



## **AGENDA**

**Lower Cape Fear Water & Sewer Authority  
1107 New Pointe Boulevard, Suite # 17, Leland, North Carolina  
9:00 a.m. – Regular Monthly Board Meeting  
July 11, 2022**

**MEETING CALL TO ORDER:** Chairman Rivenbark

**INVOCATION**

**PLEDGE OF ALLEGIANCE**

### **APPROVAL OF CONSENT AGENDA**

- C1** - Minutes of June 6, 2022, Regular Board Meeting
- C2** - Minutes of June 6, 2022, Personnel Committee Meeting
- C3** - Kings Bluff Monthly Operations and Maintenance Report
- C4** - Bladen Bluffs Monthly Operations and Maintenance Reports

### **OLD BUSINESS**

**OB1-** Fuquay-Varina Water Supply and Interbasin Transfer Project

### **ENGINEER'S COMMENTS**

### **ATTORNEY COMMENTS**

### **EXECUTIVE DIRECTOR REPORT**

- EDR1**—Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date  
Ending June 30, 2022
- EDR2**—Operating Budget Status, Ending May 31, 2022
- EDR3**—Summary of Activities

### **DIRECTOR'S COMMENTS AND/OR FUTURE AGENDA ITEMS**

### **PUBLIC COMMENT**

### **CLOSED SESSION**

**CS1** – Closed Session in accordance with N.C.G.S. §143-318.11(a)(3) to consult with attorney in order to preserve the attorney-client privilege

### **ADJOURNMENT**

*The next board meeting of the Lower Cape Fear Water & Sewer Authority is scheduled for Monday, August 8th 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 RIVENBARK AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: July 11, 2022

Re: Consent Agenda

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

---

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 June 6<sup>th</sup>, 2022, Regular Board Meeting

**C2-** Minutes of June 6<sup>th</sup>, 2022, Personnel Committee Meeting

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

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

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

Lower Cape Fear Water & Sewer Authority  
Regular Board Meeting Minutes  
June 6<sup>th</sup>, 2022

Chairman Rivenbark called to order the Authority meeting scheduled on June 6<sup>th</sup>, 2022, 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 Leonard gave the invocation.

**Roll Call by Chairman Rivenbark:**

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

**Present by Virtual Attendance:** Jackie Newton

**Absent:** Bill Saffo

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

**Guests Present:** Glenn Walker, Brunswick County Water Resources Manager

**Guests Virtual Attendance:** Ken Waldroup, Cape Fear Public Utility Authority Executive Director; Tom Hendrick, Pender County Utilities; and Jordan Clark, Computer Warriors

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

**APPROVAL OF CONSENT AGENDA**

C1 - Minutes of May 9, 2022, Regular Board Meeting

C2 - Minutes of May 9, 2022, Finance Committee Meeting

C3 - Kings Bluff Monthly Operations and Maintenance Report

C4 - Bladen Bluffs Monthly Operations and Maintenance Reports

C5 - Line-Item Adjustment for April 30, 2022

C6 - Budget Amendment #3

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 2022-2023

**Motion:** Director Norris **MOVED**; seconded by Director Blanchard, approval of the Consent Agenda Items C1-C7 B as presented. Upon vote, the **MOTION CARRIED UNANIMOUSLY**.

	<u>For</u>	<u>Against</u>	<u>Abstained</u>	<u>Absent</u>
Norwood Blanchard	X			
Patrick DeVane	X			
Wayne Edge	X			
Harry Knight	X			
Al Leonard	X			
Jackie Newton	X			
Phil Norris	X			
Scott Phillips	X			
Charlie Rivenbark	X			
Bill Saffo				X
Chris Smith	X			
Bill Sue	X			
Frank Williams	X			
Rob Zapple	X			
	13	0	0	1

**Motion:** Director Blanchard **MOVED**; seconded by Director Williams approval of excusing Director Saffo from the June 6<sup>th</sup>, 2022, Board Meeting. Upon vote, the **MOTION CARRIED UNANIMOUSLY**.

	<u>For</u>	<u>Against</u>	<u>Abstained</u>	<u>Absent</u>
Norwood Blanchard	X			
Patrick DeVane	X			
Wayne Edge	X			
Harry Knight	X			
Al Leonard	X			
Jackie Newton	X			
Phil Norris	X			
Scott Phillips	X			
Charlie Rivenbark	X			
Bill Saffo				X
Chris Smith	X			
Bill Sue	X			
Frank Williams	X			
Rob Zapple	X			
	13	0	0	1

## OLD BUSINESS

### **OB1- Finance Committee Recommended Budget for Fiscal Year 2022-2023**

Chairman Rivenbark advised the public hearing on the budget was held last month, May 9, 2022. There were no written comments.

**Motion:** Director Philips **MOVED**; seconded by Director Sue, to approve Fiscal Year 2022-2023 Budget. Upon vote, the **MOTION CARRIED UNANIMOUSLY**.

	<u>For</u>	<u>Against</u>	<u>Abstained</u>	<u>Absent</u>
Norwood Blanchard	X			
Patrick DeVane	X			
Wayne Edge	X			
Harry Knight	X			
Al Leonard	X			
Jackie Newton	X			
Phil Norris	X			
Scott Phillips	X			
Charlie Rivenbark	X			
Bill Saffo				X
Chris Smith	X			
Bill Sue	X			
Frank Williams	X			
Rob Zapple	X			
	13	0	0	1

## ENGINEER'S COMMENTS

Tony Boahn updated the small leak on the 48-inch PCCP raw water main. The leak is located between Kings Bluff and BlackRock Road. The build-up of rust and lime lets us know the leak has been small and slow, which means the leak has been occurring for a while. The county has four bids received to repair the leak. Mr. Boahn advised they have decided to go with TA Lowing Company with a bid of \$127,600 to repair the leak. Director DeVane questioned if the line was still leaking. Tony advised they were able to take the line down to repair the leak. Director Blanchard asked how often someone would walk the 54-inch pipeline to check for leaks. Glenn Walker advised that with the Mudd Max purchase, the pipeline will be surveyed monthly. Director Zapple wanted to know if we had thought about using a drone to monitor the pipeline. Executive Director Holloman advised that he has also spoken with Jack

---

Hogan regarding utilizing a drone. Glenn Walker also stated there is a company that will use satellite imagery for you to see the temperature difference along the right of way.

