

**AGENDA**  
**Lower Cape Fear Water & Sewer Authority**  
**1107 New Pointe Boulevard, Suite # 17, Leland, North Carolina**  
**8:30 a.m. – Personnel Committee Meeting**  
**June 5, 2023**

**MEETING CALL TO ORDER:** Chairman Blanchard

**DISCUSSION:** Personnel Policy Leave and Compensation amendments

**ACTION/DIRECTION:** Discussion and direct staff

**ADJOURNMENT**

Chapter 5- Holiday and Leave Policies:

Paragraph 3:

Current:

Up to fifty (50) days of annual leave may be accumulated by an employee and may be compensated at the termination of employment by the Authority. However, not more than (30) days of annual leave may be carried from one fiscal year to the next. Leave credit in excess of this limit shall be forfeited as of midnight, June 30th of each year.

Proposed:

Up to sixty (60) days of annual leave may be accumulated by an employee and may be compensated at the termination of employment by the Authority. However, not more than (45) days of annual leave may be carried from one fiscal year to the next. Leave credit in the excess amount of this limit shall be rolled over into the employee's sick leave as of midnight, June 30th of each year.

Current:

Employees shall be entitled to at most (30) days of annual leave in any fiscal year unless the maximum carried over from one year to the next is waived as described in the preceding sentence. Under no circumstances shall an employee be paid for accumulated and unused annual leave except for compensation at the termination of employment as provided herein.

Proposed:

Employees shall be entitled to at most (45) days of annual leave in any fiscal year. Employees shall be eligible to request up to one week of pay for one week of accumulated leave each fiscal year.



## **AGENDA**

**Lower Cape Fear Water & Sewer Authority  
1107 New Pointe Boulevard, Suite # 17, Leland, North Carolina  
9:00 a.m. – Regular Monthly Board Meeting  
June 5, 2023**

**MEETING CALL TO ORDER:** Chairman Blanchard

**INVOCATION**

**PLEDGE OF ALLEGIANCE**

### **APPROVAL OF CONSENT AGENDA**

- C1** - Minutes of May 8, 2023, Regular Board Meeting
- C2** - Minutes of May 8, 2023, Finance Committee Meeting
- C3** - Kings Bluff Monthly Operations and Maintenance Report
- C4** - Bladen Bluffs Monthly Operations and Maintenance Reports
- C5** - Final Master Plan for 25 Year Planning Period FY 2023-2047

### **OLD BUSINESS**

- OB1**- Finance Committee Recommended Budget for Fiscal Year 2023-2024

### **NEW BUSINESS**

- NB1** - RFQ Engineering Services Associated with Kings Bluff Raw Water Pump Station Air Backwash Building & Access Walkway
- NB2** - Consider approval of Personnel Policy Leave and Compensation amendments.
- NB3** - Consider approval of Interlocal Agreement Amendment
- NB4** - Resolutions of Governing Board of Recipient for Project No. SPR-D-ARP-0170 48" Parallel Raw Water Main Project American Rescue Plan-S.L.2022-74 Leland, NC
- NB5** - Resolutions of Governing Board of Recipient for Project No. SPR-D-ARP-0138 Pre-Construction Planning Grant and Rate Study American Rescue Plan-S.L.-2022-74 Leland, NC

**ENGINEER'S COMMENTS**

**ATTORNEY COMMENTS**

### **EXECUTIVE DIRECTOR REPORT**

- EDR1**–Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending May 31, 2023

**EDR2**–Operating Budget Status, Ending April 30, 2023.

**EDR3**–Summary of Activities

**DIRECTOR’S COMMENTS AND/OR FUTURE AGENDA ITEMS**

**PUBLIC COMMENT**

**ADJOURNMENT**

*The next board meeting of the Lower Cape Fear Water & Sewer Authority is scheduled for Monday, July 10<sup>th</sup> at 9:00 a.m. in the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.*

## **AGENDA ITEM**

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: June 5, 2023

Re: Consent Agenda

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

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Please find enclosed the items of a routine nature for consideration and approval by the Board of Directors with one motion. However, that does not preclude a board member from selecting an item to be voted on individually, if so desired.

- C1 - Minutes of May 8, 2023, Regular Board Meeting**
- C2 - Minutes of May 8, 2023, Finance Committee Meeting**
- C3 - Kings Bluff Monthly Operations and Maintenance Report**
- C4 - Bladen Bluffs Monthly Operations and Maintenance Report**
- C5 – Final Master Plan for 25 Year Planning Period FY 2023-2047**

**Action Requested:** Motion to approve/disapprove Consent Agenda.

## Regular Board Meeting Minutes

May 8<sup>th</sup>, 2023

Chairman Blanchard called to order the Authority meeting scheduled on May 8<sup>th</sup>, 2023, at 9:00 a.m. and welcomed everyone present. The meeting was held at the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina. Director DeVane gave the invocation.

**Roll Call by Chairman Blanchard:**

**Present:** Norwood Blanchard, Patrick DeVane, Wayne Edge, Harry Knight, Jackie Newton, Phil Norris, Scott Phillips, Charlie Rivenbark, Chris Smith, Bill Sue, Frank Williams, and Rob Zapple

**Present by Virtual Attendance:** Al Leonard and Bill Saffo

**Absent:** None

**Staff:** Tim H. Holloman, Executive Director; Tony Boahn P.E., McKim & Creed; Matthew Nichols, General Counsel; Sam Shore, COG; and Danielle Hertzog, Financial Administration Assistant

**Guests Present:** Glenn Walker, Brunswick County Water Resources Manager; Jordan Clark, Computer Warriors; Kenny Keel, Pender County Public Utilities Director; Jess Powell P.E., McKim & Creed; Craig Wilson, Cape Fear Public Utility Authority Engineering Manager; Karen Pallansch, Cross Water Strategies LLC; and John Nichols, Brunswick County Public Utilities Director

**Guests Virtual Attendance:** Tom Hendrick, Pender County Utilities Water Treatment Plant Superintendent; Benjamin Kearns, Cape Fear Public Utility Authority Water Recourses Manager Water Treatment; Frank Styers, Cape Fear Public Utility Authority Linear Assets PM Administration, John Grabartis, Northwest Pipe Company.

**PLEDGE OF ALLEGIANCE:** Chairman Blanchard led the Pledge of Allegiance.

**APPROVAL OF CONSENT AGENDA**

**C1 – Minutes of April 10, 2023, Regular Board Meeting**

**C2 – Minutes of April 10, 2023, Long Range Planning Committee Meeting**

**C3 – Kings Bluff Monthly Operations and Maintenance Report**

**C4 - Bladen Bluffs Monthly Operations and Maintenance Reports**

**C5 - Retainer for General Counsel Services Agreement: Matthew Nichols, Attorney at Law in the amount of \$195 per hour for FY 2023-2024**

**C6 – Line-Item Adjustment for March 31, 2023**

**C7 A – Resolution of Lower Cape Fear Water & Sewer Authority Exempting Lower Cape Fear Water & Sewer Authority from The Provisions of N.C.G.S. §143-64.31 for C7 B**

**C7 B – Retainer for Engineering Services Agreement: McKim & Creed in the amount of \$21,000 for Fiscal Year 2024-2025**

**Motion:** Director Williams **MOVED**; seconded by Director Rivenbark, approval of the Consent Agenda Items C1-C7B as presented. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**PUBLIC HEARING: PRESENTED DRAFT BUDGET FOR THE FISCAL YEAR 2023-2024 BUDGET AND BUDGET ORDINANCE:**

**Motion to open Public Hearing per North Carolina General Statute Section 159-12**

**Motion:** Director Phillips **MOVED**; seconded by Director Edge, to open Public Hearing. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**NEW BUSINESS**

**NB1 – Review of the Fiscal Year 2023-2024 Budget and Budget Ordinance for Consideration of Approval On June 5th, 2023.**

Executive Director Holloman reviewed essential cost items for the FY 2022-2023 draft budget. Our customers have projected to use 9,781,217 gallons of water for an estimated revenue of 3.9 million. Health insurance will be

increasing by 5%. The property and liability insurance expenses will increase by 10%. The state retirement will increase from 12.1% to 12.85. Anti Vortex Equipment for one assembly costs \$50,000 for Kings Bluff Plant. Preliminary engineering and permitting for the fourth pump. No increase in engineering cost for this year for the annual inspection report. We will move \$380,000 to the Renewal and Replacement Fund and \$100,000 to Enterprise Fund to build up the funds. The raw water rate will increase to \$0.40 per 1,000 gallons. The FY 23-24 budget is a 9% increase from the FY22-23 budget due primarily to operating capital expenses and building the R & R Fund.

**NB2 - Consideration of Design Build Team and Award contingent on funding receipt of initial pre-construction costs**

Executive Director Holloman advised LCFWASA to award the design-build contract for the project to the design-build team of Garney Companies, Inc. and McKim & Creed, Inc. The resolution would authorize the director to sign the paperwork, and LCFWASA will have to bill each of our entities for the initial preconstruction cost. Director Zapple would like a copy of the breakdown for the billing of the entities emailed to him and the other directors.

**Motion:** Director Newton **MOVED**; seconded by Director Rivenbark, to approve the resolution for Design-Build Contract Team of Garney Companies, Inc., and McKim & Creed, Inc Upon voting, the **MOTION CARRIED UNANIMOUSLY.**

**NB3 - Draft Master Plan for 25 Year Planning Period FY 2023-2047**

Executive Director Holloman advised the increase is for Bladen Bluff's revenue and expenditures to balance the budget. Tony Boahn presented the current draft Capital Improvement Plan (CIP) from 2023 through 2047, including Kings Bluff Raw Water facilities, and Bladen Bluff water treatment facilities. The CIP had several factors, including category of need, capacity issue, whether it needs to be replaced or rehabilitated, and whether there is a maintenance efficiency or redundancy issue. They assigned each project a criticality score regarding whether it's a high or low priority and also looked at no consequence if no action. There are three primary drivers: demand and capacity, life cycle, redundancy, and resiliency. The criticality is scored one, two, or three. One being the lowest and three being the highest need. The preliminary design memorandum is based on a demand table for projected usage from the different entities, with a future demand of 96 million gallons per day in 2062.

Tony Boahn listed eleven projects for Kings Bluff and seven cost-sharing projects. KB1 New 4th Pump at Kings Bluff has a criticality of three because current pumps will meet projected demands by 2035. The fourth pump will be standby/backup and added to pump rotation to reduce hours per pump. KB2 Rebuild high-service pump motor. Rebuilding of the pumps will extend the service life of the pumps. KB3 New generators have a criticality of three due to the need to upgrade due to the future increased load associated with auxiliary pump motor HP and larger quantities pump. KB4 Pig 48" pipe from Kings Bluff pump station to 3 MG ground tank is critical because pigging will maintain a clean pipeline free of sediment, silt, and debris cleaned. It will also improve the efficiency of pumps by reducing the frictional characteristics of the pipeline. KB5 Pig future 54" pipe from 3MG ground tank to US 421 has a criticality of one sighting, the same reason as pigging the 48" pipeline. KB6 Walkway and air backwash building replacement have a criticality of two because the walkway is in serviceable condition and will need to be replaced by 2024 due to rotting wood and overall weathering. KB7 Replacing raw water pumps 1,4, and 5 has a criticality of three due to age and mechanical wear. This project is more of a placeholder so we can budget and plan for replacement. The pumps have been in operation since 2009. KB8 New surge tank at Kings Bluff has a criticality of two because as the demand increases, surges in the system will likely increase, and this needs to be installed before the fifth pump comes online. KB9 5 ROW acquisitions rated a criticality of two. KB10 48-inch PCCP inspection and pig from the ground tank to US 421. KB11 48-inch PCCP repairs. KB10 and KB11 have been added this year. The cost-share projects now have CS, and the KB has been removed. CS1 Intermediate booster pump station shelter has a criticality of three due to needing to protect existing pumps and equipment from elements. CS2 Intermediate booster pump station upgrade has a criticality of three because US 421 area demands will exceed the current 29MGD capacity in approximately 2037. CS3 New fifth pump at Kings Bluff raw water pump station has a criticality of three because decreasing the load and run times of existing pumps will extend the life and improve all pumps' reliability. CS4 20 MG ground tank has a criticality of two for increasing the available system storage and providing a more consistent supply for the safe and efficient operation of the adjacent interim booster pump station. CS5 7-mile 48-inch Parallel raw water main from the ground tank to US 421. CS6 3-Mile 48-inch parallel raw water main from US 421 to the Cape Fear Public Utilities vault. CS7 100MGD Reservoir has a criticality of one due to the increasing availability of a system for water storage, which allows for temporary redundancy of supply in the case of an emergency (line break, power outage, hurricane).

**Motion:** Director Williams **MOVED**; seconded by Director Knight, to approve Draft Master Plan for 25 Year Planning Period FY 2023-2047. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**NB4 - Budget Amendment #4**

Executive Director Holloman advised that this budget amendment is necessary for preconstruction costs on the raw water pipeline and the rate study.

**Motion:** Director Williams **MOVED**; seconded by Director Newton, to approve Budget Amendment #4. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**ENGINEER’S COMMENTS**

No comments

**ATTORNEY COMMENTS**

No comments

**EXECUTIVE DIRECTOR REPORT**

**EDR1 – Comments on Customers’ Water Usage and Raw Water Revenue for Fiscal Year to Date Ending March 31, 2023**

Executive Director Holloman reported that during April 2023, Brunswick County and Pender County were above projections.

**DIRECTOR’S COMMENTS AND/OR FUTURE AGENDA ITEMS**

No comments

**PUBLIC COMMENT**

No comments

**ADJOURNMENT**

There being no further business, Chairman Blanchard adjourned the meeting at 9:56 a.m.

Respectfully Submitted:

\_\_\_\_\_  
Patrick DeVane Secretary



**Lower Cape Fear Water & Sewer Authority**

Finance Committee Meeting Minutes

May 8<sup>th</sup>, 2023

Chairman Blanchard called to order the Finance Committee Meeting on May 8, 2023, at 8:15 a.m. The meeting was held at the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

**Present:** Norwood Blanchard, Patrick DeVane, Charlie Rivenbark, and Chris Smith

**Absent:** Phil Norris

**Present by Virtual Attendance:** Al Leonard

**Staff:** Tim H. Holloman, Executive Director; Matthew Nichols, General Counsel; Sam Shore, COG; and Danielle Hertzog, Financial Administration Assistant

**Guests Present:** Bill Sue and Jordan Clark, Computer Warriors

**Guests Virtual Attendance:** None

**PowerPoint for Annual Budget Fiscal Year 2023-2024**

Executive Director Holloman reviewed essential cost items for the FY 2023-2024 draft budget. Our customers have projected to use 9,781,217 gallons of water for an estimated revenue of 3.9 million. Health insurance will be increasing by 5% for 952 dollars. The state retirement will increase from 12.1% to 12.85. Anti Vortex Equipment for one assembly costs \$50,000 for Kings Bluff Plant. Preliminary engineering and permitting for the fourth pump. A \$6,000 increase in engineering cost for this year for the annual inspection report and associated items. Based on customer projections and the Planning Document, a 0.04 rate increase is recommended, adding two items to the budget. The FY 2023-2024 budget is a 9% increase from the FY22-23 budget due primarily to operating capital expenses, building the R & R Fund, and Bladen Bluffs' increase in operating cost.

**Motion:** Director DeVane **MOVED**; seconded by Director Rivenbark, to recommend the Fiscal Year 2023-2024 budget to the entire board. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**ADJOURNMENT**

There being no further business, Chairman Blanchard adjourned the meeting at 8:21 a.m.

Respectfully Submitted,

\_\_\_\_\_  
Tim Holloman, Executive Director

*The next Finance Committee Meeting of the Lower Cape Fear Water & Sewer Authority is TBD at the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.*

**COUNTY OF BRUNSWICK**  
**PUBLIC UTILITIES DEPARTMENT**  
**Kings Bluff Pump Station**



246 Private Road  
 Riegelwood, NC 28456  
 (910) 655-4799 Office  
 (910) 655-4798 FAX

**TO:** Tim Holloman

**FROM:** Greg Lazorchak

**DATE:** 6/01/2023

**SUBJECT:** Monthly maintenance report for May 2023

Mr. Holloman,

The Maintenance and Operations of the king's bluff facility for the month of May were performed as prescribed in the station SOP'S and other items are as follows.

The diesel drive booster pumps along with the standby SCADA generator located at the raw tank and the SCADA generator located at INVISTA / CFPUA vaults off HWY 421 were run and tested weekly and verified standby ready.

KB personnel completed all locates issued by the 811 system.

KB personnel assisted Engineering Systems Inc, repairing 10 ton hoist.

KB personnel assisted Sanford Electric with assembly of pump #5.

KB personnel replaced universal joint in L.C.F.03 Dodge.

KB personnel performed monthly operation of generator #1 & #2.

KB personnel assisted Underwood pump in assembly of pump #5.

KB personnel built form at raw tank to pour concrete for platform.

KB personnel repaired a faulty sump pump at N.W.T.P.

KB personnel removed debris at Brunswick County vault.

KB personnel installed backing board and universal strut in preparation for new BGA meter.

**Contractors:**

Engineering Systems Inc.

Underwood pump installed Pump and motor in #5.

Newcombe HVAC repaired unit #1.

Sanford Electric reconnected Pump #5.

Pursuit Cleaning cleaned and buffed floor at office.

Mc Duffie Pest sprayed the office and surrounding area.

Eastern Services did quarterly P.M.'s.

Brunswick County I&E unwired old generator at plant.

LJ's Landscaping cut grass at Kings Bluff pump station.

Thank you,  
 Gregory Lazorchak

# Smithfield®

To: Tim Holloman - LCFWASA

From: James Kern – Bladen Bluffs SWTP ORC

Date: 6/1/23

Subject: May 2023 Operations

During the month of May, Bladen Bluffs SWTP operated a total of 21 days, treating 51.96 million gallons of water.

We used:

39,803 lbs. of aluminum sulfate (Alum)

10,859 lbs. of sodium hydroxide (Caustic)

1,524 lbs. of sodium hypochlorite (3,060 gallons of 6% Chlorine Bleach)

**James Kern**  
**Water Treatment Plant**  
**Supervisor**

(910) 862-3114  
(910) 862-3146  
(910) 733-0016 mobile  
[jkern@smithfield.com](mailto:jkern@smithfield.com)

**Smithfield**  
*Good food. Responsibly.®*

Bladen Bluffs Surface Water Treatment  
Plant  
17014 Highway 87 West  
Tar Heel, NC 28392  
[www.smithfieldfoods.com](http://www.smithfieldfoods.com)

## Monthly Operating Reports (MORs) Summary

(No user data entry – all values are auto-populated.)

<b>Year:</b> <u>2023</u>	<b>PWS Name:</b> <u>Bladen Bluffs Water System</u>	<b>PWSID# :</b> <u>NC5009012</u>
<b>Month:</b> <u>May</u>	<b>Facility Name:</b> <u>Bladen Bluff</u>	

### Combined Filter Effluent (CFE) Turbidity

Samples exceeding 1 NTU (count): <u>0</u>	Number of samples required: <u>113</u>
Samples exceeding .3 NTU (count): <u>0</u>	Number of samples taken: <u>113</u>
Samples exceeding .3 NTU (pct): <u>0.0%</u>	Highest single turbidity reading NTU: <u>0.109</u>
	Monthly average turbidity NTU: <u>0.058</u>

### Individual Filter Effluent (IFE) Turbidity

1) Was each filter <u>continuously</u> monitored for turbidity?	Yes	<u>X</u>	No	
2) Was each filter's monitoring results <u>recorded every 15 minutes</u> ?	Yes	<u>X</u>	No	
3) Was there a failure of the continuous turbidity monitoring equipment?	Yes		No	<u>X</u>
4) Was any individual filter turbidity level > 1.0 NTU in two consecutive measurements ?	Yes		No	<u>X</u>
5) Was any individual filter turbidity level > 0.5 NTU in two consecutive measurements at the end of 4 hours of operation after the filter has been backwashed or otherwise taken offline ?	Yes		No	<u>X</u>
6) Was any individual filter turbidity level > 1.0 NTU in two consecutive measurements in each 3 consecutive months ?	Yes		No	<u>X</u>
7) Was any individual filter turbidity level > 2.0 NTU in two consecutive measurements in 2 consecutive months ?	Yes		No	<u>X</u>

### Entry Point Residual Disinfectant Concentration (EPRD)

Disinfectant Used <u>Chlorine</u>	Number of samples required <u>113</u>
Minimum EPRD concentration <u>0.7100</u>	Number of samples taken <u>113</u>

### Distribution Residual Disinfectant Concentration

Number of samples under 0.010 mg/L (without any detectable) excluding where HPC is ≤ 500/mL	<u>0</u>
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### Contact Time (CT) Ratio

Lowest CT ratio reading <u>9.20</u>	Number of CT ratios required <u>21</u>
Number of CT ratios below 1.0 <u>0</u>	Number of CT ratios calculated <u>21</u>

### Remarks From General Info Worksheet

By checking this box, the ORC certifies that the requirements of 15A NCAC 18C .1301 "General Requirements", .1302 "Tests, Forms, and Reporting", and .1303 "Facility Oversight" have been met for the month of May, 2023 and that records documenting compliance with this rule are maintained on the premises and available for inspection upon request.

