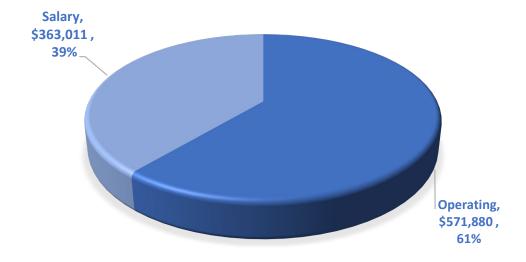


ADMINISTRATION

The Administration Department consists of the Executive Director and 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.

Departmental Budget

The Administration Department budget for FY 21-22 is \$934,891, or 1.02% of the total FY 21-22 operating budget. Of the total departmental budget, \$363,011 (or 39%) is budgeted to pay salaries and benefits for the department's 2 full-time equivalent positions. The remaining \$571,880 (or 61%) is budgeted for various expenditures including \$565,000 for legal costs including those for the contracted attorney and the Annual PFAS lawsuit with Chemours.

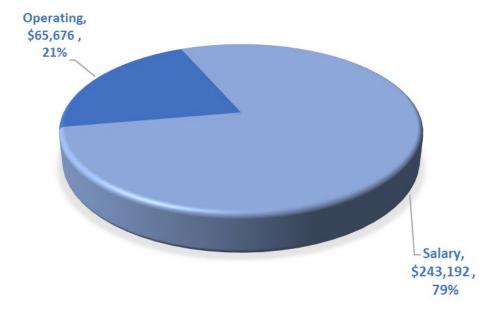


COMMUNICATIONS

The Communications Department consists of the Public Information Officer and Assistant Public Information Officer. The Public Information Officer and Assistant Public Information Officer are 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.

Departmental Budget

The Communications Department budget for FY 21-22 is \$308,868 or 0.34% of the total FY 21-22 operating budget. Salaries for the 2 full time positions make up the majority of the departmental budget. The remaining amount is budgeted for various expenditures, including \$54,000 for community media outreach.



Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|---|---|----------|---------------------------------------|----------------------------|
| Increase awareness about online customer self-service offerings. | Produce and distribute materials through Paid Community Outreach program that demonstrate our online services and the benefits they offer customers. | Annual | \$54,000 | Goal 2, Strategy 2.2 |
| Expand frequency and reach of social media messaging | Increase frequency of Facebook, Twitter, and Instagram posts. Promote direct messaging as an effective channel for customers to communicate with CFPUA. | Annual | No Impact | Goal 2, Strategy 2.4 |
| Continue paid community outreach program with local TV Stations | Increase awareness about key CFPUA initiatives, including customer education about preventing FOG-related sewer clogs. | Annual | Part of Paid Community Outreach | Goal 3, Strategy 3.4 |
| Increase awareness about key CFPUA initiatives, including customer education about preventing FOG-related sewer clogs, promoting prudent irrigation practices, help for customers struggling financially, and providing updates on major projects such as the Sweeney Treatment Enhancements Project. | Produce and distribute materials through Paid Community Outreach program that address these key topics. | Annual | Part of Paid Community Outreach | Goal 4, Strategy 4.1 |
| Keep customers and the community updated on major projects such with a focus on their effectiveness at treating for PFAS and legal efforts to recoup costs | Produce and distribute materials through Paid Community Outreach program that address these key topics. | Annual | Part of Paid Community Outreach | Goal 4, Strategy 4.2 |

| Identify and spotlight employees throughout the organization who exemplify the organization's dedication to customer service. | Feature one employee in each month's Customer Email Newsletter. | Annual | \$180.00 | Goal 4, Strategy 4.3 |
|---|---|--------|-----------|-------------------------|
| Continue Monthly Employee Email Newsletter | Originally implemented to help employees keep connected during the Covid-19 pandemic, we have continued this initiative to shine a spotlight on a couple of staff each month at various locations and in various functions in our organization. This is also a tool to share information important to all employees, including events such as benefits signups and changes to policies. | Annual | No Impact | Goal 5, Strategy 5.3 |

Performance Measures

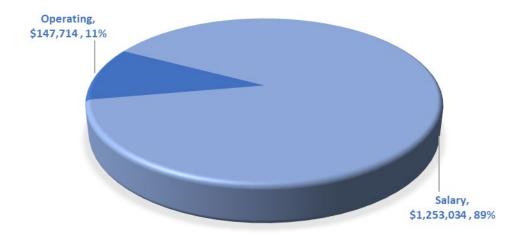
The Communication Department was created in FY 22. Therefore, there are no prior year performance measures. The Department will develop performance measures during the year.

FINANCE

The Finance Department is responsible for 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. Finance also supports 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. Finance also communicates financial information to stakeholders including customers, the Board, credit rating agencies, the development community, and governmental partners.

Departmental Budget

The Finance Department budget for FY 21-22 is \$ 1,400,748 or 1.52% of the total FY 21-22 operating budget. Finance has 12 full time positions that account for 89% of the departmental budget. The remaining 11% is budgeted for various expenditures including the cost of the annual financial audit, financial advisors/consultants, and professional development.



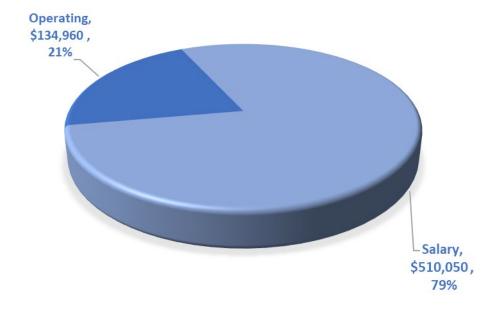
Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|--|---|--------------|---------------------------------|----------------------------|
| Explore revenue-neutral rate structure alternatives that optimize equity, affordability, and conservation. | Develop a new rate model | January 2022 | TBD | Goal 1, Strategy 1.2 |
| Develop financial policies that support the goals of CFPUA | Develop annual budgets that balance rate affordability and provide the best level of service to the community | Annual | No Impact | Goal 1, Strategy 1.2 |
| | Develop investment policies that efficiently use ratepayer funds to offset potential rate increases by maximizing investment yields | Annual | No Impact | Goal 1, Strategy 1.2 |
| | Develop Accounts Payable policies that optimize the timing of vendor payments to delay cash outflows while avoiding business interruption due to late payment | Annual | No Impact | Goal 1, Strategy 1.2 |
| Provide guidance on daily task to ensure business continuity and improve processes | Develop a finance procedures manual | June 2022 | No impact | Goal 2, Strategy 2.3 |
| Provide employees the tools to advance by setting goals and training on new tasks | Offer one on one assistance and allow staff to seek outside training | Annual | \$4,000 | Goal 5, Strategy 5.2 |
| Utilize the ERP system to develop automated financial reports and processes | Generate monthly reports more efficiently and leverage the ERP system to facilitate closing the month sooner | Annual | No impact | Goal 5, Strategy 5.4 |
| Leverage technology to improve purchasing processes | Research electronic bidding services and contract management systems | June 2022 | No impact | Goal 5, Strategy 5.4 |

HUMAN RESOURCES

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 21-22 is \$645,010 or .70% of the total FY 21-22 operating budget. The majority of the departmental budget is for salaries and benefits for the department's 4 full-time equivalent positions. The remaining amount 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.



Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|--|---|------------------|---------------------------------|-------------------------------|
| Diversify recruitment sources. | Increase recruitment sources by 30%. | December 2022 | No impact | Goal 1, Strategy 1.4 |
| Ensure compensation structure reflects the external market for CFPUA positions. | Ensure job classification grades are within 10% of external sources and that positions are classified in the appropriate grade and comp-ratio within the grade. | January 2022 | No impact | Goal 1, Strategy 1.4 |
| Utilize performance metrics to measure recruitment, diversity and retention efforts. | Reduce vacancy and turnover rates by 10%. | June 2022 | No impact | Goal 1, Strategy 1.4 |
| | Compare EEO demographics to the community annually and track year over year | June 2022 | No impact | Goal 1, Strategy 1.4 |
| | Encourage tuition assistance and incentive pay usage. | June 2022 | No impact | Goal 1, Strategy 1.4 |
| Implement technology to manage human capital | Continue researching project to consider HR/Payroll solutions. | Annual | No impact | Goal 5, Strategy 5.1 |
| Research and develop best practices. | | | No impact | Goal 5, Strategy 5.2 & 5.3 |
| Develop metrics to direct objectives related to employee development | Review appropriate metrics and set up tracking. (tenure, eligibility for retirement, T&D, etc.) | December 2022 | No impact | Goal 5, Strategy 5.2 & 5.3 |

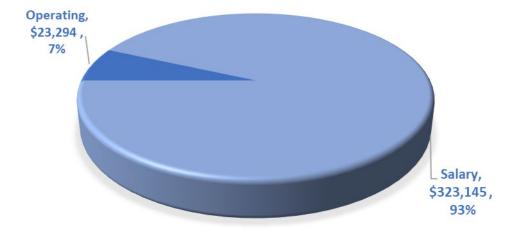
PUBLIC & ENVIRONMENTAL POLICY

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.

Departmental Budget

The Public & Environmental Policy Department budget for FY 21-22 is \$346,439, or .38% of the total FY 21-22 operating budget. Salaries for the 3 full time positions makes up the majority of the departmental budget. The remaining amount is budgeted for various expenditures including software licenses and training, printing for special educational materials, and various computer hardware.



Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|--|---|----------|---|-------------------------|
| Identify and apply for external grant funding opportunities that will reduce pressure on rates. | Apply for at least 3 grants per year | Annual | \$8,000 | Goal 1, Strategy 1.2 |
| Identify partnerships around environmental education and collaboration; build alliances with nonprofits to assist in bill affordability | Reach out to professors at UNCW, teachers at local schools; nonprofit orgs; work with County affordable housing task force; build support and awareness for CFPUA Assist | Annual | Approx. \$1000 in supplies for educational events | Goal 1, Strategy 1.3 |
| Find growth opportunities for employees; continuously improve PEP internship program; use remote work capabilities to encourage a more diverse internship program | Semiannual conversations with employees to gather feedback; create business plans for employee projects to document success; exit interviews with interns on improvement strategies; cast wide recruiting net | Annual | No impact | Goal 1, Strategy 1.4 |
| Continue to analyze bill affordability in the service area and find ways to improve customer assistance options. | Update affordability dashboard each year | Annual | No impact | Goal 2, Strategy 2.1 |
| Track CFPUA energy data over time; use drone program to conduct asset checks and identify leaks/breaks; work with stormwater programs to find areas of common interest | Maintain energy use database in Maximo and update reports for Plant staff; conduct seasonal drone missions with linear assets staff, regular calls with the airport and make a new contact at the county | Annual | No impact. | Goal 3, Strategy 3.1 |

| Monitor organizational greenhouse gas emissions; work with Energy Team to support their initiatives; set emissions reduction goals; maintain electric vehicle program | Produce annual GHG inventory; provide data support for the Energy Team's energy efficiency pilot at SSWWTP; bring goal options to Board; add new EVs to fleet using cost benefit methodology | Annual; FY 22; FY 22; FY 22 | No impact this year; no impact; no impact; Potential impact on fleet line in CIP. | Goal 3, Strategy 3.2 |
|---|--|--------------------------------|--|-------------------------|
| Create content for CFPUA presentations, tv spots, and the website; Write white papers and reports for the Board on environmental projects and initiatives | Continue youtube series on EV program and update website with new ArcStories; create annual resiliency report on CFPUA actions and goals | Annual | No impacts | Goal 3, Strategy 3.4 |
| Maintain the source water protection plan; help the organization approach policymakers at the state and federal levels on this topic | Update potential contaminant sources and the interactive map every three years; draft public comments and letters to policymakers in Raleigh, DC | every 3 years; Annual | No impacts | Goal 3, Strategy 3.5 |
| Monitor legislation at the state and federal levels that would allow for more reuse at CFPUA; work with engineering and local planners to begin community education on the topic. | Participate in webinars and other training materials from Water Reuse Association; Participate in wastewater master planning process with ENG | Annual; FY 22 | No impact | Goal 3, Strategy 3.6 |
| Work with communications dept to develop content from environmental and public policy work; ensure our own content is accessible and interesting | Regularly contribute to weekly updates and to social media needs; find new ways to design and format our reports | Annual | No impact; Approx \$1,000 in graphic design of resiliency plan template | Goal 4, Strategy 4.1 |

| Expand drone program to increase types of imagery available; encourage employees to participate in trainings and courses that increase their skills | Improve our ability to collect and use flood imagery; continue to take classes from memberships and tools we subscribe to. | Annual | \$2,000 in additional imagery capabilities and video processing software; \$5,000 in membership and educational subscriptions | Goal 5, Strategy 5.1 |
|---|---|--------|---|-------------------------|
| Continue to improve tools already implemented; Find new tools that can help communication | Fine tune CFPUA work processes that have been transferred to cloud computing software in Teams and expand general employee awareness; Find new tools to improve remote work functionality | Annual | TBD | Goal 5, Strategy 5.4 |