**ATTORNEY COMMENTS**

No comments

**EXECUTIVE DIRECTOR REPORT****EDR1 – Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending May 31, 2022**

Executive Director Holloman reported that during the month of May 2022, Brunswick County, CFPUA, and Pender County were above projections. Monthly revenue was up last month.

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

No comments

**PUBLIC COMMENT**

No comments

**ADJOURNMENT**

There being no further business, Chairman Rivenbark adjourned the meeting at 9:23 a.m.

Respectfully Submitted:

---

Harry Knight, Secretary

**Lower Cape Fear Water & Sewer Authority**  
**Personnel Committee Meeting Minutes**  
**June 6, 2022**

Chairman Rivenbark called to order the Finance Committee Meeting on June 6, 2022, at 8:30 a.m. The meeting was held at the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

**Present:** Wayne Edge, Harry Knight, Al Leonard, Charlie Rivenbark, and William Sue

**Present by Virtual Attendance:** Jackie Newton

**Absent:** Bill Saffo

**Staff:** Tim Holloman, Executive Director; Matthew Nichols, General Counsel; Patrick Flanagan, COG; and Danielle Hertzog, Financial Administrative Assistant

**Guest:** Patrick DeVane and Rob Zapple

**Presentation: Discuss the 2022 Personnel Meeting Calendar and 2023 Personnel Meeting Calendar**

Executive Director Holloman advised he would like for the committee to meet Quarterly with meetings being held on September 12<sup>th</sup>, 2022, December 12<sup>th</sup>, 2022, March 13<sup>th</sup>, 2023, and June 5<sup>th</sup>, 2023.

**Motion:** Director Wayne **MOVED**; seconded by Director Knight to approve 2022-2023 Personnel Committee Calendar. Upon vote, the **MOTION CARRIED UNANIMOUSLY**.

	<u>For</u>	<u>Against</u>	<u>Abstained</u>	<u>Absent</u>
Wayne Edge	X			
Harry Knight	X			
Al Leonard	X			
Jackie Newton	X			
Charlie Rivenbark	X			
Bill Saffo				X
Bill Sue	X			
	6	0	0	1

Director Leonard wanted to know if there was an update on Danielle Hertzog attending classes to become a certified clerk. Executive Director Holloman advised it will take 18 to 24 months, and as soon as he has a schedule, he will bring it to the board.

**ADJOURNMENT**

There being no further business, Chairman Rivenbark adjourned the meeting at 8:37 a.m.

Respectfully Submitted,

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

---

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:** Jack Hogan

**DATE:** 6/30/2022

**SUBJECT:** Monthly maintenance report for June 2022

---

Mr. Holloman,

The Maintenance and Operations of the king's bluff facility for the month of June 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 have painted exterior electrical cabinets behind the station and next to the generator building.

KB personnel completed painting of the valve operators on the 48" ad 54" discharge lines at the station.

KB personnel completed painting of the inlet and discharge lines on the raw tank booster pumps.

KB personnel completed painting of the pig launcher located on the new 54" discharge line located next to the generator building.

KB personnel have prepped and painted the covers for the blowoff lines located on the new 54" discharge line. Installation of covers will be completed soon.

KB personnel have completed hanging of the sheetrock in the old side office and are currently mudding and finishing the joints of the sheetrock to prepare for painting soon.

KB personnel completed an incoming utility power shutdown requested by Duke Energy to make repairs to their main substation located off Old Lake Road. The shutdown was 3 hours and afterwards incoming utility power was restored and KBPS was off generator.

KB personnel completed power curtailment with Duke Energy as per the DRA contract. The curtailment was for 6 hours as requested.

KB personnel worked with Brunswick Co. I&C dept. on replacement of the (Hydro Ranger) level transmitter on the new side wet well # 2 which failed.

KB personnel put the 48" booster pump supply line to booster pumps back in full service on 6/24/22. All lines at the raw tank are in normal operating position currently.

KB personnel worked with Brunswick Co. Operational services dept. to remove all demolition concrete and other construction materials and trash from the raw tank area and to relocate the 48" retriever piping to inside the raw tank fence area for storage and future use.

KB personnel completed testing of the new summer mode setpoints to accommodate the increased usage by Authority customers.

Contractor:

Pridgen Brothers completed the installation of the new Trane 20-ton HVAC air handling unit for the VFD room

Thank you,  
Jack

Hogan





To: Tim Holloman - LCFWASA

From: James Kern – Bladen Bluffs SWTP ORC

Date: 7/1/22

Subject: June 2022 Operations

During the month of June, Bladen Bluffs SWTP operated a total of 22 days, treating 58.47 million gallons of water.

We used:

33,451 lbs. of aluminum sulfate (Alum)

10,230 lbs. of sodium hydroxide (Caustic)

1,917 lbs. of sodium hypochlorite (3,849 gallons of 6% Chlorine Bleach)

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

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

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

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.)