## Bladen Bluffs SWTP Maintenance Report

Date: 6/1/2023

### ISSUE:

### PLAN OF ACTION:

Air on finished water line (from GAC)	Installed – closer to solving issue
All PLC need updated	Getting quotes
Found small leak in lagoon liner	Contractor has inspected
Clearwells Inspection	IN PROGRESS
Lost signal to three cameras at river	Fiber installed, Splicing soon
Vault intrusion electrical needs sealed	Quote approved
Replacing all faded ARC Flash/safety outdoor labels	IN PROGRESS
Need new keypad/intercom system front gate	Temp. in place, IN PROGRESS for new
Install lights and camera at river	Quote approved
Few lights out on basin	Renting lift
Air relief valves on finished line	Installed correct valve and made covers
Few railing boards need replacement at river	Have supplies, will complete soon
Two eyewash stations need new check valves	COMPLETE



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# FINAL MASTER PLANNING DOCUMENT

25 Year Planning Period

FY 2022-2047

Updated May 2023

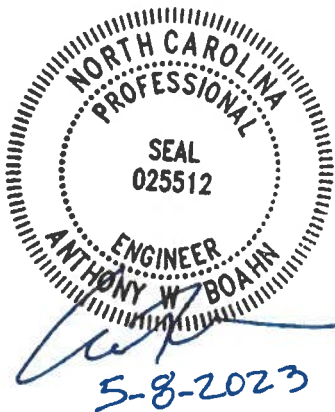
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**Prepared for:**

Lower Cape Fear Water & Sewer Authority  
1107 New Pointe Blvd., Ste. 17  
Leland, NC 28451

**Prepared by:**

McKim & Creed, Inc.  
243 N. Front St.  
Wilmington, NC 28401  
M&C Project No. 01675-0042  
License F-1222



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6. **Appendix**

## Executive Summary

### I. Kings Bluff Raw Water Facilities

The Authority's proposed 25-year (2022-2047) Capital Project budget for the Kings Bluff Raw Water Facilities is estimated at approximately \$149M. This includes a 48-inch parallel raw water main from the existing 3 MG ground tank to the US 421 service area that may be required in the future to meet the capacity needs of the US 421 area customers and CFPUA. The cost of this parallel main is estimated at \$60M and is subject to grant funding.

The following summarizes the primary drivers for the 25-year Capital Improvement Plan:

- Increase overall system capacity via new infrastructure and/or parts to meet long term raw water demands.
- Rehabilitate and replace infrastructure as needed to maintain system functionality of raw water pipeline.
- Plan and design system capacity in order to balance the supply with the demands and meet the needs of any potential customers.
- Design and construct maintenance system for pipeline in order to periodically clean pipeline and maintain station capacity.

The largest capital initiatives (over \$1 M) anticipated over the next twenty-five fiscal years is summarized as follows:

- New generators at King's Bluff Raw Water Pumping Station
- Walkway and Air Backwash Building Replacement
- Pig 48" existing water main from King's Bluff Pumping Station to 3 MG ground tank
- Pig future 54" water main from King's Bluff Pumping Station to 3 MG ground tank
- 20 MG Ground Tank
- 100 MG Reservoir
- Install 4<sup>th</sup> pump at King's Bluff Pumping Station
- Replace existing pumps at King's Bluff Pumping Station
- Install 48" parallel raw water main from 3 MG ground tank to US 421
- Intermediate Booster Pump Station Upgrade
- New 5<sup>th</sup> Pump at King's Bluff Pumping Station

In addition to these large capital initiatives, there are a several projects that are estimated at less than \$1 M, which include:

- Refurbish/rebuild existing pumps
- Installation of a new surge tank at the King's Bluff Pumping Station



- 5 ROW Acquisitions
- Intermediate Booster Pump Station Shelter
- Walkway to access 48" raw water main at Livingston Creek

## II. Bladen Bluffs Regional Surface Water Facility

The Authority's proposed 25-year (2022-2047) Capital Project budget for the Bladen Bluffs Regional Surface Water Facility is estimated at approximately \$7.3M. However, it is noted that Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. All capital improvements and/or maintenance requirements listed in this document are for recommendation only and are the sole responsibility of SFC. LCFWSA would only be responsible for the recommended projects should LCFWSA assume full operation of the facility from SFC.

The following summarizes the primary drivers for the 25-year Capital Improvement Plan:

- Replace aging infrastructure and parts to meet long term demand.
- Plan and design to maintain system capacity to meet current and potential future customer demands

The largest capital initiatives (over \$1 M) anticipated over the next twenty-five fiscal years is summarized as follows:

- New 1 MG Capacity Clearwell
- New High Service Pumping Station

In addition to these large capital initiatives, there are a few projects that are estimated at less than \$1 M, which include:

- Replace Pumps at Raw Water Pumping Station
- Replace Pumps at Recycle Pumping Station
- Replace Pumps at Transfer Pumping Station
- Replace Blower in Blower Building
- Replace On-Site Generators

The proposed CIP budget over the next 25 years has been compiled based on these initiatives. It is recommended that each project be periodically reevaluated, which provides an opportunity to reassess the budget and need for each. This will allow the Authority to adjust priorities and budgets based on meeting customer needs.

### III. Capital Projects Evaluations

Each project identified in the CIP was evaluated for the following factors:

1) **Category of Need**

- Capacity – *the project is needed to either maintain current capacity or increase capacity to meet future need.*
- Renewal/Rehabilitation - *the project is needed to replace or rehabilitate existing infrastructure to maintain capacity and operational readiness.*
- Efficiency- *the project is needed to increase or maintain the efficiency of the facilities and/or to maintain operations.*
- Maintenance – *the project is required for a general maintenance need to maintain equipment and/or facilities in operational condition.*

2) **Criticality Score: 1 (Lowest) to 5 (Highest)**

The criticality score was developed to for each project to provide a summary assessment of impact to operations as a driver for project implementation. Note that criticality levels provided in this document are specific to the fiscal year for which they have been identified.

**Criticality Scoring Scale**

1	2	3
The need for the project is low and does not fundamentally impact operational readiness	The project has a moderate impact on operations and may provide limited improvement to the facilities	The project is of critical need and will greatly impact operations if not completed.

3) **Consequence of No-Action**

In addition to the identification of the category and criticality assessment, a “Consequence of No-Action” statement has been included for each project. The intent of this statement is to clarify the impacts to operations, capacity, facility maintenance, etc. that would result if the project were not implemented.

4) **Project Raw Water Demands**

For capacity related improvements, updated customer projections were taken from the May 2018 Preliminary Design Memorandum for the Lower Cape Fear Water & Sewer Authority Parallel Raw Water Main report. A summary of the projected demands is provided as follows:

## LCFWSA Projected Raw Water Demands

Customer	2015 Demands (MGD)	2025 Demands (MGD)	2035 Demands (MGD)	2045 Demands (MGD)	2055 Demands (MGD)	2062 Demands (MGD)
CFPUA	10.4	13.5	20.5	28.6	34.3	38.2
Brunswick County	19.7	25.1	30.6	36.67	43.89	49.8
US 421 Industries	2.0	2.0	2.0	2.0	2.0	2.0
Pender County	1.1	2.4	4.8	6.0	6.0	6.0
<b>Totals</b>	<b>33.2</b>	<b>43.01</b>	<b>57.9</b>	<b>73.27</b>	<b>87.55</b>	<b>96.0</b>

**Kings Bluff Raw Water Facilities  
Capital Improvements  
LCFWSA Projects  
FY 2022-2047**

**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	New 4 <sup>th</sup> Pump at King's Bluff Raw Water Pump Station	<b>KB 1</b>
<b>CATEGORY:</b>	<b>Capacity/Efficiency</b>	
<p>Summary:</p> <ul style="list-style-type: none"> <li>Provide a fourth raw water pump at King's Bluff Pumping Station to meet projected demands. (See #2 on legend in graphic below) Projected demands will exceed station firm capacity by 2037.</li> </ul>		
<p>Justification:</p> <ul style="list-style-type: none"> <li>Increase station capacity to meet long term raw water demand.</li> <li>Firm capacity of station will require 3 pumps by 2037. Fourth pump will be standby/backup and added to pump rotation to reduce hours per pump.</li> </ul>		
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>The projected demands at the station will exceed the firm capacity and the station will not be able to serve the project customer demand.</li> </ul>		
<p>Criticality:</p>		
1	2	3
DURATION (MONTHS)	24	
REQUIRED COMPLETION	2027	
TOTAL ESTIMATED COST	\$4,600,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE	
2024 - 2025	\$1,000,000	
2025 - 2026	\$2,500,000	
2026 - 2027	\$1,100,000	



**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	Rebuild/Refurbish Existing 1600 HP Vertical Turbine Raw Water Pump	<b>KB 2</b>			
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>Rebuild and/or refurbishment of an existing 1600 HP vertical turbine raw water pump originally installed in 2009.</li> </ul>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>Due to age and mechanical wear, it is anticipated that a rebuilding of one of the raw water pumps will be required.</li> <li>Rebuilding of pumps will extend the service life of the pumps</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>The likelihood of failure of the pumps increases due to age and wear of the existing pump.</li> </ul>					
<p>Criticality:</p> <div style="text-align: right;">▼</div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white; text-align: center;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black; text-align: center;">2</td> <td style="width: 33%; background-color: #F44336; color: white; text-align: center;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	12				
<b>REQUIRED COMPLETION</b>	2036				
<b>TOTAL ESTIMATED COST</b>	\$300,000				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2035 - 2036	\$300,000				



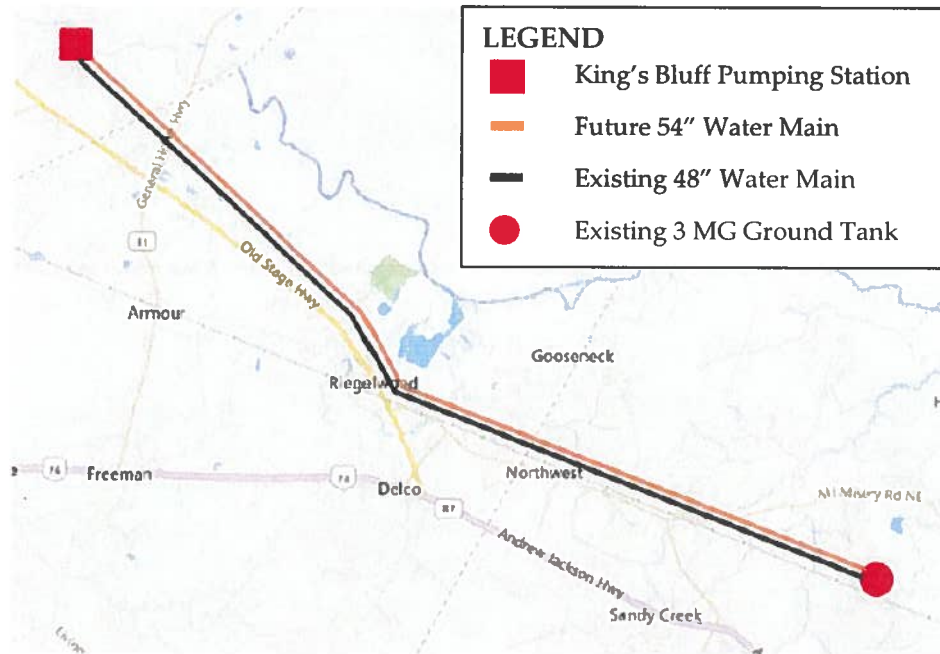
**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	Generators at King's Bluff Raw Water Pump Station	<b>KB 3</b>			
<b>CATEGORY:</b>	<b>Capacity, Efficiency, Maintenance</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>• Provide new standby generator(s) and a new generator building at the pump station.</li> </ul>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>• Requires upgrade due to future increased load associated with additional pump motor HP as well as larger quantity of pumps.</li> <li>• A new building will be needed to house the new generators.</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>• The current generators are undersized to accommodate long term demands.</li> <li>• The existing generators are anticipated to become cost prohibitive to maintain.</li> </ul>					
<p>Criticality:</p> <p style="text-align: center;">▼</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black;">2</td> <td style="width: 33%; background-color: #F44336; color: white;">3</td> </tr> </table>			1	2	3
1	2	3			
DURATION (MONTHS)	24				
REQUIRED COMPLETION	2036				
TOTAL ESTIMATED COST	\$14,200,000				
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE				
2034 - 2035	\$1,500,000				
2035 - 2036	\$12,700,000				



**KING'S BLUFF RAW WATER FACILITIES**

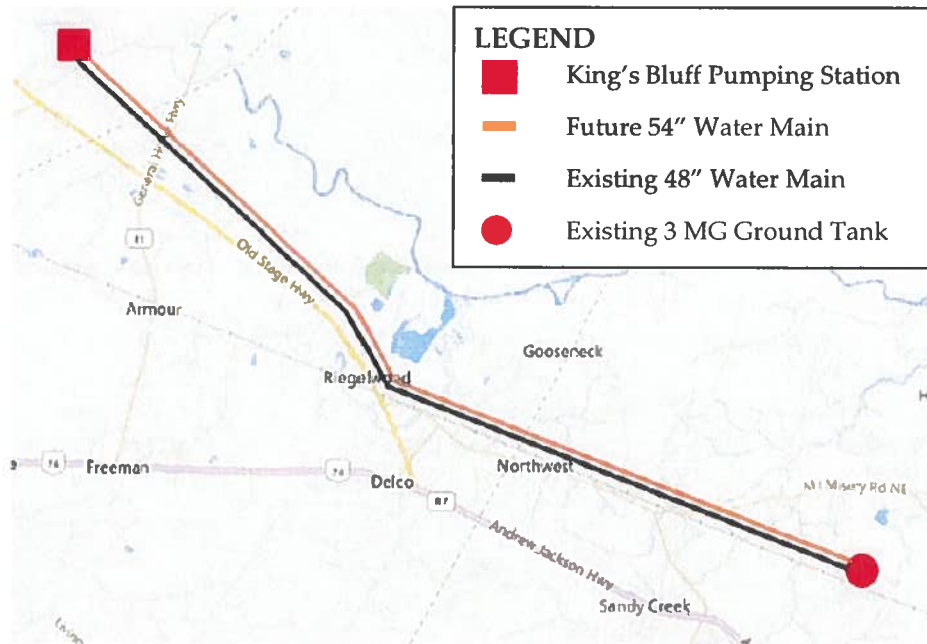
<b>PROJECT TITLE</b>	Pig 48" Pipe from King's Bluff Pump Station to 3 MG Ground Tank	<b>KB 4</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation, Efficiency</b>	
<b>Summary:</b> <ul style="list-style-type: none"> <li>Pig 48" pipeline from King's Bluff to 3 MG ground tank. Repair and/or replace air release valves and blow-offs.</li> </ul>		
<b>Justification:</b> <ul style="list-style-type: none"> <li>Pigging will maintain a clean pipeline free of sediment, silt, and debris cleaned or emptied in the case of an emergency.</li> <li>Improves efficiency of pumps by reducing frictional characteristics of the pipeline</li> </ul>		
<b>Consequence of No Action:</b> <ul style="list-style-type: none"> <li>Potential for loss of capacity and/or clogging due to sediment buildup.</li> <li>Loss of efficiency and higher electrical costs</li> </ul>		
<b>Criticality:</b> ▼		
1	2	3
<b>DURATION (MONTHS)</b>	12	
<b>REQUIRED COMPLETION</b>	2041	
<b>TOTAL ESTIMATED COST</b>	\$1,200,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2040 - 2041	\$1,200,000	





**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	Pig 54" Pipe from 3 MG Ground Tank to US 421	<b>KB 5</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation, Efficiency</b>	
<b>Summary:</b> <ul style="list-style-type: none"> <li>Pig 54" pipeline from King's Bluff to 3 MG ground tank. Repair and/or replace air release valves and blow-offs.</li> </ul>		
<b>Justification:</b> <ul style="list-style-type: none"> <li>Pigging will maintain a clean pipeline free of sediment, silt, and debris cleaned or emptied in the case of an emergency.</li> <li>Improves efficiency of pumps by reducing frictional characteristics of the pipeline</li> </ul>		
<b>Consequence of No Action:</b> <ul style="list-style-type: none"> <li>Potential for loss of capacity and/or clogging due to sediment buildup.</li> <li>Loss of efficiency and higher electrical costs</li> </ul>		
<b>Criticality:</b>		
▼		
<div style="display: flex; justify-content: space-around;"> <div style="width: 30%; background-color: #4CAF50; text-align: center; color: white;">1</div> <div style="width: 35%; background-color: #FFEB3B; text-align: center; color: black;">2</div> <div style="width: 35%; background-color: #F44336; text-align: center; color: white;">3</div> </div>		
<b>DURATION (MONTHS)</b>	12	
<b>REQUIRED COMPLETION</b>	2040	
<b>TOTAL ESTIMATED COST</b>	\$1,200,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2034 - 2035	\$1,200,000	



**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	Walkway and Air Backwash Building Replacement	<b>KB 6</b>			
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation/Maintenance</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>Funding for replacement of existing walkway from the King's Bluff Pumping Station to the Air Backwash buildings with a new concrete walkway.</li> <li>Upgrade/replace existing air backwash building. (See number 1 on legend below).</li> </ul>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>Walkway going from pumping station to air backwash buildings is currently in serviceable condition and will need to be replaced by 2024 due to rotting wood and overall weathering of walkway.</li> <li>During Hurricane Florence the walkway was nearing submergence</li> <li>Existing, original air backwash building needs significant improvements due to a loss of structural integrity caused by the general degradation of original building materials.</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>Deterioration of the walkway could limit access to the air backwash buildings and raw water intakes.</li> <li>The air backwash facility will continue to deteriorate and create potential issues with protection of equipment and access for operations and maintenance.</li> </ul>					
<p>Criticality:</p> <p style="text-align: center;">▼</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black;">2</td> <td style="width: 33%; background-color: #F44336; color: white;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	12				
<b>REQUIRED COMPLETION</b>	2026				
<b>TOTAL ESTIMATED COST</b>	\$2,250,000				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2024 - 2025	\$250,000				
2025 - 2026	\$2,000,000				



**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	Replace Raw Water Pumps 1, 4, 5	<b>KB 7</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation</b>	
Summary: <ul style="list-style-type: none"> <li>Replace 1600 HP vertical turbine raw water pumps 1, 4, 5 originally installed in 2009.</li> </ul>		
Justification: <ul style="list-style-type: none"> <li>Due to age and mechanical wear, it is anticipated that replacement of raw water pumps 1, 4, and 5 will be required.</li> </ul>		
Consequence of No Action: <ul style="list-style-type: none"> <li>The likelihood of failure of the pumps increases due to age and wear of the existing pump. The service life of the existing pumps will be expended.</li> </ul>		
Criticality: <div style="text-align: right;">▼</div>		
<b>1</b>	<b>2</b>	<b>3</b>
<b>DURATION (MONTHS)</b>	36	
<b>REQUIRED COMPLETION</b>	2030, 2035, 2038	
<b>TOTAL ESTIMATED COST</b>	\$10,800,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2029 - 2030	\$3,600,000	
2034 - 2035	\$3,600,000	
2037 - 2038	\$3,600,000	



**KING'S BLUFF RAW WATER FACILITIES**

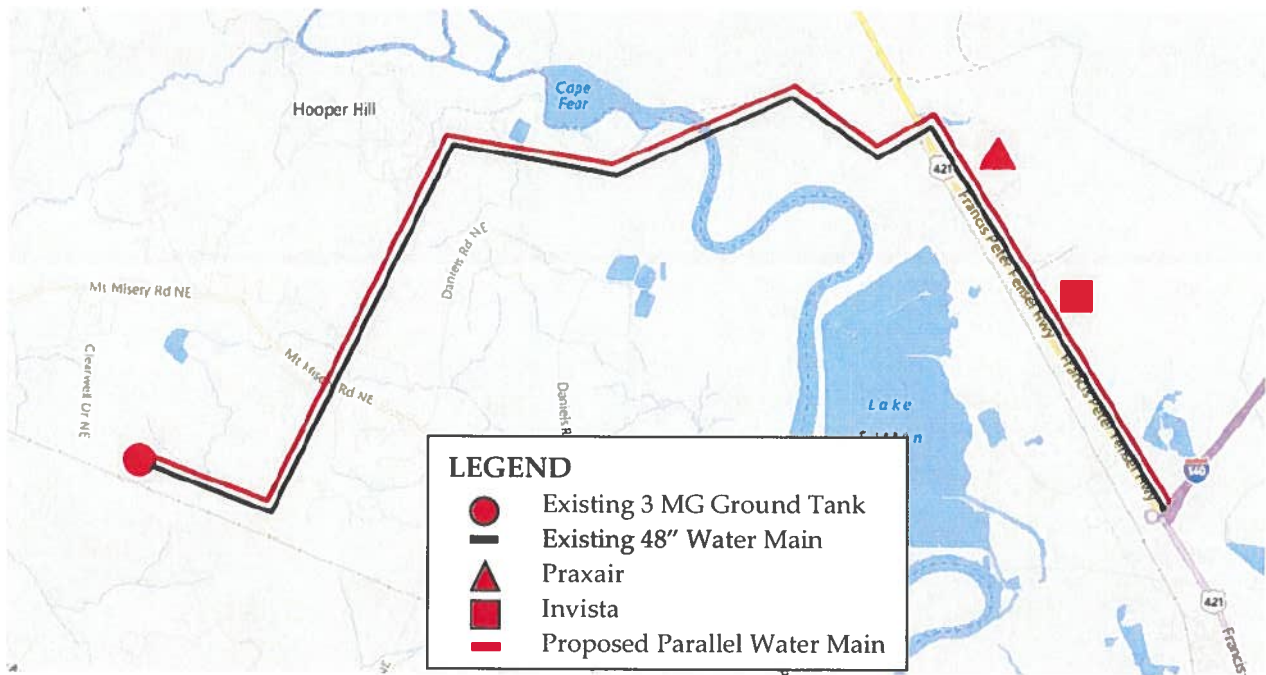
<b>PROJECT TITLE</b>	New Surge Tank at King's Bluff	KB 8
<b>CATEGORY:</b>	<b>Capacity</b>	
Summary: <ul style="list-style-type: none"> <li>Addition of a 4<sup>th</sup> surge tank at King's Bluff Pumping Station</li> </ul>		
Justification: <ul style="list-style-type: none"> <li>As demand increases, surges in the system will likely increase. The 4<sup>th</sup> surge tank will serve to mitigate system surges and protect the pumps, piping and miscellaneous equipment from surges and water hammer.</li> </ul>		
Consequence of No Action: <ul style="list-style-type: none"> <li>Existing pump station and piping infrastructure would be put at risk for damage due to system surges and could potentially create failures in the pipeline.</li> </ul>		
Criticality: <p style="text-align: center;">▼</p>		
1	2	3
DURATION (MONTHS)	12	
REQUIRED COMPLETION	2044	
TOTAL ESTIMATED COST	\$650,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE	
2043 - 2044	\$650,000	



