

## **AGENDA**

### **Lower Neuse Basin Association, Inc.<sup>®</sup> Neuse River Compliance Association, Inc.<sup>®</sup>**

**May 5, 2022  
Town of Clayton, N. C.  
10:00 a.m.**

- **Welcome, Roll Call, and Introduction of Guests**
  - \* **Member Introductions**
- **Approval of Minutes for February 3, 2022 (AI) -**
- **LNBA/NRCA Financials –**
  - \* **February, March, & April, 2022 Treasurer’s Reports (AI) –**
  - \* **FY 2021-22 Year to Date Expenditures –**
  - \* **Environment I Sampling/Laboratory Proposal for next 5 years (AI) -**
  - \* **Request for Modmon Funding for FY 2021-22 (AI) -**
  - \* **Website update -**
- **NRCA Updates -**
  - \* **2021 Annual Report -**
  - \* **Swamp Water Designation/Issue -**
  - \* **DWR Watershed RFP Update -**
  - \* **Siler City Draft Permit Comments -**
- **LNBA Updates -**
  - \* **Sampling Report – February, March, and April, 2022 –**
  - \* **LNBA Annual Report -**
  - \* **Comments submitted 303(d) Listing and Integrated Report -**
- **LNBA/NRCA Training Program -**
- **Member Reports -**
- **Next Meeting and Adjourn – Location/Date: To Be Determined – September 1, 2022**
  - Action Items (AI)**

**Lower Neuse Basin Association®/Neuse River Compliance Association®**  
**February 3, 2021 Meeting Minutes**  
**Webinar Meeting (Virtual due to Covid-19)**

**Attending:**

Barry Parks (Chair)	City of Wilson	John Kiviniemi (V-Chair)	Raleigh Water
Donald Smith (Treas)	Town of Cary	Chuck Smithwick (Sec)	Contentnea MSD
Dan McLawhorn	McLawhorn Law	David Hardin	Town of Apex
Robert Kruger	Aqua, N. C.	Reginald Hicks	City of Durham
Jimmy Pridgen	City of Wilson	Bert Sherman	City of Goldsboro
Kenny Stevens	City of Kinston	Kathy Cooper	City of Raleigh
Mike Wagner	Town of Fuquay-Varina	Jarrold Buchanan	Town of Cary
Amir Adaryani	NC DWR	Doug Dowden	NC DWR
Katie Dickens	Aqua, N. C.	Tony Hawkins	City of New Bern
Nora Deamer	NC DWR	Mike McAllister	Town of Kenly
Mark Vander Borgh	DWR Ecosystem	Trish D'Arconte	DWR Planning
Laura Pruitt	City of Wilson	Larry Durgin	Town of Apex
Dana Hill	Utilities, Inc.	Barrett Jenkins	Restoration Systems
Jeff White	Dupont	Dan Wall	Johnston County
Bill Simpson	Town of Clayton	Drake Robart	Town of Snow Hill
John Huisman	DWR Planning	Erica Baily	City of Raleigh
Adam Stephenson	Town of Fuquay-Varina	Steve Tedder	Tedder Farm Consulting
Barrett Jenkins	Restoration Systems	Jonathon Bulla	Town of Cary
David Huffman	NC DWR	Elliot Thomas	Craven County
T. J. Lynch	Hazen & Sawyer	Mike Templeton	NC DWR
Jay Sauber	Sauber Water Quality	Mike Montebello	NC DWR
Martin Lebo	WSP	Haywood Phthisic	LNBA/NRCA

The Chair, Barry Parks, called the meeting to order and welcomed everyone. The roll was called and there were 13 of 19 members present representing the LNBA and 16 of 25 members present representing the NRCA. There was a quorum present for both associations. Guests were introduced and recognized.

**Board Minutes** – The Board Minutes from the November 3, 2022 meeting were presented. Being no revisions, the minutes were approved as submitted.

**Financials – Treasurer's Report** – Donald Smith presented the Treasurer's Reports, November, December, 2021, and January, 2022 were presented to the Board. As of January 31<sup>st</sup>, the LNBA account balance was \$253,559.72 and NRCA account balance was \$312,723.79. Dan Wall made the motion to approve the reports as presented, seconded by Kenny Stevens, and approved by the Boards, respectively.

**FY 2021-22 Year to Date Expenditures** – Donald presented the current year to date expenditures for the Boards' review. The LNBA is currently expended 42% of the approved budget and the NRCA has currently expended 42% of its approved budget.