Year: 2022 PWS Name: Bladen Bluffs Water System PWSID#: NC5009012  
 Month: June Facility Name: Bladen Bluff

## Combined Filter Effluent (CFE) Turbidity

Samples exceeding 1 NTU (count):	<u>0</u>	Number of samples required:	<u>117</u>
Samples exceeding .3 NTU (count):	<u>0</u>	Number of samples taken:	<u>117</u>
Samples exceeding .3 NTU (pct):	<u>0.0%</u>	Highest single turbidity reading NTU:	<u>0.097</u>
		Monthly average turbidity NTU:	<u>0.054</u>

## Individual Filter Effluent (IFE) Turbidity

1) Was each filter <u>continuously</u> monitored for turbidity?	Yes	<u>X</u>	No	<u></u>
2) Was each filter's monitoring results <u>recorded every 15 minutes</u> ?	Yes	<u>X</u>	No	<u></u>
3) Was there a failure of the continuous turbidity monitoring equipment?	Yes	<u></u>	No	<u>X</u>
4) Was any individual filter turbidity level > 1.0 NTU in two consecutive measurements ?	Yes	<u></u>	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	<u></u>	No	<u>X</u>
6) Was any individual filter turbidity level > 1.0 NTU in two consecutive measurements in each 3 consecutive months ?	Yes	<u></u>	No	<u>X</u>
7) Was any individual filter turbidity level > 2.0 NTU in two consecutive measurements in 2 consecutive months ?	Yes	<u></u>	No	<u>X</u>

## Entry Point Residual Disinfectant Concentration (EPRD)

Disinfectant Used	<u>Chlorine</u>	Number of samples required	<u>117</u>
Minimum EPRD concentration	<u>0.4100</u>	Number of samples taken	<u>117</u>

## Distribution Residual Disinfectant Concentration

Number of samples under 0.010 mg/L (without any detectable) excluding where HPC is $\leq$ 500/mL	<u>0</u>
--	----------

## Contact Time (CT) Ratio

Lowest CT ratio reading	<u>23.76</u>	Number of CT ratios required	<u>22</u>
Number of CT ratios below 1.0	<u>0</u>	Number of CT ratios calculated	<u>22</u>

## Remarks From General Info Worksheet

PLANT OPS: CFE coliform 'present' on June 21. Finished was absent. Chlorine pump feeding settled water was briefly clogged. Within 3 or 4 hours, switched pumps and treatment resumed as normal. Following morning, cleared clog and ensured pump was operating correctly. Collected coliform sample at CFE, Post GAC, and Finished next day and all were absent.

☒ 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 June, 2022 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: 7/1/2022

### ISSUE:

### PLAN OF ACTION:

Air on finished water line (from GAC)	Installed trial valves – currently testing
Running spare cl2 lines to settled/finished	Scheduled late August
All PLC need updated	Getting quotes
Ordering backup drives for all pumps	Ordered – One came in
Found small leak in lagoon liner	Contractor has inspected
CL2 leaks	FIXED
Clearwells Inspection	Inspection COMPLETE, awaiting recommendations
Keep losing radio signal in finished building	Plan to install fiber – fiber ordered
Lost signal to three cameras at river	Cameras ordered
Sump Pump Install in Vaults	COMPLETE
Filter #4 turbidity meter failed	FIXED
Floor needs repair and slope in Cl2 containment	Quote approved – scheduling
Cl2 pump #3 lost flow - clogged	FIXED
Generator did not go under load properly	Tested during shutdown and worked correctly
Transfer pump #3 not starting	FIXED
Air compressor #2 not working	Part ordered
Sample drain line at clearwells clogged	Removed garden hose and replaced with 2" PVC

## **AGENDA ITEM**

To: CHAIRMAN RIVENBARK AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: July 11, 2022

Re: Town of Fuquay-Varina Proposed Interbasin Transfer

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

---

**Background:** The Town of Fuquay-Varina has requested an Interbasin Transfer (IBT) amount of 4 million gallons per day (mgd) from the Cape Fear River basin to the Neuse River basin. The transfer amount is based on 2055 demand projections in the Town's service area. This transfer amount will be refined by developing the Environmental Impact Statement (EIS). The Town owns and operates the Terrible Creek Wastewater Treatment Plant (WWTP), which has a current design capacity of 3.0 million gallons per day (mgd), and the Brighton Forest WWTP, which has a design capacity of 0.117 mgd. Both WWTPs are in the Neuse River basin, with the Terrible Creek WWTP discharging into Terrible Creek and the Brighton Forest WWTP discharging into Middle Creek. The Town has also purchased wastewater treatment capacity in the Harnett County WWTP, which discharges into the Cape Fear River. The Town of Fuquay-Varina purchases finished water wholesale from the City of Raleigh, Harnett County and Johnston County on a contract basis; however, discussions with these water sellers have indicated they will be unable to supply the projected water supply demands for the Town. As a result, the Town of Fuquay-Varina has entered discussions with the City of Sanford to purchase 6.0 mgd of finished water supply capacity in their Water Treatment Plant (WTP). The raw water intake and the WTP for the City of Sanford are located in the Cape Fear River basin; therefore, the movement of this water to the service area for the Town of Fuquay-Varina would necessitate the issuance of an IBT Certificate for the Town. (NCDEQ website). We attended the initial public hearings in October of 2020 and have been following the issue closely since that time. The process is moving forward, and we need to discuss the next steps. There are initial discussions regarding a coalition to monitor and address issues with the Fuquay-Varina request. City of Dunn, Fayetteville PWC, CFPWA, LCFWASA, Brunswick County, and Pender County are potential members.