LEGEND	
1	Air Backwash Building
2	Kings Bluff Pump Station
3	Generator Building
4	Lock and Dam No. 1

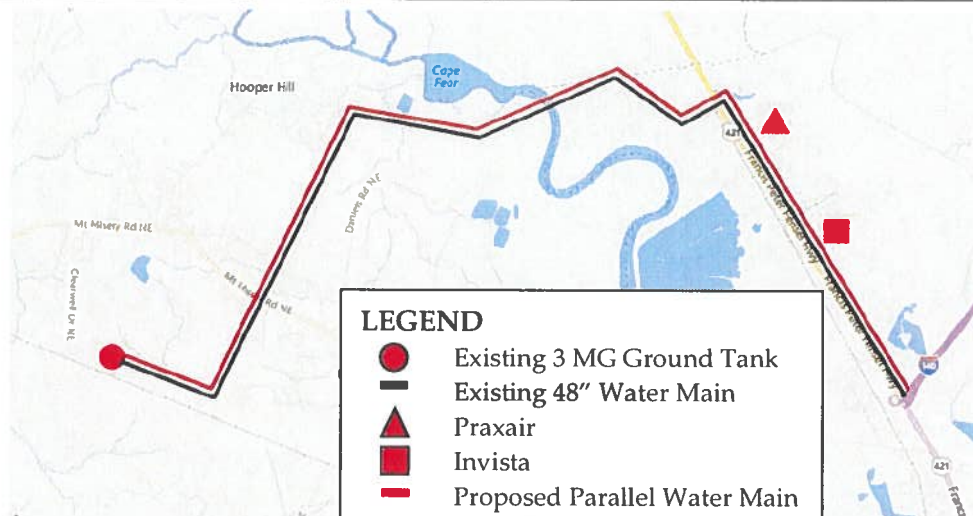
**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	5 ROW Acquisitions	KB 9
<b>CATEGORY:</b>	<b>Capacity</b>	
<b>Summary:</b>	<ul style="list-style-type: none"> <li>Right-of-Way acquisitions along the existing 48" Raw Water Main from the 3 MGD ground tank to the US421 service area.</li> </ul>	
<b>Justification:</b>	<ul style="list-style-type: none"> <li>Required to install the proposed 48" parallel raw water main</li> </ul>	
<b>Consequence of No Action:</b>	<ul style="list-style-type: none"> <li>Future supply to the US421 service area will be limited to the capacity of the existing 48" main.</li> </ul>	
<b>Criticality:</b>	▼	
	1	2
<b>DURATION (MONTHS)</b>	36	
<b>REQUIRED COMPLETION</b>	2026	
<b>TOTAL ESTIMATED COST</b>	\$330,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2023 - 2024	\$110,000	
2024 - 2025	\$110,000	
2025 - 2026	\$110,000	




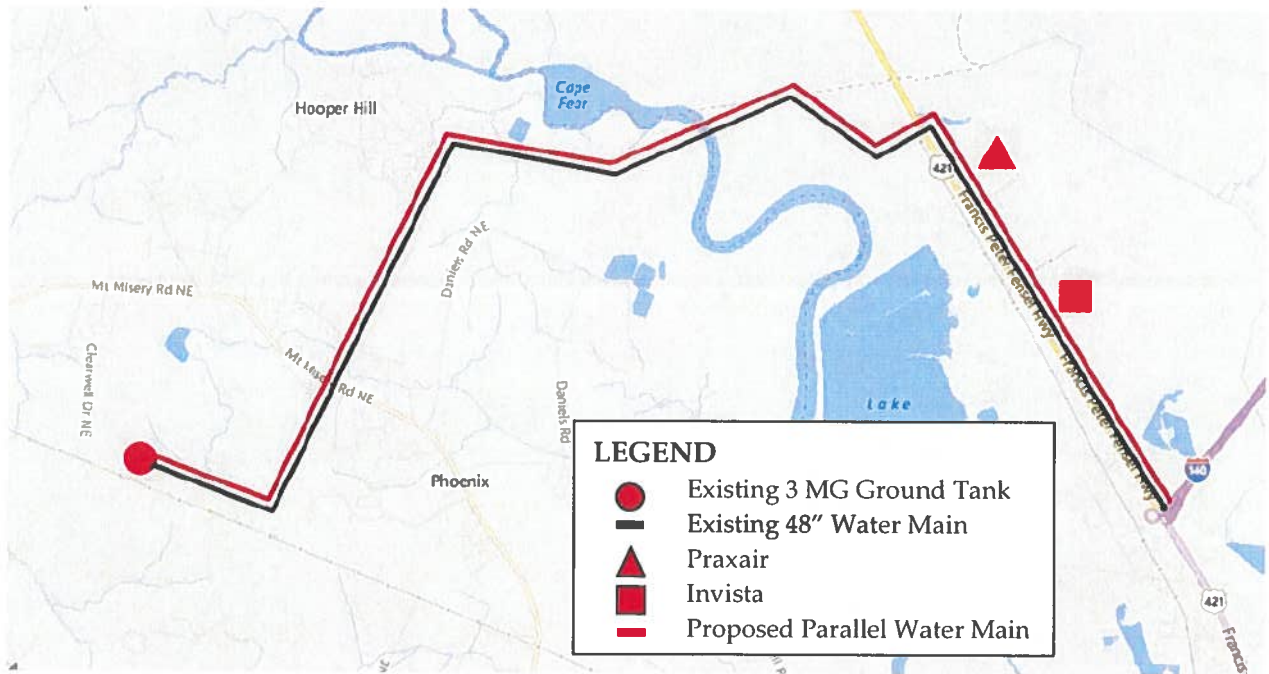
**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	48-Inch PCCP Inspection and Pig-Ground Tank to US-421	<b>KB 10</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation, Efficiency</b>	
<p>Summary:</p> <ul style="list-style-type: none"> <li>• Pig 48" pipeline from 3 MG ground tank to CFPUA's Water Treatment Plant including installation of pig launcher/retrieval system. Repair and/or replace air release valves and blow-offs.</li> <li>• Inspection to existing 48-inch PCCP pipe from the existing 3 MG ground tank to US-421.</li> </ul>		
<p>Justification:</p> <ul style="list-style-type: none"> <li>• Pipe and appurtenances require routine inspection, maintenance, and repairs.</li> <li>• Recent evaluation indicated build -up of sediment in the 48" line. Pigging will maintain a clean pipeline free of sediment, silt, and debris.</li> <li>• Improves efficiency of pumps by reducing frictional characteristics of the pipeline</li> </ul>		
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>• Current loss of capacity and/or clogging due to sediment buildup.</li> <li>• Loss of efficiency and higher electrical costs</li> </ul>		
<p>Criticality:</p> <p style="text-align: center;">▼</p> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="width: 33%; background-color: #4CAF50; color: white; text-align: center; padding: 5px;"><b>1</b></div> <div style="width: 33%; background-color: #FFEB3B; color: black; text-align: center; padding: 5px;"><b>2</b></div> <div style="width: 33%; background-color: #F44336; color: white; text-align: center; padding: 5px;"><b>3</b></div> </div>		
<b>DURATION (MONTHS)</b>	15	
<b>REQUIRED COMPLETION</b>	2027	
<b>TOTAL ESTIMATED COST</b>	\$2,475,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2025 - 2026	\$2,300,000	
2026 - 2027	\$175,000	



**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	48-Inch PCCP Repairs	<b>KB 11</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation/Maintenance</b>	
<b>Summary:</b> <ul style="list-style-type: none"> <li>Repair existing 48" raw water main based on findings from KB 11 – 48-Inch PCCP Inspection from the 3 MG ground tank to US-421</li> </ul>		
<b>Justification:</b> <ul style="list-style-type: none"> <li>Pipe requires routine maintenance, inspection, and repairs.</li> </ul>		
<b>Consequence of No Action:</b> <ul style="list-style-type: none"> <li>Increased risk for pipeline break.</li> </ul>		
<b>Criticality:</b> 		
<b>DURATION (MONTHS)</b>	12	
<b>REQUIRED COMPLETION</b>	2026	
<b>TOTAL ESTIMATED COST</b>	\$300,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2025 - 2026	\$300,000	



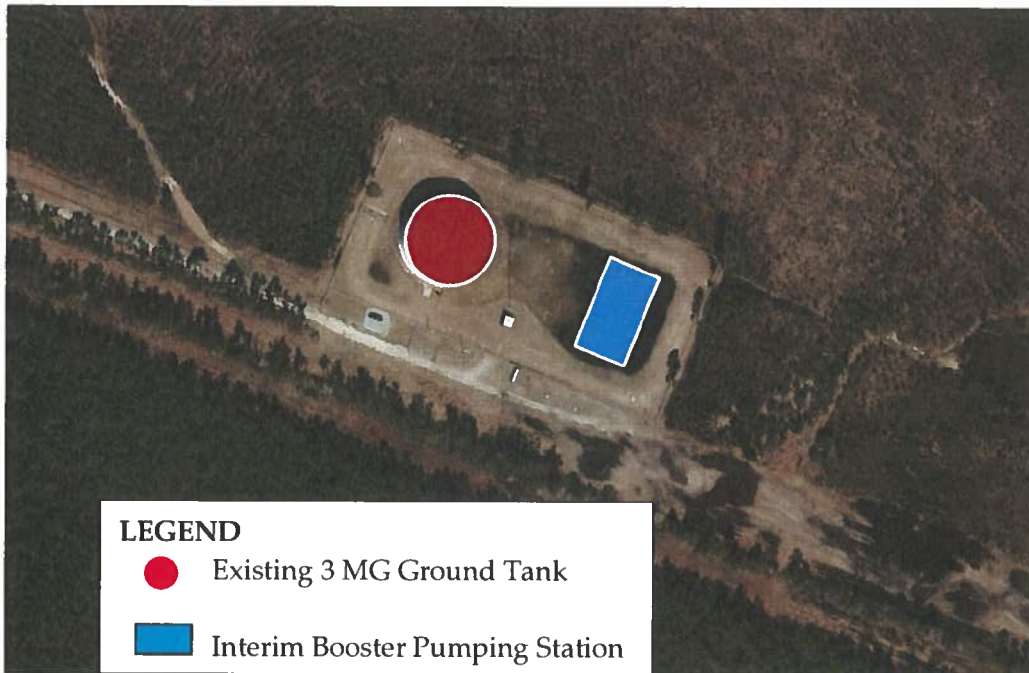
**KING'S BLUFF RAW WATER FACILITIES**

**Kings Bluff Raw Water Facilities  
Capital Improvements  
Cost Sharing Projects  
FY 2022-2047**



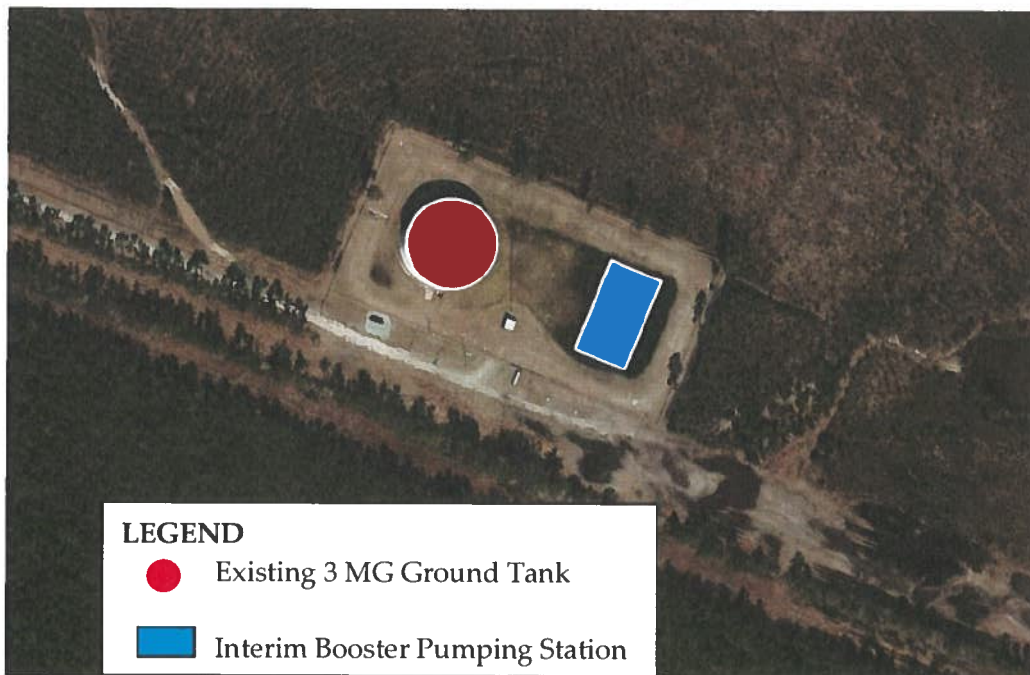
**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	Intermediate Booster Pump Station Shelter	CS 1
<b>CATEGORY:</b>	<b>Maintenance/Efficiency</b>	
Summary: <ul style="list-style-type: none"> <li>Addition of protective shelter at the Intermediate Booster PS</li> </ul>		
Justification: <ul style="list-style-type: none"> <li>Required to protect existing pumps, equipment, gear from elements</li> <li>Provides improved maintenance access during inclement weather</li> </ul>		
Consequence of No Action: <ul style="list-style-type: none"> <li>Equipment potentially suffers degradation due to exposure to the elements to include freezing conditions, and sun damage.</li> </ul>		
Criticality: <div style="text-align: right;">▼</div>		
<div style="display: flex; justify-content: space-around;"> <span style="background-color: #4CAF50; padding: 5px;">1</span> <span style="background-color: #FFEB3B; padding: 5px;">2</span> <span style="background-color: #F44336; padding: 5px;">3</span> </div>		
DURATION (MONTHS)	12	
REQUIRED COMPLETION	2026	
TOTAL ESTIMATED COST	\$850,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE	
2025 - 2026	\$850,000	



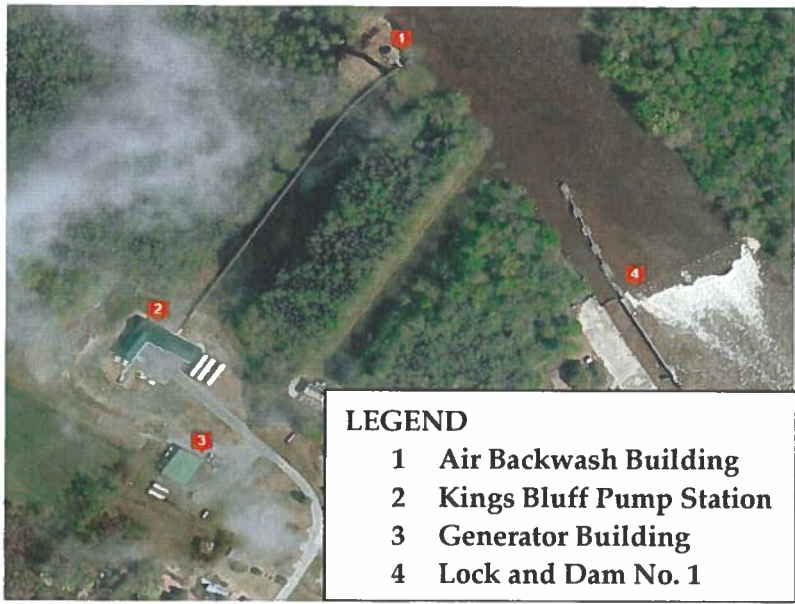
**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	Intermediate Booster Pump Station Upgrade	CS 2
<b>CATEGORY:</b>	<b>Capacity</b>	
<p>Summary:</p> <ul style="list-style-type: none"> <li>Infrastructure upgrades to the existing booster pump station. Diesel pumps to be replaced with new, larger capacity pumps.</li> </ul>		
<p>Justification:</p> <ul style="list-style-type: none"> <li>US 421 area demands will exceed the current 29 MGD capacity in approximately 2037.</li> <li>Recommend upgrade to 37 MGD capacity.</li> </ul>		
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>Booster Pump Station will not be able to fully serve the projected demands and system pressure for the US 421 area.</li> </ul>		
<p>Criticality:</p> <div style="text-align: right;">▼</div>		
<b>1</b>	<b>2</b>	<b>3</b>
DURATION (MONTHS)	24	
REQUIRED COMPLETION	2035	
TOTAL ESTIMATED COST	\$8,600,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE	
2033 - 2034	\$1,100,000	
2034 - 2035	\$7,500,000	



**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	New 5 <sup>th</sup> Pump at King's Bluff Raw Water Pump Station	CS 3			
<b>CATEGORY:</b>	<b>Capacity</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>Provide a fifth raw water pump at King's Bluff Pumping Station to meet projected demands. (See #2 on legend in graphic below) Projected demands will exceed station firm capacity by 2062</li> </ul>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>Decrease load and run times on existing pumps to extend life and improve reliability.</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>The projected demands at the station will exceed the firm capacity and the station will not be able to serve the project customer demand.</li> </ul>					
<p>Criticality:</p> <div style="text-align: right;">▼</div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white; text-align: center;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black; text-align: center;">2</td> <td style="width: 33%; background-color: #F44336; color: white; text-align: center;">3</td> </tr> </table>			1	2	3
1	2	3			
DURATION (MONTHS)	24				
REQUIRED COMPLETION	2046				
TOTAL ESTIMATED COST	\$4,600,000				
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE				
2044 - 2045	\$1,000,000				
2045 - 2046	\$2,500,000				
2046 - 2047	\$1,100,000				

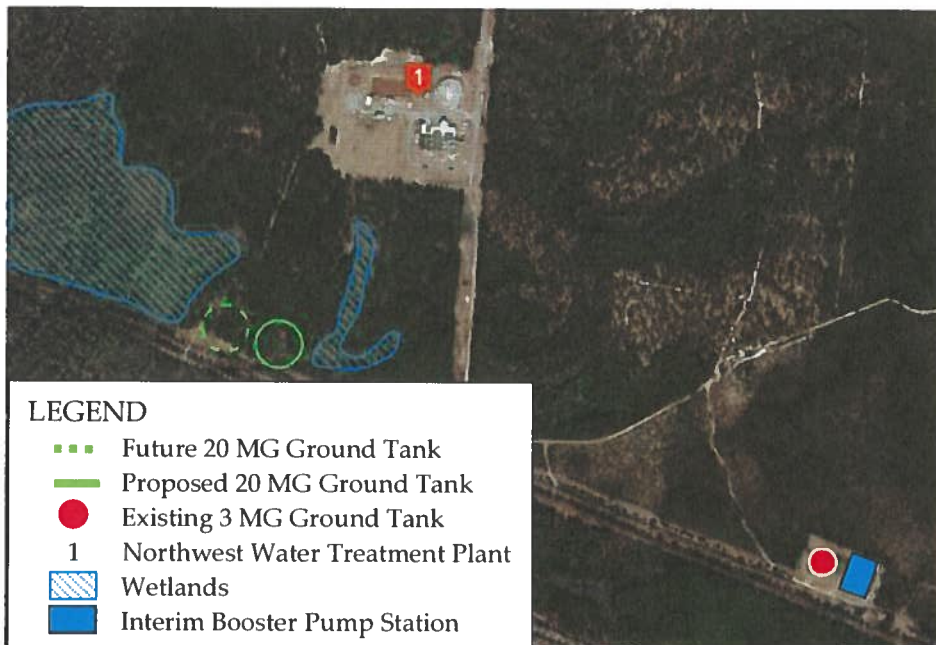


**LEGEND**

- 1 Air Backwash Building
- 2 Kings Bluff Pump Station
- 3 Generator Building
- 4 Lock and Dam No. 1