*FY 2022-23 Budgets and Membership Fees* – Haywood presented the recommended budget and membership fees for the LNBA and NRCA. The budget and membership fees were reviewed by the Finance Committee (Donald Smith, John Kiviniemi, Chuck Smithwick, and Haywood Phthisic) and the committee recommends approval. LNBA – The Town of Snow Hill joined the association so there will be a minor shift in the annual dues. Also, the contract with Environment I will end December 31<sup>st</sup> so the budget has been adjusted for an anticipated increase. NRCA – no increased is proposed in the budget and Modmon funding is not proposed for FY 2022-23. Following discussion, the Chair accepted the Finance Committee's recommendation as the motion, seconded by David Hardin, and approved by the Boards.

*Legal Consultation Agreement for the Boards' Consideration* – Haywood presented an agreement from Daniel F. McLawhorn Law Firm for the Boards' consideration. Dan recently retired from the City of Raleigh and offered his services to the associations. The proposal will begin the current fiscal year with \$6,500 budget (currently budgeted) and a budget of \$13,000 for FY 2022-23. Following discussion, Mike McAllister made the motion to approve the agreement, seconded by Mike Wagner, and approved by the Board.

### **NRCA Updates –**

*Executive Committee Meeting with DWR in November* – Haywood reported the Executive Committee met with members of DWR to discuss the proposed RFP for a watershed model. It was noted in the RFP that information concerning adjustments to the transport factor were illustrated (circa 2003) that were never implemented. John Kiviniemi noted information was emailed to the executive committee that illustrated the end of pipe allocations would be adjusted in the event of transport factor revisions (confirmed by Mike Templeton) as not to reduce any nitrogen allocations in such adjustment/action.

*DWR Watershed RFP Update* – Haywood updated the Boards that there were 3 proposals received for the watershed RFP (Mike Templeton was able to confirm this information). The next step would be for the Dept. of Administration to approve (possibly in a month).

### **LNBA Updates –**

*LNBA Sampling Report* - Work continues on the Lower Neuse River Monitoring Service Contract No. 5 with Environment I. All sampling was completed by Environment 1 in November, December and January, 2022. Data sets have been received through November, 2021. December sampling results are in data review. All invoices through December, 2021 have been processed and paid.

All samples were collected and analyzed per the Memorandum of Agreement (MOA) requirements in January 2022. Laboratory analysis is on this data is ongoing at this time

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*Environment I Agreement* – Haywood noted the LNBA is entering into the 5<sup>th</sup> year of the agreement with Environment I and requested Board authorization to into negotiations with Environment I. The goal is to present a proposal for the Board's consideration at the May meeting. Following discussion, Tony Hawkins made the motion to approve negotiating with Environment I, seconded by Dan Wall, and approved by the Board.

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*Draft 303(d) Listing and Integrated Report* – Jay Sauber reviewed the draft 2022 303(d) list and integrated report comments (he generated) for the Boards' consideration. This year marks the 50<sup>th</sup> anniversary of the national Clean Water Act. Following the presentation and discussion, David Hardin made the motion to approve submitting the comments as presented, seconded by Mike McAllister, and approved by the Board.

**LNBA/NRCA Operator Training Program** – Haywood reported that the training committee will be preparing the program for the 2022 Operator Training Workshop. Haywood noted it has not been determined if this will be face to face or a virtual workshop at this time.

**Member Reports** – Haywood reported a WEF program has been initiated called [Nutrient Smart Recognition Program](#) and recommended the members review and consider participation. Bill Simpson with the Town of Clayton reported a ground breaking ceremony for their new facility will be April 8<sup>th</sup> at 10:00 a.m.

The next meeting is scheduled for May 5, 2022 at 10:00. With no further business, the meeting was adjourned.

DRAFT

**Lower Neuse Basin Association, Inc. / Neuse River Compliance Association, Inc.**

**Treasurer's Report**

**5/2/2022**

**LNBA**

<b>Balance Forward: (checking per bank statement - 1/31/2022)</b>	Checking	\$	102,646.96
	Savings		150,912.76
<b>Debits:</b>		\$	
Environment I, Inc. (LNBA, Invoices)			22,962.18
Environment I, Inc. (Raleigh, Invoices)			4,255.65
Sauber Water Quality Consulting (Invoice)			1,330.00
NC AWWA WEA (workshop assistance)			570.00
MFG Consulting LLC (Invoices)			570.00
PCi (Invoices)			4,522.32
			<hr/>
Total Debits		\$	34,210.15
<b>Credits:</b>		\$	
Interest (checking)			32.12
Interest (savings)			276.23
Transfer from Checking to Savings Account			-
<b>Checking Account Balance (per bank statement -4/30/2022)</b>		\$	68,468.93
			151,188.99
			<hr/>
<b>Total LNBA Account Balance</b>		<b>\$</b>	<b>219,657.92</b>
			<hr/> <hr/>