Attachments:  
PWC Comments  
LCFWASA Comments

**Action Requested:** Discussion and Information

DARSWEIL L. ROGERS, COMMISSIONER  
 WADE R. FOWLER, JR., COMMISSIONER  
 EVELYN O. SHAW, COMMISSIONER  
 D. RALPH HUFF, III, COMMISSIONER  
 DAVID W. TREGO, CEO/GENERAL MANAGER



FAYETTEVILLE PUBLIC WORKS COMMISSION  
 955 OLD WILMINGTON RD  
 P.O. BOX 1089  
 FAYETTEVILLE, NORTH CAROLINA 28302-1089  
 TELEPHONE (910) 483-1401  
 WWW.FAYPWC.COM

November 17, 2020

Ms. Mary Sadler, PE  
 Hazen and Sawyer  
 4011 West Chase Blvd, Suite 500  
 Raleigh, NC 27607

Subject: Town of Fuquay-Varina Proposed IBT

Dear Ms. Sadler,

The Fayetteville Public Works Commission submits the following comments concerning the Town of Fuquay-Varina Proposed Interbasin Transfer:

1. Fuquay-Varina is required to prove that there are no reasonable alternatives to the proposed inter-basin transfer, and to date, we have seen no analysis or other evidence that Fuquay-Varina is unable to get additional water from the Neuse River Basin or any other source. In considering such alternatives, the EMC is not limited to consideration of alternatives that have been proposed, studied or considered by Fuquay-Varina. Except in circumstances of technical or economic infeasibility or adverse environmental impact, the EMC's determination as to reasonable alternatives must give preference to alternatives that would involve a transfer from one sub-basin to another within the Neuse River Basin (i.e., major receiving river basin) over Fuquay-Varina's proposed alternative that would involve a transfer from one major river basin (Cape Fear) to another major river basin (Neuse).
2. Fuquay-Varina is also required to prove that the amount of the transfer does not exceed the amount of the projected shortfall under the applicant's water supply plan after first taking into account all other sources of water that are available to the applicant, and to date, we have seen no analysis or other evidence of that from Fuquay-Varina.
3. Fuquay-Varina is required to prove that the benefits of the proposed transfer outweigh the detriments of the proposed transfer and that the detriments have to be mitigated to the maximum degree practicable, and to date, we have seen no analysis or other evidence of that from Fuquay-Varina. In that regard, Fuquay-Varina must address, and EMC must consider all of the following:
  - a. The EMC must consider the necessity and reasonableness of the amount of surface water proposed to be transferred and its proposed uses. The Sanford WTP is quite a distance from Fuquay-Varina. Fuquay-Varina should identify the geographic boundaries within which the water being requested would be used, including whether that area is entirely within Fuquay-Varina town limits.

Mary Sadler  
November 17, 2020  
Page 2

- b. The EMC must consider present and reasonably foreseeable future detrimental effects on the source river basin, including effects on wastewater assimilation and water quality. In recent years, the Cape Fear River upstream and downstream of Fayetteville has been fraught with numerous water quality issues stemming from industrial discharges and other sources. During low-flow periods, further reduction of streamflow can exacerbate pollutant concentrations. Environmental impact assessment of this proposed IBT must address both water quantity and water quality in the Cape Fear River.
- c. The EMC must consider present and reasonably foreseeable future detrimental effects on the source river basin, including effects on fish and wildlife habitat. Instream flow studies which assess the quantity and quality of wildlife habitat as a function of flow levels are the appropriate means to assess this concern. Reduction of streamflow may negatively impact fish and wildlife which depend on the Cape Fear River.
- d. The EMC must make a specific finding as to measures that are necessary or advisable to mitigate or avoid detrimental impacts on the source river basin. In this regard, Fuquay-Varina should identify how and in what quantities treated wastewater can be returned to the source basin to reduce the net transfer. Fuquay-Varina has decided to make a major water supply investment in expansion of the Sanford WTP. Consequently, Fayetteville PWC expects that major investments in wastewater pumping and treatment infrastructure will likewise be considered to return water to the source basin. The Cary-Apex IBT has established a clear precedent that return of wastewater to the Cape Fear River can serve as mitigation for adverse water quantity and quality effects of IBT.

In summary, unless Fuquay-Varina meets its substantial evidentiary burden, the certificate needs to be denied. If the certificate is granted without sufficient evidence to support it or without a condition to return sufficient quantities of treated wastewater to the Cape Fear River Basin, Fayetteville PWC will contest it, and it is anticipated that other water systems in the lower Cape Fear region would consider joining us in doing so.

Sincerely,

**Fayetteville Public Works Commission**



Mick Noland, PE  
Chief Operations Officer  
Water Resources Division

Cc: David Trego  
Elaina Ball  
Jamie West  
Paul Peterson

**Memo: Town of Fuquay-Varina Proposed Interbasin Transfer**

**To: Hazen Sawyer**

**From: Lower Cape Fear Water and Sewer Authority**

**Date: November 11, 2020**

After reviewing Fuquay-Varina's water supply plan, Lower Cape Fear Water and Sewer Authority believes that Fuquay-Varina's intent to pursue an Interbasin Transfer is premature.

We believe that Fuquay Varina should look towards major system improvements of existing infrastructure. Replacing existing meters would better account for monitoring usage and provide revenue needed for system improvements. There are almost a thousand meters or approximately seven percent of their systems meters that are not being accounted for on a regular basis.

Also, the lack of a leak detection program is a key maintenance item. Although some pipes are being replaced annually, leak detection could pinpoint issues and provide better data for repairs to be included in a Capital Improvement Plan. At this point they are replacing less than one third of one percent of their existing lines annually.

Fuquay-Varina needs to show marked improvement in regard to conservation and education by implementing water conservation measures and a program to educate its residents about how to save water especially through better irrigation practices.

Fuquay proposes an eight million gallon per day maximum and four million gallon per day minimum withdrawal with little analysis of environmental impact and the accompanying need for waste treatment facilities to process the additional wastewater and minimize the effect of withdrawal on the basin.

The Jordan Lake Allocation Recommendation and Surface Water Supply Plan did not account for any future withdrawals between Jordan Lake outfall and Fayetteville Lock and Dam #3 and this study needs updating before additional transfers or withdrawals can be permitted.

