

## AGENDA

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

**May 1, 2025  
Grifton, N. C.  
10:00 a.m.**

- **Welcome, Roll Call, and Introduction of Guests**
  - \* **Member Introductions**
- **Approval of Minutes February 6, 2025 (AI) – Chuck (page 2 -4)**
- **LNBA/NRCA Officer Elections - Chuck**
- **LNBA/NRCA Financials –**
  - \* **February, March, and April, 2025 Treasurer Reports (AI) – Jimmy or Haywood (page 5)**
  - \* **Annual Contracts - Haywood**
  - \* **QuickBooks (Financial Software) – Haywood (page 6)**
- **Neuse Basin Modeling Update, Comments Submitted – Chuck, Dan, or Haywood (page 7)**
- **Tar Pamlico Proposed Rules Conflicts and Proposed Comments Submitted – Dan or Haywood**
- **NRCA Updates -**
  - \* **NRCA Permit – Dan or Haywood**
  - \* **NRCA Annual Report – Haywood (page 9)**
  - \* **Discussion on Falls Lake Member Facilities Proposed Rules – Haywood (pages 10, 8, 11)**
- **LNBA Updates -**
  - \* **LNBA Annual Report – Haywood (page 12)**
  - \* **Sampling Report – February, March, and April, 2025 – Haywood (page 13)**
- **LNBA/NRCA Training Workshop Update – Committee members**
  - July 29<sup>th</sup> – Kinston; July 31<sup>st</sup> - Raleigh**
- **Member Reports -**
- **Next Meeting and Adjourn – September 4, 2025, Wilson, N. C.**

**Action Items (AI)**

**Lower Neuse Basin Association®/Neuse River Compliance Association®  
February 6, 2025 Meeting Minutes  
City of Raleigh, Raleigh, N. C.**

**Attending:**

Chuck Smithwick (Chair)	Contentnea MSD	Jonathan Bulla	Town of Cary
Heather Adams	Town of Fuquay-Varina	Corrie Bondor	Town of Cary
Dan McLawhorn	McLawhorn Legal	Erica Bailey	City of Raleigh
Steven Johnson	Aqua, N. C.	Lori Avent	Town of Apex
Arthur Hough	City of New Bern	Jonathan Lucas	Aqua, N. C.
Reggie Hicks	City of Durham	Lisa Joesph	City of Raleigh
David White	Town of Clayton	Adam Stephenson	Town of Fuquay-Varina
Richard Hamilton	City of Goldsboro	William Beattie	Town of Apex
Kyle Manning	City of Wilson	James Blalock	Town of Clayton
Jimmy Pridgen (Treas)	City of Wilson	Kathy Cooper	City of Raleigh
Dan Wall	Johnston County	Laura Pruitt	City of Wilson
Benjamin Overton	City of Kinston	Karen Preston	NCDEQ DWR
Ron Boquist	Waypoint Anal.	Brian Pridgen	Contentnea MSD
David Hill	DWR - Ecosystems	Barrett Jenkins	Restoration Systems
Will Schneider	NCDEQ - DWR	Jay Sauber	Sauber WQC
Martin Lebo	WSP USA	John Kiviniemi	Hazen & Sawyer
Haywood Phthisic	LNBA/NRCA	Michele Mabry	WSO USA

The Chair, Chuck Smithwick, called the meeting to order and welcomed everyone. The roll was called and there were 11 of 19 members present representing the LNBA and 13 of 24 members present representing the NRCA. The Chair welcomed the Board members and guests.

**Board Minutes** – The Board Minutes for the November 7, 2024 meeting were presented. Being no revisions, Dan Wall made the motion to approve, seconded by David White and approved by the Boards.

**Officer Election for the Position of Secretary** – The Chair open the floor for nominations for the Secretary position. It was noted that the nominee would fill the open position until May, 2025 when all officer positions would be elected (2 year cycle). Jimmy Pridgen nominated Jonathan Bulla with the Town of Cary for the position. Being no other nomination, Jimmy made the motion to approve Jonathan, seconded by Dan Wall, and approved by the Boards to fill the remainder of the term for Secretary.

**LNBA/NRCA Financials – Treasurer’s Reports** – Jimmy Pridgen presented the Treasurer's Report for the period of November, December, 2024, and January, 2025 to the Boards. As of January 31<sup>st</sup>, the LNBA account balance is \$300,414.49 and NRCA account balance is \$382,678.96. Following discussion, Jimmy Pridgen made the motion to approve the reports as presented, seconded by Dan Wall, and approved by the Boards, respectively.

**Year to Date (YTD) Expenditure Summary** – Haywood presented the YTD Expenditure Summary for both Associations. Both summaries were less than 50% of the budget amount at 6 months through the fiscal year.