**NRCA**

<b>Balance Forward: (per bank statement -1/31/2022)</b>	Checking	\$	73,327.21
	Savings		239,396.58
<b>Debits:</b>		\$	
PCi (Invoices)			7,836.00
NC AWWA WEA (workshop assistance)			570.00
Sauber Water Quality Consulting			1,540.00
MFG Consulting, LLC. (Invoice)			-
			<hr/>
Total:		\$	9,946.00
<b>Credits:</b>		\$	
Transfer from Checking to Savings Acc't			-
Interest (Savings)			438.20
Interest (Checking)			24.91
<b>Account Balance (per bank statement - 4/30/2022)</b>	Checking	\$	63,406.12
	Savings		239,834.78
			<hr/>
<b>Total NRCA Account Balance</b>		<b>\$</b>	<b>303,240.90</b>
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Year to Date Expenditures for FY 2021-22

Date: 5/02/2022

LNBA	Monitoring	ED Services	Training	Admin	Legal	Web Services	Consultant	Total	Raleigh
July, 2021	\$ 7,654.06	\$ 1,487.24	-	-	-	-	-	\$ 9,141.30	\$ 1,418.55
August	7,654.06	1,428.72	-	-	-	-	-	9,082.78	1,418.55
September	7,654.06	1,870.00	-	-	-	120.00	-	9,644.06	1,418.55
October	7,654.06	1,807.20	-	-	-	180.00	175.00	9,816.26	1,418.55
November	7,654.06	1,520.72	-	630.00	-	-	-	9,804.78	1,418.55
December	7,654.06	1,606.88	-	-	-	-	385.00	9,645.94	1,418.55
January, 2022	7,654.06	1,359.52	570.00	-	-	240.00	-	9,823.58	1,418.55
February	7,654.06	1,560.68	-	-	-	180.00	1,330.00	10,724.74	1,418.55
March	7,654.06	1,430.42	-	-	-	270.00	-	9,354.48	1,418.55
April	7,654.06	1,531.22	-	-	-	120.00	-	9,305.28	1,418.55
May	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>\$ 76,540.60</b>	<b>\$ 15,602.60</b>	<b>\$ -</b>	<b>\$ 630.00</b>	<b>\$ -</b>	<b>\$ 1,110.00</b>	<b>\$ 1,890.00</b>	<b>\$ 95,773.20</b>	<b>\$ 14,185.50</b>
<b>Budget</b>	<b>\$ 95,900.00</b>	<b>\$ 21,500.00</b>	<b>\$ 5,000.00</b>	<b>\$ 1,000.00</b>	<b>\$ 10,000.00</b>	<b>\$ 2,500.00</b>	<b>\$ 3,500.00</b>	<b>\$ 156,423.00</b>	<b>\$ 17,023.00</b>

NRCA	Permit/Grant	ED Services	Training	Admin	Legal	Web Services	Consultant	Total	ModMon
July, 2020	\$ -	\$ 2,232.00	-	-	-	\$ 180.00	-	\$ 2,412.00	\$ -
August	-	2,652.00	-	-	-	180.00	-	2,832.00	-
September	-	2,806.00	-	-	-	-	-	2,806.00	5,000.00
October	-	2,712.00	-	-	-	-	175.00	2,887.00	-
November	-	2,000.00	-	630.00	-	180.00	-	2,810.00	-
December	3,440.00	2,410.00	-	-	-	180.00	350.00	6,380.00	-
January, 2021	-	2,038.00	570.00	-	-	-	-	2,608.00	-
February	-	2,845.00	-	-	-	-	1,330.00	4,175.00	-
March	-	2,147.00	-	-	-	-	210.00	2,357.00	-
April	-	2,844.00	-	-	-	-	-	2,844.00	-
May	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>\$ 3,440.00</b>	<b>\$ 24,686.00</b>	<b>\$ 570.00</b>	<b>\$ 630.00</b>	<b>\$ -</b>	<b>\$ 720.00</b>	<b>\$ 2,065.00</b>	<b>\$ 37,111.00</b>	<b>\$ 5,000.00</b>
<b>Budget</b>	<b>\$ 3,500.00</b>	<b>\$ 42,500.00</b>	<b>\$ 1,500.00</b>	<b>\$ 1,000.00</b>	<b>\$ 21,500.00</b>	<b>\$ 2,500.00</b>	<b>\$ 3,500.00</b>	<b>\$ 77,500.00</b>	<b>\$ 5,000.00</b>

# Environment 1, Incorporated

114 OAKMONT DRIVE  
GREENVILLE, N.C. 27858

PHONE (252) 756-6208  
FAX (252) 756-0633

April 12, 2022

Lower Neuse Basin Association  
Mr. Haywood Phthisic  
P.O. Box 1410  
Clayton, NC 27520

Dear Mr. Phthisic,

Please consider the following as a formal proposal for renewal of contract monitoring services provided to the LNBA starting January, 2023.