After the October 20, 2020, scoping meeting, it appears that the entities supplying Fuquay-Varina water may need those resources to meet their own future demands.

Before any consideration can be given to and interbasin transfer, Fuquay-Varina should be required to explore alternatives such as ground water sources, merging systems, etc. At this point, Lower Cape Fear Water and Sewer authority would like to echo Brunswick County, Pender County, Cape Fear Public Utility and Fayetteville PWC's objection to granting Fuquay-Varina an Inter Basin Transfer Permit.

Conditions that affect availability such as low flow need to be considered. The U.S. Geological Survey is considering an update to the 1994 Giese and Mason Report "Low-flow characteristics of Streams in North Carolina". This report should be considered to provide more detailed data for communities to use in future planning.

The Lower Cape Fear region is experiencing growth as well and does not support any action that reduces the available water supply to public water providers on the Lower Cape Fear. Lower Cape Fear Water, and Sewer Authority, Brunswick County and Cape Fear Public Utilities already made significant capital investment to utilize the one hundred and six million gallon per day allocation already permitted.

## *Lower Cape Fear Water & Sewer Authority*

1107 New Pointe Blvd, Suite 17  
Leland, North Carolina 28451



phn 910.383.1919 fax 910.383.1949  
[www.lcfwasa.org](http://www.lcfwasa.org)

*Water is Our Business*





North Carolina Department of Environment and Natural Resources

Division of Water Resources

Thomas A. Reeder

Director

Beverly Eaves Perdue  
Governor

Dee Freeman  
Secretary

January 25, 2012

Mr. Jimmy Tate, Chairman  
Lower Cape Fear Water and Sewer Authority  
1107 New Pointe Blvd., Suite 17  
Leland, NC 28451

Mr. Jim Quinn, Chairman  
Cape Fear Public Utility Authority  
235 Government Center Drive  
Wilmington, NC 28403

Subject: Allowable Total Water Withdrawals  
Cape Fear River at Kings Bluff  
Lower Cape Fear Water and Sewer Authority  
PWSID# 04-85-999  
New Hanover County  
and  
Cape Fear Public Utility Authority  
PWSID# 04-85-010  
New Hanover County

Dear Chairman Tate and Chairman Quinn,

There have been recent discussions between our staffs as to the allowable total water withdrawals by your two Utilities from the Cape Fear River at Kings Bluff. The State of North Carolina does not have a statewide permitting program for surface water withdrawals. The only part of the state where water withdrawal permits are presently required is in the Central Coastal Plain Capacity Use Area, which does not include the Cape Fear River.

Although a water withdrawal does not generally require a state permit, the Public Water Supply Section within the Division of Water Resources issues Safe Drinking Water

1811 Mail Service Center, Raleigh, North Carolina 27699-1811  
Phone: 919-707-9100 \ FAX: 919-733-3558 Internet: [www.ncwater.org](http://www.ncwater.org)

An Equal Opportunity / Affirmative Action Employer - 50% Recycled / 10% Post Consumer Paper

One  
North Carolina  
*Naturally*



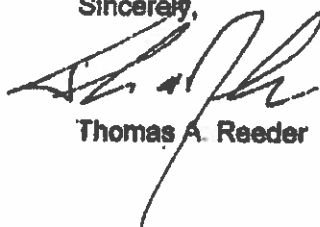
**Allowable Total Water Withdrawals  
Cape Fear River at Kings Bluff  
Page 2**

permits for water intake, treatment and distribution infrastructure. Those permits establish the authorized capacity of the water supply infrastructure. Based on our review of the infrastructure permits for your Utilities, the permits are based on water withdrawals totaling 106 MGD (combined) at the existing Kings Bluff intakes. Therefore, this is the volume that you should continue to use as you evaluate the future water needs for your Utilities.

It is our understanding from your Resolution that was dated October 12, 2011, that the 106 MGD is to be shared equally between your two Utilities.

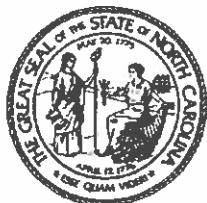
We are looking forward to continuing our work with you and your staffs as you evaluate your future water needs. Thank you very much for your proactive efforts to provide your customers with a safe and reliable supply of drinking water. Please feel free to contact me at [tom.reeder@ncdenr.gov](mailto:tom.reeder@ncdenr.gov) or (919) 707-9027 or Linwood Peele at [linwood.peele@ncdenr.gov](mailto:linwood.peele@ncdenr.gov) or (919) 707-9024 if there is a need for any additional information or clarification or if we can be of further assistance.

Sincerely,



Thomas A. Reeder

**Cc: Commissioner Rick Catlin  
Robin Smith, Assistant Secretary of DENR  
Chuck Wakild, Director, Division of Water Quality  
Don Betz, Executive Director, LCFWASA  
Michael Richardson, Drinking Water Superintendent, CFPWA  
Jessica Godreau, Chief, Public Water Supply Section  
Debra Benoy, Regional Engineer, Public Water Supply Section  
Linwood Peele, Supervisor, Water Supply Planning Branch**



NORTH CAROLINA  
Environmental Quality

ROY COOPER

Governor

MICHAEL S. REGAN

Secretary

S. DANIEL SMITH

Director

February 1, 2021

Lower Cape Fear Water and Sewer Authority  
Attention: Tim Holloman, Executive Director  
1107 New Pointe Boulevard, #17  
Leland, North Carolina 28451

Re: Engineering Plans and Specifications Approval  
Kings Bluff Pump Station Capacity Modification  
LCFWASA – Kings Bluff  
Water System No.: NC5009013, Bladen County  
Serial No.: 20-00980

Dear Applicant:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and specifications bearing the Division of Water Resources the stamp of approval for the referenced project. These engineering plans and specifications are approved under Division of Water Resources Serial Number 20-00980, dated February 1, 2021.