**LNBA/NRCA FY 2025-26 Recommended Budget and Membership Fees** – Haywood presented the

FY 2025-26 Recommended Budget and Membership Fees for the LNBA and NRCA. The budgets for both associations are presented with no increase in expenditures for the next fiscal year. For the LNBA, there was no reported increase in permitted flow from any member so membership fees should remain relatively close to FY 2024-25. The NRCA had normal shifts in discharged total nitrogen discharges so small variations in dues are normal. Following discussion, Dan Wall made the motion to approve the budgets and membership dues as presented, seconded by David White, and approved by the Boards. Haywood noted the invoices will be mailed on or near the end of June, 2025.

**PFAS Regulations in N. C.** – Michele Mabry with WSP, USA presented an update on the status of PFAS regulation being proposed in North Carolina. She noted that there was currently significant fluctuation in the direction the regulations were headed due to the current tendency on the federal level as well as recent discussions on the State level.

**Neuse River Basin Modeling Update, Comment Due April 1<sup>st</sup>** – Dr. Marty Lebo with WSP, Inc. reviewed the latest review and comments on the Neuse River Watershed Model work which were included in the agenda package. There was a stakeholder meeting held by the Division of Water Resources on January 28<sup>th</sup> in which the staff presented the model results and asked for comments on the model to be sent to them by April 1<sup>st</sup>, 2025. The Chair noted that comments could not be written before this meeting so asked the Boards to authorization to allow the Executive Committee draft and submitted comments on behalf of the Boards. Following discussion, Dan Wall made the motion to authorize the Executive Committee, with the assistance of counsel and subject matter experts, to draft comments and submit, seconded by Reggie Hicks, and approved by the Boards.

**Tar Pamlico Proposed Rules Conflicts and Proposed Comments** – The Chair report that proposed rules for the Tar Pamlico Basin (for those wastewater facilities) was moving forward and could present issues for the Neuse Basin as written. Dan McLawhorn, counsel for the associations, presented proposed comments for the Boards' consideration. The comments were reviewed and following discussion, Jimmy Pridgen made the motion to submit the comments on the proposed rules, seconded by David White, and approved by the Boards.

#### **NRCA Updates -**

*NRCA Permit Renewal Update* – Haywood noted that the NRCA Executive Committee met with DWR on January 8<sup>th</sup> and discuss the issues with the draft NRCA NPDES permit. I received the revised permit this morning so provided our comments have been address the NRCA should receive its permit in short order.

*NRCA Annual Report* – Haywood noted the 2024 NRCA Annual Report is due to DWR (as required by the NRCA permit) on March 31<sup>st</sup>.

*State or National Operator Awards* – Haywood mentioned to the Bboards there is an opportunity to recognize the member operating staff for the great work that the NRCA facilities have and continue achieve in the reduction of total nitrogen to the Neuse Estuary.

#### **LNBA Updates –**

Work continues on the Lower Neuse River Monitoring Service Contract No. 6 with Waypoint Analytical. All sampling was completed by Waypoint in November, December, and January with the exceptions listed below:

## **November 2024**

11/06/24 - J4690000 (Middle Creek at SR-1152 near Holly Springs) - Site inaccessible due: no safe parking.

11/06/24 - J5002000 (Middle Creek at I-40 nr Edmonson) - Bridge access coned off due to maintenance (site was accessible and sampled in December - 12/2/24).

## **December 2024**

12/02/24 - J4690000 (Middle Creek at SR-1152 near Holly Springs) - Site inaccessible due: no safe parking.

## **January 2025**

01/13/25- J4690000 (Middle Creek at SR-1152 near Holly Springs) - Site inaccessible due: no safe parking.

All invoices have been processed and paid through December, 2024.

**LNBA/NRCA Training Workshop Committee** – The Chair appointed the following member sto work on the Training Workshop Committee:

Lori Avent, Town of Cary; Benjamin Overton, City of Kinston; and Anthony Futrell, Nexus Water Group.

They will join the current members: Chuck Smithwick, Jonathan Bulla, Jimmy Pridgen, and Nathan Howell.

The next meeting is scheduled for May 1 2025 at 10:00 hosted by Contentnea MSD in Grifton, N. C. With no further business, the meeting was adjourned.