Description	Current (2018-2022)	Proposed (2023-2027)
Monthly Cost - Monitoring LNBA sites per MOA	\$7,654.06	\$8,113.30
Monthly Cost - Monitoring Raleigh sites per MOA	\$1,418.55	\$1,503.66
5 Year Contract Cost – All Monitoring per MOA	\$544,356.60	\$577,017.60
Monthly cost to add/drop site (no Chlorophyll a)	\$167.87	\$177.94
Monthly cost to add/drop site (with Chlorophyll a)	\$236.12	\$250.29

The prices listed above include all services required by the MOA including sample collection, analysis and data reporting in the required format. Please feel free to contact me at any time if you need any additional information.

We appreciate your business!

Best regards,



Mark A. Oliveira

NEUSE RIVER COMPLIANCE ASSOCIATION

Total Nitrogen Monitoring Report for 2021

Date: March 21, 2022

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NPDES Permit #: NCC00001		END OF PIPE				ESTUARY					
FACILITY	NPDES Permit #	Permit Flow (MGD)	2021 Avg. Flow (MGD)	Member TN Allocation (Lbs/Yr.)	Member TN Discharge (Lbs/Yr.)	Transport Factor	2021 Lease (Estuary Lbs.)	Member Estuary Allocation	Adjusted TN Allocation (Lbs/Yr.)	2021 TN Delivery (Lbs/Yr.)	% of Estuary Allocation
SGWASA	NC0026824	5.500	1.452	22,420	10,255	10%	0	2,242	0	1,025	46
Town of Hillsborough	NC0026433	3.000	1.078	10,422	4,698	10%	0	1,042	0	470	45
City of Durham	NC0023841	20.000	9.404	97,665	57,993	10%	0	9,767	0	5,799	59
Town of Apex	NC0064050	3.600	1.221	40,547	15,444	50%	0	20,274	0	7,722	38
Town of Benson	NC0020389	1.900	1.293	33,070	18,011	50%	-500	16,535	16,035	9,006	54
Town of Cary ~ North	NC0048879	12.000	6.209	143,246	43,757	50%	0	71,623	0	21,879	31
Town of Cary ~ South	NC0065102	12.800	5.437	180,211	26,755	50%	0	90,105	0	13,377	15
City of Raleigh ~ Smith Creek	NC0030759	3.000	2.218	70,814	29,921	50%	0	35,407	0	14,961	42
City of Raleigh ~ Neuse	NC0029033	75.000	47.482	713,373	271,665	50%	0	356,687	0	135,833	47
Raleigh ~ Ground Water	NA	NA	NA	NA	60,651	50%	0	NA	0	30,326	0
City of Raleigh ~ Little Creek	NC0079316	2.200	0.863	26,660	6,926	50%	0	13,330	0	3,463	26
Town of Clayton	NC0025453	2.500	1.617	22,832	22,326	50%	0	11,416	0	11,163	98
Neuse Colony, (Aqua NC)	NC0064564	0.350	0.316	8,447	9,191	50%	700	4,224	4,924	4,595	93
Johnston County	NC0030716	9.500	5.978	73,476	43,229	50%	0	36,738	0	21,614	59
Town of Kenly	NC0064891	0.630	0.437	7,096	6,235	50%	500	3,548	4,048	3,117	77
Town of Farmville	NC0029572	3.500	1.422	42,211	3,920	50%	0	21,106	0	1,960	9
City of Wilson	NC0023906	14.000	9.696	157,886	68,737	50%	0	78,943	0	34,369	44
Duke Energy ~ Lee Facility	NC0003417	NA	0.104	3,260	102	70%	0	2,282	0	71	3
City of Goldsboro	NC0023949	14.200	11.340	199,822	116,382	70%	0	139,876	0	81,467	58
Town of LaGrange	NC0021644	0.750	0.735	8,447	7,726	70%	0	5,913	0	5,409	91
City of Kinston (Regional)	NC0024236	11.850	5.569	126,711	59,470	70%	0	88,697	0	41,629	47
Contentnea MSD	NC0032077	3.500	2.150	37,100	7,012	70%	-9,500	25,970	16,470	4,908	30
Dow - Dupont, Inc.	NC0003760	3.600	0.278	25,493	1,807	70%	-5,700	17,845	12,145	1,265	10
City of New Bern	NC0025348	6.500	3.815	64,210	57,598	100%	0	64,210	0	57,598	90
MCAS Cherry Point	NC0003816	3.500	1.269	39,421	15,026	100%	0	39,421	0	15,026	38
City of Havelock	NC0021253	2.250	1.371	21,400	14,392	100%	0	21,400	0	14,392	67
Craven County	NC0084460	0.000	0.772	0	3,435	100%	5,000	0	5,000	3,435	69
Carolina Water Service, Inc.	NC0033111	0.600	0.313	11,263	18,979	100%	9,500	11,263	20,763	18,979	91
		216.230	123.840							564,859	

This Compliance Report has been compiled from co-permittee members' monthly discharge monitoring reports. I certify that this report is accurate and complete to the best of my knowledge.