**KING'S BLUFF RAW WATER FACILITIES**

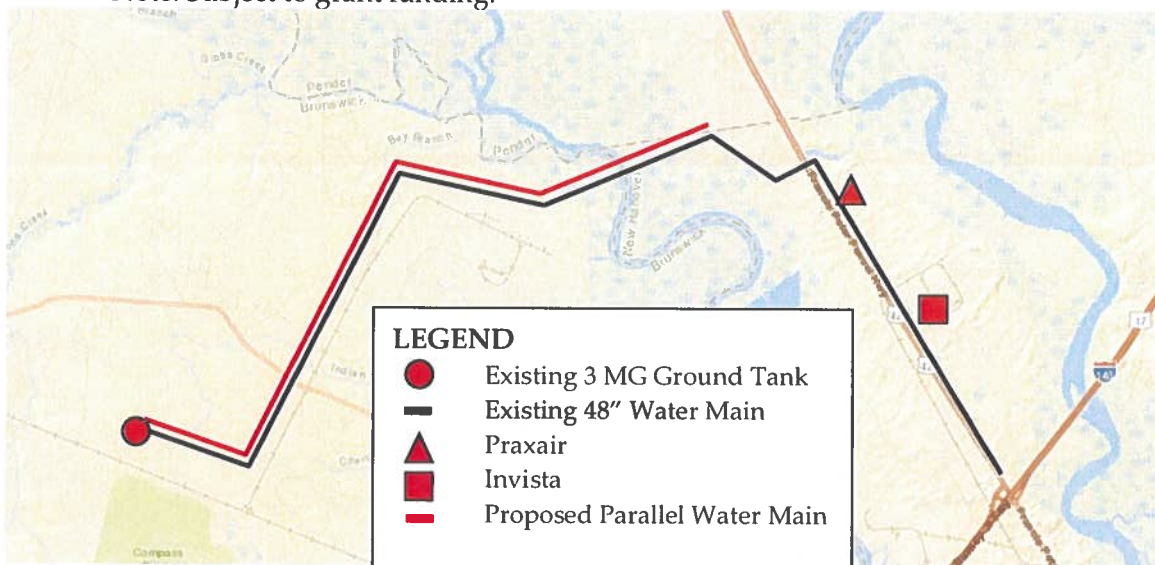
<b>PROJECT TITLE</b>	20 MG Ground Tank	CS 4			
<b>CATEGORY:</b>	<b>Capacity/Efficiency</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>Design &amp; construction of a new 20 MG ground tank in close proximity to the existing 3 MG ground tank with sufficient acreage to construct a future 20 MG ground tank.</li> </ul>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>Increase in available system storage.</li> <li>Provide a more consistent supply for safe and efficient operation of the adjacent interim booster pump station.</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>Minimal system storage as system demands continue to increase</li> <li>Increased cycling of pumps at the intermediate booster pump station.</li> </ul>					
<p>Criticality:</p> <p style="text-align: center;">▼</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black;">2</td> <td style="width: 33%; background-color: #F44336; color: white;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	24				
<b>REQUIRED COMPLETION</b>	2038				
<b>TOTAL ESTIMATED COST</b>	\$ 14,800,000				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2036 - 2037	\$3,500,000				
2037 - 2038	\$11,300,000				



**KING'S BLUFF RAW WATER FACILITIES**

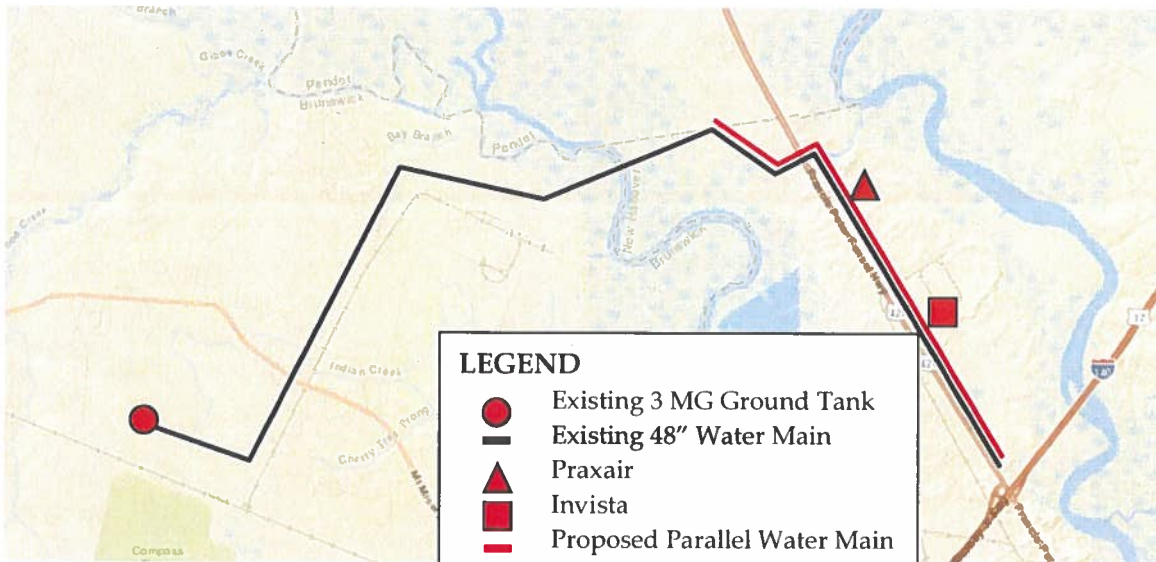
<b>PROJECT TITLE</b>	7-Mile Parallel Raw Water Main from 3 MG Ground Tank to Pender Vault	CS 5			
<b>CATEGORY:</b>	<b>Capacity</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>Design and construction of approximately 7-miles of 48-inch raw water main from 3 MG ground tank to Pender County vault. Pipe would parallel the existing 48-inch raw water main in this area.</li> </ul>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>Provides additional system capacity.</li> <li>Reduces reliance on intermediate booster pump station.</li> <li>Improves reliability with a parallel main to serve major customers.</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>The system may not have the capability to meet long-term customer demands.</li> <li>The existing 48-inch main is a single point of failure from the 3 MGD ground tank to the Pender County vault.</li> </ul>					
<p>Criticality:</p> <p style="text-align: center;">▼</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black;">2</td> <td style="width: 33%; background-color: #F44336; color: white;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	36				
<b>REQUIRED COMPLETION</b>	2027				
<b>TOTAL ESTIMATED COST</b>	\$35,700,000*				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2024 - 2025	\$15,000,000				
2025 - 2026	\$15,000,000				
2026 - 2027	\$15,700,000				

\*Note: Subject to grant funding.



**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	3-Mile Parallel Raw Water Main from 3 MG Pender Vault to CFPUA Vault	<b>CS 6</b>			
<b>CATEGORY:</b>	<b>Capacity</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>Design and construction of approximately 3-miles of 48-inch raw water main from the Pender County vault to the CFPUA vault. Pipe would parallel the existing 48-inch raw water main in this area.</li> </ul>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>Provides additional system capacity.</li> <li>Reduces reliance on intermediate booster pump station.</li> <li>Improves reliability with a parallel main to serve major customers.</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>The system may not have the capability to meet long-term customer demands.</li> <li>The existing 48-inch main is a single point of failure from the 3 MGD ground tank to the US 421 service area.</li> </ul>					
<p>Criticality:</p> <p style="text-align: center;">▼</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black;">2</td> <td style="width: 33%; background-color: #F44336; color: white;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	24				
<b>REQUIRED COMPLETION</b>	2029				
<b>TOTAL ESTIMATED COST</b>	\$24,300,000				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2027 - 2028	\$10,000,000				
2028 - 2029	\$14,300,000				



**KING'S BLUFF RAW WATER FACILITIES**

<b>PROJECT TITLE</b>	100 MGD Reservoir	CS 7
<b>CATEGORY:</b>	<b>Efficiency</b>	
<p>Summary:</p> <ul style="list-style-type: none"> <li>Design &amp; construction of a new 100 MG reservoir. Optimal location and operation of the reservoir to be determined by future engineering study.</li> </ul>		
<p>Justification:</p> <ul style="list-style-type: none"> <li>Increase in available system storage.</li> <li>Allows for temporary redundancy of supply in the case of an emergency (line break, power outage, etc.).</li> </ul>		
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>Minimal system storage as system demands continue to increase.</li> <li>Loss of regular supply under emergency conditions.</li> </ul>		
<p>Criticality:</p> <p style="text-align: center;">▼</p>		
1	2	3
<b>DURATION (MONTHS)</b>	24	
<b>REQUIRED COMPLETION</b>	2033	
<b>TOTAL ESTIMATED COST</b>	\$40,000,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2031 - 2032	\$6,000,000	
2032 - 2033	\$34,000,000	



KING'S BLUFF RAW WATER FACILITIES

Annual Fiscal Year Budget Breakdown – Capital Projects (In Millions of Dollars)

Project No.	Description	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	FY 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	FY 2043	FY 2044	FY 2045	FY 2046	FY 2047	Totals
KB1	New 4th Pump at King's Bluff (KBPS)			\$1.00	\$2.50	\$1.10																						\$4.60
KB2	Rebuild High Service Pump Motor														\$0.30													\$0.30
KB3	New Generators																											\$14.20
KB4	Pig 48" Water Main (KBPS to 3 MG Tank)													\$1.50						\$1.20								\$1.20
KB5	Pig 54" Water Main													\$1.20														\$1.20
KB6	Walkway and Air Backwash Building Replacement			\$0.25	\$2.00																							\$2.25
KB7	Replace Raw Water Pumps 1, 4, 5						\$3.60							\$3.60			\$3.60											\$10.80
KB8	New Surge Tank at KBPS																						\$0.65					\$0.65
KB9	5 ROW Acquisitions		\$0.11	\$0.11	\$0.11																							\$0.33
KB10	48-Inch PCCP Inspection and Pig – Ground Tank to US 421			\$2.30	\$0.175																							\$2.475
KB11	48-Inch PCCP Repairs			\$0.30																								\$0.30

Cost Sharing Projects

CS1	Intermediate Booster Pump Station Shelter			\$0.85																									\$0.85
CS2	Intermediate Booster Pump Station Upgrade					\$1.10	\$7.50																						\$8.60
CS3	New 5th Pump at King's Bluff																						\$1.00	\$2.50	\$1.10			\$4.60	
CS4	20 MG Ground Tank														\$3.50	\$11.30												\$14.80	
CS5	7-Mile 48" Parallel Raw Water Main			\$15.00	\$15.00	\$15.07																						\$45.70	
CS6	3-Mile 48" Parallel Raw Water Main					\$10.00	\$14.30																					\$24.30	
CS7	100 MGD Reservoir									\$6.00	\$34.00																	\$40.00	
<b>Total Fiscal Year Expenditure</b>			\$0.11	\$16.36	\$23.06	\$16.98	\$10.00	\$14.30	\$3.60	\$0.00	\$6.00	\$34.00	\$1.10	\$13.80	\$13.00	\$3.50	\$14.90	\$0.00	\$0.00	\$1.20	\$0.00	\$0.00	\$0.65	\$1.00	\$2.50	\$1.10	\$0.00	\$177.16	

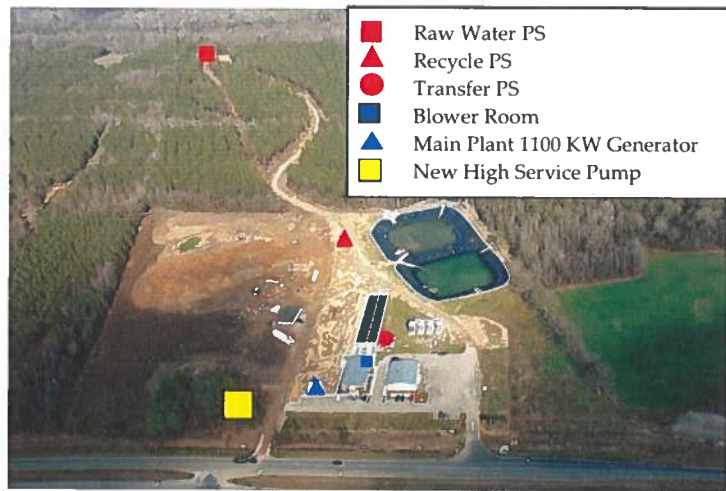


BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY

**Bladen Bluffs Regional  
Surface Water Treatment Facility  
Capital Improvements Projects  
FY 2022-2047**

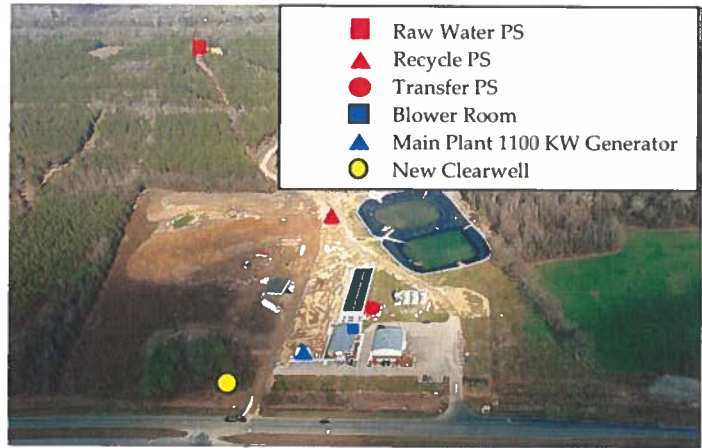
**BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY**

<b>PROJECT TITLE</b>	New High Service Pump Station	BB 1			
<b>CATEGORY:</b>	<b>Capacity</b>				
<p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Construct a new high service pumping station to increase capacity.</li> </ul> <p><i>Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.</i></p>					
<p><b>Justification:</b></p> <ul style="list-style-type: none"> <li>Required to serve new customers.</li> <li>Construction of new high service pump station would only be required when additional customers are identified to be served by the Bladen Bluffs Regional Surface Water Treatment Facility.</li> </ul>					
<p><b>Consequence of No Action:</b></p> <ul style="list-style-type: none"> <li>The system will not have the required capacity to meet new customer demands.</li> </ul>					
<p><b>Criticality:</b></p> <p style="text-align: center;">▼</p>					
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white; text-align: center;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black; text-align: center;">2</td> <td style="width: 33%; background-color: #F44336; color: white; text-align: center;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	24				
<b>REQUIRED COMPLETION</b>	2029				
<b>TOTAL ESTIMATED COST</b>	\$4,200,000				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2028	\$600,000				
2029	\$2,400,000				



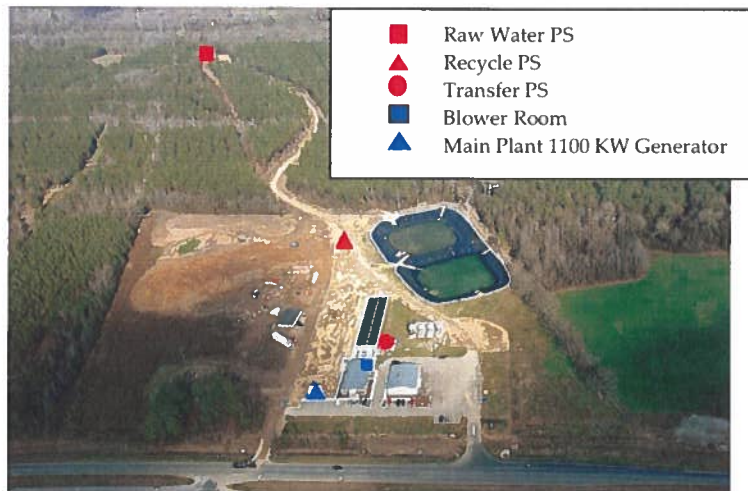
**BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY**

<b>PROJECT TITLE</b>	Construct New 1 MG Capacity Clearwell	<b>BB 2</b>
<b>CATEGORY:</b>	<b>Capacity</b>	
<p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Construct clearwell to meet future customer finished water storage capacity.</li> </ul> <p><i>Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.</i></p>		
<p><b>Justification:</b></p> <ul style="list-style-type: none"> <li>Required to serve new customers.</li> <li>Clearwell would only be required when additional customers are identified to be served by the Bladen Bluffs Regional Surface Water Treatment Facility.</li> </ul>		
<p><b>Consequence of No Action:</b></p> <ul style="list-style-type: none"> <li>The system will not have the required capacity to meet new customer demands.</li> </ul>		
<p><b>Criticality:</b></p> <p style="text-align: center;">▼</p> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="width: 33%; background-color: #4CAF50; text-align: center; color: white; padding: 5px;"><b>1</b></div> <div style="width: 33%; background-color: #FFEB3B; text-align: center; color: black; padding: 5px;"><b>2</b></div> <div style="width: 33%; background-color: #F44336; text-align: center; color: white; padding: 5px;"><b>3</b></div> </div>		
<b>DURATION (MONTHS)</b>	24	
<b>REQUIRED COMPLETION</b>	2029	
<b>TOTAL ESTIMATED COST</b>	\$3,000,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2028	\$600,000	
2029	\$2,400,000	



**BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY**

<b>PROJECT TITLE</b>	Replace Three (3) Pumps at the Raw Water Pump Station	<b>BB 3</b>			
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation</b>				
<p>Summary:</p> <ul style="list-style-type: none"> <li>Routine replacement of three (3) aging pumps at Raw Water Pumping Station.</li> </ul> <p><i>Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.</i></p>					
<p>Justification:</p> <ul style="list-style-type: none"> <li>Pumps will be approximately 20 years old by 2032 and approaching end of useful service life.</li> </ul>					
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>The likelihood of failure of the pumps increases due to age and wear of the existing pump.</li> </ul>					
<p>Criticality:</p> <p style="text-align: center;">▼</p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black;">2</td> <td style="width: 33%; background-color: #F44336; color: white;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	12				
<b>REQUIRED COMPLETION</b>	2032				
<b>TOTAL ESTIMATED COST</b>	\$300,000				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2032	\$300,000				



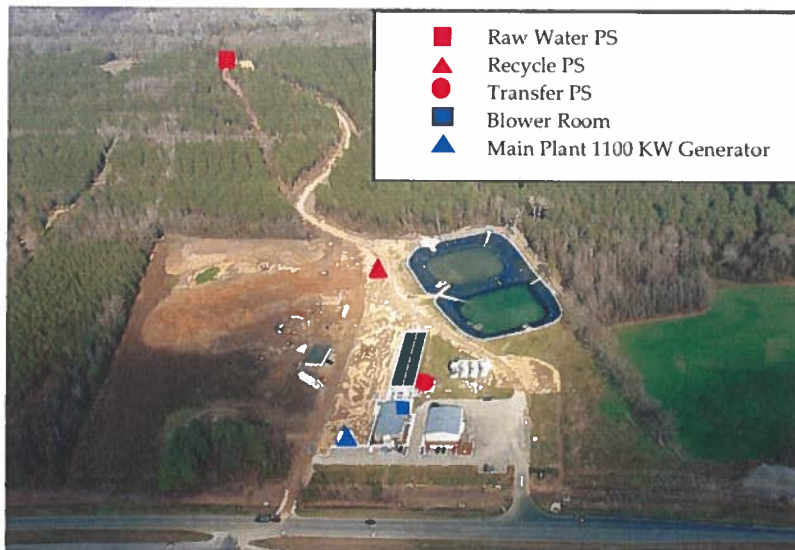
**BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY**

<b>PROJECT TITLE</b>	Replace Blower in the Blower Building	<b>BB 4</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation</b>	
<p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Routine replacement of aging blower in blower building.</li> </ul> <p><i>Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.</i></p>		
<p><b>Justification:</b></p> <ul style="list-style-type: none"> <li>Blower will be approximately 25 years old by 2032 and approaching end of useful service life.</li> </ul>		
<p><b>Consequence of No Action:</b></p> <ul style="list-style-type: none"> <li>The likelihood of failure of the blower increases due to age and wear of the existing blower.</li> </ul>		
<p><b>Criticality:</b></p> <p style="text-align: center;">▼</p> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="width: 33%; background-color: #4CAF50; color: white; text-align: center; padding: 5px;"><b>1</b></div> <div style="width: 33%; background-color: #FFEB3B; color: black; text-align: center; padding: 5px;"><b>2</b></div> <div style="width: 33%; background-color: #F44336; color: white; text-align: center; padding: 5px;"><b>3</b></div> </div>		
<b>DURATION (MONTHS)</b>	12	
<b>REQUIRED COMPLETION</b>	2032	
<b>TOTAL ESTIMATED COST</b>	\$120,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2032	\$120,000	



**BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY**

<b>PROJECT TITLE</b>	Replace Three (3) Pumps at the Recycle Pump Station	<b>BB 5</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation</b>	
<p>Summary:</p> <ul style="list-style-type: none"> <li>Routine replacement of three (3) aging pumps at the Recycle Pumping Station.</li> </ul> <p><i>Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.</i></p>		
<p>Justification:</p> <ul style="list-style-type: none"> <li>Pumps will be approximately 20 years old by 2032 and approaching end of useful service life.</li> </ul>		
<p>Consequence of No Action:</p> <ul style="list-style-type: none"> <li>The likelihood of failure of the pumps increases due to age and wear of the existing pump.</li> </ul>		
<p>Criticality:</p> <p style="text-align: center;">▼</p> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="width: 33%; background-color: #4CAF50; text-align: center; color: white; padding: 5px;"><b>1</b></div> <div style="width: 33%; background-color: #FFEB3B; text-align: center; color: black; padding: 5px;"><b>2</b></div> <div style="width: 33%; background-color: #F44336; text-align: center; color: white; padding: 5px;"><b>3</b></div> </div>		
DURATION (MONTHS)	12	
REQUIRED COMPLETION	2032	
TOTAL ESTIMATED COST	\$180,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE	
2032	\$180,000	



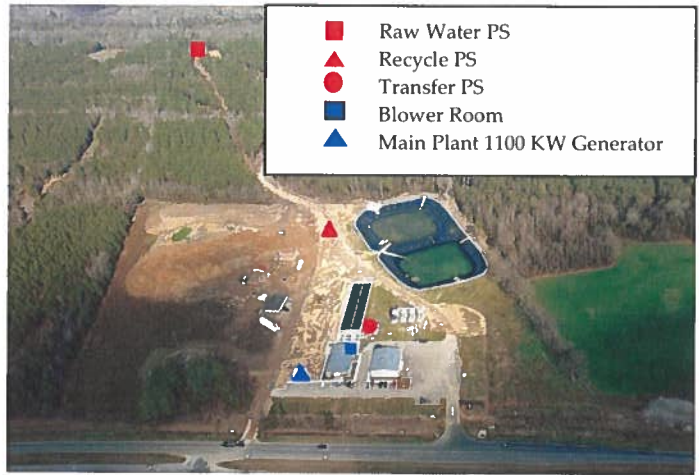
**BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY**

<b>PROJECT TITLE</b>	Replace Three (3) Pumps at the Transfer Pump Station	<b>BB 6</b>
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation</b>	
<p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Routine replacement of three (3) aging pumps at the Transfer Pumping Station.</li> </ul> <p><i>Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.</i></p>		
<p><b>Justification:</b></p> <ul style="list-style-type: none"> <li>Pumps will be approximately 20 years old by 2032 and approaching end of useful service life.</li> </ul>		
<p><b>Consequence of No Action:</b></p> <ul style="list-style-type: none"> <li>The likelihood of failure of the pumps increases due to age and wear of the existing pump.</li> </ul>		
<p><b>Criticality:</b></p> <p style="text-align: center;">▼</p> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="width: 33%; background-color: #4CAF50; text-align: center; color: white; padding: 5px;"><b>1</b></div> <div style="width: 33%; background-color: #FFEB3B; text-align: center; color: black; padding: 5px;"><b>2</b></div> <div style="width: 33%; background-color: #F44336; text-align: center; color: white; padding: 5px;"><b>3</b></div> </div>		
<b>DURATION (MONTHS)</b>	12	
<b>REQUIRED COMPLETION</b>	2032	
<b>TOTAL ESTIMATED COST</b>	\$300,000	
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>	
2032	\$300,000	



**BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY**

<b>PROJECT TITLE</b>	Replace Two (2) Generators at the Site	<b>BB 7</b>			
<b>CATEGORY:</b>	<b>Renewal/Rehabilitation</b>				
<p><b>Summary:</b></p> <ul style="list-style-type: none"> <li>Routine replacement of two (2) aging on-site generators.</li> </ul> <p><i>Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.</i></p>					
<p><b>Justification:</b></p> <ul style="list-style-type: none"> <li>Facility currently has two (2) generators on-site. Generators will be approximately 25 years old by 2037 and approaching end of service life.</li> </ul>					
<p><b>Consequence of No Action:</b></p> <ul style="list-style-type: none"> <li>The current generators are undersized to accommodate long term demands.</li> <li>The existing generators are anticipated to become cost prohibitive to maintain.</li> </ul>					
<p><b>Criticality:</b></p> <p style="text-align: center;">▼</p> <table style="width: 100%; text-align: center; border: none;"> <tr> <td style="width: 33%; background-color: #4CAF50; color: white;">1</td> <td style="width: 33%; background-color: #FFEB3B; color: black;">2</td> <td style="width: 33%; background-color: #F44336; color: white;">3</td> </tr> </table>			1	2	3
1	2	3			
<b>DURATION (MONTHS)</b>	24				
<b>REQUIRED COMPLETION</b>	2037				
<b>TOTAL ESTIMATED COST</b>	\$840,000				
<b>FISCAL YEAR</b>	<b>ANTICIPATED FISCAL YEAR EXPENDITURE</b>				
2036	\$240,000				
2037	\$600,000				





BLADEN BLUFFS REGIONAL SURFACE WATER FACILITY

Annual Fiscal Year Budget Breakdown (In Millions of Dollars)

Project No.	Description	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	FY 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	FY 2043	FY 2044	FY 2045	FY 2046	FY 2047	Total
BB 1	New High Service Pump Station						\$0.60	\$3.60																				\$4.20
BB 2	Construct New 1 MG Capacity Clearwell						\$0.60	\$2.40																				\$3.00
BB 3	Replace (3) Pumps at Raw Water Pump Station											\$0.30																\$0.30
BB 4	Replace Blower in Blower Building											\$0.12																\$0.12
BB 5	Replace (3) Pumps at the Recycle Pump Station														\$0.18													\$0.18
BB 6	Replace (3) Pumps at the Transfer Pump Station														\$0.30													\$0.30
BB 7	Replace (2) Generators at the Site															\$0.24	\$0.60											\$0.84
<b>Total Fiscal Year Expenditure</b>							\$1.20	\$6.00				\$0.42			\$0.48	\$0.24	\$0.60											\$8.94

# APPENDIX A – OPERATIONS BUDGET

Annual Fiscal Year Budget Breakdown - Operations											
Item	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Totals
Surveying		\$105,000									\$105,000
ROW Maintenance		\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$495,000
ROW Clearing		\$225,000	\$225,000								\$450,000
SCADA Improvements				\$125,000							\$125,000
Anti-Vortexing Improvements		\$50,000	\$50,000	\$50,000							\$150,000
Meter and Valve Upgrades/Replacements								\$125,000			\$125,000
VFD Replacements		\$250,000	\$250,000								\$500,000
Argo ATV											\$0
RR Trans		\$48,000	\$350,000	\$350,000							\$748,000
Miscellaneous											\$0
<b>Total Fiscal Year Expenditure</b>		<b>\$733,000</b>	<b>\$930,000</b>	<b>\$580,000</b>	<b>\$55,000</b>	<b>\$55,000</b>	<b>\$55,000</b>	<b>\$180,000</b>	<b>\$55,000</b>	<b>\$55,000</b>	<b>\$2,698,000</b>

**OLD BUSINESS (OB1)**

**Lower Cape Fear Water & Sewer  
Authority**

## **AGENDA ITEM**

**To:** CHAIRMAN BLANCHARD AND BOARD MEMBERS

**From:** TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

**Date:** June 5, 2023

**Re:** FY 2023-2024 Fiscal Year Budget

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

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Background: The Finance Committee has met and reviewed drafts since March and recommend the FY 2023-2024 Budget as presented during the Public Hearing on May 8, 2023, for adoption on June 5, 2023. No written comments have been received as of publication of this agenda.

**Action Requested:** Motion to Approve or Disapprove

# ANNUAL BUDGET

## Fiscal Year 2023 - 2024



**LOWER CAPE FEAR WATER & SEWER AUTHORITY  
 1107 NEW POINTE BLVD., SUITE 17  
 LELAND, NORTH CAROLINA 28451**

### AUTHORITY BOARD OF DIRECTORS

**NORWOOD BLANCHARD, CHAIRMAN  
 HARRY KNIGHT, VICE CHAIRMAN  
 PATRICK DEVANE, SECRETARY  
 PHIL NORRIS, TREASURER  
 AL LEONARD, ASSISTANT TREASURER  
 WAYNE EDGE  
 JACKIE NEWTON  
 SCOTT PHILLIPS  
 CHARILE RIVENBARK  
 BILL SAFFO  
 CHRIS SMITH  
 WILLIAM SUE  
 FRANK WILLIAMS  
 ROB ZAPPLE**

**PENDER COUNTY  
 NEW HANOVER COUNTY  
 BLADEN COUNTY  
 BRUNSWICK COUNTY  
 COLUMBUS COUNTY  
 BLADEN COUNTY  
 PENDER COUNTY  
 BRUNSWICK COUNTY  
 CITY OF WILMINGTON  
 CITY OF WILMINGTON  
 COLUMBUS COUNTY  
 BRUNSWICK COUNTY  
 BRUNSWICK COUNTY  
 NEW HANOVER COUNTY**

**TIM HOLLOMAN, EXECUTIVE DIRECTOR  
 DANIELLE HERTZOG, ADMINISTRATIVE ASSISTANT**

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June 5, 2023

Norwood Blanchard and Directors:

I am pleased to present the FY 2023-2024 Budget for the Lower Cape Fear Water and Sewer Authority for your review and consideration. The enclosed FY 23-24 Budget has been prepared in accordance with the North Carolina General Statute 159 Article 3, entitled "*The Local Government Budget and Fiscal Control Act.*"

The Public Hearing on the annual budget was held during the regularly scheduled monthly meeting of the Authority Board at 9:00 AM on Monday, May 8, 2023, in the conference room of the Authority's offices located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

Legal notice of the public hearing on the budget was published on April 19, April 26, and May 3, 2023, in accordance with the General Statutes.

The Authority's annual budget outlines the revenues that the Authority expects to receive during the fiscal year and outlines the expenditures expected to be made during the fiscal year. The core business of the Authority is providing raw water from the Cape Fear River to the Authority's customers. The Authority also continues to work with Smithfield Foods in the operation of the Bladen Bluffs Regional Water Treatment Plant.

The region served by the Authority continues to be one of the fastest-growing regions in the nation. The counties served by the Authority have increased in population from 456,941 in 2010 to an estimated population of 545,634 in 2022. This represents a 20% increase in the number of people served by the Authority's customers.

### **FY 22-23 ACCOMPLISHMENTS**

The second VFD was replaced in 2022 at \$266,000.

An aerial crosswalk was completed on the existing 48" line for accessibility and safety for \$271,247.18.

Funds were secured to work on paralleling the next 7 miles of 48" line past the Northwest Plant.

The Owners' advisor and Design-Build team were selected to design and construct this seven-mile section of line.

## **CAPITAL IMPROVEMENT PLAN ALIGNED WITH RATES**

The Authority continues to align the CIP to be supported by adequate rates to stabilize various funds and levels to anticipate unexpected emergencies and long-term needs. A Long-Range Planning Committee will work with the anticipated Cost of Service project consultant to establish policy on rates aligned with the needs for construction, refurbishment, or expansion. A cost-of-service study was completed this year.

## **FISCAL YEAR 2023-2024 FUND DESCRIPTION**

The Authority has five funds that it maintains. The funds and their purposes are as follows:

### **BLADEN BLUFFS OPERATING FUND**

While the Authority owns the Bladen Bluffs Regional Water Treatment Plant and is responsible for the debt associated with the plant's construction, Smithfield Foods operates the facilities and pays all costs related to the facility's operation, including the debt service. The Authority receives the bills related to the facility's operation, pays the vendors, then submits a consolidated statement to Smithfield Foods monthly per the December 19, 2009, Agreement.

The debt service principal for the Bladen Bluffs Regional Water Treatment Plant for FY 23-24 is \$970,000, to be paid in December 2023. The interest rate on the remaining principal is variable, and it is estimated that \$450,000 in interest will be paid based on current interest rates.

In FY 23-24, expenditures by Smithfield on the operation of the Bladen Bluffs Regional Water Treatment Plant are expected to be \$5,038,603.

The Authority charges approximately 30% of the personnel costs and direct costs to Smithfield in recognition of personnel's work performed on Bladen Bluffs Regional Water Treatment Plant-related issues such as accounts payable, accounting of expenditures, and management of capital projects. Smithfield pays its proportionate share of other direct costs, such as insurance and audits.

### **KINGS BLUFF OPERATING FUND**

#### **REVENUES**

In FY 23-24, the projected water revenues reflect an increase of 11% over the FY 22-23 projections. The projected water demand for FY 23-24 is 9.38 billion gallons



or 25.69 million gallons per day (mgd). By Board approval, the raw water rate increases in FY 23-24 to \$0.4000 per 1,000 gallons. This rate and the projected flow will generate \$3,912,487 in operating revenue.

## **EXPENDITURES**

The Authority owns the Kings Bluff Raw Water Pump Station and associated transmission system. While the Authority contracts with Brunswick County for the daily operation of the station, the Authority is responsible for paying for several direct costs associated with station operation, such as electric charges from Duke Energy, fuel costs related to the main generators, debt service on capital improvements, and significant capital expenditures for repairs of station equipment.

In FY 23-24, costs associated with the Operations and Maintenance by Brunswick County are recommended to increase from \$549,822 to \$696,990. The increase is due to salary, benefits, and right-of-way maintenance.

In FY 23-24, the cost of operating the Kings Bluff Pump Station is \$4,023,460. This year, the Operating Fund will transfer \$380,000 to Renewal and Replacement and \$100,000 to the Enterprise Fund. \$1,286,360 in capital funds will be expended for various projects.

## **RENEWAL AND REPLACEMENT FUND**

The purpose of this fund is to pay the cost of equipment that needs to be replaced at the Kings Bluff Pump Station. In FY 23-24, this fund will have no appropriations because the balance is \$342,473.84. An anticipated transfer from the Operational Fund of \$380,000 will bring the R & R fund up to \$722,473.84 by the end of FY 23-24. Over ten years, the projected balance should be \$5,000,000 at a minimum. This needs to be adjusted to a smaller window to arrive at this amount in five years instead of the projected 10-year window.

## **ENTERPRISE FUND**

The Enterprise Fund is the primary source of funds for capital projects and major repairs. No projects are budgeted for this fund in FY 23-24. A Capital Project Ordinance will be approved if the need for an additional project arises in FY 23-24. The balance of this fund is \$380,836.92. Over ten years, the projected balance should be \$10,000,000 at a minimum. \$100,000 was transferred to this fund in FY 22-23, and an additional \$100,000 will be transferred in FY 23-24. Annual

allocations to this fund need to be in the range of \$400,00 to \$500,000 annually to reach 50% of the projected need.

### **RIGHT OF WAY FUND**

The Right of Way Maintenance Fund was funded by a developer and will be used to repair the roadway constructed with the Authority's easement in Brunswick County. We do not anticipate any expenditure from this fund in FY 23-24.

### **CONCLUSION**

I want to thank the Finance Committee and the Board for their support and recognition of the resources needed to keep the Authority moving forward. I would also like to express special appreciation to our Financial Administrative Assistant for her attention to detail with Authority funds. Emergency preparedness is a focal point for our Board of Directors, who are working to make sure the entire length of the raw water pipeline is redundant, allowing customers peace of mind regarding supply. In addition, enhancing the Authority's Financial position is a critical factor in fulfilling capital obligations to our partners and the communities they serve. Furthermore, planning to accommodate future growth and promoting business retention and recruitment to the Cape Fear Region is a top concern for the Board.

Respectfully Submitted,

Tim H. Holloman  
Executive Director



# BUDGET ORDINANCE

## FY 2023-2024

### Lower Cape Fear Water & Sewer Authority

BE IT ORDAINED by the Governing Board of the Lower Cape Fear Water & Sewer Authority:

Section 1: The following amounts are hereby appropriated in the **Operating Fund** for the operation of the Authority and its activities for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

#### APPROPRIATIONS

<b>Administration</b>	\$977,979
<b>Operating Expenses</b>	
Sales Tax Expense	100,000
Operating Capital Expense	1,286,360
Bladen Bluffs Expense	3,324,385
Utilities/Energy – Kings Bluff Pump Station	786,589
O&M Expense – Kings Bluff	686,749
Transfer to R&R - Kings Bluff R&R Expense	380,000
Transfer to Enterprise	100,000
Series 2010 Revenue Bond-Principal Expense (BB)	970,000
Series 2010 Revenue Bond-Interest Expense (BB)	450,000
SRF/ARPA	<u>2,500,000</u>
 <b>TOTAL APPROPRIATIONS</b>	 <u><b>\$11,562,063</b></u>

Section 2: It is estimated the following revenues will be available in the **Operating General Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

#### REVENUES

##### Operating Revenues

Brunswick County	\$1,725,765
Cape Fear Public Utility Authority	1,652,562
Pender County	234,160
Hwy 421	200,000
Praxair	100,000
Bladen Bluffs Revenue	4,938,603
Bladen Bluffs Admin Reimbursement	110,473
Sales Tax Refund	100,000

##### Non-Operating Revenues

Interest	500
Other Revenue	0
Bladen Bluffs FEMA Admin Reimbursement	0
Renewal and Replacement Fund Appropriated	0
SRF/ARPA	<u>2,500,000</u>

<b>TOTAL REVENUES</b>	<u><u><b>\$11,562,063</b></u></u>
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Section 3: The Board of Directors of the Lower Cape Fear Water & Sewer Authority hereby establishes a raw water rate of \$0.4000 per 1,000 gallons as of July 1, 2023, for raising the necessary revenue to balance the appropriations noted in Section 1.

Section 4: The following amount is hereby appropriated in the **Operating General Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**APPROPRIATIONS**

Operating General Fund – Appropriated for Future Expenditures	\$ 2,651,578
<b>TOTAL APPROPRIATIONS</b>	<b>\$ 2,651,578</b>

Section 5: It is estimated the following revenue will be available in the **Operating General Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**REVENUES**

Operating General Fund - Fund Balance	\$ 2,651,578
<b>TOTAL ESTIMATED REVENUES</b>	<b>\$ 2,651,578</b>

Section 6: The following amount is hereby appropriated in the **Enterprise Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**APPROPRIATIONS**

Enterprise Fund - Reserve for Future Expenditures	\$ 380,837
<b>TOTAL APPROPRIATIONS</b>	<b>380,837</b>

Section 7: It is estimated the following revenue will be available in the **Enterprise Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**REVENUES**

Enterprise Fund - Fund Balance Appropriated	\$ 380,837
<b>TOTAL ESTIMATED REVENUES</b>	<b>\$ 380,837</b>

Section 8: The following amounts are hereby appropriated in the **Renewal and Replacement Fund (R&R)** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**APPROPRIATIONS**

R&R - Reserve for Future Expenditures	\$ 342,474
R&R - Kings Bluff R&R Expense	380,000
<b>TOTAL APPROPRIATIONS</b>	<b>\$ 722,474</b>

Section 9: It is estimated the following revenues will be available in the **Renewal and Replacement Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**REVENUES**

R&R - Fund Balance Appropriated	\$ 342,474
Transfer In from Operating Fund	380,000
<b>TOTAL ESTIMATED REVENUES</b>	<b>\$ 722,474</b>

Section 10: The following amount is hereby appropriated in the **Right of Way Maintenance Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**APPROPRIATIONS**

Right of Way Fund - Reserve for Future Expenditures	\$ 281,450
<b>TOTAL APPROPRIATIONS</b>	<b>\$ 281,450</b>

Section 11: It is estimated the following revenue will be available in the **Right of Way Maintenance Fund (ROW)** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

**REVENUES**

ROW - Fund Balance Appropriated	\$ 281,450
<b>TOTAL ESTIMATED REVENUES</b>	<b>\$ 281,450</b>

**Section 10:** Copies of this Budget Ordinance shall be furnished to the Finance Officer to be kept on file for direction in the disbursement of funds. This budget acknowledges and approves any transfers between funds expected as revenue from one fund or account specifically in reference to the Bladen Bluffs Administrative transfers as reflected in this budget and any funds in associated Kings Bluff Funds, including the Revenue and Replacement Fund, Enterprise Fund, and Right of Way Fund.