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

**Treasurer's Report**

**4/28/2025**

**LNBA**

<b>Balance Forward: (checking per bank statement - 1/31/2025)</b>	Checking	\$	117,925.03
	Savings		182,489.46
<b>Debits:</b>		\$	
Waypoint Analytical, Inc. (LNBA, Invoices)			24,339.90
Waypoint Analytical, Inc. (Raleigh, Invoices)			4,510.98
River Delta Consulting			-
PCi (Invoices)			5,705.50
			<hr/>
Total Debits		\$	34,556.38
<b>Credits:</b>		\$	
Interest (checking)			26.62
Interest (MM acc't, savings)*			886.95
Civic Addition to Savings Acc't			-
<b>Checking Account Balance (per bank statement -4/28/2025)</b>	Checking	\$	83,395.27
	Savings		183,376.42
			<hr/>
<b>Total LNBA Account Balance</b>		<b>\$</b>	<b>266,771.69</b>

**NRCA**

<b>Balance Forward: (per bank statement -1/31/2025)</b>	Checking	\$	87,605.29
	Savings		295,073.67
<b>Debits:</b>		\$	
PCi (Invoices)			9,899.00
WSP, Inc.			3,633.50
Sauber Water Quality Consulting			2,013.00
River Delta Consulting			960.00
McLawnhorn Law Office			2,500.00
			<hr/>
Total:		\$	19,005.50
<b>Credits:</b>		\$	
Transfer from Checking to Savings Acc't			-
Interest (MM acc't, savings)*			1,434.20
Interest (Checking)			19.96
Civic Addition to Savings Acc't			-
<b>Account Balance (per bank statement - 4/28/2025)</b>	Checking	\$	68,619.75
	Savings		296,508.89
			<hr/>
<b>Total NRCA Account Balance</b>		<b>\$</b>	<b>365,128.64</b>

## QuickBooks Update

The financial software providing the format for storing the LNBA and NRCA books is QuickBooks by Intuit. The previous executive director started this documentation and I took it over in 2009. QuickBooks was available up until 2021 in a DVD format (approximately \$200 - \$225) but has stopped that. In 2024 the cost for the software had increased to \$650 for a one year subscription.

This year the cost will increase to \$999 plus tax for one year subscription and the software was discontinued in the summer of 2024 for new customers (Desktop Pro Plus 2024).

For comparison I received a quote to from Intuit to transfer to the online service and that will cost \$702 per company (\$1,404 annually) plus \$65 per month (\$780 annually) for online assistance. The first year a 50% discount is offered  $\$2,184 \times 50\% = \$ 1,092$  plus tax.

Since the online proposal is more than my quoted amount I recommend staying with the Desktop Plus Pro software. However, I request an amendment to the PCi agreement to allow for reimbursement for this either amount selected.

Current TN Allocation & Transport Factor				
NRCA Member	Transport Factor	Estuary Allocation	EOP Allocation	
Apex	0.5	20,274	40,548	
Benson	0.5	16,535	33,070	
Cary - North	0.5	71,623	143,246	
Cary - South	0.5	90,105	180,210	
Raleigh - SC	0.5	35,407	70,814	
Raleigh - NR	0.5	356,687	713,374	
Raleigh - LC	0.5	13,330	26,660	
Clayton	0.5	13,318	26,636	
Neuse Colony	0.5	4,224	8,448	
JoCo	0.5	36,738	73,476	
Kenly	0.5	3,548	7,096	
Farmville	0.5	21,106	42,212	
Snow Hill	0.5	2,816	5,632	
Wilson	0.5	78,943	157,886	
Duke Energy	0.7	2,282	3,260	
Goldsboro	0.7	139,876	199,823	
La Grange	0.7	5,913	8,447	
Kinston	0.7	88,697	126,710	
Contentnea MSD	0.7	25,970	37,100	
Covation Bio	0.7	17,845	25,493	
New Bern	1	64,210	64,210	
Cherry Point	1	39,421	39,421	
Havelock	1	21,400	21,400	
CWS	1	11,263	11,263	
		1,181,531	2,066,435	

Neuse Watershed Model New Transport Factor & EOP Total Nitrogen w/ no Change in Estuary Allocation.				
Model HSPF Reach	Transport Factor	(New) EOP Allocation	Net Allocation Change	
171	0.353	57,433	16,885	
253	0.412	40,133	7,063	
33	0.344	208,206	64,960	
173	0.384	234,648	54,438	
10	0.405	87,425	16,611	
110	0.462	772,050	58,676	
531	0.237	56,245	29,585	
130	0.475	28,038	1,402	
150	0.480	8,800	352	
210	0.529	69,448	-4,028	
329	0.525	6,758	-338	
613	0.669	31,549	-10,663	
595	0.657	4,286	-1,346	
553	0.516	152,990	-4,896	
310	0.628	3,634	374	
350	0.620	225,606	25,784	
451	0.608	9,725	1,278	
510	0.767	115,641	-11,069	
619	0.760	34,171	-2,929	
530	0.790	22,589	-2,904	
717	0.981	65,454	1,244	
761	0.887	44,443	5,022	
761	0.887	24,126	2,726	
779	0.995	11,320	57	
		2,314,719	248,284	