Barry Parks, Chairman, Neuse River Compliance Association

Date

- NOTES: 1. Average Total Nitrogen Concentration End of Pipe by NRCA Members during 2021: **2.50** mg/L  
 2. Average Total Nitrogen Concentration with ground water contribution in 2021: **2.66** mg/L  
 3. NRCA's Annual Report Prepared By: Haywood M. Phthistic, III, Executive Director



# NRCA 2021 Annual Report Summary w/ Potential TN Reductions

Date: 4/29/2022

FACILITY	Average EOP Conc (mg/l)	Average Flow MGD		Potential TN Reduction (lbs)
Duke Energy Progress - Lee	0.32	0.104		
Town of Farmville	0.91	1.422		
Contentnea MSD	1.07	2.150		
Town of Hillsborough	1.43	1.078		
Craven County	1.46	0.772		
Town of Cary, South	1.62	5.437		
City of Raleigh - Neuse River	1.88	47.482		
City of Durham	2.03	9.404		
Dow-Dupont, Inc.	2.14	0.278		
SGWASA	2.32	1.452		
Town of Cary, North	2.32	6.209		
City of Wilson	2.33	9.696		
Johnston County	2.38	5.978		
City of Raleigh - Little Creek	2.64	0.863		
City of Goldsboro, Pipes 01&02	3.37	11.340	0.37	12,772
City of Kinston (Regional)	3.51	5.569	0.51	8,646
City of Havelock	3.45	1.371	0.45	1,878
Town of LaGrange	3.45	0.735	0.45	1,007
MCAS Cherry Point	3.89	1.269	0.89	3,438
Town of Apex	4.15	1.221	1.15	4,274
City of Raleigh - Smith Creek	4.43	2.218	1.43	9,655
Town of Clayton	4.53	1.617	1.53	7,531
Town of Benson	4.58	1.293	1.58	6,219
Town of Kenly	4.69	0.437	1.69	2,248
City of New Bern	4.96	3.815	1.96	22,762
Neuse Colony (Aqua)	9.56	3.160	6.56	63,103
CWS Systems, Inc.	19.89	0.313	16.89	37,790
<b>Daily Average</b>	<b>2.50</b>	<b>126.823</b>		<b>153,583</b>

Annual Report Values	Average EOP Conc. (mg/L)	Average Estuary Lbs.	Avg. Flow MGD	Avg. Estuary w/o Debit
2003	3.81	722,374	108.379	
2004	3.38	558,777	101.203	
2005	3.25	566,627	101.739	
2006	3.12	542,205	102.970	
2007	3.02	461,325	92.994	
2008	3.41	489,798	91.005	
2009	3.02	497,639	98.570	
2010	2.98	584,398 *	101.909	527,275
2011	2.85	519,199 *	93.384	464,014
2012	2.80	540,892*	97.281	487,794
2013	2.62	514,847*	102.413	463,836
2014	2.71	568,387*	108.359	519,612
2015	3.03	610,915*	108.721	564,277
2016	2.87	593,145*	108.734	548,644
2017	2.53	491,822*	101.510	449,408
2018	2.54	556,567*	113.204	516,191
2019	2.33	481,011*	105.573	442,671
2020	2.54	516,645*	126.823	485,739
2021	2.50	564,859*	123.840	534,533