Performance Measures

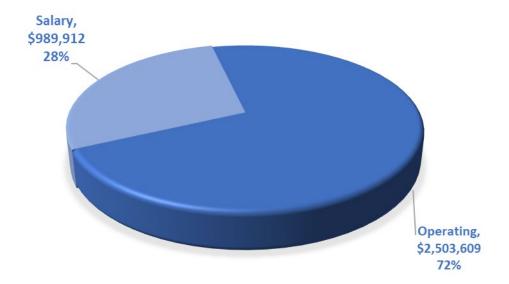
| FY 20 | FY 21 | FY 22 Target | Performance Metric | Dept Goal |
|-------|--|-------------------------------|---|---|
| N/A | Applied for 4, Approved for 3 | Anticipate achieving the goal | Approval of 50% or more of grants applied for | Identify and apply for external grant funding opportunities that will reduce pressure on rates. |
| N/A | N/A | TBD | Board approval of ghg emissions | Set ghg emissions reduction goals |

INFORMATION TECHNOLOGY

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.

Departmental Budget

The Information Technology Department budget for FY 21-22 is \$3,493,521, or 3.80% of the total FY 21-22 operating budget. The salary consists of 9 full time positions and the operating expenditures include the cost of software licenses, scheduled replacement of computers, data connection services and regular maintenance on the Authority's SCADA system.



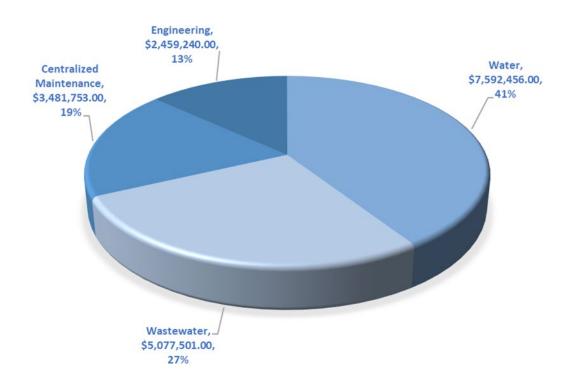
Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|--|--|--------------------------|---|----------------------------|
| Increase CFPUA's Cyber Security Posture | Continue adding technology resources to our existing monitoring application. | Annual | No Impact | Goal 5, Strategy 5.1 |
| | Upgrade Network equipment to more sophisticated hardened devices. | Annual | None, equipment purchased in previous budget | Goal 5, Strategy 5.1 |
| | Additional network segmentation which will allow for better redundancy and improve communication continuity and security across the business and ICS networks, | July 2022 | No Impact | Goal 5, Strategy 5.1 |
| | Continue adding remote devices to the existing Mobile Device Management solution in order to support security enhancements and remote wipe capability | July 2022 | None, solution was purchased in previous budget | Goal 5, Strategy 5.1 |
| | Migrate all facilities to the new access control system which replaces antiquated equipment and improves security. | July 2022 | \$193,395 | Goal 5, Strategy 5.1 |
| Improve management of technology resources to improve efficiency and IT support response time. | Continue implementing the SCADA Master Plan | July 2021 - July 2025 | 750,000 | Goal 5, Strategy 5.4 |
| Improve centralized management of technology resources to improve efficiency and IT support response time. | Expand Virtual Desktop Implementation | December 2021 | \$1,023,509 | Goal 5, Strategy 5.4 |

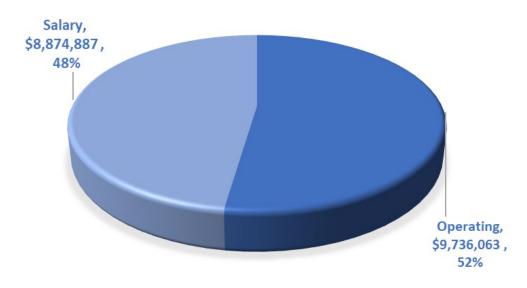
TREATMENT/ENGINEERING

The Treatment/Engineering Department is comprised of Water and Wastewater Treatment, Centralized Maintenance and Engineering. Overall, the total departmental budget for FY 21-22 is \$ 18,610,950.00 or 20% of the total FY 21-22 operating budget. The pie charts below detail the breakdown of the total departmental budget between divisions and the breakdown between salary and operating for the entire department.

Total Departmental Budget



Departmental Salary vs Operating Budget



Treatment/Engineering - Engineering

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 is comprised of three divisions: Administration, Planning and Design, and Development Services.

The Engineering Department budget for FY 21-22 is \$2,459,240, or 3% of the total FY 21-22 operating budget. Of the total departmental budget, \$2,327,590 (or 95%) is budgeted to pay salaries and benefits for the department's 22 full-time equivalent positions. The remaining \$131,650 (or 5%) is budgeted for various expenditures including the cost of updates to the Authority's construction specifications and CIP database maintenance.

Treatment/Engineering – Centralized Maintenance

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 Centralized Maintenance budget for FY 21-22 is \$3,481,753, or 3.79% of the total FY 21-22 operating budget. Of the total division budget, \$1,617,612 (or 46%) is budgeted to pay salaries and benefits for the division's 22 full-time equivalent positions. The remaining \$1,864,141 (or 54%) is budgeted for various expenditures including contracted services for fleet and equipment maintenance, landscaping, and materials costs for various plant and facilities maintenance.

Treatment/Engineering – Water Treatment

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 Water Treatment budget for FY 21-22 is \$7,592,456 or 8% of the total FY 21-22 operating budget. Of the total division budget, \$2,433,385 (or 32%) is budgeted to pay salaries and benefits for the division's 30 full-time equivalent positions. The remaining \$5,159,071 (or 68%) is budgeted for various expenditures including electricity and chemicals used in the treatment process, the purchase of raw water, maintenance and instrumentation contracts, plant maintenance, wellsite maintenance and equipment replacement.

Treatment/Engineering – Wastewater Treatment

The Wastewater Treatment Division manages the operation and maintenance of the Authority's two wastewater treatment plants (WWTPs): Northside (NSWWTP) and Southside (SSWWTP). 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.

The Wastewater Treatment budget for FY 21-22 is \$5,077,501 or 6% of the total FY 21-22 operating budget. Of the total division budget, \$2,496,300 (or 49%) is budgeted to pay salaries and benefits for the division's 33 full-time equivalent positions. The remaining \$2,581,201 (or 51%) is budgeted for various expenditures including electricity and chemicals used in the treatment process, the disposal of wastewater residuals, plant maintenance, and equipment replacement.

Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21- 22 Budget | CFPUA Strategic Goal |
|--|---|---|---|----------------------------|
| Incorporate the Sweeney GAC Enhancement project into daily operation to remove PFAS | Develop operational and GAC replacement plans for the new GAC treatment process | Complete by June 2022 | \$40,000 for 0.5 FTE planner scheduler | Goal 1, Strategy 1.1 |
| Update 10-year Capital Improvements Plan Annually | Maintain financial and Infrastructure asset data to develop business case evaluations and facilitate incremental improvements to risk-based Capital Improvements Plan annually. | Draft CIP - January 2022 Final CIP - June 2022 | \$10,000 | Goal 1, Strategy 1.2 |
| Develop Beneficial interlocal Agreements with the City and New Hanover County, where appropriate | Evaluate opportunities and draft interlocal Agreements that benefit our customers and community by working with local government agencies. | Annual | Capital Budget | Goal 1, Strategy 1.3 |
| Review and Update CFPUA Construction Standards | Review and update the CFPUA Construction Standards | January 2022 | \$10,000 | Goal 1, Strategy 1.5 |
| Development Advisory Committee Coordination | Continuously improve exchange of information and stakeholder relationships with the Development Community through Development Advisory Committee meetings. | Meet as needed with the Committee throughout the year | No impact | Goal 2, Strategy 2.1 |
| Promote electronic submittals and review of development plans | Perform electronic reviews of development plans whenever possible | Annual | No impact | Goal 2, Strategy 2.2 |
| Improve Online tools for Master Planning and Capacity Management Capacity Management Develop, implement and measure initiatives that improve the due diligence master planning response and online tools available to customers. | | Complete by June 2022 | No impact | Goal 2, Strategy 2.2 |
| Provide online map that Dev Customers can use to determine status of plan review and details of previously reviewed projects. | Develop, implement and deploy online GIS map with plan review data available to customers in real time. | Complete by December 2021. | No impact | Goal 2, Strategy 2.4 |

| | 1 | ı | 1 | |
|---|---|--------------------------|-------------------------------------|-------------------------|
| Update 30-year Sewer Master Plan | Evaluate 30-year growth projections and update Authority's 30-year sewer master plans. The water master plan was updated in 2019. | Complete by June 2022 | \$100,000 FY22 capital | Goal 3, Strategy 3.1 |
| Effectively maintain water and wastewater treatment plant equipment | Effectively and timely maintain water and wastewater treatment plant equipment to support compliance with Federal and State wastewater regulations, standards, and permits. | Annual | Centralize Maintenance Budget | Goal 3, Strategy 3.1 |
| Implement recommendations from the FY2021 Non-Revenue Water Analysis | Conduct annual calibration testing of water supply meters at the treatment plants and production wells; Perform annual audit utilizing the AWWA Water Audit Software | Complete by June 2022 | \$27,000 | Goal 3, Strategy 3.1 |
| Monitor and review energy consumption at treatment plants and well sites | treatment historical trends. Investigate Annual | | No impact | Goal 3, Strategy 3.2 |
| Comply with Federal and State drinking water treatment regulations, standards, and permits | Effectively manage the operation of CFPUA's drinking water treatment plants to comply with Federal and State drinking water regulations, standards, and permits. | Annual | Drinking Water Budget | Goal 3, Strategy 3.3 |
| Implement corrosion control chemicals in the Monterey Implement the Heights groundwater system | | December 2021 | \$150,000 | Goal 3, Strategy 3.3 |
| Comply with Federal and State wastewater treatment regulations, standards, and permits | Federal and stewater regulations, Effectively manage the operation of CFPUA's wastewater treatment plants to comply with Federal and State drinking water. | | Wastewater Budget | Goal 3, Strategy 3.3 |

| Effectively manage copper concentrations in the Southside Wastewater Treatment Plant effluent | Develop and conduct a pilot test for chemical addition to reduce copper concentrations | Complete pilot testing in the summer of 2022 | \$100,000 | Goal 3, Strategy 3.3 |
|--|---|--|-----------|-------------------------|
| Evaluate Opportunities for Potable Reuse Annually | Evaluate and report changes to North Carolina Law and national trends regarding Potable Reuse to the Long Range Planning Committee. | Annual | \$5,000 | Goal 3, Strategy 3.6 |
| Engage technical workforce to develop data analytics skills and tools that support customers and utility operations. Inspire workforce toward implementing a capacity tracking system that continually updates and is easily viewable. | Access data in GIS, Maximo, Umax and other sources to populate a reliable tool easily accessible to staff that continually tracks sewer capacity optimizing automatic updates where possible. | Beta version June 2022. | No impact | Goal 5, Strategy 5.1 |
| Improve Employee Effectiveness through Training | Provide employees access to training that improves customer service, safety, professional competency, and appropriate use of technology. | Annual | \$35,000 | Goal 5, Strategy 5.2 |
| Develop and reinforce employee skills through Job specific training and certifications | Further reinforce a culture of employee pride and internal advancement throughout vital operational and maintenance staff positions as budgeted. | Annual | No impact | Goal 5, Strategy 5.2 |
| Improve Asset, Risk and GIS Data Quality | Improve data quality related to asset management, risk and geographical location of infrastructure assets. | Annual | No impact | Goal 5, Strategy 5.4 |