**Adopted this 5<sup>th</sup> day of June 2023**

\_\_\_\_\_  
Norwood Blanchard, Chairman

ATTEST:

\_\_\_\_\_  
Patrick DeVane, Secretary

LOWER CAPE FEAR WATER AND SEWER AUTHORITY  
FISCAL YEAR 2023-2024 BUDGET

ACCOUNT NO	REVENUES	FY 21-22 APPROVED BUDGET	FY 21-22 ACTUALS	FY 22-23 AMENDED BUDGET	FY 22-23 ACTUAL 04/30/2023	PROPOSED FY 23-24 BUDGET		FY 23-24 TOTAL COMBINED BUDGET
						KINGS BLUFF	BLADEN BLUFFS	
	<b>OPERATING</b>							
3001-01	Brunswick County	\$ 1,690,091	\$ 1,818,755	\$ 1,606,437	\$ 1,683,452	\$ 1,725,765	\$ -	\$ 1,725,765
3002-01	Cape Fear Public Utility Authority	\$ 1,296,405	\$ 1,324,190	\$ 2,869,315	\$ 2,762,273	\$ 1,652,562	\$ -	\$ 1,652,562
3003-03	Pender County	\$ 179,822	\$ 189,434	\$ 551,428	\$ 515,455	\$ 234,160	\$ -	\$ 234,160
3004-01	Stepan/Invista	\$ 70,000	\$ 101,260	\$ 141,566	\$ 187,471	\$ 200,000	\$ -	\$ 200,000
3005-01	Praxair, Inc	\$ 4,314	\$ 2,503	\$ 61,179	\$ 66,223	\$ 100,000	\$ -	\$ 100,000
3006-01	Bladen Bluffs Reimbursement for Plant Operation Costs	\$ 3,894,127	\$ 3,909,071	\$ 4,673,818	\$ 4,255,084	\$ -	\$ 4,938,603	\$ 4,938,603
3006-02	Bladen Bluffs Administrative Reimbursement	\$ 126,302	\$ 127,002	\$ 102,190	\$ 115,908	\$ 110,473	\$ -	\$ 110,473
3007-01	Sales Tax Refund	\$ 90,000	\$ 55,833	\$ 100,000	\$ 114,314	\$ -	\$ 100,000	\$ 100,000
	<b>Subtotal</b>	<b>\$ 7,351,061</b>	<b>\$ 7,528,048</b>	<b>\$ 10,105,933</b>	<b>\$ 9,700,180</b>	<b>\$ 4,022,960</b>	<b>\$ 5,038,603</b>	<b>\$ 9,061,563</b>
	<b>Non-Operating</b>							
3105-01	Interest	\$ 2,000	\$ 1,921	\$ 500	\$ 151	\$ 500	\$ -	\$ 500
3120-01	Other Revenue (Insurance Proceeds/Refunds/FEMA)	\$ -	\$ 2,978	\$ -	\$ 12,229	\$ -	\$ -	\$ -
3125-01	Federal Tax Subsidy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3156-00	Rental House Income	\$ -	\$ 15,550	\$ -	\$ 13,361	\$ -	\$ -	\$ -
3170-01	Transfer In	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3900-01	Renewal and Replacement Fund Appropriated	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3900-02	SRF/ARPA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2900-00	Fund Balance Appropriated	\$ 391,253	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
	<b>Subtotal</b>	<b>\$ 393,253</b>	<b>\$ -</b>	<b>\$ 500</b>	<b>\$ 25,740</b>	<b>\$ 500</b>	<b>\$ -</b>	<b>\$ 2,500,500</b>
	<b>TOTAL REVENUES</b>	<b>\$ 7,744,314</b>	<b>\$ 7,528,048</b>	<b>\$ 10,106,433</b>	<b>\$ 9,725,920</b>	<b>\$ 4,023,460</b>	<b>\$ 5,038,603</b>	<b>\$ 11,562,063</b>

LOWER CAPE FEAR WATER AND SEWER AUTHORITY  
FISCAL YEAR 2023-2024 BUDGET

ACCOUNT NO.	EXPENDITURES	FY 21-22 APPROVED BUDGET	FY 21-22 ACTUALS	FY 22-23 AMENDED BUDGET	FY 22-23 ACTUAL 04/30/2023	PROPOSED FY 23-24 BUDGET		FY 23-24 TOTAL COMBINED BUDGET
						KINGS BLUFF	BLADEN BLUFFS	
	<b>Administration</b>							
4001-01	Salaries	\$ 188,610	\$ 165,791	\$ 187,024	\$ 149,791	\$ 142,471	\$ 61,059	\$ 203,530
4010-01	Per Diem and Mileage Board Members	\$ 62,500	\$ 56,590	\$ 62,500	\$ 46,079	\$ 44,801	\$ 19,200	\$ 64,001
4012-01	Vehicle Allowance	\$ 5,200	\$ 5,200	\$ 5,200	\$ 4,400	\$ 3,640	\$ 1,560	\$ 5,200
4019-01.&4024-01	FICA Taxes	\$ 19,467	\$ 17,116	\$ 19,542	\$ 15,193	\$ 14,667	\$ 6,286	\$ 20,953
4029-01	Retirement	\$ 20,879	\$ 18,655	\$ 22,462	\$ 16,198	\$ 18,307	\$ 7,846	\$ 26,153
4035-01	401K Plan	\$ 5,758	\$ 4,782	\$ 5,311	\$ 4,426	\$ 7,918	\$ 3,394	\$ 11,312
4036-01	Miscellaneous Payroll Expenses	\$ 2,900	\$ 2,630	\$ 2,900	\$ 2,288	\$ 2,900	\$ -	\$ 2,900
4038-01	Group Insurance	\$ 42,910	\$ 37,141	\$ 38,074	\$ 26,818	\$ 28,123	\$ 12,053	\$ 40,176
4039-01	Property and Liability Insurance	\$ 87,000	\$ 87,417	\$ 94,301	\$ 99,948	\$ 72,614	\$ 31,120	\$ 103,734
4046-00	Professional Services General	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ 10,500	\$ 4,500	\$ 15,000
4046-01	Attorney	\$ 27,900	\$ 15,596	\$ 45,000	\$ 36,246	\$ 35,000	\$ 15,000	\$ 50,000
4047-01	Auditor	\$ 9,000	\$ 8,200	\$ 9,000	\$ 5,400	\$ 5,600	\$ 2,400	\$ 8,000
4048-01	Engineer	\$ 50,000	\$ 41,947	\$ 245,041	\$ 149,737	\$ 275,000	\$ 25,000	\$ 300,000
4049-01	Information Technology	\$ 13,800	\$ 12,638	\$ 14,000	\$ 1,333	\$ 11,200	\$ 4,800	\$ 16,000
4055-01	Office Maintenance/Repair/Common Charge	\$ 32,000	\$ 18,601	\$ 23,903	\$ -	\$ 24,000	\$ -	\$ 24,000
4058-01	Office Utilities	\$ 3,000	\$ 1,856	\$ 5,000	\$ 1,600	\$ 5,000	\$ -	\$ 5,000
4059-01	Office Expenses (telephone, Printing, Adv)	\$ 26,300	\$ 14,134	\$ 16,000	\$ 31,430	\$ 14,000	\$ -	\$ 14,000
4062-01	Office Equipment	\$ 12,500	\$ 10,975	\$ 12,000	\$ 14,748	\$ 10,000	\$ -	\$ 10,000
4064-01	Printing and Advertising	\$ 2,000	\$ 1,997	\$ 6,500	\$ 5,241	\$ 5,000	\$ -	\$ 5,000
4065-01	Telephone and Internet	\$ 3,200	\$ 2,114	\$ 3,500	\$ 2,624	\$ 3,500	\$ -	\$ 3,500
4070-01	Travel and Training	\$ 27,800	\$ 22,237	\$ 33,000	\$ 25,222	\$ 29,000	\$ -	\$ 29,000
4070-20	Phone Allowance	\$ 520	\$ 520	\$ 520	\$ 440	\$ 520	\$ -	\$ 520
4075-01	Vehicle Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4080-01	Miscellaneous Expense	\$ 23,000	\$ 18,084	\$ 23,000	\$ 18,218	\$ 20,000	\$ -	\$ 20,000
	<b>Subtotal</b>	<b>\$ 681,244</b>	<b>\$ 564,221</b>	<b>\$ 888,777</b>	<b>\$ 657,378</b>	<b>\$ 783,762</b>	<b>\$ 194,218</b>	<b>\$ 977,979</b>
	<b>Operating</b>							
4501-01	Sales Tax Expense	\$ 130,777	\$ 130,777	\$ 100,000	\$ 87,704	\$ -	\$ 100,000	\$ 100,000
4510-01	Bladen Bluffs O & M	\$ 2,775,091	\$ 2,775,091	\$ 3,315,596	\$ 2,742,958	\$ -	\$ 3,324,385	\$ 3,324,385
4515-01	Bladen Bluffs Hurricane Florence	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4520-01	Utilities/Energy/Kings Bluff	\$ 699,667	\$ 698,525	\$ 730,336	\$ 599,221	\$ 786,589	\$ -	\$ 786,589
4530-01	Contract O & M Kings Bluff	\$ 453,609	\$ 437,634	\$ 549,822	\$ 358,284	\$ 686,749	\$ -	\$ 686,749
4537-01	O&M Kings Booster Pump Bluff Pump Station	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4541-01	Combined Enterprise Funded Series 2010 Principal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4542-01	Combined Enterprise Funded Series 2010 Interest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4543-01	Combined Enterprise System Ref Series 2012 Principal	\$ 601,443	\$ 601,444	\$ -	\$ -	\$ -	\$ -	\$ -
4544-01	Combined Enterprise System Ref Series 2012 Interest	\$ 11,730	\$ 11,728	\$ -	\$ -	\$ -	\$ -	\$ -

LOWER CAPE FEAR WATER AND SEWER AUTHORITY  
FISCAL YEAR 2023-2024 BUDGET

4545-01	Bladen Buffs Debt Service Principal	\$ 850,000	\$ 850,000	\$ 910,000	\$ 910,000	\$ -	\$ 970,000	\$ 970,000
4546-01	Bladen Buffs Debt Service Interest	\$ 297,500	\$ 48,580	\$ 256,998	\$ 347,154	\$ -	\$ 450,000	\$ 450,000
	Operating Capital Expense	\$ 716,253	\$ 593,356	\$ 2,846,069	\$ 2,219,441	\$ 1,286,360	\$ -	\$ 1,286,360
4998-05	Transfer to R&R - Kings Bluff R&R Expense	\$ 192,380	\$ 192,380	\$ 250,000	\$ 150,000	\$ 380,000	\$ -	\$ 380,000
4998-06	Transfer to Enterprise Fund	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ -	\$ 100,000
2041-01	421 Relocation New Hanover County Loan Principal	\$ 390,000	\$ 390,000	\$ 258,835	\$ 258,835	\$ -	\$ -	\$ -
	SRF/7 mile parallel line expenditures							
	Subtotal	\$ 7,118,450	\$ 6,729,515	\$ 9,217,656	\$ 7,773,597	\$ 3,239,698	\$ 4,844,385	\$ 2,500,000
	<b>TOTAL EXPENDITURES</b>	<b>\$ 7,799,694</b>	<b>\$ 7,293,736</b>	<b>\$ 10,106,433</b>	<b>\$ 8,430,975</b>	<b>\$ 4,023,460</b>	<b>\$ 5,038,603</b>	<b>\$ 11,562,063</b>



WATER REVENUE ESTIMATES AND WATER RATE CALCULATION

Raw Water Customer	FLOWS			FY 23-24 Projected
	FY 21-22 Actual	FY 22-23 Projected	FY 22-23 Actual (as of 04-30-2022)	
Brunswick County	5,510,004	4,486,245	4,676,256	4,314,412
CFPUA	4,011,322	4,090,500	3,704,346	4,131,405
Pender County	574,585	571,360	476,888	585,400
Stephan	306,849	221,162	348,675	500,000
Praxair	7,585	5,819	19,830	250,000
	10,410,345	9,375,086	9,225,995	9,781,217

Raw Water Customer	REVENUES			FY 23-24 Projected
	FY 21-22 Actual	FY 22-23 Projected	FY 22-23 Actual (as of 04-30-2022)	
<b>RATE PER 1,000 GALLONS</b>	<b>\$ 0.3300</b>	<b>\$ 0.3600</b>	<b>\$ 0.3600</b>	<b>\$ 0.4000</b>
Brunswick County	\$ 1,818,301	\$ 1,615,048	\$ 1,683,452	\$ 1,725,765
CFPUA	\$ 1,323,736	\$ 1,472,580	\$ 1,333,565	\$ 1,652,562
Pender County	\$ 189,613	\$ 205,690	\$ 171,680	\$ 234,160
Stepan	\$ 101,260	\$ 79,618	\$ 125,523	\$ 200,000
Praxair	\$ 2,503	\$ 2,095	\$ 7,139	\$ 100,000
	\$ 3,435,414	\$ 3,375,031	\$ 3,321,358	\$ 3,912,487

**KINGS BLUFF EXPENSES**

ADMINISTRATION	\$ 783,762
OPERATING INCLUDING DEBT SERVICE	\$ 3,239,698
TOTAL EXPENSES	\$ 4,023,460

**KINGS BLUFF REVENUES**

WATER SALES BASED ON CURRENT RATE	\$ 3,912,487
OTHER REVENUES	\$ 139,263
TOTAL REVENUES	\$ 4,051,750

**BRUNSWICK COUNTY**

**PROJECTED WATER USE**

FOR JULY 1, 2023 THROUGH JUNE 30, 2024

**WATER RATE OF \$0.40 / 1,000 GALLONS**

<b>Month</b>	<b>Estimated Usage</b>	<b>Cumulative Total</b>
July 2023	521,284,746.67	521,284,746.67
August	464,709,780.00	985,994,526.67
September	443,062,838.67	1,429,057,365.33
October	384,818,203.33	1,813,875,568.67
November	271,023,413.33	2,084,898,982.00
December	248,522,173.33	2,333,421,155.33
January 2024	225,645,550.00	2,559,066,705.33
February	212,146,236.73	2,771,212,942.06
March	239,445,738.59	3,010,658,680.65
April	347,426,833.54	3,358,085,514.20
May	489,895,412.78	3,847,980,926.98
June	466,431,203.53	4,314,412,130.51
<b>TOTAL</b>	<b>4,314,412,130.51</b>	
<b>Annual Daily Average:</b>		<b>Annual Revenue</b>
		<b>\$ 1,725,764.85</b>

**CAPE FEAR PUBLIC UTILITY AUTHORITY**

**PROJECTED WATER USE**

**FOR JULY 1, 2023 THROUGH JUNE 30, 2024**

**WATER RATE OF \$0.40 / 1,000 GALLONS**

Month	Estimated Usage	Cumulative Total
July 2022	293,788,800.00	293,788,800.00
August	303,989,800.00	597,778,600.00
September	327,452,100.00	925,230,700.00
October	322,351,600.00	1,247,582,300.00
November	250,944,600.00	1,498,526,900.00
December	368,256,100.00	1,866,783,000.00
January 2023	423,341,500.00	2,290,124,500.00
February	379,477,200.00	2,669,601,700.00
March	439,663,100.00	3,109,264,800.00
April	410,080,200.00	3,519,345,000.00
May	322,351,600.00	3,841,696,600.00
June	289,708,400.00	4,131,405,000.00
<b>TOTAL</b>	<b>4,131,405,000.00</b>	
<b>Annual Daily Average:</b>	<b>11,318,917.81</b>	<b>\$ 1,652,562.00</b>

**PENDER COUNTY**  
**PROJECTED WATER USE**  
**FOR JULY 1, 2023 THROUGH JUNE 30, 2024**  
**WATER RATE OF \$0.40 / 1,000 GALLONS**

Month	Estimated Usage	Cumulative Total
July 2022	53,280,000.00	53,280,000.00
August	52,680,000.00	105,960,000.00
September	50,200,000.00	156,160,000.00
October	50,460,000.00	206,620,000.00
November	46,480,000.00	253,100,000.00
December	47,930,000.00	301,030,000.00
January 2023	46,980,000.00	348,010,000.00
February	43,100,000.00	391,110,000.00
March	45,520,000.00	436,630,000.00
April	46,530,000.00	483,160,000.00
May	50,740,000.00	533,900,000.00
June	51,500,000.00	585,400,000.00
<b>TOTAL</b>	<b>585,400,000.00</b>	
<b>Annual Daily Average:</b>	<b>1,603,835.62</b>	<b>\$ 234,160.00</b>

PERSONNEL COST

Employee	Adopted FY 22-23	Proposed FY 23-24	Notes
	<b>Salary</b>		
Executive Director	\$ 123,420.00	\$ 131,442.30	4% COLA/2.5% Merit
Administrative Assistant	\$ 53,604.00	\$ 57,088.26	4% COLA/2.5% Merit
Part-Time	\$ 10,000.00	\$ 15,000.00	
	<u>\$ 187,024.00</u>	<u>\$ 203,530.56</u>	
	<b>Board</b>		
Board Per Diem and Mileage	\$ 62,500.00	\$ 64,001.40	
	<b>FICA</b>		
Executive Director	\$ 10,552.41	\$ 11,238.32	8.55 % of Salary
Administrative Assistant	\$ 4,583.14	\$ 4,881.05	8.55 % of Salary
Part-Time	\$ 855.00	\$ 1,282.50	8.55% of Salary
Board Members	\$ 3,550.95	\$ 3,550.95	8.55% of Salary
	<u>\$ 19,541.50</u>	<u>\$ 20,952.81</u>	
	<b>Retirement</b>		
Executive Director	\$ 14,822.74	\$ 16,890.34	12.85%
Part-Time	\$ 6,437.84	\$ 1,927.50	
Administrative Assistant	\$ 1,201.00	\$ 7,335.84	12.85%
	<u>\$ 22,461.58</u>	<u>\$ 26,153.68</u>	
	<b>Health Insurance</b>		
Executive Director	\$ 19,037.00	\$ 20,088.00	
Administrative Assistant	\$ 19,037.00	\$ 20,088.00	
	<u>\$ 38,074.00</u>	<u>\$ 40,176.00</u>	
	<b>401 K Contribution</b>		
Executive Director	\$ 3,702.60	\$ 7,886.54	6.0% of the salary
Administrative Assistant	\$ 1,608.12	\$ 3,425.30	6.0% of the salary
	<u>\$ 5,310.72</u>	<u>\$ 11,311.83</u>	

**BOARD MEMBER COST**

Board Member Salaries and Mileage Reimbursement

Salary for Board Member per meeting	\$	300
Salary for Chairman Per Board Meeting	\$	330
Total Salary Costs	\$	50,760.00 Based upon 12 meetings per year
Current Board Total Mileage		875
Current IRS Mileage Rate	\$	0.655 per mile
Total Mileage Cost Per Year	\$	6,877.50
<b>Total for Budget</b>	\$	57,637.5
Round to \$50,000 increase of committee meetings outside of normal meetings		
Social Security	\$	3,883
Breakfast	\$	206.73 per month
	\$	2,480.76
	\$	64,001.4

## BLADEN BLUFFS ADMINISTRATIVE COST CALCULATION

Employee	Allocation		Bladen Bluffs Allocation
		<b>SALARY</b>	
Executive Director		\$ 131,442.30	
Administrative Assistant		\$ 57,088.26	
Part Time		\$ 15,000.00	
		<u>\$ 203,530.56</u>	<b>\$61,059.17</b>
Board Per Diem, Mileage and Expense		\$64,001.40	<b>\$19,200.42</b>
		<b>VEHICLE &amp; CELL PHONE ALLOWANCE</b>	
Executive Director - Vehicle		\$5,200.00	
Executive Director - Cell phone		\$520.00	
		<u>\$5,720.00</u>	<b>\$1,716.00</b>
		<b>FICA</b>	
Executive Director		\$11,238.32	
Administrative Assistant		\$4,881.05	
Part Time		\$1,282.50	
Board Members		\$3,550.95	
		<u>\$20,952.81</u>	<b>\$6,285.84</b>
		<b>RETIREMENT</b>	
Executive Director		\$16,890.34	
Part Time		\$1,927.50	
Administrative Assistant		\$7,335.84	
		<u>\$26,153.68</u>	<b>\$7,846.10</b>
		<b>401K</b>	
Executive Director		\$7,886.54	
Administrative Assistant		\$3,425.30	
		<u>\$11,311.83</u>	<b>\$3,393.55</b>
		<b>HEALTH INSURANCE</b>	
Executive Director		\$20,088.00	
Administrative Assistant		\$20,088.00	
		<u>\$40,176.00</u>	<b>\$12,052.80</b>
		\$ 371,846.28	<b>\$111,553.89</b>

BLADEN BLUFFS ADMINISTRATIVE COST CALCULATION CONTINUED

<b>ATTORNEY</b>	\$	15,000
<b>ENGINEER</b>	\$	25,000
<b>AUDITOR</b>	\$	2,400
<b>INFORMATION TECHNOLOGY</b>	\$	4,800
<b>ADMINISTRATIVE COST FROM FIRST SHEET</b>	\$	<u>111,554</u>
	\$	158,754
<b>INSURANCE PROPERTY &amp; LIABILITY</b>		
Total cost of Property and Liability Insurance is \$94,301		
Bladen Bluffs share is		
based upon percent		
	\$	<u>31,120</u>
<b>Total Annual Admin Cost</b>	\$	189,874



**BLADEN BLUFFS OPERATING BUDGET**

<b>Bladen Bluffs Budget FY 2023-24</b>	<b>FY 2023-24</b>
Sales Tax	\$100,000.00
Administrative LCFWASA	\$110,000.00
Administrative General	\$62,000.00
Audit	\$2,800.00
Insurance	\$27,500.00
Professional Services	\$98,000.00
Professional Services Engineering	\$30,000.00
Postage	\$810.00
Training	\$1,500.00
Computer/IT	\$32,000.00
Fuel Diesel	\$29,000.00
Fuel Gas	\$10,000.00
Equipment Rental	\$90,000.00
Utilities Water	\$1,000.00
Building Maintenance	\$4,400.00
Grounds Maintenance	\$340.00
Equipment Maintenance	\$250,000.00
Departmental Supplies	\$1,650,253.00
Departmental Supplies/Parts	\$170,000.00
Lab Expenses	\$122,000.00
Permitting	\$140,000.00
Environmental/Livestock Safety	\$17,000.00
Land Application	\$275,000.00
Capital Expense	\$40,000.00
Capital Reserve Vehicle	\$12,000.00
Capital Reserve Scada	\$52,000.00
Capital Reserve GAC	\$360,000.00
Capital Reserve Water and Well	\$148,000.00
Debt Service Principal	\$970,000.00
Debt Service Interest	\$450,000.00
<b>Total</b>	<b>\$5,255,603.00</b>