\* Includes nitrogen debit for City of Raleigh's land application system

**NEUSE RIVER COMPLIANCE ASSOCIATION**  
 End of Pipe Total Nitrogen Concentration Report 2006 - 2021

Date: April 28, 2022

FACILITY	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Basin Transport Zone
	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	TN Conc. (mg/L)	
City of Durham															2.31	2.03	
Town of Hillsborough															1.33	1.43	
SGWASA	6.01	7.01	11.81	7.98	3.69	4.72	4.56	4.53	4.25	9.19	2.29	2.67	2.03	1.79	2.30	2.32	10%
Town of Apex	4.53	3.99	3.99	4.51	3.93	4.63	4.29	4.4	5.21	3.99	3.75	3.53	3.45	3.56	3.48	4.15	
Town of Benson	4.49	3.55	5.93	5.47	6.59	4.27	4.15	9.12	6.12	3.94	3.31	3.10	3.27	3.03	2.89	4.58	
Town of Cary ~ North	3.66	3.51	3.97	4.07	3.00	2.47	2.14	1.92	2.28	2.1	2.26	2.16	2.03	1.97	1.94	2.32	
Town of Cary ~ South	2.55	2.05	2.13	2.08	1.98	1.96	1.85	2.16	2.21	2.07	2.10	2.32	2.10	2.00	1.73	1.62	
City of Raleigh ~ Smith Creek	2.60	3.36	3.26	5.49	4.94	3.01	2.65	3.41	3.81	3.36	3.63	4.10	5.64	5.32	5.05	4.43	
City of Raleigh ~ Neuse	2.50	2.02	2.38	2.15	2.48	2.09	2.04	1.95	2.13	2.71	3.00	2.29	2.12	1.78	1.70	1.88	
City of Raleigh ~ Little Creek	4.81	3.52	2.78	2.07	3.10	2.23	1.65	2.64	2.32	1.81	1.79	2.02	1.71	2.06	2.04	2.64	50%
Town of Clayton	3.36	4.28	4.30	4.03	4.11	4.46	4.15	3.82	3.88	4.14	4.65	4.27	4.08	3.35	3.77	4.53	
Neuse Colony (Aqua NC)	21.31	14.70	31.70	19.07	19.96	15.18	10.78	12.05	20.07	11.5	8.96	9.24	9.90	13.70	9.00	9.56	
Johnston County	2.12	2.72	2.65	1.80	1.50	1.83	4.97	3.95	3.04	3.08	3.58	3.03	3.72	2.41	2.02	2.38	
Town of Kenly	9.18	5.90	9.75	9.53	9.00	4.85	2.08	2.23	2.87	3.18	2.51	6.05*	7.11	6.23	6.90	4.69	
Town of Farmville	2.73	3.32	4.92	3.72	4.00	5.89	4.56	4.63	3.03	1.53	1.22	1.09	0.09	1.38	1.19	0.91	
City of Wilson	3.40	4.61	5.39	3.51	3.18	2.76	2.13	1.93	2.29	2.74	2.26	2.17	2.00	1.94	2.28	2.33	
Duke Energy Progress, Lee Plant	-	-	-	1.43	0.88	0.62	0.46	-	-	-	0.00	0.42	0.33	0.25	0.31	0.32	
City of Goldsboro ~ Pipe 01	3.42	2.90	3.29	3.97	3.63	6.07	5.28	3.24	2.78	3.58	2.34	2.46	2.88	2.68	3.25	3.37	
City of Goldsboro ~ Pipe 02	1.85	1.12	1.71	1.69	1.86	3.26	3.96	1.55	1.65	1.81	1.48	1.65	0.00	0.00	0.00	0.00	
Town of LaGrange	3.45	3.38	4.76	4.36	4.35	5.25	4.11	4.08	5.15	4.43	4.46	4.25	5.40	4.71	4.93	3.45	70%
City of Kingston (Regional)	5.26 / 9.19	4.43 / 3.41	3.23	1.80	2.14	3.09	3.21	3.08	1.84	2.36	2.43	2.11	2.38	2.65	2.24	3.51	
Contenthea MSD	4.53	4.97	6.14	6.78	8.27	2.91	1.61	1.96	1.68	1.32	1.59	1.57	1.95	1.83	1.28	1.07	
Dupont-Kinston, Inc.	7.72	7.08	5.99	3.13	1.85	1.90	1.87	2.03	4.04	3.19	1.47	1.70	1.55	2.19	1.35	2.14	
City of New Bern	3.12	4.03	4.31	5.53	5.25	4.01	5.01	3.03	6.35	5.86	4.68	2.88	2.74	3.98	2.91	4.96	
MCAS Cherry Point	3.68	3.30	2.18	2.15	2.62	3.42	3.70	3.49	3.74	3.49	4.16	5.40	4.69	4.67	4.48	3.89	100%
City of Havelock	-	-	-	-	-	-	3.90	4.23	3.93	4.15	3.82	3.24	5.31	4.06	3.23	3.45	
Craven County	-	-	-	-	-	-	-	-	-	-	-	0.89	2.00	1.92	1.94	1.46	
CWS Systems, Inc.	-	-	-	-	-	-	-	8.13	10.29	11.72	9.71	17.28	13.15	14.01	17.84	19.89	
Average TN Conc.	3.21	2.98	3.41	3.02	2.98	2.85	2.80	2.62	2.71	3.03	2.86	2.21	2.54	2.33	2.29	2.50	