Performance Measures

| FY 20 | FY 21 | FY 22 Target | Performance Metric | Dept Goal |
|-------------------|-------------|------------------|---|---|
| 99% | 92% | 90% | Number of development plans reviewed within 20 business days | Promote electronic submittals and review of development plans/Improve Employee Effectiveness through Training |
| 100% | 100% | 90% | Number of building permits reviewed within 100 business days | Promote electronic submittals and review of development plans/Improve Employee Effectiveness through Training |
| 100% | 100% | 90% | Number of inspections reviewed within 10 business days | Improve Employee Effectiveness through Training |
| 100% | 100% | 90% | Number of RFIs processed within 5 business days | Improve Employee Effectiveness through Training |
| 100% | 100% | 90% | Total number of FTSE's completed for new sewer permits within 20 days | Improve Employee Effectiveness through Training |
| New Goal FY 21 | 20,127 | Tracking Only | Total number of feet of sewer main lined (tracking only) | CFPUA Goal: Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. |
| 100% | 100% | 90% | Number of as-built sheets entered into GIS within 30 business days after received | Improve Online tools for Master Planning and Capacity Management |
| 94% | 94% | 90% | Number of master plan requests completed within 5 business days | Improve Online tools for Master Planning and Capacity Management |
| 88 | 41 | Tracking Only | Total number of manholes rehabilitated | CFPUA Goal: Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. |
| \$1,246,429 | \$1,149,673 | Tracking Only | Cumulative \$-value of asset management projects awarded/encumbered | Improve Asset, Risk and GIS Data Quality |
| \$2,425,000 | \$869,782 | Tracking Only | Cumulative \$-value of asset management projects completed | Improve Asset, Risk and GIS Data Quality |

| New Goal FY 21 | 17.12 hrs | 27 hrs | Maintain on average more than 27 hours of training per employee per year | Develop and reinforce employee skills through Job specific training and certifications |
|-------------------|--|-------------------|--|---|
| New Goal FY 21 | FY 21 Goal 18,650,000 KWH | 18,900,000 KWH | Maintain annual electrical energy usage (KWH) at or below the goal | Monitor and review energy consumption at treatment plants and well sites |
| New Goal FY 21 | FY 21 Goal 4,028MG FY 21 Actual 4,058 MG | 4,050 MG | Cumulative raw water purchased within the budgeted amount | CFPUA Goal: Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. |
| New Goal FY 21 | 4.75% | 10% | Percent of total raw water volume returned to plant. Allowed up to 10%. | CFPUA Goal: Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. |
| New Goal FY 21 | 100% | Tracking Only | Percent availability of emergency well water by water system (7.6 MGD Total) | CFPUA Goal: Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. |
| New Goal FY 21 | 100% | 100% | Comply with all State and Federal drinking water standards | Comply with Federal and State drinking water treatment regulations, standards, and permits |
| New Goal FY 21 | 100% | 100% | Comply with all NPDES permit requirements | Comply with Federal and State drinking water treatment regulations, standards, and permits |
| New Goal FY 21 | FY 21 Goal 10,800,000 KWH | 11,200,00 KWH | Maintain annual electrical energy usage (KWH) at or below the goal Wastewater | Monitor and review energy consumption at treatment plants and well sites |
| New Goal FY 21 | 100% | 100% | Comply with all NPDES permit requirements | Comply with Federal and State wastewater treatment regulations, standards, and permits |
| New Goal FY 21 | 17.70% | 18% | Produce an average percent cake solids at or above the goal | Comply with Federal and State wastewater treatment regulations, standards, and permits |
| New Goal FY 21 | FY 21 Goal 1,245,00 FY Actual 1,190,596 | \$1,250,000 | Manage hauling and disposal costs within the targeted budget | Comply with Federal and State wastewater treatment regulations, standards, and permits |
| New Goal FY 21 | 2.08 | Tracking Only | Target a _:1 total annual ratio of PM:CM for overall lower life cycle costs | Effectively maintain water and wastewater treatment plant equipment |

LINEAR ASSETS & PROJECT MANAGEMENT

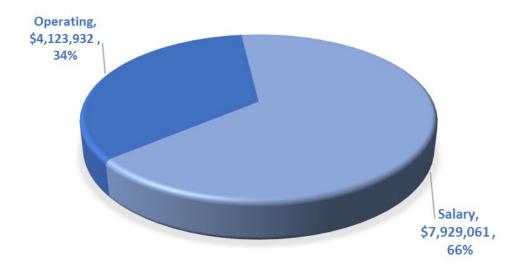
Departmental Budget

The Linear Assets and Project Management Department is comprised of Administration, Project Management, Distribution and Collections. Overall, the total departmental budget for FY 21-22 is \$12,052,993 or 13% of the total FY 21-22 operating budget. The pie charts below detail the breakdown of the total departmental budget between divisions and the breakdown between salary and operating for the entire department.

Total Departmental Budget



Departmental Salary vs Operating Budget



Linear Assets & Project Management- Administration

The Administration Division is responsible for overseeing the project management, distribution and collections divisions and providing administrative support.

The Administration budget for FY 21-22 is \$ 575,239, or .63% of the total FY 21-22 operating budget. Of the total departmental budget, \$563,985 (or 98%) is budgeted to pay salaries and benefits for the department's 4 full-time equivalent positions. The remaining \$11,254 (or 2%) is budgeted for various expenditures including cell phone stipends, dues and subscriptions, and office supplies.

Linear Assets & Project Management – Project Management

The Project Management Division is responsible for overseeing numerous capital improvement projects. Staff assist with programming long-term CIP budgets, oversees planning and design work, and manage construction phase activities. The primary role of the Project Management Division is executing the Capital Improvement Program.

The Project Management budget for FY 21-22 is \$661,980 or .72% of the total FY 21-22 operating budget. Of the total departmental budget, \$647,252 (or 98%) is budgeted to pay salaries and benefits for the department's 6 full-time equivalent positions. The remaining \$14,728 (or 2%) is budgeted for various expenditures including cell phone stipends, dues and subscriptions, training, and office supplies.

Linear Assets & Project Management – Distribution

The Distribution Division repairs breaks to water and sewer lines, performs locate services, and ensures water quality through regular line flushing.

The Distribution budget for FY 21-22 is \$3,787,132 or 4% of the total FY 21-22 operating budget. Of the total division budget, \$2,765,112 (or 73%) is budgeted to pay salaries and benefits for the division's 37 full-time equivalent positions. The remaining \$1,022,020 (or 27%) is budgeted for various expenditures including contracted services for asphalt and concrete repair, fuel for service vehicles, and construction materials for water and sewer repairs.

Linear Assets & Project Management – Collections

The Collections Division maintains the collection systems through regular inspection and cleaning of gravity lines, maintains outfalls, and operates and maintains 150 pump stations. These duties help reduce the frequency and volume of sanitary sewer overflows (SSOs).

Collections Divisions budget for FY 21-22 is \$7,028,642, or 8% of the total FY 21-22 operating budget. Of the total division budget, \$3,952,712 (or 56%) is budgeted to pay salaries and benefits for the division's 57 full-time equivalent positions. The remaining \$3,075,930 (or 44%) 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 Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|---|--|--------------------------------|------------------------------|-------------------------|
| Effectively minimize odor and corrosion control in collection system. | Respond to odor complaints in a timely manner | Annual | No impact | Goal 1, Strategy 1.1 |
| | Maintain contracted odor and corrosion prevention program. | evention Annual \$1,175,000.00 | | Goal 1, Strategy 1.1 |
| | Track location and frequency of odor complaints to identify systematic issues. | Annual | No impact | Goal 1, Strategy 1.1 |

| Program scheduled work to minimize public impacts. | Coordinate with City, County, and DOT to program scheduled work activities. | Annual | No impact | Goal 1, Strategy 1.3 |
|--|---|--------|--|-------------------------|
| Execute Capital Projects in most effective manner. | Consider projects implementation using traditional design-bid-build or the design-build procurement based on project complexity, cost and schedule. | Annual | No impact | Goal 2, Strategy 2.3 |
| Reduce the number and volume of sanitary sewer overflows. | Conduct and track routine collection systems asset inspections. | Annual | No impact | Goal 3, Strategy 3.1 |
| | Conduct easement maintenance activities to provide for access to infrastructure. | Annual | \$760,000.00 | Goal 3, Strategy 3.1 |
| | Conduct routine distribution system flushing to ensure water quality in the distribution system. | Annual | \$50,000.00 | Goal 3, Strategy 3.1 |
| | Respond to and address water main breaks in a timely manner. | Annual | Based on size and quantity of breaks | Goal 3, Strategy 3.1 |
| Consider safety as paramount. | Conduct routine safety training with work units. | Annual | \$10,000.00 | Goal 3, Strategy 3.1 |
| Protect public infrastructure | Continue to maintain the utility location program | Annual | \$444,000.00 | Goal 3, Strategy 3.5 |
| Utilize enterprise-wide asset management system for inventory and production tracking to promote informed decisions. | Track inspection and work activities using IBM-Maximo Computerized Maintenance Management System (CMMS) | Annual | \$100,000.00 | Goal 5, Strategy 5.4 |

Performance Measures

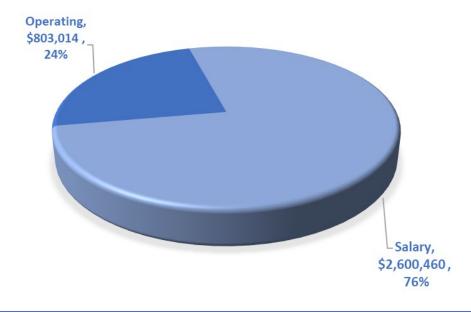
| FY 20 | FY 21 | FY 22 TARGET | Performance Metric | Dept Goal |
|-------|-------|-----------------|---|---|
| 0 | 0 | 2 | Expedite one project using an alternative project delivery method per year. | Execute Capital Projects in most effective manner. |
| 25.5 | 25.5 | 25.5 | 12-month rolling number of miles of gravity sewer mains CCTV'd. | Reduce the number and volume of sanitary sewer overflows. |
| 87 | 87 | 87 | 12-month rolling number of miles of gravity mains cleaned. | Reduce the number and volume of sanitary sewer overflows. |
| 18.75 | 18.75 | 18.75 | 12-month rolling number of miles of outfall easements cleared. | Reduce the number and volume of sanitary sewer overflows. |
| 100% | 100% | 100% | Number of weekly pump station inspections completed as percentage of total scheduled inspections. | Reduce the number and volume of sanitary sewer overflows. |
| <10% | <10% | <10% | 12-month rolling percentage of routine distribution sampling events where additional corrective flushing is required. | Reduce the number and volume of sanitary sewer overflows. |
| ≤ 3 | ≤ 3 | ≤ 3 | 12-month rolling number of complaints per thousand customer accounts. | Reduce the number and volume of sanitary sewer overflows. |
| <30 | <30 | <30 | Average time to complete locate work orders per month (in minutes). | Protect public infrastructure. |

ENVIRONMENTAL MANAGEMENT/SAFETY

The Environmental and Safety Management Department supports the core mission of the Authority through operational and administrative activities. 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 and Safety 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. 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. 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 and identify opportunities for improvement.