Engineering plans and specifications prepared by Sean J. Kenyon, P.E., call for the installation of a new 21,000 GPM, 250 feet TDH, 1,600 HP line shaft vertical turbine pump and related appurtenances at the existing Kings Bluff raw water pump station to increase the firm pumping capacity of the booster pump station to 96 MGD.

Once the proposed pump is installed, the Kings Bluff Raw Water Pump Station will have a firm pumping capacity of 96 MGD with four (4) – 34 MGD (21,000 GPM), 250 feet TDH, 1,600 HP vertical turbine pumps and associated appurtenances. Lower Cape Fear Water and Sewer Authority has water withdrawal allocation of 96 MGD from Division of Water Resources from near Lock and Dam No. 1 on Cape Fear River (106 MGD combined allocation for LCFWSA and CFPWA).

Please note that in accordance with 15A NCAC 18C .0309(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer's Certification and an Applicant's Certification submitted in accordance with 15A NCAC 18C .0303 (a) and (c).

These plans in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1634 Mail Service Center | Raleigh, North Carolina 27699-1634  
919.707.9100

Lower Cape Fear Water and Sewer Authority  
Attention: Tim Holloman, Executive Director  
Page 2 of 2  
February 1, 2021

General Statutes. This approval does not constitute a warranty of the design, construction or future operation of the water system.

One copy of the "Application for Approval..." and a copy of the plans and specifications with a seal of approval from the department are enclosed. One copy of the documents in a digital format (flash drive) is being forwarded to our Fayetteville Regional Office. The second copy of the CD is being retained in our office.

If the Public Water Supply Section can be of further service, please call (919) 707-9100.

Sincerely,

 /for

Robert W. Midgette, P.E.  
Chief, Public Water Supply Section

RWM/SMB

Enclosures: Approval Document

cc: Heidi Cox, Fayetteville Regional Office  
Bladen County Health Department  
McKim & Creed, Inc.

## **AGENDA ITEM**

**To:** CHAIRMAN RIVENBARK AND BOARD MEMBERS

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

**Date:** July 11, 2022

**Re:** Executive Director's Report

---

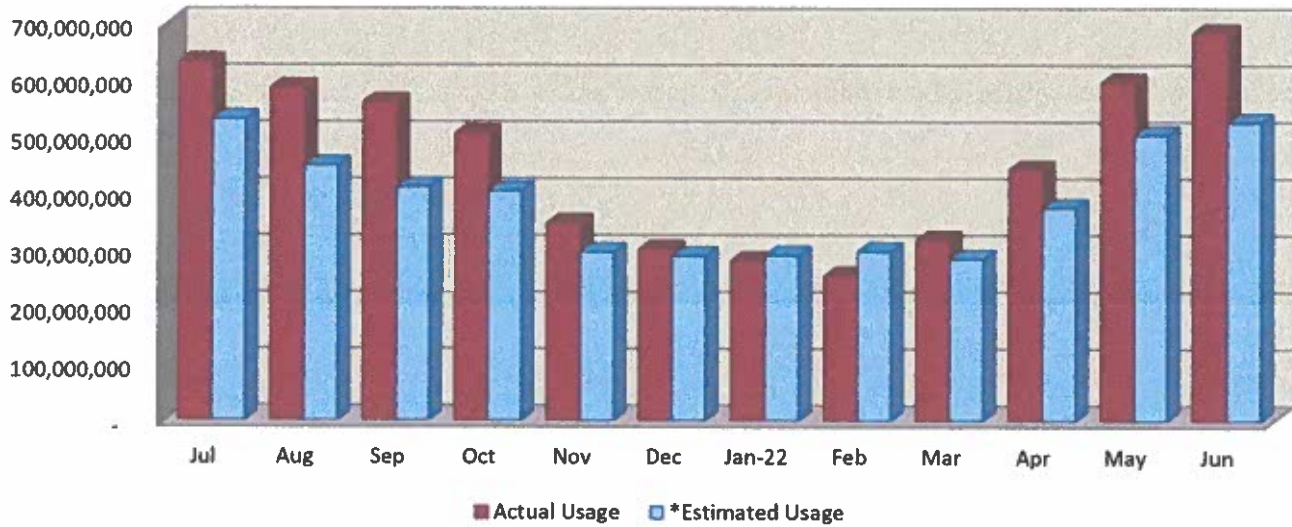
**EDR1** - Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending June 30, 2022

**EDR2** - Operating Budget Status, Ending May 31, 2022.

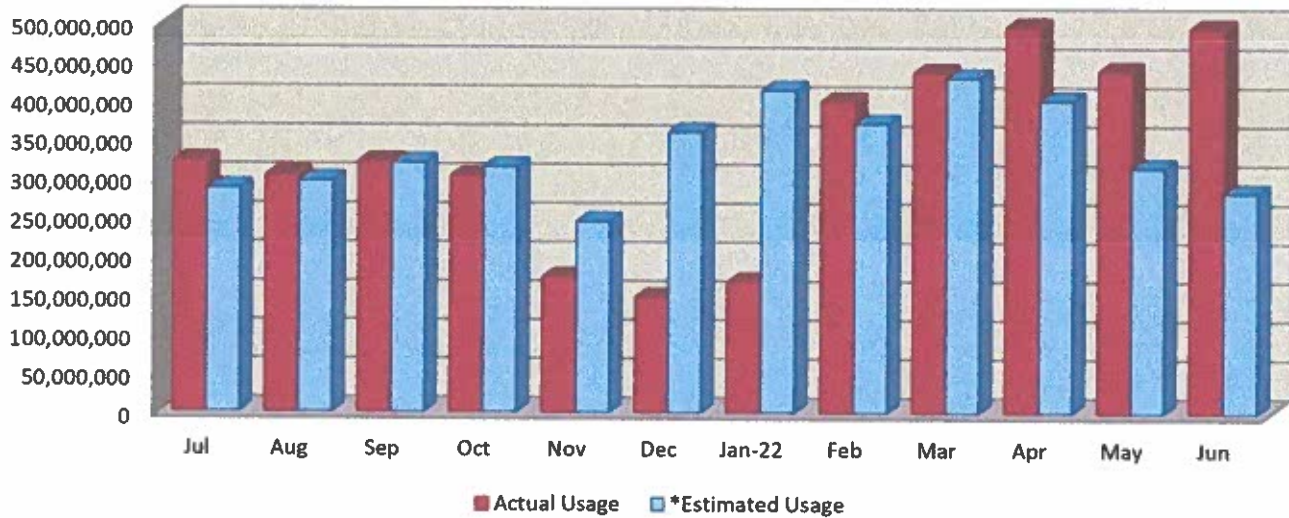
**EDR3** - Summary of Activities.