Department Name: LCFWSA - Reimb  
 Department Code: 617150  
 Budget Manager: Director of Public U

COUNTY OF BRUNSWICK  
 Fiscal Year 2024 Budget

Dept.#	Item #	Description	Prior Years Actuals 2021	2022	2023 Amended Budget	2023 Original Budget @ 7/1/22	2023 Actual @ 11/30/2022	2023 % Received/ Expended @ 11/30/2022	Input Column 2024 Department Requested	2024 Increase (Decrease) Requested
617150	383927	LCFWSA O	345,879	2,916,510	676,897	537,286	184,514	27%	696,990	159,704
		<b>Add New Revenue Line Item In Space Below:</b>								
617150			-	-	-	-	-	0%	-	-
617150			-	-	-	-	-	0%	-	-
		<b>Total Reven</b>	<b>345,879</b>	<b>2,916,510</b>	<b>676,897</b>	<b>537,286</b>	<b>184,514</b>	<b>27%</b>	<b>696,990</b>	<b>159,704</b>
617150	412100	Salary & W;	106,447	117,998	151,718	151,718	40,721	27%	156,997	5,279
617150	412200	Salaries & V	6,647	14,417	7,000	7,000	1,244	18%	7,000	-
617150	412203	Salaries & V	10,851	9,470	10,287	10,287	2,656	26%	8,112	(2,175)
617150	412204	Salary & W;	961	2,039	-	-	29	0%	-	-
617150	412600	Salary and V	-	1,977	27,000	27,000	5,383	20%	27,000	-
617150	412700	Salary & W;	3,490	3,542	2,488	2,488	-	0%	2,488	-
617150	412990	Salary and V	13,808	16,235	24,000	24,000	9,810	41%	24,000	-
617150	418100	FICA	10,123	10,571	15,185	15,185	3,654	24%	15,422	237
617150	418200	Retirement	19,195	25,247	29,428	29,428	7,639	26%	31,270	1,842
617150	418300	Health Insur	16,281	15,603	21,378	21,378	8,157	38%	22,440	1,062
617150	418303	Workers Co	5,464	5,068	6,611	6,611	-	0%	8,500	1,889
617150	418304	Unemployment Insurance						0%	-	-
617150	418306	Life Insuran	94	77	250	250	57	23%	250	-
617150	418310	Dental Insur	573	585	815	815	339	42%	818	3
617150	418400	Disability &	338	345	501	501	200	40%	518	17
617150	418900	Fringe Bene	5,377	6,871	-	-	3,690	0%	7,500	7,500

617150	419900	Prof Ser - O	2,991	-	-	-	-	-	0%	-	-
617150	421200	Uniforms	-	171	1,200	1,200	-	-	0%	1,200	-
617150	425101	Fuel - Emerg	-	333	14,625	14,625	-	-	0%	14,625	-
617150	426000	Supplies anc	462	897	500	500	-	-	0%	500	-
617150	426002	Department	2,920	6,500	2,000	2,000	122	-	6%	2,000	-
617150	426010	Computer S	-	-	500	500	-	-	0%	500	-
617150	426200	Operating E	1,250	-	-	-	-	-	0%	-	-
617150	426205	Computers	-	-	-	-	-	-	0%	-	-
617150	431100	Travel - Mil	1,034	2,713	2,000	2,000	-	-	0%	2,000	-
617150	431200	Travel - Sub	-	-	250	250	160	-	64%	500	250
617150	431500	Travel - Reg	-	-	1,000	1,000	395	-	40%	1,000	-
617150	432100	Telephone	356	661	700	700	273	-	39%	700	-
617150	432150	Cell Phone	975	975	1,300	1,300	350	-	27%	1,300	-
617150	432500	Postage	24	24	50	50	8	-	16%	50	-
617150	435100	Repair and	575	3,630	8,500	8,500	1,090	-	13%	8,500	-
617150	435102	Repair and	-	955	1,000	1,000	-	-	0%	1,000	-
617150	435200	Repair and	41,065	44,188	38,900	69,000	7,414	-	19%	69,000	-
617150	435203	Repair and	23,078	12,833	42,011	30,000	14,311	-	34%	30,000	-
617150	435208	Repair and	-	-	2,000	2,000	-	-	0%	2,000	-
617150	435217	R and M - T	-	2,523,435	157,700	-	89,527	-	57%	20,000	20,000
617150	439900	Contract Ser	37,501	37,732	21,000	21,000	-	-	0%	21,000	-
617150	441400	Rent of Equi	2,486	1,899	2,000	2,000	-	-	0%	2,000	-
617150	444000	Service and	31,516	11,568	83,000	83,000	5,621	-	7%	206,800	123,800
617150	451100	Cap Outlay	-	-	-	-	-	-	0%	-	-
617150	451000	Furniture/OI	-	-	-	-	-	-	0%	-	-
617150	454000	Vehicles On	-	-	-	-	-	-	0%	-	-
617150	455000	Equipment	-	37,951	-	-	-	-	0%	-	-
617150	458000	Buildings	-	-	-	-	-	-	0%	-	-
617150	459000	Improvement	-	-	-	-	-	-	0%	-	-
Add New Expenditure Line Item In Space Below:											
617150			-	-	-	-	-	-	0%	-	-
617150			-	-	-	-	-	-	0%	-	-
617150			-	-	-	-	-	-	0%	-	-
617150			-	-	-	-	-	-	0%	-	-

617150  
617150

-	-	-	-	-	-	0%	-	-
-	-	-	-	-	-	0%	-	-
<b>Total Expen</b>	<b>345,879</b>	<b>2,916,510</b>	<b>676,897</b>	<b>537,286</b>	<b>202,850</b>	<b>30%</b>	<b>696,990</b>	<b>159,704</b>
<b>Revenues O'</b>	-	-	-	-	(18,336)		-	-

	Summary	
Salaries and Wages	199,648	230,045
Operating Expenditures	146,231	2,648,514
Repair and Maint	64,741	61,630
Capital Outlay	-	37,951
		296,661
		240,625
		110,550
		-
		312,315
		384,675
		206,800

	% Change from PY Approved
Salaries and Wages	5.3%
Operating Expenditures	59.9%
Repair and Maint	87.1%
Capital Outlay	n/a

## OPERATING FUND CAPITAL EXPENDITURES AND TRANSFERS

EQUIPMENT TO BE REPLACED	REPLACEMENT COST
REPLACE ROOF ON 1984 SECTION OF PLANT	\$ 130,000
VFD COMPONENT REPLACEMENT	
VTR PUMP/INSPECT REFURBISH	\$ 275,000
NEW BOWL ASSEMBLY	\$ 250,000
ANTI VORTEXING	\$ 50,000
ELEVATED WALKWAY	
UPDATE RATE STUDY	\$ 10,000
ROW ACQUISITION	\$ 100,000
MATCHING SRF FUNDING	
FOURTH PUMP	\$ 225,000
WALKWAY REPLACEMENT AND AIR BACKWASH	\$ 226,360
MISCELLANEOUS	\$ <u>20,000</u>
TOTAL	\$ 1,286,360

LOWER CAPE FEAR WATER AND SEWER AUTHORITY  
5 YEAR CAPITAL IMPROVEMENT PLAN

KINGS BLUFF CIP PROJECTS	0.33		0.36		0.4		PROJECT TOTALS	
	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
INTERMEDIATE BOOSTER PUMP STATION SHELTER	\$ -	\$ -	\$ -	\$ 850,000.00	\$ -	\$ -	\$ -	\$ 850,000.00
SURVEYING	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VFD	\$ 266,875.00	\$ 266,875.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 533,750.00
VTR PUMP	\$ -	\$ 200,000.00	\$ -	\$ 200,000.00	\$ -	\$ -	\$ -	\$ 400,000.00
ROW MAINTENANCE	\$ -	\$ 35,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000.00
ROW CLEARING	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SCADA UPGRADE	\$ -	\$ -	\$ -	\$ 125,000.00	\$ -	\$ -	\$ -	\$ 125,000.00
REBUILD EXISTING HIGH SERVICE PUMP MOTORS/INSPECT	\$ -	\$ -	\$ 275,000.00	\$ -	\$ -	\$ -	\$ -	\$ 275,000.00
PURCHASE BOWL ASSEMBLY	\$ -	\$ 250,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000.00
48" PARALLEL LINE LAST 10 MILE SECTION	\$ 10,000,000.00	\$ 15,000,000.00	\$ 35,200,000.00	\$ 17,500,000.00	\$ -	\$ -	\$ -	\$ 77,700,000.00
ANTI VORTEXING	\$ -	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ -	\$ -	\$ -	\$ 150,000.00
INDEPENDENT RATE STUDY	\$ -	\$ 100,000.00	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ 110,000.00
ROW ACQUISITIONS	\$ -	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ -	\$ -	\$ -	\$ 300,000.00
4TH PUMP	\$ -	\$ -	\$ 225,000.00	\$ 2,500,000.00	\$ 1,100,000.00	\$ -	\$ -	\$ 3,825,000.00
REPLACE GENERATOR RADIATORS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WALKWAY REPLACEMENT AND AIR BACKWASH BUILDING	\$ -	\$ -	\$ 226,360.00	\$ 2,000,000.00	\$ -	\$ -	\$ -	\$ 2,226,360.00
7 Mile 48" Parallel Raw Water Line	\$ -	\$ -	\$ 15,000,000.00	\$ 15,000,000.00	\$ 15,700,000.00	\$ -	\$ -	\$ 45,700,000.00
48"PCCP Repairs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
VEHICLE REPLACEMENT/ARGO/FORKLIFT	\$ 122,000.00	\$ 30,000.00	\$ 130,000.00	\$ -	\$ -	\$ -	\$ -	\$ 282,000.00
PIG 48" WATER MAIN TO CFPUA/PENDER	\$ -	\$ -	\$ -	\$ 2,300,000.00	\$ 175,000.00	\$ -	\$ -	\$ 2,475,000.00
<b>TOTALS KINGS BLUFF PROJECTS</b>	<b>\$10,388,875.00</b>	<b>\$15,781,875.00</b>	<b>\$51,466,360.00</b>	<b>\$40,625,000.00</b>	<b>\$16,975,000.00</b>	<b>\$-</b>	<b>\$-</b>	<b>\$89,287,110.00</b>

KINGS BLUFF CIP-SOURCES	0.33		0.36		0.4		Source Totals	
	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
OPERATING CAPITAL	\$ 385,000.00	\$ 881,000.00	\$ 1,286,360.00	\$ 1,325,000.00	\$ 1,100,000.00	\$ -	\$ -	\$ 4,977,360.00
CAPITAL RESERVES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DEBT PROCEEDS	\$ -	\$ -	\$ -	\$ 4,500,000.00	\$ -	\$ -	\$ -	\$ 4,500,000.00
GRANT	\$ -	\$ 15,000,000.00	\$ -	\$ 15,000,000.00	\$ -	\$ -	\$ -	\$ 30,000,000.00
OTHER SOURCE	\$ 10,000,000.00	\$ -	\$ 35,200,000.00	\$ 5,200,000.00	\$ 2,800,000.00	\$ -	\$ -	\$ 53,200,000.00
<b>TOTAL KINGS BLUFF SOURCES</b>	<b>\$10,385,000.00</b>	<b>\$15,881,000.00</b>	<b>\$36,486,360.00</b>	<b>\$26,025,000.00</b>	<b>\$3,900,000.00</b>	<b>\$-</b>	<b>\$-</b>	<b>\$89,287,110.00</b>

**NEW BUSINESS (NB1)**

**Lower Cape Fear Water & Sewer  
Authority**

## **AGENDA ITEM**

**To:** CHAIRMAN BLANCHARD AND BOARD MEMBERS

**From:** TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

**Date:** June 5, 2023

**Re:** Engineering Services Associated with Kings Bluff Raw Water Pump Station  
Air Backwash Building and Access Walkway Replacement

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

---

Background: KB-6 is the Master Plan designation for this project which has reached a critical stage in the need for replacement.

**Action Requested:** Consider approval of the Engineering Contract

**Resolution Awarding Contract for Engineering Services Associated with Kings Bluff Raw Water Pump Station Air Backwash Building and Access Walkway Replacement**

**WHEREAS**, the replacement of walkway is KB-6 of the Master Planning Document approved by the Authority Board; and

**WHEREAS**, the criticality of the condition of the walkway warrants an expedited replacement schedule, and

**Now Therefore Be It Resolved**, that the Board of Directors for the Lower Cape Fear Water & Sewer Authority awards the design of the structure and all accessory support infrastructure to McKim and Creed. Once the design is completed, there will be a separate bid and construction monitoring service.

**Furthermore**, the Board designates that the Chairman and the Executive Director of the Authority are duly authorized to execute the contract on behalf of the Authority.

**Adopted this 5<sup>th</sup> day of June 2023**

\_\_\_\_\_  
**Norwood Blanchard, Chairman**

**ATTEST:**

\_\_\_\_\_  
**Patrick DeVane, Secretary**



## **AGENDA ITEM**

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: June 5, 2023

Re: Personnel Leave and Compensation Amendment

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

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Background: The Personnel Committee met in April and discussed two possible changes to the Personnel Policy. One, matching Employee's 401k up to six percent was recommended to the Board and approved at the Board's regular April Meeting. The second item related to employees being able to request the use of up to one week of vacation or paid time off in liquid monetary compensation as long as certain parameters were met.

Chapter 5- Holiday and Leave Policies:

Paragraph 3:

Current:

Up to fifty (50) days of annual leave may be accumulated by an employee and may be compensated at the termination of employment by the Authority. However, not more than (30) days of annual leave may be carried from one fiscal year to the next. Leave credit in excess of this limit shall be forfeited as of midnight, June 30th of each year.

Proposed:

Up to sixty (60) days of annual leave may be accumulated by an employee and may be compensated at the termination of employment by the Authority. However, not more than (45) days of annual leave may be carried from one fiscal year to the next. Leave credit in the excess amount of this limit shall be rolled over into the employee's sick leave as of midnight, June 30th of each year.

Current:

Employees shall be entitled to at most (30) days of annual leave in any fiscal year unless the maximum carried over from one year to the next is waived as described in the preceding

sentence. Under no circumstances shall an employee be paid for accumulated and unused annual leave except for compensation at the termination of employment as provided herein.

**Proposed:**

Employees shall be entitled to at most (45) days of annual leave in any fiscal year. Employees shall be eligible to request up to one week of pay for one week of accumulated leave each fiscal year.

**Action Requested:** Consider approval of the Personnel Policy changes.

Chapter 5- Holiday and Leave Policies:

Paragraph 3:

Current:

Up to fifty (50) days of annual leave may be accumulated by an employee and may be compensated at the termination of employment by the Authority. However, not more than (30) days of annual leave may be carried from one fiscal year to the next. Leave credit in excess of this limit shall be forfeited as of midnight, June 30th of each year.

Proposed:

Up to sixty (60) days of annual leave may be accumulated by an employee and may be compensated at the termination of employment by the Authority. However, not more than (45) days of annual leave may be carried from one fiscal year to the next. Leave credit in the excess amount of this limit shall be rolled over into the employee's sick leave as of midnight, June 30th of each year.

Current:

Employees shall be entitled to at most (30) days of annual leave in any fiscal year unless the maximum carried over from one year to the next is waived as described in the preceding sentence. Under no circumstances shall an employee be paid for accumulated and unused annual leave except for compensation at the termination of employment as provided herein.

Proposed:

Employees shall be entitled to at most (45) days of annual leave in any fiscal year. Employees shall be eligible to request up to one week of pay for one week of accumulated leave each fiscal year.

**NEW BUSINESS (NB3)**

**Lower Cape Fear Water & Sewer  
Authority**

## **AGENDA ITEM**

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: June 5, 2023

Re: Amendment to Contract NO:23-W012

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

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Background: The original ILA stipulated that State Funding would be used for construction only, creating a cash flow problem regarding the preliminary engineering work and billing of partnering entities.

This ILA amendment that wording and accommodates billing upfront to keep the project moving and viable.

**Action Requested:** Motion to Approve or Disapprove

**Resolution Approving An Amendment to Interlocal Agreement for A Phased 10 Mile Parallel Raw Water Line Project for the Lower Cape Fear Water and Sewer Authority**

**WHEREAS**, the Lower Cape Fear Water and Sewer Authority (“LCFWASA”), Cape Fear Public Utility Authority, Pender County and Brunswick County, entered into an Interlocal Agreement Regarding Raw Water Pipeline System Improvements (“ILA”) dated March 24, 2023, for the purposes of memorializing their respective duties, responsibilities, and entitlements regarding the design, construction, scheduling, funding, operation, maintenance, use, and ownership in the design and construction of approximately 36,200 linear feet of pipe and related infrastructure to parallel the existing raw water line from the current termination point of redundant infrastructure near the 3 million gallon ground storage tank located at Brunswick County’s Northwest Water Treatment Plant at the 54”/48” interconnection through the 6.86 miles of unparalleled infrastructure within LCFWASA-owned easements and connect with the existing 48” transmission main near the existing 48”X36” tee near the interconnected Pender County supply main in New Hanover County (the “Project”);

**WHEREAS**, LCFWASA received \$23.5 million from the Coronavirus State Fiscal Recovery Fund (“State Fiscal Recovery Fund”) (S.L. 2021-180), established pursuant to Sections 602 and 603 of the Social Security Act, as added by Section 9901 of the American Rescue Plan Act of 2021, Pub. L. No. 117-2 (“ARPA”); and,

**WHEREAS**, due to the funding, scope, and anticipated time schedule of the Project, and the nature of the cost share provisions more particularly set forth in the ILA, the parties desire to amend the ILA by deleting the following sentence in Section IV.A (“State Fiscal Recovery Fund / ARPA Funding”): “The \$23.5 million of State Fiscal Recovery Fund /ARPA funding to be provided by LCFWASA will be expended in full toward the completion of the Project prior to any Cost Share payment by any other party to this Agreement.”

**NOW, THEREFORE, BE IT RESOLVED**, by the Chairman and the Directors of the Lower Cape Fear Water and Sewer Authority, that the Chairman is hereby authorized to execute an amendment to the ILA, “AMENDMENT NO: 1 TO CONTRACT NO: 23-W012, CAPE FEAR PUBLIC UTILITY AUTHORITY.”

**THEREFORE, BE IT FURTHER RESOLVED**, that a copy of this Resolution be recorded in the permanent minutes of this Board.

**Adopted this 5th day of June 2023.**

\_\_\_\_\_  
Norwood Blanchard, Chairman

**ATTEST:**

\_\_\_\_\_  
Patrick DeVane, Secretary

STATE OF NORTH CAROLINA  
NEW HANOVER COUNTY

**AMENDMENT NO: 1  
TO CONTRACT NO: 23-W012**

**CAPE FEAR PUBLIC UTILITY AUTHORITY**

AMENDMENT TO CONTRACT

THIS AMENDMENT TO CONTRACT (the "Amendment") is effective as of the date of final execution by all parties (the "Effective Date") by and between CAPE FEAR PUBLIC UTILITY AUTHORITY ("CFPUA"), a water and sewer authority organized under North Carolina General Statute Chapter 162A; LOWER CAPE FEAR WATER & SEWER AUTHORITY ("LCFWASA"), a water and sewer authority organized under North Carolina General Statute Chapter 162A; BRUNSWICK COUNTY, a political subdivision of the State of North Carolina ("Brunswick"); and PENDER COUNTY, a political subdivision of the State of North Carolina ("Pender"), collectively hereinafter referred to as the "Parties."

WITNESSETH:

WHEREAS, the Parties originally entered into Contract No: 23-W012 on March 24, 2023 (the "Agreement") to memorialize their respective duties, responsibilities, and entitlements regarding the design, construction, scheduling, funding, operation, maintenance, use, and ownership in the design and construction of approximately 36,200 linear feet of pipe and related infrastructure to parallel the existing raw water line from the current termination point of redundant infrastructure near the 3 million gallon ground storage tank located at Brunswick County's Northwest Water Treatment Plant at the 54"/48" interconnection through the 6.86 miles of unparallelled infrastructure within LCFWASA-owned easements and connect with the existing 48" transmission main near the existing 48"X36" tee near the interconnected Pender County supply main in New Hanover County;

WHEREAS, the Parties hereto desire to reduce the terms of this amendment to writing; and

THEREFORE, for and in consideration of the mutual promises to each other, the Parties do mutually agree to amend the Contract, as follows:

1. Section IV.A. "State Fiscal Recovery Fund /ARPA Funding", is amended by deleting the following sentence in its entirety: "The \$23.5 million of State Fiscal Recovery Fund /ARPA funding to be provided by LCFWASA will be expended in full toward the completion of the Project prior to any Cost Share payment by any other party to this Agreement."
2. Except as specifically changed by this Amendment, all other terms, conditions, and other provisions of the Contract remain in full force and effect.
3. Multiple Counterparts. This Amendment may be executed in any number of counterpart copies, each such copy shall be deemed to be an original document, and all such copies taken together shall constitute one instrument.