Departmental Budget

The Environmental Management/Safety Department budget for FY 21-22 is \$3,403,474 or 4% of the total FY 21-22 operating budget. Much of the departmental budget is made up of salaries and benefits for the department's 30.75 full-time equivalent positions. The remaining 24% 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.



Fiscal Year 2021-2022 Budget

Cape Fear Public Utility Authority

Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|--|---|--------------|---------------------------------|----------------------------|
| Provide support and guidance across functional areas to reduce energy | across energy management system implementation | | No impact | Goal 3, Strategy 3.2 |
| | Using energy management principles, identify opportunities for improved process energy tracking | January 2022 | No impact | Goal 3, Strategy 3.2 |
| | Evaluate and implement programs/processes for energy reductions | FY 2022 | No impact | Goal 3, Strategy 3.2 |
| | Track / report energy usage per million gallons treated in areas of focus, where possible, and overall | Annual | No impact | Goal 3, Strategy 3.2 |
| | Determine appropriate target reduction | July 2022 | No impact | Goal 3, Strategy 3.2 |
| Ensure all testing on water and wastewater is performed and reported accurately and timely | Maintain up to date testing schedules and open communication with operations on changing needs and data results/trends | Annual | No impact | Goal 3, Strategy 3.3 |
| Improve Compliance of all Food Service establishments FOG requirements | Update the FOG commercials | April 2022 | \$10,000 | Goal 3, Strategy 3.3 |
| | Ensure all FSEs are inspected and educated on requirements | Annual | No impact | Goal 3, Strategy 3.3 |
| Improve cross connection compliance rate | Identify gap areas within the system; provide communication and timelines to comply with enforcement to follow if not brought into compliance | July 2022 | No impact | Goal 3, Strategy 3.3 |

| | Utilize UMAX to improve the efficiency, enforcement, and compliance of Cross | Annual | No impact | Goal 3, Strategy 3.3 |
|---|---|--------|------------|-------------------------|
| Continue and enhance community education around current programming, environmental stewardship, and CFPUA's role in protecting the environment. | Continue to participate in community events such as river fest, earth day, and look for other opportunities to participate and promote CFPUAs role in the community | Annual | \$1,000.00 | Goal 3, Strategy 3.4 |
| Participate in regional water quality centric environmental groups | Maintain active memberships in Cape Fear River Watch | Annual | \$1,000 | Goal 3, Strategy 3.5 |
| | Remain active in water quality groups such as the NHC water quality round table and Lower Cape Fear River Program | Annual | No impact | Goal 3, Strategy 3.5 |
| | Provide cross agency resource support of regional water quality improvement programs where CFPUA resources provide enhancement of data and resource protection | Annual | No impact | Goal 3, Strategy 3.5 |
| Ensure all testing is conducted to maintain the Reclaimed Water permit | Maintain testing schedules and training of staff on requirements | Annual | No impact | Goal 3, Strategy 3.6 |
| Provide growth and development to recruit and retain a high quality work force | Provide opportunities for cross training and growth that provide skills and knowledge to move lab staff to the next levels of the lab step plan | Annual | No impact | Goal 5, Strategy 5.2 |
| | Evaluate opportunities to expand the step plan to other areas of the department such as community compliance | FY 22 | No impact | Goal 5, Strategy 5.2 |

| Expand and promote the Environmental Management System, Energy Management System, and Safety Management System as a overall management system to drive continual improvement | Increase training of all staff on the programs and benefits | Annual | No impact | Goal 5, Strategy 5.3 |
|--|---|--------------|-----------|-------------------------|
| | Increase employee engagement in the process through empowerment of staff to bring ideas for ways to improve efficiencies and process improvement - Management Review processes and CPAR | Annual | No impact | Goal 5, Strategy 5.3 |
| Use technology to improve data management | Evaluate, purchase and implement a data management system to improve document control, Corrective actions, root cause, and training for next FY | FY 2022 | No impact | Goal 5, Strategy 5.4 |
| | Obtain training in resources available such as Power BI and Sharepoint to improve performance tracking and reporting | January 2022 | No impact | Goal 5, Strategy 5.4 |
| | Evaluate and budget for Laboratory Information management system | Spring 2022 | No impact | Goal 5, Strategy 5.4 |

Performance Measures

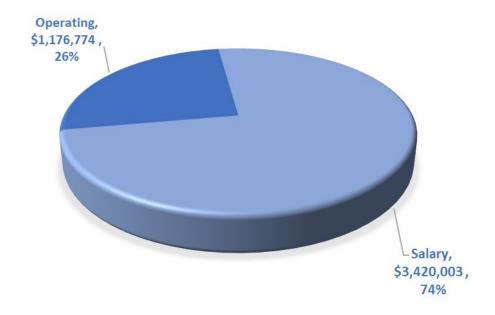
| FY 20 | FY 21 | FY 22 TARGET | Performance Metric | Dept Goal |
|---------|---------|-----------------------------------|--|---|
| 78.90% | 75.40% | 80% | Cross Connection Control | Improve cross connection compliance rate |
| 99.40% | 99.50% | 100% | Food Service Establishment Compliance | Improve Compliance of all Food Service establishments FOG requirements |
| 263 | 297 | Dependent on outside forces | Lab - Tests/Analyst/Month | Ensure all testing on water and wastewater is performed and reported accurately and timely |
| \$38.67 | \$34.34 | Dependent on outside forces | Lab - Costs/Test/Month | Ensure all testing on water and wastewater is performed and reported accurately and timely |
| 100% | 99.20% | 99% | Safety - % training completed | CFPUA Goal: Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. |
| 7.4 | 8.12 | 8 | Safety Training hours/employee | CFPUA Goal: Consistently maintain and operate the utility, and all its human and physical assets, in a manner that optimizes the care and use of water and other natural resources. |

CUSTOMER SERVICE

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.

Departmental Budget

The Customer Service Department budget for FY 21-22 is \$4,596,777, or 5% of the total FY 21-22 operating budget. The department has 54 full time equivalent positions making up 74% of the overall budget. The remaining 26% 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.



Departmental Goals

| Dept Goal(s) | Objectives | Timeline | Impact on FY 21-22 Budget | CFPUA Strategic Goal |
|---|---|--------------------|--|----------------------------|
| Move from bi-monthly billing to monthly billing. | Complete billing route resequencing to align with Monthly Billing and use this data to set up billing structure in the ERP system | 6 months | \$200,000 | Goal 2, Strategy 2.1 |
| | Communicate the change to customers | 6 months | No Impact | Goal 2, Strategy 2.1 |
| Respond to customer needs in a timely manner | Be responsive to customer work orders and remain on schedule for meter reads | Annual | Meter Service Division Budget | Goal 2, Strategy 2.1 |
| Offer additional on-line services and payment options. | research unassisted options for customers to utilize for convenience and immediate results. | 6 mths; 12 mths | No impact | Goal 2, Strategy 2.2 |
| Review customer facing solutions (i.e., application and form submittal) | Find more feasible and customer friendly methods to receive and complete to speed up customer response time. | 12 months | No impact | Goal 2, Strategy 2.3 |

Performance Measures

| FY 20 | FY 21 | FY 22 | Performance Metric | Dept Goal |
|----------|----------|---------|---|--|
| 94% | 95% | 98% | Percentage of meters read on time | Respond to customer needs in a timely manner |
| 21 days | 10 days | 7 days | Minimize the time to complete meter service work orders | Respond to customer needs in a timely manner |
| 6:11 | 6:05 | 6:00 | Average call length | Review customer facing solutions |
| 2 months | 6 months | 1 month | Process leak adjustments timely | Respond to customer needs in a timely manner |

ACRONYMS

| TERM | STANDS FOR |
|--------|---|
| AMR | Automatic Meter Reading |
| APWA | American Public Works Association |
| ARRA | American Recovery and |
| | 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 |
| СМОМ | Capacity Management, Operations |
| | & Maintenance |
| COD | Chemical Oxygen Demand |
| COPS | Certificates of Participation |
| COW | City of Wilmington |
| C-PAR | Corrective/Preventative Action |
| CIAIDA | Report |
| CWSDE | Clean Water Management |
| CWSRF | Clean Water State Revolving Funds 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 |

| 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 |
| 002 | 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 |
| HMI | 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 |

ACRONYMS

| TERM | STANDS FOR |
|--------|-----------------------------------|
| NACWA | National Association of Clean |
| | Water Agencies |
| NCDENR | North Carolina Department of |
| | Environment & Natural Resources |
| NCDWQ | North Carolina Division of Water |
| | Quality |
| NCRWA | North Carolina Rural Water |
| | Association |
| NEI | Northeast Interceptor |
| NHC | New Hanover County |
| NIMS | National Incident Management |
| | System |
| NOAA | National Oceanic and Atmospheric |
| | 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 |
| PFAS | Polyfluoroalkyl Substances |
| pH | Potential of Hydrogen |
| POSM | Pipeline Observation System |
| | Management |
| POTW | Public Owned Treatment Works |
| PPCP | Pharmaceuticals and Personal Care |
| 221 | 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 |
| CDC | Acquisition |
| SDC | System Development Charge |
| SIU | Significant Industrial User |
| SKN | Soluble Kjeldahl Nitrogen |
| SNC | Significant Non-Compliant |

| TERM | STANDS FOR |
|-------|---------------------------------|
| SOI | Standard Operating Instructions |
| SOP | Standard Operating Procedures |
| 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 |

| 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 |
| Accidal Basis | are incurred as opposed to when case is received or spent. |
| Adopted Budget | The budget document formally approved by the Authority Board. This |
| Adopted Badget | 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 |
| 7 iiii daii 2 ca | year for the purpose of preparing an annual budget. |
| Appropriation | A legal authorization to incur obligations and to make expenditures for |
| Appropriation | specific purposes. |
| Aquifer | A wet underground layer of water-bearing permeable rock or |
| Aquilei | 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- |
| Asset Management | effectively. |
| Audit | |
| 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 |
| Authorized Positions | accounting practices. Employee positions that are authorized in the adopted budget to be filled |
| Authorized Positions | during the year. |
| Backflow | A term in plumbing for an unwanted flow of water in the reverse direction. |
| Backilow | 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 | A device asea to protect water supplies from containination or pollution. |
| Balance Sheet | A formal statement of assets, liabilities and fund balance as of a specific |
| balance sneet | date. |
| Balanced Budget | Refers to a budget in which revenues are equal to expenditures. Thus, |
| Balanceu Buuget | neither a budget deficit nor a budget surplus exists. |
| Benchmarking | The process of comparing one's business processes and performance |
| benchinarking | metrics to industry bests and/or best practices from other industries; often |
| | treated as a continuous process in which organizations continually seek to |
| | improve their practices. |
| Collateral | Property acceptable as a security for a loan or other obligation; guaranteed |
| Collateral | |
| Collatoriza | 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 |
|--------------------------|---|
| Computer Maintenance | A CMMS software package maintains a computer database of information. |
| Contingency | A budgetary reserve set aside for emergencies or unforeseen expenditures |
| 55.11.1.85.1.57 | not otherwise budgeted. |
| Corporate Governance | Processes, customers, policies, laws and institutions affecting the way a |
| corporate covernance | corporation is directed, administered or controlled. |
| Debt Coverage Ratio | The ratio of cash available for debt servicing to interest, principal and lease |
| Dest soverage natio | 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 |
| Environmental Protection | 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 |
| Agency (LFA) | regulations based on laws passed by Congress. |
| Expenditure | The payment of funds against appropriations that reduce cash balance; are |
| <u> </u> | 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. |
| | Ŭ |
| | |
| | |
| | |