\* Data not reported for 2 months

<i>Station</i>	<i>Location</i>	<i>County</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Class</i>	<i>Sub-Basin</i>
J5002000	Middle Creek @ SR 1517 (Old Sanders Hse) near Edmonson	Johnston	35.5626	-78.5756	C NSW	03020201
J5010000	Middle Creek @ NC 210 near Smithfield	Johnston	35.5075	-78.4013	C NSW	03020201
J5170000	Black Creek @ SR 1162 (Black Creek Road) near Four Oaks	Johnston	35.46925	-78.45681	C NSW	03020201
J5250000	Neuse River @ SR 1201 (Richardson Bridge Road) near Cox Mill	Johnston	35.3741	-78.1962	WS-IV NSW	03020201
J5390000	Hannah Creek @ SR 1158 (Allens Crossroads Drive) near Benson	Johnston	35.3868	-78.511	C NSW	03020201
J5390800	Hannah Creek @ SR 1227 (Ivey Road) near Benson	Johnston	35.4025	-78.4952	C NSW	03020201
J5410000	Mill Creek @ SR 1200 (Richardson Bridge Road) near Cox Mill	Johnston	35.342	-78.2162	C NSW	03020201
J5500000	Falling Creek @ SR 1219 (Old Grantham Road) near Grantham	Wayne	35.3224	-78.1282	WS-IV NSW	03020201
J5630000	Little River @ SR 2320, Riley Road near Zebulon	Wake	35.8375	-78.3599	HQW NSW	03020201
J5685000	Little River at Weaver Road near Bagley	Johnston	35.5791	-78.1723	WS-V NSW	03020201
J5750000	Little River at SR 2339 (Bagley Road) near Lowell Mill	Johnston	35.5613	-78.1594	WS-V NSW	03020201
J5790000	Buffalo Creek @ SR 2358 (Lake Glad Road) near Webdeil, N.C.	Wake	35.7697	-78.7697	C NSW	03020201
J5930000	Little River @ US 581 near Cherry Hospital	Wayne	35.393	-78.0258	C NSW	03020201
J6010950	Walnut Creek @ SR 1730 (Saint Johns Church Road) near Walnut Creek	Wayne	35.2817	-77.8686	C NSW	03020202
J6024000	Neuse River @ SR 1731 (Piney Grove Road) near Seven Springs	Wayne	35.229	-77.846	C NSW	03020202
J6044400	Bear Creek at SR 1603, Washington Street near LaGrange	Lenoir	35.3137	-77.8153	C Sw NSW	03020202
J6044500	Bear Creek @ SR 1311 (Bear Creek Road) near Kinston	Lenoir	35.2489	-77.7843	WS-IV Sw NSW	03020202
J6055000	Mosley Creek @ SR 1327 (Willey Measley Road) near LaGrange	Lenoir	35.3119	-77.7313	C Sw NSW	03020202
J6150000	Neuse River @ NC 11 Bypass at Kinston	Lenoir	35.2587	-77.5835	C NSW	03020202
J6250000	Neuse River @ NC 55 near Graingers	Lenoir	35.2957	-77.4962	C NSW	03020202
J6410000	Little Creek @ NC 97 near Zebulon	Wake	35.8279	-78.3025	C NSW	03020203

<i>Station</i>	<i>Location</i>	<i>County</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Class</i>	<i>Sub-Basin</i>
J6450000	Little Creek @ NC 39 near Zebulon	Wake	35.8125	-78.2681	C NSW	03020203
J6500000	Moccasin Creek @ SR 1131 (Antioch Church Road) near Conner	Wilson	35.7301	-78.1895	C NSW	03020203
J6680000	Turkey Creek @ SR 1101 (Claude Lewis Rodd) near Middlesex	Nash	35.7519	-78.1597	C NSW	03020203
J6765000	Contentnea Creek at Willow Springs drive near Dixie	Wilson	35.6838	-77.941	C Sw NSW	03020203
J6890000	Contentnea Creek @ SR 1622 (Evansdale Road) near Wilson	Wilson	35.6429	-77.8902	C Sw NSW	03020203
J7210000	Contentnea Creek @ NC 58 near Stantonburg	Wilson	35.5861	-77.8111	C Sw NSW	03020203
J7240000	Toisnot Swamp @ SR 1539 (Sand Pit Road) near Stantonburg	Wilson	35.5976	-77.7947	C Sw NSW	03020203
J7325000	Nahunta Swamp @ NC 58 near Contentnea	Greene	35.5081	-77.7455	C Sw NSW	03020203
J7330000	Contentnea Creek @ US 13 near Snow Hill	Greene	35.4585	-77.6753	C Sw NSW	03020203
J7690000	Little Contentnea Creek @ SR 1218 (Chinquapin Road) near Farmville	Pitt	35.5881	-77.5416	C Sw NSW	03020203
J7740000	Little Contentnea Creek @ SR 1110 (HWY 903) near Scuffleton	Pitt	35.4567	-77.4854	C Sw NSW	03020203
J7850000	Neuse River @ SR 1470 (Maple Cypress Road) at the boat ramp dock upstre	Craven	35.31368	-77.30287	C Sw NSW	03020202
J8870000	Trent River @ the Alfred Cunningham Drawbridge on E. Front Street, New Be	Craven	35.10159	-77.03708	SB Sw NSW	03020204