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY BLANK]

Cape Fear Public Utility Authority Contract 23-W012

IN WITNESS WHEREOF, the Boards or Council of the respective parties have approved this Amendment and have caused it to be signed by the Chairperson or Mayor and attested to by the Secretary or Clerk, as of the year and day first written above.

This, the \_\_\_\_\_ day \_\_\_\_\_, 2023.

CAPE FEAR PUBLIC UTILITY AUTHORITY

(SEAL)

By: \_\_\_\_\_

\_\_\_\_\_, Chairperson

ATTEST:

\_\_\_\_\_

Secretary

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act this the \_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_

Authority Finance Officer

STATE OF NORTH CAROLINA

COUNTY OF NEW HANOVER

I, \_\_\_\_\_, a Notary Public of the State and County aforesaid, certify that \_\_\_\_\_ personally appeared before me this day and acknowledged that he is the Secretary of the CAPE FEAR PUBLIC UTILITY AUTHORITY, a North Carolina body politic and corporate, and that by authority duly given and as the act of the Authority, the foregoing instrument was signed in its name by its Chairperson, sealed with its corporate seal and attested by its Secretary.

WITNESS my hand and notarial seal, this \_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_

Notary Public

My Commission Expires:

\_\_\_\_\_

(Seal)

Cape Fear Public Utility Authority Contract 23-W012

LOWER CAPE FEAR WATER AND SEWER AUTHORITY

(SEAL)

By: \_\_\_\_\_

\_\_\_\_\_, Chairperson

ATTEST:

\_\_\_\_\_

Secretary

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act this the \_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_

Authority Finance Officer

STATE OF NORTH CAROLINA

COUNTY OF \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public of the State and County aforesaid, certify that \_\_\_\_\_ personally appeared before me this day and acknowledged that he is the Secretary of the LOWER CAPE FEAR WATER AND SEWER AUTHORITY, a North Carolina body politic and corporate, and that by authority duly given and as the act of the Authority, the foregoing instrument was signed in its name by its Chairperson, sealed with its corporate seal and attested by its Secretary.

WITNESS my hand and notarial seal, this \_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_

Notary Public

My Commission Expires:

\_\_\_\_\_

(Seal)



Cape Fear Public Utility Authority Contract 23-W012

**PENDER COUNTY**

**(COUNTY SEAL)**

By: \_\_\_\_\_

\_\_\_\_\_, Manager

**ATTEST:**

\_\_\_\_\_

County Clerk

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act this the \_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_

County Finance Officer

Cape Fear Public Utility Authority Contract 23-W012

**BRUNSWICK COUNTY**

**(COUNTY SEAL)**

By: \_\_\_\_\_

\_\_\_\_\_, Manager

**ATTEST:**

\_\_\_\_\_

County Clerk

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act this the \_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_

County Finance Officer

**NEW BUSINESS (NB4)**

**Lower Cape Fear Water & Sewer  
Authority**

## **AGENDA ITEM**

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: June 5, 2023

Re: Resolutions of Governing Board or Recipient for Project No. SPR-D-ARP-0170 48" Parallel Raw Water Main Project American Rescue Plan-S.L. 2022-74 Leland, NC

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

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**Action Requested:** Motion to Approve or Disapprove

**RESOLUTION OF GOVERNING BOARD OF RECIPIENT  
For Project No. SRP-D-ARP-0170 48" Parallel Raw Water Main Project  
American Rescue Plan-S.L. 2022-74 Leland, NC**

**Whereas**, the American Rescue Plan Act (ARPA), funded from the State Fiscal Recovery Fund, was established in Session Law (S.L.) 2021-180 and S.L. 2022-74 to assist eligible units of local government with meeting their drinking water needs, and

**Whereas**, the North Carolina Department of Environmental Quality has offered ARPA funding in the amount of \$23,500,000 to perform the work detailed in the submitted application, and

**Whereas**, the Lower Cape Fear Water and Sewer Authority intends to perform the said project in accordance with the agreed scope of work,

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of Lower Cape Fear Water & Sewer Authority hereby accepts the ARPA grant of 23,500,000 million dollars; and

That the LCFWASA does hereby give assurance to the North Carolina Department of Environmental Quality that any Conditions or Assurances contained in the Funding Offer and Acceptance will be adhered to; has substantially complied, or will substantially comply, with all federal, State of North Carolina and local laws, rules, regulations, and ordinances applicable to the project; and to federal and State grants and loans pertaining thereto; and

That Tim Holloman, Executive Director, and successors so titled, is hereby authorized and directed to furnish such information as the appropriate State Agency may request in connection with this project; to make the assurances as contained above; and to execute such other documents as may be required by the North Carolina Department of Environmental Quality, Division of Water infrastructure.

**Adopted this 5th day of June 2023.**

\_\_\_\_\_  
Norwood Blanchard, Chairman

**ATTEST:**

\_\_\_\_\_  
Patrick DeVane, Secretary

**NEW BUSINESS (NB5)**

**Lower Cape Fear Water & Sewer  
Authority**

## **AGENDA ITEM**

**To:** CHAIRMAN BLANCHARD AND BOARD MEMBERS

**From:** TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

**Date:** June 5, 2023

**Re:** Resolutions of Governing Board or Recipient for Project No. SPR-D-ARP-0138 Pre-Construction Planning Grant and Rate Study American Rescue Plan-S.L.-2022-74 Leland, NC

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

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**Action Requested:** Motion to Approve or Disapprove

**RESOLUTION OF GOVERNING BOARD OF RECIPIENT  
For Project No. SRP-D-ARP-0138 Pre-Construction Planning Grant and Rate Study  
American Rescue Plan-S.L. 2022-74 Leland, NC**

**Whereas**, the American Rescue Plan Act (ARPA), funded from the State Fiscal Recovery Fund, was established in Session Law (S.L.) 2021-180 and S.L. 2022-74 to assist eligible units of local government with meeting their drinking water needs, and

**Whereas**, the North Carolina Department of Environmental Quality has offered ARPA funding in the amount of \$275,000 to perform the work detailed in the submitted application, and

**Whereas**, the Lower Cape Fear Water and Sewer Authority intends to perform the said project in accordance with the agreed scope of work,

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of Lower Cape Fear Water & Sewer Authority hereby accepts the ARPA grant of 275,000 dollars; and

That the LCFWASA does hereby give assurance to the North Carolina Department of Environmental Quality that any Conditions or Assurances contained in the Funding Offer and Acceptance will be adhered to; has substantially complied, or will substantially comply, with all federal, State of North Carolina and local laws, rules, regulations, and ordinances applicable to the project; and to federal and State grants and loans pertaining thereto; and

That Tim Holloman, Executive Director, and successors so titled, is hereby authorized and directed to furnish such information as the appropriate State Agency may request in connection with this project; to make the assurances as contained above; and to execute such other documents as may be required by the North Carolina Department of Environmental Quality, Division of Water infrastructure.

**Adopted this 5th day of June 2023.**

\_\_\_\_\_  
Norwood Blanchard, Chairman

**ATTEST:**

\_\_\_\_\_  
Patrick DeVane, Secretary

## **AGENDA ITEM**

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: June 5, 2023

Re: Executive Director's Report

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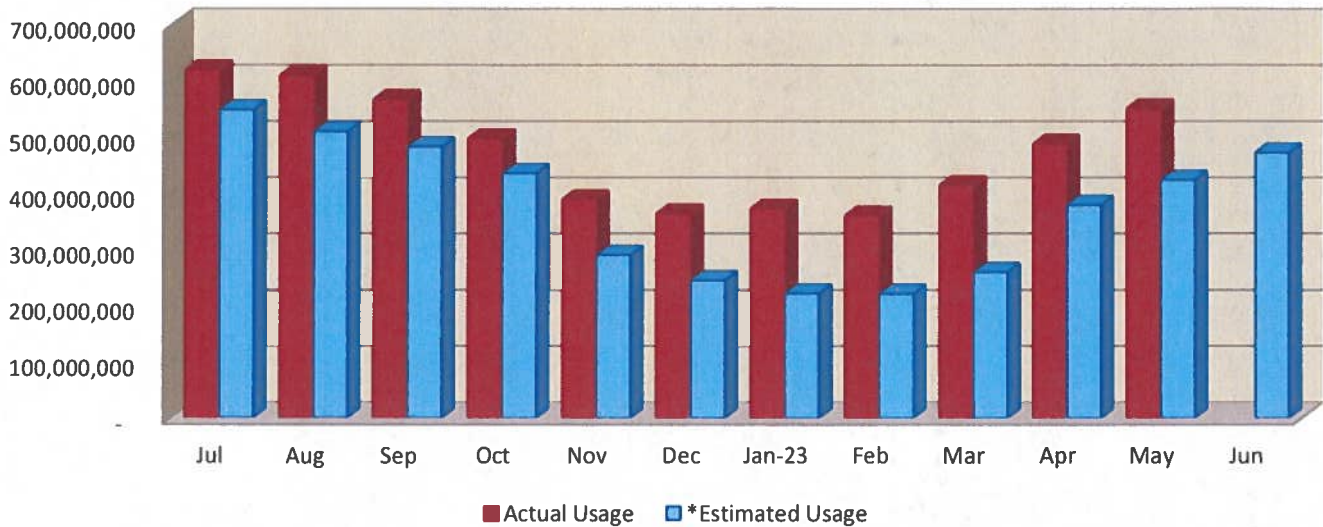
**EDR1** - Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending May 31, 2023

**EDR2** - Operating Budget Status, Ending April 30, 2023

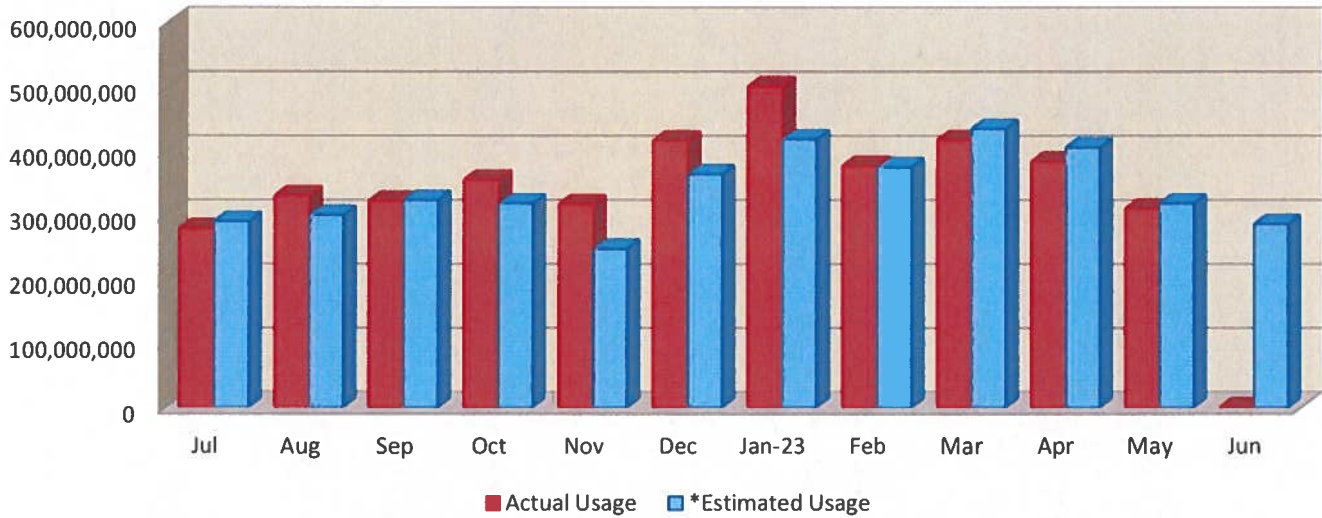
**EDR3** - Summary of Activities.

**Action Requested:** For information purposes.

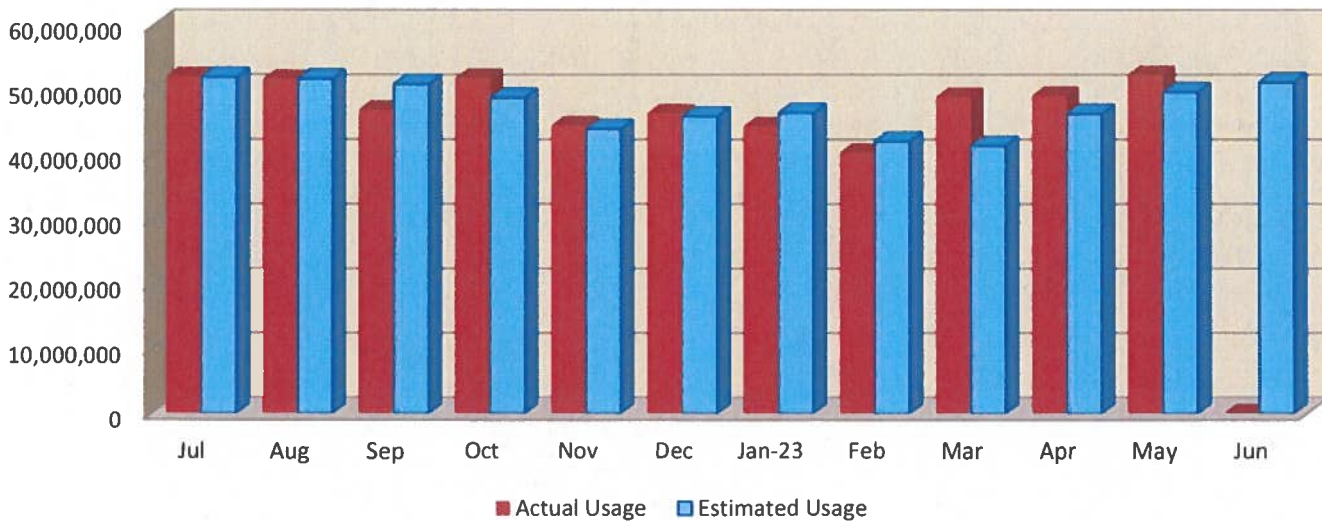
### Brunswick County Water Usage FY 22-23



### CFPUA Water Usage FY 22-23



### Pender County Water Usage FY 22-23





OPERATING FUND BUDGET PERFORMANCE

Jul-1 through Apr 30

Income	Approved	Approved	Jul 1- Apr 30	Jul 1- Apr 30	Jul 1- Apr 30	Budget As of 04/30/2023
	Annual Budget	Adjusted Budget	Kings Bluff	Bladen Bluffs	OF BUDGET	
<b>3000-01 - OPERATING REVENUE</b>						
3001-01 - 01 Bruns County Public Utility	1,566,597	1,606,437	1,683,452		1,683,452	105%
3002-01 - 01 CFPUA	1,428,403	2,869,315	2,762,273		2,762,273	96%
3003-01 - 01 Pender County	199,518	551,428	515,454		515,454	93%
3004-01 - 01 HWY 421 - Stepan	79,618	141,566	187,471		187,471	132%
3005-01 - 01 Praxair, Inc	2,095	61,179	66,223		66,223	108%
3006-01 - 01 Bladen Bluffs Revenue	3,654,318	4,673,818		4,305,177	4,305,177	92%
Bladen Admin Reimb	102,190	102,190		115,908	115,908	113%
3007-01 - Sales Tax Refund Revenue	100,000	100,000		114,314	114,314	114%
<b>Total 3000-01 - OPERATING REVENUE</b>	<b>7,132,739</b>	<b>10,105,933</b>	<b>5,214,873</b>	<b>4,535,400</b>	<b>9,750,273</b>	<b>96%</b>
<b>3100-00 - OF NONOPERATING REVENUE</b>						
3120-00 - Revenue-Other						
Interest & Investment Revenue	500	500	151		151	30%
FEMA Reimbursement	0	0	6,630		6,630	
Refunds / Insurance Proceeds/ Other	0	0	4,349	1,251	5,600	
3156-00 - Rental Income	0	0	13,361		13,361	
3180-00 - SRF/Parallel Revenue	0	1,900,000	0		0	
3900-01 R&R Fund Appropriated	0	0	0		0	
2900-00 Fund Balance	0	0	0		0	
<b>Total 3100-00 - OF NONOPERATING REVENUE</b>	<b>500</b>	<b>1,900,500</b>	<b>24,490</b>	<b>1,251</b>	<b>25,741</b>	<b>5148%</b>
<b>Total Income</b>	<b>7,133,239</b>	<b>12,006,433</b>	<b>5,239,363</b>	<b>4,536,650</b>	<b>9,776,014</b>	<b>81%</b>
<b>Expense</b>						
<b>4000-01 - ADMINISTRATION EXPENDITURES</b>						
4001-01 - Salary - gross	187,024	187,024	103,035	46,756	149,791	80%
4010-01 - Per Diem= mileage+per diem pay	62,500	62,500	30,454	15,625	46,079	74%
4012-01 - Vehicle Allowance	5,200	5,200	3,100	1,300	4,400	85%
4070-02 - Phone Allowance	520	520	310	130	440	85%
4015-01 - Payroll Taxes	19,542	19,542	10,307	4,886	15,193	78%
4029-01 - Retirement Employer's Part	22,462	22,462	12,382	5,616	17,997	80%
4035-01 - 401K Employer PD Contribution	5,311	5,311	3,098	1,328	4,426	83%
4036-01 - Payroll Processing Exp	2,900	2,900	2,288		2,288	79%
4038-01 - Insurance Group	38,074	38,074	17,300	9,519	26,818	70%
4039-01 - Insurance, Property	94,301	94,301	76,372	23,575	99,948	106%
4046-00 Professional Services General	15,000	15,000	(0)	0	(0)	0%
4046-01 - Attorney	30,000	45,000	36,246		36,246	81%
4046-02 - Auditor	9,000	9,000	5,400	2,800	8,200	91%
4046-03 - Engineer	253,041	239,541	149,737	0	149,737	63%
4049-01 Information Technology	14,000	14,000	3,644	0	3,644	26%
4055-01 - Office Maint/Repair	23,902	23,902	11,638		11,638	49%
4058-01 Office Utilities	5,000	5,000	1,600		1,600	32%
4059-01 Office Expense	14,000	17,500	14,127		14,127	81%
4062-01 Office Equipment	10,000	15,000	11,086		11,086	74%
4064-01 Printing & Advertising	6,500	7,500	5,629		5,629	75%
4065-01 Telephone and Internet	3,500	3,500	2,648		2,648	76%
4070-01 - Travel & Training	26,000	33,000	25,260		25,260	77%
4080-01 - Miscellaneous Expenses	15,000	23,000	19,569		19,569	85%
<b>Total 4000-01 - ADMINISTRATION EXPENDITURES</b>	<b>862,777</b>	<b>888,777</b>	<b>545,230</b>	<b>111,534</b>	<b>656,763</b>	<b>74%</b>
<b>4500-01 - OPERATING EXPENDITURES</b>						
4501-00 - Sales Tax Expense - Other	100,000	100,000		93,892	93,892	94%
4510-01 - Bladen Bluffs Expenses	2,335,094	3,315,596		2,893,706	2,893,706	87%
4520-01 - Utilities-Energy Pump Station	756,336	730,336	599,221		599,221	82%
4530-01 - Kings Bluff O&M Expenses	510,822	549,822	447,028		447,028	81%
4535-01 Kings Bluff Hurricane Other FEMA	0	0	0		0	0%
4543-01 - Series 2012 Bond Principal (ST)	0	0	0		0	0%
4544-01 - Series 2012 Bond Interest (ST)	0	0	0		0	0%
4545-01 - Series 2010 Bond Principal (BB)	850,000	910,000		910,000	910,000	100%
4546-01 - Series 2010 Bond Interest (BB)	297,500	256,998		347,154	347,154	135%
5180-00 - SRF/Parallel Expenditures	0	1,900,000		0	0	0%
7400-01 - Operating Capital Expense	911,875	2,846,069		2,219,441	2,219,441	78%
4998-05- Transfer to R&R- KB R&R Expense	250,000	250,000	250,000		250,000	100%
2041-01- 421 Relocation NHC Loan Principal	258,835	258,835		258,835	258,835	100%
<b>Total 4500-01 - OPERATING EXPENDITURES</b>	<b>6,270,462</b>	<b>11,117,656</b>	<b>1,046,249</b>	<b>6,723,028</b>	<b>8,019,278</b>	<b>72%</b>
<b>Total Expense</b>	<b>7,133,239</b>	<b>12,006,433</b>	<b>1,591,479</b>	<b>6,834,562</b>	<b>8,676,041</b>	<b>72%</b>

Executive Director Highlighted Activities:

- Met with CFPUA representatives to discuss a second ILA for a 5 million dollar no-interest loan on multiple occasions.
- Met with Owners Advisor about the 48-inch transmission line contract structure.
- Attend Rural Water Annual Conference.
- Work with Bladen Bluff and Financial Administrative Assistant regarding detailed Bladen Bluff Operations and Maintenance Budget.
- Attended Lower Cape Fear River Protection quarterly meeting and tour of the new H2GO Reverse Osmosis Water Treatment Plant
- Began investigating solar power as an alternate power source for Kings Bluff
- Continue to get quotes to replace the roof on the original plant site of Kings Bluff.
- Worked with Richard Spruill with GBA Consulting to speak after the June 5<sup>th</sup> regular meeting.
- Contacted Willdan on the status of the Rate Study
- Working with Glenn Walker, Matt Nichols, and Tony Boahn on a method to use the same equipment standardization we currently have for the 4th pump.