| WORD/CONCEPT | DEFINITION |
|-----------------------|---|
| Fiscal Year | A 12-month period designated as the operating year for accounting and |
| risear rear | budgeting purposes in an organization. |
| Fixed Assets | Assets of long-term character that are intended to continue to be held or |
| | used; includes land, buildings, machinery, furniture and other equipment. |
| Full time Equivalent | A position converted to the decimal equivalent of a full-time position . |
| Fund Accounting | System used by non-profit organizations, particularly governments. |
| Fund Balance | Difference between assets and liabilities reported in a governmental fund |
| | on the modified accrual basis of accounting. |
| Generally Accepted | Uniform minimum standards for financial accounting and recording, |
| Accounting Principles | encompassing the conventions, rules and procedures that define accepted |
| (GAAP) | accounting principles. |
| Goal | A statement of broad direction, purpose or intent; general and timeless. |
| Government Accounting | The accepted standard setting body for establishing accounting and |
| Standards Board | financial reporting principles. |
| Ground Water | Water located beneath the ground surface in soil pore spaces and in the |
| | fractures of rock formations. |
| Infrastructure | 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. |
| Interest | Cost of using money. |
| Interest Earnings | Interest earned on cash held in interest bearing deposits and accounts. |
| National Incident | An emergency management doctrine used nationwide to coordinate |
| Management System | emergency preparedness and incident management and response among |
| (NIMS) | the public and private sectors. |
| National Pollutant | Controls water pollution by regulating point sources that discharge |
| Discharge Elimination | pollutants into waters of the United States. |
| System (NPDES) | |
| Non-Departmental | Items of expenditure essential to the operation of the Authority that do not |
| Accounts | fall within the function of any department. |
| Operating Budget | 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. |
| Operating Expenses | The cost for personnel, materials and equipment required for a department |
| Operating Expenses | to function. |
| Operating Revenue | Funds received to pay for on-going operations. It includes rates and fees; |
| | used to pay for day-to-day services. |
| Ordinance | A law made by a municipality or other local authority. |
| Outfall | 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 | <u>DEFINITION</u> |
|--|--|
| 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 |
| C: : : : : : : : : : : : : : : : : : : | 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 |
| Stratagia Visian | 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; |
| Sarrace Water | it is related to water collecting as groundwater or atmospheric water. |
| Sustainability | The long-term maintenance of responsibility, which has environmental, |
| Sustamusmey | 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. |
| | , , , |



Budget Ordinance

Ordinance Making Appropriations For the Fiscal Year Beginning July 1, 2021

LEGISLATIVE INTENT/PURPOSE:

Appropriations and estimated revenues for the Fiscal Year Beginning July 1, 2021.

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 | |
|---------------------------------------|--------------|
| Salaries & Benefits | \$27,056,318 |
| Operating | 21,727,653 |
| Debt Service | 25,184,354 |
| Transfers to Capital Projects Funds | 18,000,000 |
| Total Appropriations | \$91,968,325 |
| | |
| Revenues | |
| Water/Wastewater Charges - Volumetric | \$47,348,560 |
| Water/Wastewater Charges - Fixed | 31,387,935 |
| System Development Charges | 7,095,000 |
| Investment Earnings | 200,000 |
| Other Charges for Service | 4,657,000 |
| Appropriated Fund Balance | 1,279,830 |
| Total Revenues | \$91,968,325 |

SECTION II: That appropriations herein authorized shall have the amount of outstanding purchase orders as of June 30, 2021 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 | \$3,350,000 |
| Water Capital Improvement Projects | 9,480,000 |
| Wastewater Capital Improvement Projects | 14,700,000 |
| Total Appropriations | \$27,530,000 |
| | |
| | |
| Revenues | |
| Revenues Transfers from Operating Fund | \$20,939,692 |
| | \$20,939,692 6,590,308 |

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.

Wesley P. Corder, Chairman

Adopted at a regular meeting
On June 9, 2021

ATTEST:

Donna S. Pope, Clerk to the Board

| | | | Rates and Fees Effective 7/1/20 | Rates and Fees Effective 7/1/21 | Ordinance Reference |
|----|--|----------|---------------------------------|------------------------------------|--|
| 1 | WATER RATES & FEES | | | | |
| | 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). | | | | |
| A. | Fixed Meter Charge by Meter Size* | | Bi-Monthly | Bi-Monthly | |
| | 5/8" | | \$ 27.56 | \$ 27.56 | Sec. 1-97 (1) |
| | 1" (Single-Family Residential with fire sprinkler system) | | \$ 27.56 | \$ 27.56 | Sec. 1-97 (1) |
| | 1" 1 1/2" | | \$ 68.90 \$ 137.80 | \$ 68.90 \$ 137.80 | Sec. 1-97 (1) Sec. 1-97 (1) |
| | 2" | | \$ 220.48 | \$ 220.48 | Sec. 1-97 (1) |
| | 3" | | \$ 413.40 | \$ 413.40 | Sec. 1-97 (1) |
| | 4" | | \$ 689.00 | \$ 689.00 | Sec. 1-97 (1) |
| | 6" | | \$ 1,378.00 | \$ 1,378.00 | Sec. 1-97 (1) |
| | 8" | | \$ 2,204.80 | \$ 2,204.80 | Sec. 1-97 (1) |
| | 10" | | \$ 3,445.00 | \$ 3,445.00 | Sec. 1-97 (1) |
| | 12" * Fixed Mater Charge is not applied to Irrigation Maters if a congrete Water Mater exists. | | \$ 4,134.00 | \$ 4,134.00 | Sec. 1-97 (1) |
| | * Fixed Meter Charge is not applied to Irrigation Meters if a separate Water Meter exists. | | | | |
| В. | Consumption Charge (per 1,000 gallons)** | | \$ 4.02 | \$ 4.02 | Sec. 1-97 (1) |
| | ** Single-Family Residential is serviced by one domestic meter | | | | |
| | | | Bi-Monthly | Bi-Monthly | |
| С. | Availability Charge for unconnected 5/8" water service; Availability Charge for larger meters based on meter size | : | \$ 27.56 | \$ 27.56 | Sec. 1-97 (1) |
| D. | Bulk Water Rates | | | | |
| | Bulk Water Resale Rate (per 1,000 gallons) | | \$ 3.48 \$ 2.55 | \$ 3.48 | Sec. 1-97 (1) |
| | Bulk Reclaimed Water In-Service Area Rate (per 1,000 gallons) Bulk Reclaimed Water Deposit In-Service Area Rate *** | | | | Sec. 1-97 (1) |
| | Bulk Reclaimed Water Deposit In-Service Area Rate *** Bulk Reclaimed Water Out-of-Service Area Rate (per 1,000 gallons) | | \$100 minimum \$ 3.19 | \$100 minimum \$ 3.19 | Sec. 1-97 (1) Sec. 1-97 (1) |
| | Bulk Reclaimed Water Dut-of-Service Area Rate (per 1,000 gailons) 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 | | Ų123 mmmam | Ψ123 mmmam | 560.137 (1) |
| E | Water Service Connection Fee* | | | | |
| ٠. | 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 | | \$ 2,300.00 | \$ 2,300.00 | Sec. 1-97 (2) a; Sec. 1-5 |
| | | | | | |
| | Inspection Fee for Developer-Installed Connection | | \$ 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 |
| F. | Meter Set Fee by Meter Size (includes labor and materials) | | | | |
| | 5/8" | | \$ 250.00 | | Sec. 1-97 (2) c; Sec. 1-5 |
| | 5/8" Split Service | | | \$ 375.00 | Sec. 1-97 (2) c; Sec. 1-5 |
| | 1" 1 1/2" | | \$ 350.00 \$ 1,600.00 | \$ 350.00 \$ 1,600.00 | Sec. 1-97 (2) c; Sec. 1-5 Sec. 1-97 (2) c; Sec. 1-5 |
| | 2" | | \$ 1,800.00 | | Sec. 1-97 (2) c; Sec. 1-5 |
| _ | Custom Douglass of Changes | | | | |
| J. | System Development Charges Water by Meter Size | | | | Sec. 4-27 |
| | 5/8" | | \$ 1,920.00 | \$ 2,120.00 | Sec. 1-97 (2 |
| | 1" (Single-Family Residential with fire sprinkler system) | | \$ 1,920.00 | \$ 2,120.00 | Sec. 1-97 (2) |
| | 1" | | \$ 4,800.00 | \$ 5,300.00 | Sec. 1-97 (2) |
| | 1 1/2" | | \$ 9,600.00 | \$ 10,600.00 | Sec. 1-97 (2) |
| | 3" | | \$ 15,360.00 | \$ 16,960.00 | Sec. 1-97 (2 |
| | 4" | | \$ 28,800.00 \$ 48,000.00 | \$ 31,800.00 \$ 53,000.00 | Sec. 1-97 (2 Sec. 1-97 (2 |
| | 6" | | \$ 96,000.00 | \$ 106,000.00 | Sec. 1-97 (2) |
| | 8" | | \$ 153,600.00 | \$ 169,600.00 | Sec. 1-97 (2 |
| | 10" | | \$ 240,000.00 | \$ 265,000.00 | Sec. 1-97 (2 |
| 4. | Special Use of Water | | | | |
| | Water Rates include both a fixed meter charge as referenced in Section A based on meter size or backflow prevente | er size, | | | |
| | whichever is less, plus consumption charge based on metered consumption as referenced in Section B, billed bi-more | | | | |
| | (every two months). | | | | |
| | Fixed Meter Charge by Size | | Initial Fee | Initial Fee | |
| | 5/8" | | \$ 31.00 | \$ 31.00 | Sec. 1-97 (3) |
| | 3/4" 1" | | \$ 35.00 \$ 45.00 | \$ 35.00 \$ 45.00 | Sec. 1-97 (3 Sec. 1-97 (3 |
| | 1 1/2" | | \$ 45.00 | \$ 45.00 | Sec. 1-97 (3 Sec. 1-97 (3 |
| | 2" | | \$ 96.00 | \$ 96.00 | Sec. 1-97 (3 |
| | 3" | | \$ 165.00 | \$ 165.00 | Sec. 1-97 (3 |
| | 4" | | \$ 254.00 | \$ 254.00 | Sec. 1-97 (3 |
| | Lost or stolen special use sign | | \$ 50.00 | \$ 50.00 | Sec. 1-97 (3 |
| | | | | | |
| I. | Water Quality Fees Inspection Fees Backflow Assembly | | | | |
| | Initial inspection | | No Charge | No Charge | Sec. 1-97 (2 |
| | Subsequent inspections | | \$ 55.00 | \$ 55.00 | Sec. 1-97 (2) |
| J. | Fire Line Service | | | | |
| | Fixed Fire Line Charge by Size | | Bi-Monthly | Bi-Monthly | |
| | 2" | | \$ 20.00 | \$ 20.00 | Sec. 1-97 (1) |