**Action Requested:** For information purposes

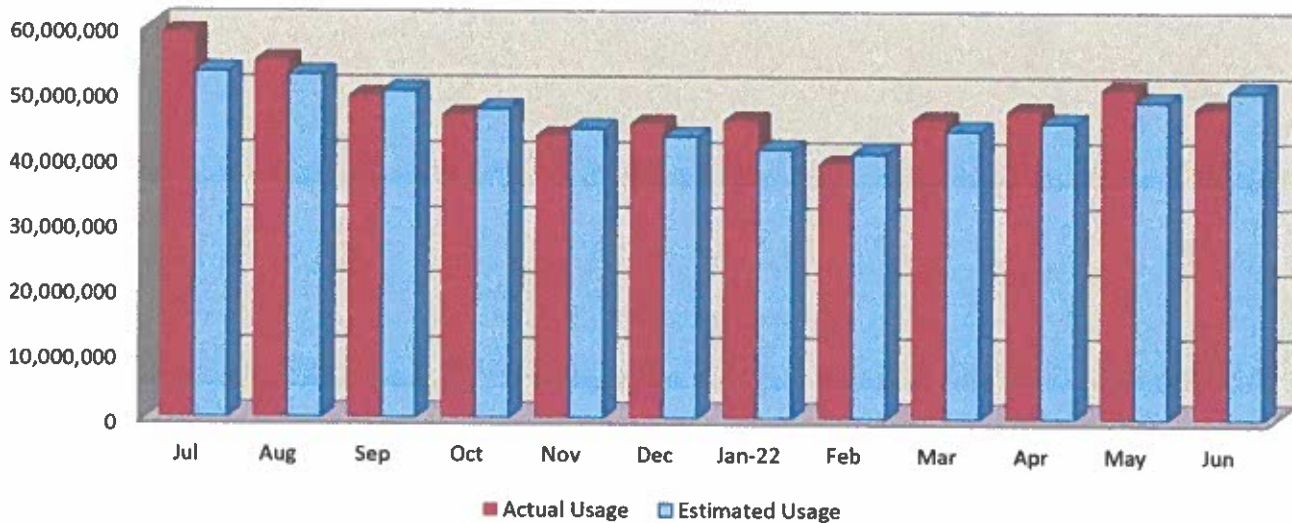
### Brunswick County Water Usage FY 21-22