**Lower Neuse Basin Association ®**

**TO:** Board Members

**FROM:** Haywood Phthisic, Executive Director

**SUBJECT:** Sampling/Monitoring Report for May 5, 2022 Board Meeting

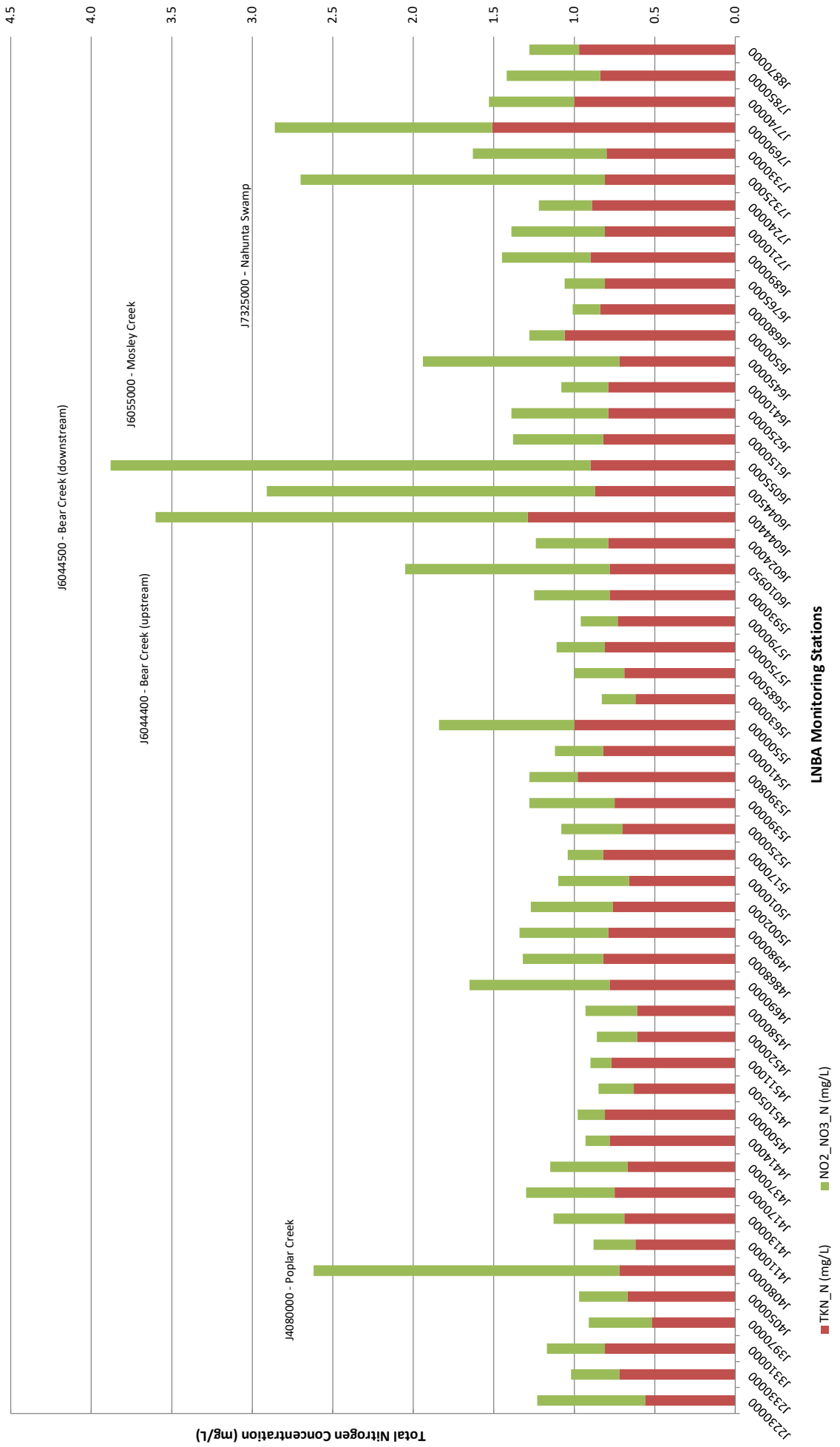
**DATE:** May 5, 2022

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Work continues on the Lower Neuse River Monitoring Service Contract No. 5 with Environment I. All sampling was completed by Environment 1 in February, March, and April, 2022. Data sets have been received through February, 2022 (and posted on website). March sampling results are in data review. All invoices through March, 2022 have been processed and paid.

All samples were collected and analyzed per the Memorandum of Agreement (MOA) requirements in April, 2022. Laboratory analysis is on this data is ongoing at this time.

## 2021 LNBA Monitoring Stations Total Nitrogen Annual Average Concentrations



### 2003-2021 AVERAGE TOTAL NITROGEN CONCENTRATIONS FOR LNBA SAMPLING SITES