| | | Rates and Fees Effective 7/1/20 | Rates and Fees Effective 7/1/21 | Ordinance Reference |
|----------------|---|---------------------------------|---------------------------------|--|
| | 3" | \$ 30.00 | \$ 30.00 | Sec. 1-97 (1 |
| | 4" | \$ 40.00 | \$ 40.00 | Sec. 1-97 (1 |
| | 6" | \$ 80.00 | \$ 80.00 | Sec. 1-97 (1 |
| | 8" | \$ 140.00 | \$ 140.00 | Sec. 1-97 (1 |
| | 10" | \$ 220.00 | \$ 220.00 | Sec. 1-97 (1 |
| | 12" | \$ 320.00 | \$ 320.00 | Sec. 1-97 (1 |
| SEWED D | ATES & FEES | | | |
| Sewer rates | include both a fixed meter charge based on meter size and consumption charge based on metered n, billed bi-monthly (every two months). | | | |
| | | | | |
| A. Fixed Mete | r Charge by Meter Size 5/8" | Bi-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" | | | Sec. 1-97 (1) f; Sec. 1 |
| | 6" | | | |
| - | 8" | \$ 1,455.00 | \$ 1,455.00 | Sec. 1-97 (1) f; Sec. 1 |
| - | | \$ 2,328.00 | \$ 2,328.00 | Sec. 1-97 (1) f; Sec. 1 |
| | 10" 12" | \$ 3,637.50 \$ 4,365.00 | \$ 3,637.50 \$ 4,365.00 | Sec. 1-97 (1) f; Sec. 1 Sec. 1-97 (1) f; Sec. 1 |
| | | | | |
| Consumption | on Charge (per 1,000 gallons) See Notes 1,2,3,4 | \$ 4.63 | \$ 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 Single Family Residential non-metered consumption based on the average residential consumption plus | | | Sec. 1-97 (1) c; Sec. 1 |
| Note 2 | the fixed metered charge for a 5/8" meter | | | Sec. 1-97 (1) g; Sec. 1 |
| Note 3 | | | | |
| | Nonresidential non metered consumption capped at 24,000 gallons per bimonthly billing | | | 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 | Di Marushin | Di sa-makki | |
| A 11 - 1-1114 | Character and F /Oll and a second | Bi-Monthly \$ 29.10 | Bi-Monthly | C 1 07 // |
| . Availability | Charge for unconnected 5/8" sewer service; Availability Charge for larger meters based on meter size | \$ 29.10 | \$ 29.10 | Sec. 1-97 (|
| . Bulk Waste | water Collection and Treatement Rate (per 1,000 gallons) | \$3.34 | \$3.34 | Sec. 1-97 (2 |
| . Sewer Servi | ce Connection Fee | | | |
| | Fee by Service Size | | | |
| | 4" Service | \$ 2,200.00 | \$ 2,200.00 | Sec. 1-97 (2) a; Sec. 1- |
| | 6" Service | \$ 2,800.00 | \$ 2,800.00 | Sec. 1-97 (2) a; Sec. 1 |
| | ee for Developer-Installed Connection | | \$ 55.00 | Sec. 1-97 (2) b; Sec. 1- |
| Inspection F | ee for Developer-Installed Connection (After hours - Minimum of 2 hours) | \$75/hour | \$75/hour | Sec. 1-97 (2) b; Sec. 1 |
| | elopment Charges | | | Son 4.47 |
| Sewer by M | | ć 2.070.00 | ć 2400.00 | Sec. 4-47 |
| | 5/8" | \$ 2,070.00 | \$ 2,180.00 | Sec. 1-97 (2 |
| | 1" (Single-Family Residential with fire sprinkler system) | \$ 2,070.00 | \$ 2,180.00 | Sec. 1-97 (|
| | 1" | \$ 5,175.00 | \$ 5,450.00 | Sec. 1-97 (|
| | 1 1/2" | \$ 10,350.00 | \$ 10,900.00 | Sec. 1-97 (|
| | 2" | \$ 16,560.00 | \$ 17,440.00 | Sec. 1-97 (|
| | 3" | \$ 31,050.00 | \$ 32,700.00 | Sec. 1-97 (|
| | 4" | \$ 51,750.00 | \$ 54,500.00 | Sec. 1-97 (|
| | 6" | \$ 103,500.00 | \$ 109,000.00 | Sec. 1-97 (|
| | 8" | \$ 165,600.00 | \$ 174,400.00 | Sec. 1-97 (|
| | 10" | \$ 258,750.00 | \$ 272,500.00 | Sec. 1-97 (|
| | Unmetered service (sewer only) | \$10/gallon | | C 4.07/ |
| | Onmeterea service (sewer only) | projected flow | projected flow | Sec. 1-97 (|
| Developme | nt Capacity Fees | | | |
| | Associates - Regional Lift Station (PS #157) Only | \$1.50 per gpd | \$1.55 per gpd | Per Cont |
| | Recovery - Northwest Forcemain Improvements Only | \$3.96 per gpd | | Sec. 4-4 |
| | ver Project Capacity Fee | \$2.71 per gpd | \$2.71 per gpd | Per Cont |
| | Recovery - Pump Station 36 Improvements | \$2.31 per gpd | \$2.31 per gpd | Per Cont |
| | Recovery - Northern Water Main | \$2.13 per gpd | | Per Cont |
| | Recovery - Forest Creek Outfall | N/A | \$12.87 per gpd | Per Cont |
| Grinder Pur | np Fees | | | |
| | grinder pump fee, bi monthly | \$30.00 | \$30.00 | |
| | rinder pump fee per platted lot | \$300.00 | \$300.00 | |
| | | | | |
| Wastewa | ter Pretreatment | | | |
| | | | | |
| | ermit Applications and Annual Fees: | | | |
| JigiiiiiCant I | Initial and Annual Permit | \$ 750.00 | \$ 750.00 | Sec. 5-58: Sec. 5-9 |
| | Modification of Permit (each occurrence) | \$ 750.00 \$ 200.00 | | Sec. 5-58: Sec. 5-9 |
| | Restoration of Revoked Permit (each occurrence) | | | |
| | INCOLUTION OF NEVOREU FEITHE (EUCH OCCUPIENCE) | \$ 1,500.00 | \$ 1,500.00 | Sec. 5-58: Sec. 5-9: |

| | | Rates and Fees | Rates and Fees | |
|-------------------|---|---|---|--|
| | | Effective 7/1/20 | Effective 7/1/21 | Ordinance Reference |
| | | Individually | Individually | |
| | Monitoring Fee | determined | determined | Sec. 5-5 |
| | Enforcement Cost Recovery | Individually determined | Individually determined | Sec. 1-97 (3) j; Sec. 5-5 |
| | · | | | , , , , |
| 3. Other Wastewa | | | | |
| | Flow Less than 1,000 gallons/day (initial and annual) | \$ 100.00 | \$ 100.00 | Sec. 5-58: Sec. 5-91 (a |
| | Flow Between 1,000 and 7,500 gallons/day (initial and annual) Flow Between 7,501 and 15,000 gallons/day (initial and annual) | \$ 200.00 \$ 300.00 | \$ 200.00 \$ 300.00 | Sec. 5-58: Sec. 5-91 (a Sec. 5-58: Sec. 5-91 (a |
| | How between 7,301 and 13,000 ganons/day (micial and annual) | Individually | Individually | 3ec. 3-36. 3ec. 3-31 (a |
| | Monitoring Fee | determined | determined | Sec. 5-5 |
| | Food Service Establishment Permit and Annual Inspection Fee (per location) | \$ 100.00 | \$ 100.00 | Sec. 5-58: Sec. 5-91 (a |
| | Grease Interceptor Pumping Variance (each occurrence) | \$ 220.00 | \$ 220.00 | Sec. 5-5 |
| | | Individually | Individually | |
| | Enforcement Cost Recovery | determined | determined | Sec. 1-97 (3) j; Sec. 5-5 |
| | Restoration Fee of Revoked Other Wastewater Permit (each occurrence) | 2x permit fee | 2x permit fee | Sec. 1-97 (1) d; Sec. 5-5 |
| _ | Residuals permit application fee (initial and renewals) | \$ 100.00 | \$ 100.00 | Sec. 5-5 |
| . Pretreatment V | Vastewater 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. 5-5 |
| | Surcharge for COD (per 100 lbs; when COD>600mg/L and >/=3xBOD)**** | \$ 36.00 | \$ 36.00 | Sec. 1-97 (1) d; Sec. 5-5 |
| | Surcharge for TSS (per 100 lbs; when TSS >200mg/l) | \$ 21.00 | \$ 21.00 | Sec. 1-97 (1) d; Sec. 5-5 |
| | **** Surcharge is assessed for either BOD or COD, but not both. | | | |
| Charres | Anna Havilana | Barrel ! | B.C. waled | |
| Charges for Sep | In-Service Area Rate (per gallon) | Monthly | Monthly | Soc 1 07/1\ b. C F 1 |
| | Out-of-Service Area Rate (per gallon) | \$ 0.1378 \$ 0.1723 | \$ 0.1378 \$ 0.1723 | Sec. 1-97 (1) b; Sec. 5-3 Sec. 1-97 (1) b; Sec. 5-3 |
| | Utility Deposit | \$ 500.00 | \$ 500.00 | Sec. 1-97 (1) b; Sec. 5-3 |
| | · · | \$ 555.00 | . 555.30 | 3cc. 1 |
| . Charges for Mis | cellaneous 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. 5-3 |
| | Per gallon Out-of-Service Area | \$ 0.060 | \$ 0.060 | Sec. 1-97 (1) b; Sec. 5-3 |
| | | | | |
| | Long-Term Permit One Time System Development Charge In accordance with Fee Schedule and specified in permit. | | | Soc 1 07 (2) d. Soc E E |
| | one time system bevelopment charge in accordance with ree schedule and specified in permit. | Monthly | Monthly | Sec. 1-97 (2)d; Sec. 5-5 |
| | Long-Term Permit Monthly Consumption Charge (per 1,000 gallons) | \$ 4.63 | | Sec. 1-97 (1) c; Sec. 5-5 |
| | 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. 5-5 |
| | 1" (Flow between 28,801-72,000 gpd) | \$ 72.75 | \$ 72.75 | Sec. 1-97 (1) f; Sec. 5-5 |
| | 1 1/2" (Flow between 72,001-144,000 gpd) | \$ 145.50 | \$ 145.50 | Sec. 1-97 (1) f; Sec. 5-5 |
| | 2" (Flow between 144,001-230,400 gpd) | \$ 232.80 | \$ 232.80 | Sec. 1-97 (1) f; Sec. 5-5 |
| | 3" (Flow between 230,401-460,800 gpd) | \$ 436.50 | \$ 436.50 | Sec. 1-97 (1) f; Sec. 5-5 |
| | 4" (Flow between 460,801-720,000 gpd) | \$ 727.50 | \$ 727.50 | Sec. 1-97 (1) f; Sec. 5-5 |
| | 6" (Flow between 720,001-1,440,000 gpd) | \$ 1,455.00 | \$ 1,455.00 | Sec. 1-97 (1) f; Sec. 5-5 |
| | 8" (Flow between 1,440,001-2,304,000 gpd) 10" (Flow between 2,304,001-3,312,000 gpd) | \$ 2,328.00 \$ 3,637.50 | \$ 2,328.00 | Sec. 1-97 (1) f; Sec. 5-5 |
| | 12" (Flow > 3,312,001 gpd) | \$ 3,637.50 \$ 4,365.00 | \$ 3,637.50 \$ 4,365.00 | Sec. 1-97 (1) f; Sec. 5-5 Sec. 1-97 (1) f; Sec. 5-5 |
| | 12 (10W > 3,312,001 Bbu) | 3 4,303.00 | \$ 4,303.00 | 3ec. 1-37 (1) 1, 3ec. 3-3 |
| | rge for Haulers of Non-Hazardous Wastewater Treatment Plant (WWTP) Residuals as delivered to a | | | |
| - | UA 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. 5-3 |
| | Stabilized/Equal to or Better Than Class B Residuals In-Service Area Rate Unstabilized/Less Than Class B Residuals Out-of-Service Area Rate | \$ 0.6015 | | Sec. 1-97 (1) b; Sec. 5-3 |
| | Stabilized/Equal to or Better Than Class B Residuals Out-of-Service Area Rate | \$ 1.0025 | | Sec. 1-97 (1) b; Sec. 5-3 Sec. 1-97 (1) b; Sec. 5-3 |
| | Stabilized/Equal to or better man class b residuals out or service Area rate | | | Jec. 1-37 (1) b, Jec. 3- |
| | | \$ 0.7519 | \$ 0.7519 | |
| | | \$ 0.7519 | \$ 0.7519 | |
| 4 Penalties | | \$ 0.7519 | \$ 0.7519 | |
| 1 Penalties | | \$ 0.7519 | \$ 0.7519 | |
| A. Tampering Viol | | \$ 0.7519 | \$ 0.7519 | |
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed | | | |
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) | \$120.60 minimum | \$120.60 minimum | Sec. 1-97 (3) m; Sec 1-166 (|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) | \$120.60 minimum \$138.90 | \$120.60 minimum \$138.90 | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee | \$120.60 minimum \$138.90 \$75.00 | \$120.60 minimum \$138.90 \$75.00 | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority | \$120.60 minimum \$138.90 \$75.00 \$55.00 | \$120.60 minimum \$138.90 \$75.00 \$55.00 | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee | \$120.60 minimum \$138.90 \$75.00 \$55.00 | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority | \$120.60 minimum \$138.90 \$75.00 \$55.00 Triple the amount | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority | \$120.60 minimum \$138.90 \$75.00 \$55.00 | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee | \$120.60 minimum \$138.90 \$75.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(Sec. 1-97 (3) |
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee | \$120.60 minimum \$138.90 \$75.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(Sec. 1-97 (3) |
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) Violation of Cross Connection Control Ordinance | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(Sec. 1-97 (3) |
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) Violation of Cross Connection Control Ordinance nter Violations | \$120.60 minimum \$138.90 \$75.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-97 (3) Sec. 1-97 (3) Sec. 1-97 (3) |
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) Violation of Cross Connection Control Ordinance nter Violations Commercial failure to submit required backflow preventer test report | \$120.60 minimum \$138.90 \$75.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(Sec. 1-97 (3) Sec. 1-97 (3) Sec. 2-10 (|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) Violation of Cross Connection Control Ordinance nter Violations Commercial failure to submit required backflow preventer test report Residential failure to submit required backflow preventer test report | \$120.60 minimum \$138.90 \$75.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(f Sec. 1-97 (3) Sec. 1-97 (3) Sec. 2-10 (c Sec. 2-10 (c |
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) Violation of Cross Connection Control Ordinance nter Violations Commercial failure to submit required backflow preventer test report | \$120.60 minimum \$138.90 \$75.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-97 (3) Sec. 1-97 (3) Sec. 1-97 (3) Sec. 2-10 (|
| A. Tampering Viol | Unauthorized non-metered use of water (greater of 30,000 gallons consumption or the highest billed consumption in the past 24 months) Unauthorized non-metered use of sewer (capped at 30,000 gallons consumption) Cut Lock Fee Unauthorized turn on or turn off water supplied by Authority Meter Obstruction Fee System Tampering Civil Action Violation, in accordance with N.C.G.S. 14-151(e) Violation of Cross Connection Control Ordinance nter Violations Commercial failure to submit required backflow preventer test report Residential failure to submit required backflow preventer test report Submission of falsified backflow preventer test report | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | \$120.60 minimum \$138.90 \$75.00 \$55.00 \$55.00 Triple the amount of losses and damages sustained by the Authority or \$5000, whichever is greater Up to \$1,000/day | Sec. 1-97 (3) m; Sec 1-166 (Sec. 1-97 (3) m; Sec. 1-166 (Sec. 1-97 (3) f; Sec. 1-166 (Sec. 1-9 (g); Sec. 1-9(Sec. 1-97 (3) Sec. 1-97 (3) Sec. 2-10 (|