### CFPUA Water Usage FY 21-22



### Pender County Water Usage FY 21-22



## OPERATING FUND BUDGET PERFORMANCE

Jul-1 through May 31

Income	Approved	Adjust/Amended	Jul 1- May 31	Jul 1- May 31	Jul 1- May 31	Budget
	Annual Budget	Annual Budget	Kings Bluff	Bladen Bluffs	OF BUDGET	As of 05/31/2022
<b>3000-01 - OPERATING REVENUE</b>						
3001-01 - 01 Bruns County Public Utility	1,481,553	1,481,553	1,582,664		1,592,664	107%
3002-01 - 01 CFPUA	1,296,405	1,296,405	1,160,636		1,160,636	90%
3003-01 - 01 Pender County	179,822	179,822	173,710		173,710	97%
3004-01 - 01 HWY 421 - Invista	40,000	70,000	91,518		91,518	131%
3005-01 - 01 Praxair, Inc	4,314	4,314	2,426		2,426	56%
3006-01 - 01 Bladen Bluffs Revenue	3,194,127	3,894,127		3,629,042	3,629,042	93%
Bladen Admin Reimb	94,302	126,302		116,419	116,419	92%
3007-01 - Sales Tax Refund Revenue	70,000	90,000		55,833	55,833	62%
<b>Total 3000-01 - OPERATING REVENUE</b>	<b>6,370,523</b>	<b>7,152,523</b>	<b>3,020,854</b>	<b>3,801,294</b>	<b>6,822,248</b>	<b>95%</b>
<b>3100-00 - OF NONOPERATING REVENUE</b>						
3120-00 - Revenue-Other						
Interest & Investment Revenue	2,000	2,000	1,411		1,411	71%
FEMA Reimbursement	0	0	2,378		2,378	
Refunds / Insurance Proceeds/ Other	0	0	600		600	
3156-00 - Rental Income	0	0	14,354		14,354	
3900-01 R&R Fund Appropriated	0	0	0		0	
2900-00 Fund Balance	0	391,253	0		0	
<b>Total 3100-00 - OF NONOPERATING REVENUE</b>	<b>2,000</b>	<b>393,253</b>	<b>18,742</b>	<b>0</b>	<b>18,742</b>	<b>5%</b>
<b>Total Income</b>	<b>6,372,523</b>	<b>7,545,776</b>	<b>3,039,596</b>	<b>3,801,294</b>	<b>6,840,991</b>	<b>91%</b>
<b>Expense</b>						
<b>4000-01 - ADMINISTRATION EXPENDITURES</b>						
4001-01 - Salary - gross	168,610	168,610	107,044	46,368	153,412	81%
4010-01 - Per Diem= mileage+per diem pay	62,500	62,500	34,778	17,220	51,998	83%
4012-01 - Vehicle Allowance	5,200	5,200	3,370	1,430	4,800	92%
4070-02 - Phone Allowance	520	520	337	143	480	92%
4015-01 - Payroll Taxes	17,967	19,467	10,862	4,949	15,811	81%
4029-01 - Retirement Employer's Part	18,379	20,879	12,036	5,054	17,090	82%
4035-01 - 401K Employer PD Contribution	4,758	5,758	3,071	1,309	4,379	76%
4036-01 - Payroll Processing Exp	2,900	2,900	2,395		2,395	83%
4038-01 - Insurance Group	40,910	42,910	24,190	9,972	34,162	80%
4039-01 - Insurance, Property	87,000	87,000	63,492	23,925	87,417	100%
4046-00 - Professional Services General	15,000	15,000	0	0	0	0%
4046-01 - Attorney	30,000	27,900	15,596		15,596	56%
4046-02 - Auditor	9,000	9,000	5,400	2,800	8,200	91%
4046-03 - Engineer	55,000	50,000	41,097	0	41,097	82%
4049-01 Information Technology	10,000	13,800	6,430	0	6,430	47%
4055-01 - Office Maint/Repair	17,000	32,000	19,099		19,099	60%
4058-01 - Office Utilities	7,000	3,000	1,743		1,743	58%
4059-01 - Office Expense	35,000	26,300	12,304		12,304	47%
4062-01 - Office Equipment	0	12,500	10,349		10,349	83%
4064-01 - Printing & Advertising	0	2,000	688		688	34%
4065-01 - Telephone and Internet	0	3,200	1,966		1,966	61%
4070-01 - Travel & Training	17,500	27,800	20,140		20,140	72%
4080-01 - Miscellaneous Expenses	15,000	23,000	17,007		17,007	74%
<b>Total 4000-01 - ADMINISTRATION EXPENDITURES</b>	<b>619,244</b>	<b>681,244</b>	<b>413,394</b>	<b>113,169</b>	<b>526,563</b>	<b>77%</b>
<b>4500-01 - OPERATING EXPENDITURES</b>						
4501-00 - Sales Tax Expense - Other	70,000	118,000		111,166	111,166	94%
4510-01 - Bladen Bluffs Expenses	1,889,330	2,589,330		2,379,928	2,379,928	92%
4520-01 - Utilities-Energy Pump Station	789,667	899,667	582,378		582,378	83%
4530-01 - Kings Bluff O&M Expenses	453,609	453,609	362,798		362,798	80%
4535-01 - Kings Bluff Hurricane Other FEMA			0		0	0%
4543-01 - Series 2012 Bond Principal (ST)	601,443	601,443	601,444		601,444	100%
4544-01 - Series 2012 Bond Interest (ST)	11,730	11,730	11,728		11,728	100%
4545-01 - Series 2010 Bond Principal (BB)	850,000	850,000		850,000	850,000	100%
4546-01 - Series 2010 Bond Interest (BB)	297,500	297,500		35,905	35,905	12%
7400-01 - Operating Capital Expense	325,000	716,253	489,381		489,381	68%
4988-05- Transfer to R&R- KB R&R Expense	75,000	137,000		137,000	137,000	100%
2041-01- 421 Relocation NHC Loan Principal	390,000	390,000		390,000	390,000	100%
<b>Total 4500-01 - OPERATING EXPENDITURES</b>	<b>5,753,279</b>	<b>6,864,532</b>	<b>1,558,348</b>	<b>3,903,999</b>	<b>5,951,729</b>	<b>87%</b>
<b>Total Expense</b>	<b>6,372,523</b>	<b>7,545,776</b>	<b>1,971,742</b>	<b>4,017,169</b>	<b>6,478,292</b>	<b>86%</b>

**Executive Director Highlighted Activities:**

- Attended Governor's Address regarding PFAS and the States response.
- Worked with John Nichols and Tony Boahn to review payment options for November Leak, will meet with partner Utility Directors on July 7th to finalize and recommend to the Board.
- Continued with CFPUA Director and legislators and their staff on securing funding for the 10-mile parallel line, and in the State Budget, LCFWASA has been awarded 23.5 million dollars and awaiting the Governor's approval of the budget.
- Continue to Work with Engineers and PNG/Duke about ROW crossing and work near the raw water lines.
- Attended CFPUA regular Board meeting
- Attended One Water NC regional meeting in Wilmington
- Ongoing meetings with Directors
- Attended AWWA Annual Conference and Expo
- Continued to with Partners about a continued response to Fuquay-Varina's IBT request and options to ensure compliance with withdrawal and return to the Cape Fear Basin
- Work on the KB office continues, and the HVAC unit is on order that the Board approved at the April meeting

## **AGENDA ITEM**

To: CHAIRMAN RIVENBARK AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: July 11, 2022

Re: Closed Session in Accordance with NCGS§143-318.11(a)(3) to consult with attorney in order to preserve the attorney-client privilege.

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

---

A Closed Session is required in accordance with NCGS§143-318.11(a)(3) to consult with attorney in order to preserve the attorney-client privilege.

A motion is made by \_\_\_\_\_ to go into a closed session in accordance with North Carolina General Statute Section 143-318.11(a)(3).

The motion is seconded by \_\_\_\_\_.

### **Closed Session**

A motion is made by \_\_\_\_\_ to return to open session.

The motion is seconded by \_\_\_\_\_.