CAPE FEAR PUBLIC UTILITY AUTHORITY RATES AND FEES SCHEDULE FY 21-22

| | | Rates and Fees Effective 7/1/20 | Rates and Fees Effective 7/1/21 | Ordinance Reference |
|-------------------|---|------------------------------------|------------------------------------|---|
| | Violation of Wastewater Discharge Permit | 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 (d |
| | Violation of water Emergency management negulations | Op to \$500/day | Op to \$500/day | Sec. 3-13 (u) |
| 5 Miscellaneo | ous and Other | | | |
| | | | | |
| A. Service/repair | costs | Individually | Individually | |
| | Contracted services at actual cost plus 10% administrative fee | determined | determined | |
| | | Individually | Individually | |
| | CFPUA staff and equipment at FEMA reimbursable cost | determined | determined | Sec. 1-9 (e |
| . Other Fees | | | | |
| | After Hours Fee | Individually determined | Individually determined | |
| | Emergency Reconnect Fee | \$ 110.00 | \$ 110.00 | Sec. 1-97 (3) a |
| | Late Day Reconnect Fee | \$ 55.00 | \$ 55.00 | Sec. 1-97 (3) |
| | | | 10% of balance; \$25 | |
| | | maximum on Single- | maximum on Single- | |
| | | Family Residential | Family Residential | |
| | Late Fee | services | services | Sec. 1-97 (3) |
| | Loan Processing Fee/Deferral Fee Meter Test | Actual Cost to File \$ 55.00 | Actual Cost to File \$ 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 | \$ 150.00 | Sec. 1-36; Sec. 1-16: |
| | New Service Charge | \$ 55.00 | \$ 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) Utility Deposit Single-Family Residential (may be adjusted by Customer Service Director based on services | \$ 55.00 | \$ 55.00 | Sec. 1-97 (3) |
| | provided and prior payment history) | Up to \$200 | Up to \$200 | Sec. 1-6 |
| | provided and prior payment instary) | Determined by | Determined by | 3cc. 1 V |
| | Utility Deposit Commercial | Policy | Policy | Sec. 1- |
| | Hydrant Meter Deposit for festivals (up to 1 1/2" meter size) | \$ 500.00 | \$ 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 Commercial Plans (multi-family residential/commercial) - no required NCDEQ water and sewer | \$ 120.00 | \$ 120.00 | Sec. 1-97 (3) l; Sec. 4-3 (a |
| | permits | \$ 120.00 | \$ 120.00 | Sec. 1-97 (3) l; Sec. 4-3 (a |
| | Main Extensions/Utility relocation/ROW widening less than 500 Linear Feet | \$ 240.00 | \$ 240.00 | Sec. 1-97 (3) I; Sec. 4-3 (a |
| | Main Extensions/Utility relocation/ROW widening 500-999 Linear Feet | \$ 300.00 | \$ 300.00 | Sec. 1-97 (3) l; Sec. 4-3 (a |
| | Main Extensions/Utility relocation/ROW widening 1,000-4,999 linear feet | \$ 600.00 | \$ 600.00 | Sec. 1-97 (3) l; Sec. 4-3 (a |
| | Main Extensions/Utility relocation/ROW widening 5,000-9,999 linear feet | \$ 850.00 | \$ 850.00 | Sec. 1-97 (3) l; Sec. 4-3 (a |
| | Main Extensions/Utility relocation/ROW widening 10,000 linear feet and greater | \$ 1,400.00 | \$ 1,400.00 | Sec. 1-97 (3) l; Sec. 4-3 (a |
| | Pump Station Review (plus the main extensions fee above) | \$ 350.00 | \$ 350.00 | Sec. 1-97 (3) I; Sec. 4-3 (a |
| | Re-review Fee Water/Sewer Line Acceptance Testing Reinspection | \$ 50.00 \$55/hour | \$ 50.00 \$55/hour | Sec. 1-97 (3) l; Sec. 4-3 (a Sec. 4-3 (c |
| | Water/Sewer Line Acceptance Testing Reinspection - After Hours Fee | \$75/hour | \$75/hour | Sec. 4-3 (c |
| | 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 (a |
| | Demolition Inspection Fee | \$ 55.00 | \$ 55.00 | Sec. 1-97 (3) s; Sec. 1-6 (a |
| | 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 | \$ 1,500.00 | \$ 2,025.00 | Sec. 1-97 (3) |
| | | Individually | Individually | |
| | | determined; | determined; | |
| | Water Tower Lease | \$2,500 minimum | \$2,500 minimum | |
| | Additional Antenna Fee - per antenna exceeding nine antennas Ground Space Fee - Additional ground space above 400 square feet | \$ 300.00 \$5.92/square foot | \$ 300.00 \$5.92/square foot | |
| | | 93.32/34uaie 100t | 95.52/34uaie 100t | |
| . Miscellaneous | Administrative Fees | | | |
| | Beturned Cheek Fee / Der events Closed Assessmt NISE Step Designant of Contract Assessment | ć oso | 6 25.55 | 6 4 6= 75 |
| | 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 nayment amount up to \$500 per transaction | ¢ 275 | \$ 275 | |
| | Convenience Fee per transaction; maximum payment amount up to \$500 per transaction. Dishonored Bank Draft Fee (Per event; Closed Account, NSF, Stop Payment of Customer/Vendor Draft) | \$ 3.75 \$ 25.00 | \$ 3.75 \$ 25.00 | Sec. 1-97 (3) |

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

| Fiscal Year | City of | New Hanover | | Public | Local | Personal | |
|-------------|----------------|----------------|---------|----------------|--------------|--------------|------------|
| Ended | Wilmington | County | Median | School | Unemployment | Income | Per Capita |
| June 30 | Population (1) | Population (1) | Age (1) | Enrollment (2) | Rate % (3) | (000's) (4) | Income (4) |
| 2020 | 122,610 | 232,248 | 39 | 25,952 | 7.6% | \$10,518,512 | \$45,290 |
| 2019 | 122,607 | 232,274 | 39 | 25,512 | 4.0% | 10,155,484 | \$43,722 |
| 2018 | 119,045 | 227,198 | 38 | 26,263 | 3.9% | 9,717,031 | \$42,769 |
| 2017 | 117,525 | 223,483 | 38 | 26,096 | 3.9% | 9,885,994 | 44,236 |
| 2016 | 115,933 | 220,358 | 38 | 25,901 | 4.8% | 9,312,770 | 42,262 |
| 2015 | 113,657 | 216,298 | 38 | 26,241 | 5.6% | 8,757,257 | 40,487 |
| 2014 | 112,067 | 213,267 | 38 | 25,470 | 6.1% | 8,324,877 | 39,035 |
| 2013 | 109,922 | 209,234 | 38 | 25,364 | 9.1% | 7,669,054 | 36,653 |
| 2012 | 108,297 | 206,189 | 37.5 | 25,253 | 9.3% | 7,433,938 | 36,054 |
| 2011 | 106,476 | 202,667 | 36.7 | 23,934 | 10.1% | 7,300,065 | 36,020 |

⁽¹⁾ US Census Bureau.

⁽²⁾ Provided by the NHC Schools Finance Department

⁽³⁾ North Carolina Department of Commerce

⁽⁴⁾ Federal Agency Data: Bureau of Economic Analysis. Data provided for as many years as available.

Cape Fear Public Utility Authority Principal Water Customers Current Fiscal Year and Nine Years Prior

| | | 2020 | | | | | 20 | 11 | |
|--|----------------------|---------------------------|------------|------------------|--|----------------------|----------------|---------------|------------------|
| Ten Largest Users of the Water System Annual Consumption | Thousands of Gallons | % of System Revenues (\$) | | % of Revenues | Ten Largest Users of the Water System Annual Consumption | Thousands of Gallons | % of System | Revenues (\$) | % of Revenues |
| 1 UNC Wilmington | 145,286 | 2.44% \$ | 514,961 | 1.21% | 1 UNC Wilmington | 183,400 | 3.34% | \$ 670,500 | 2.37% |
| 2 New Hanover Regional Medical Center | 78,114 | 1.31% | 372,722 | 0.88% | 2 New Hanover Regional Medical Center | 60,103 | 1.10% | 253,431 | 0.90% |
| 3 Town of Wrightsville Beach | 58,590 | 0.98% | 39,483 | 0.09% | 3 New Hanover County Schools | 51,773 | 0.94% | 288,296 | 1.02% |
| 4 New Hanover County Schools | 57,907 | 0.97% | 310,197 | 0.73% | 4 Wilmington Housing Authority | 37,520 | 0.68% | 158,505 | 0.56% |
| 5 Wilmington Housting Authority | 48,845 | 0.82% | 233,116 | 0.55% | 5 New Hanover County | 36,290 | 0.66% | 195,927 | 0.69% |
| 6 New Hanover County | 46,755 | 0.79% | 275,009 | 0.65% | 6 Lake Forest Apartments | 33,107 | 0.60% | 128,507 | 0.45% |
| 7 Bedrock Holdings | 46,049 | 0.77% | 284,785 | 0.67% | 7 College Manor Apartments | 30,588 | 0.56% | 123,732 | 0.44% |
| 8 Tribute Properties | 28,323 | 0.48% | 231,799 | 0.55% | 8 Mayfaire Complex | 25,244 | 0.46% | 163,222 | 0.58% |
| 9 City of Wilmington | 27,912 | 0.47% | 243,032 | 0.57% | 9 Tribute Properties | 24,645 | 0.45% | 174,715 | 0.62% |
| 10 NC State Port | 26,113 | 0.44% | 153,426 | 0.36% | 10 Wilmington Hilton | 18,448 | 0.34% | 71,652 | 0.25% |
| Total Net Consumption / Net Revenue | 563,894 | 9.48% \$ | 2,658,531 | 6.27% | Total Net Consumption / Net Revenue | 501,118 | 9.14% | \$ 2,228,487 | 7.88% |
| Total Annual System Net Consumption / Net Revenue | 5,949,676 | \$ 4 | 12,403,504 | _ | Total Annual System Net Consumption / Net Revenue | 5,485,532 | : | \$ 28,288,199 | , |

Cape Fear Public Utility Authority Principal Wastewater Customers Current Fiscal Year and Nine Years Prior

2020 2011

| Ten Largest Users of the Wastewater System Annual Consumption | Thousands of Gallons | % of System | Revenues (\$) | % of Revenues | Ten Largest Users of the Wastewater System Annual Consumption | Thousands of Gallons | % of System | Revenues (\$) | % of Revenues |
|---|----------------------|-------------------------|---------------|------------------|---|----------------------|----------------|---------------|------------------|
| 1 Town of Wrightsville Beach | 234,896 | 4.46% | \$ 845,626 | 1.97% | 1 Town of Wrightsville Beach | 242,837 | 4.79% | \$ 358,180 | 1.28% |
| 2 NHRMC | 74,046 | 1.41% | 402,636 | 0.94% | 2 UNC Wilmington | 111,952 | 2.21% | 399,691 | 1.42% |
| 3 UNC Wilmington | 68,670 | 1.30% | 391,051 | 0.91% | 3 New Hanover County Schools | 49,331 | 0.97% | 272,876 | 0.97% |
| 4 New Hanover County Schools | 53,704 | 1.02% | 327,111 | 0.76% | 4 New Hanover Regional Medical Center | 59,071 | 1.17% | 236,881 | 0.84% |
| 5 Wilmington Housing Authority | 48,642 | 0.92% | 262,865 | 0.61% | 5 New Hanover County | 34,159 | 0.67% | 172,881 | 0.62% |
| 6 Bedrock Holdings | 44,629 | 0.85% | 302,542 | 0.70% | 6 Wilmington Housing Authority | 37,420 | 0.74% | 149,983 | 0.53% |
| 7 New Hanover County | 40,707 | 0.77% | 265,842 | 0.62% | 7 College Manor Apartments | 30,588 | 0.60% | 117,478 | 0.42% |
| 8 Corning, Inc. | 28,282 | 0.54% | 132,095 | 0.31% | 8 Lake Forest Apartments | 33,107 | 0.65% | 120,990 | 0.43% |
| 9 Tribute | 27,546 | 0.52% | 250,430 | 0.58% | 9 Mayfaire Complex | 25,012 | 0.49% | 159,386 | 0.57% |
| 10 Lake Forest Apartments | 25,472 | 0.48% | 134,462 | 0.31% | 10 Tribute Properties | 24,382 | 0.48% | 192,464 | 0.69% |
| Total Net Consumption / Net Revenue | 646,593 | 10.94% | \$ 3,314,660 | 7.70% | Total Net Consumption / Net Revenue | 647,859 | 12.78% | \$ 2,180,810 | 7.77% |
| Total Annual System Net Consumption / Net Revenue | 5,269,523 | 5,269,523 \$ 43,022,105 | | | Total Annual System Net Consumption / Net Revenue | 5,070,084 | | \$ 28,052,866 | _ |

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

2020 2011

| | | | Percentage of Tota | al | | | Percentage of Total |
|--|------------------|------|----------------------|--|------------------|------|----------------------|
| Employers | Employees (1) | Rank | County Employment | Employers | Employees (3) | Rank | County Employment |
| New Hanover Regional Medical Center | 7,500 | 1 | 6.29% | New Hanover Regional Medical Center | 4,738 | 1 | 5.04% |
| New Hanover County Schools | 4,211 | 2 | 3.53% | New Hanover County Schools | 3,666 | 2 | 3.90% |
| Wal-Mart Stores | 2,857 | 3 | 2.40% | Wal-Mart Stores | 2,592 | 3 | 2.76% |
| GE Hitachi Nuclear Energy and GE Aviation | 2,800 | 4 | 2.35% | GE Hitachi Nuclear Energy and GE Aviation | 2,100 | 4 | 2.23% |
| University of North Carolina Wilmington | 2,409 | 5 | 2.02% | University of North Carolina at Wilmington | 1,898 | 5 | 2.02% |
| New Hanover County Government | 1,822 | 6 | 1.53% | PPD | 1,500 | 6 | 1.60% |
| PPD | 1,500 | 7 | 1.26% | New Hanover County | 1,480 | 7 | 1.57% |
| Duke Energy | 1,136 | 8 | 0.95% | Corning, Inc. | 1,000 | 8 | 1.06% |
| City of Wilmington | 1,000 | 9 | 0.84% | City of Wilmington | 981 | 9 | 1.04% |
| Wilmington Health | 917 | 10 | 0.77% | Cape Fear Community College | 541 | 10 | 0.58% |
| | | = | 21.93% | = | | | 21.80% |
| Total # Employed at June 30 of the respective FY (2) | | _ | 119,249 | Total # Employed at June 30 of the respective FY (3) | | | 94,030 |

(1) Source: 2020 Book on Business; www.wilmingtonbiz.com

(2) Source: www.nccommerce.com

(3) Source: CFPUA CAFR for the fiscal year ended June 20, 2011

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

Fiscal Year 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 Water System Number of available service connections(1) 74.883 75.772 74,700 73.118 71.439 70,356 68.794 68.033 67.067 64,602 Number of treatment plants - surface water system 1 1 1 1 35 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 27.50 Treatment capacity (mgd) - surface water Average production (mgd) - surface water 15.34 15.44 14.49 14.63 14.35 13.56 13.44 13.20 13.50 13.70 2 2 2 3 3 3 3 3 Number of groundwater systems 2 3 Number of treatment plants - groundwater system 1 1 1 1 1 1 1 1 39 37 38 36 36 36 36 36 Number of active wells - groundwater system 37 34 6 6 6 6 6 6 6 6 6 6 Treatment capacity (mgd) - groundwater plant Treatment capacity (mgd) - other groundwater systems 1.02 1.02 1.02 0.90 0.70 0.70 0.70 0.70 0.70 0.70 Average production (mgd) - groundwater 3.49 3.49 3.07 3.08 3.04 2.94 2.48 2.95 2.95 3.20 1,041 ⁽²⁾ 1,070 (2) Miles of water mains 1,150 1,142 1,078 1,072 1,131 1,113 1,114 1,089 Wastewater System 75,409 69.222 68.246 66,059 64,529 64,330 Number of available service connections⁽¹⁾ 74,116 73,043 71,539 66,829 Number of treatment plants 2 2 2 2 3 3 3 3 3 3 WPC plant permit (mgd) 28 28.00 28.10 28.10 28.10 28.10 22.10 22.10 22.10 22.10 Average annual daily flow (mgd) 16.85 19.59 17.49 17.16 18.76 17.48 16.45 16.17 15.10 15.80 Number of lift stations 150 147 148 146 142 143 141 141 141 141 Miles of wastewater gravity mains⁽²⁾ 907 912 892 877 848 844 827⁽²⁾ 850 840 840⁽²⁾ Miles of wastewater force mains 154 144 143 142 131 131 110 104 104 112 22.395 Number of manholes 22,134 22,097 22,017 21,221 21,049 20,918 20,300 20,300 20,300

⁽¹⁾ In prior billing system, non-irrigation base services available at a premise were not removed from the total count which inflated the number of available services.

⁽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 Nine Fiscal Years

| | 2020 | | 2019 | | 2018 | | 2017 | | 2016 | | 2015 | | 2014 | | 2013 | | 2012 | | 2011 | |
|--------------------------------|---------------------|---------------------|-----------------------|------------------|---------------------|-------------------|--------------------|------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|---------------------|-------------------|---------------------|----------------|
| | Thousand Gallons | % of Consumption | Thousand Gallons % of | of Consumption T | housand Gallons % o | of Consumption Th | ousand Gallons % o | f Consumption Th | ousand Gallons % o | of Consumption TI | nousand Gallons % | of Consumption TI | housand Gallons % | of Consumption Th | ousand Gallons % o | of Consumption Th | ousand Gallons % of | of Consumption Th | iousand Gallons % (| of Consumption |
| Water Customers | | | | | | | | | | | | | | | | | | | | |
| Residential | 4,107,969 | 69.05% | 3,718,024 | 67.27% | 3,614,451 | 68.57% | 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% |
| Commercial | 1,284,322 | 21.59% | 1,238,734 | 22.41% | 1,175,036 | 22.29% | 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% |
| Town of Wrightsville Beach (1) | 47,968 | 0.81% | - | 0.00% | - | 0.00% | - | 0.00% | - | 0.00% | - | 0.00% | - | 0.00% | - | 0.00% | - | 0.00% | - | 0.00% |
| Industrial | 69,941 | 1.18% | 109,343 | 1.98% | 90,719 | 1.72% | 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% |
| Institutional and Government | 439,476 | 7.39% | 460,658 | 8.34% | 391,058 | 7.42% | 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% |
| • | | | | | | | | | | | | | | | | | | | • | |
| Total | 5,949,676 | 100.00% | 5,526,758 | 100.00% | 5,271,263 | 100.00% | 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% |
| • | | | | | | | | | | | | | | | | | | | | |
| Wastewater Customers | | | | | | | | | | | | | | | | | | | | |
| Residential | 3,524,127 | 66.88% | 3,312,519 | 66.11% | 3,259,728 | 66.14% | 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 | 68.98% |
| Commercial | 1,173,859 | 22.28% | 1,143,289 | 22.82% | 1,078,506 | 21.88% | 1,048,627 | 21.62% | 1,019,892 | 20.90% | 956,150 | 20.30% | 922,045 | 19.77% | 923,952 | 19.50% | 941,927 | 18.96% | 957,062 | 18.88% |
| Town of Wrightsville Beach | 234,896 | 4.46% | 223,691 | 4.46% | 254,728 | 5.17% | 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 | 4.23% |
| Pender County | 8,296 | 0.16% | 12,715 | 0.25% | 14,374 | 0.29% | 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% |
| Industrial | 17,330 | 0.33% | 16,613 | 0.33% | 17,144 | 0.35% | 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% |
| Institutional and Government | 311,014 | 5.90% | 302,154 | 6.03% | 303,850 | 6.17% | 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% |
| Total (4) | 5,269,523 | 100.00% | 5,010,981 | 100.00% | 4,928,329 | 100.00% | 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% |

⁽¹⁾ Beginning in Fiscal Year 2020, CFPUA entered into a bulk wholesale water agreement with the Town of Wrightsville Beach limited to 45 million gallons per calendar year.

⁽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.