**NEUSE RIVER COMPLIANCE ASSOCIATION**  
Total Nitrogen Monitoring Report for 2024

Date: March 28, 2025

Page 1 of 5

FACILITY	NPDES Permit #	END OF PIPE			ESTUARY			% of Estuary Allocation			
		Permit Flow (MGD)	2024 Avg. Flow (MGD)	Member TN Allocation (Lbs/Yr.)	Member TN Discharge (Lbs/Yr.)	Transport Factor	2024 Lease (Estuary Lbs.)		Member Estuary Allocation	Adjusted TN Allocation 2024 (Lbs/Yr.)	2024 TN Delivery (Lbs/Yr.)
SGWASA	NC0026824	5.500	1.621	22,420	12,613	10%	0	2,242	0	1,261	56
Town of Hillsborough	NC0026433	3.000	1.175	10,422	6,684	10%	0	1,042	0	668	64
City of Durham	NC0023841	20.000	10.666	97,665	83,879	10%	0	9,767	0	8,388	86
Town of Apex	NC0064050	3.600	1.179	40,547	16,942	50%	0	20,274	0	8,471	42
Town of Benson	NC0020389	1.900	1.093	33,070	9,852	50%	0	16,535	0	4,926	30
Town of Cary ~ North	NC0048879	12.000	6.363	143,246	56,805	50%	0	71,623	0	28,403	40
Town of Cary ~ South	NC0065102	12.800	6.320	180,211	36,193	50%	0	90,105	0	18,096	20
City of Raleigh ~ Smith Creek	NC0030759	3.000	2.532	70,814	40,695	50%	0	35,407	0	20,347	57
City of Raleigh ~ Neuse	NC0029033	75.000	49.623	713,373	309,340	50%	0	356,687	0	154,670	51
Raleigh ~ Ground Water	NA	NA	NA	NA	56,928	50%	0	NA	0	28,464	
City of Raleigh ~ Little Creek	NC0079316	2.200	1.058	26,660	5,033	50%	0	13,330	0	2,516	19
Town of Clayton	NC0025453	2.500	1.561	26,636	14,080	50%	0	13,318	0	7,040	53
Neuse Colony, (Aqua NC)	NC0064564	0.350	0.272	8,447	7,101	50%	0	4,224	0	3,551	84
Johnston County	NC0030716	9.500	4.629	73,476	32,266	50%	0	36,738	0	16,133	44
Town of Kenly	NC0064891	0.630	0.385	7,096	5,424	50%	0	3,548	0	2,712	76
Town of Farmville	NC0029572	3.500	1.149	42,211	5,398	50%	0	21,106	0	2,699	13
Town of Snow Hill	NC0020842	0.500	0.230	5,632	3,635	50%	0	2,816	0	1,817	65
City of Wilson	NC0023906	14.000	8.527	157,886	55,237	50%	0	78,943	0	27,619	35
Duke Energy ~ Lee Facility	NC0003417	10.160	0.163	3,260	128	70%	0	2,282	0	90	4
City of Goldsboro ~ Pipe 01	NC0023949	14.200	8.764	199,822	98,598	70%	0	139,876	0	69,019	49
City of Goldsboro ~ Pipe 02											
Town of LaGrange	NC0021644	0.750	0.434	8,447	7,029	70%	0	5,913	0	4,920	83
City of Kinston (Regional)	NC0024236	11.850	5.030	126,711	49,919	70%	0	88,697	0	34,943	39
Contentnea MSD	NC0032077	3.500	1.888	37,100	10,927	70%	11,000	25,970	14,970	7,649	51
CovationBio, Inc.	NC0003760	3.600	0.315	25,493	3,250	70%	0	17,845	0	2,275	13
City of New Bern	NC0025348	6.500	4.412	64,210	63,219	100%	0	64,210	0	63,219	98
MCA's Cherry Point	NC0003816	3.500	1.462	39,421	19,876	100%	0	39,421	0	19,876	50
City of Havelock	NC0021253	2.250	1.248	21,400	25,391	100%	6,000	21,400	27,400	25,391	93
Craven County	NC0084460	0.000	0.879	0	4,022	100%	4,500	0	4,500	4,022	89
Carolina Water Service, Inc.	NC0033111	0.600	0.303	11,263	10,780	100%	500	11,263	11,763	10,780	92
		226.890	123.280							579,966	46.4

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.

  
Charles Smithwick, Chairman, Neuse River Compliance Association

  
Date

- NOTES: 1. Average Total Nitrogen Concentration End of Pipe by NRCA Members during 2024: 2.64 mg/L  
 2. Average Total Nitrogen Concentration with ground water contribution in 2024: 2.79 mg/L  
 3. NRCA's Annual Report Prepared By: Haywood M. Phithisic, III, Executive Director  
 4. Monthly discharge adjusted as required by the individual permit.



## *Falls Lake Major Facilities*

### **Durham:**

1995 TN Allocation Calculation - 20 MGD x 5.5 mg/L TN x 8.34 x 365 days = 334,851 lbs. of TN annually

Falls Lake Rules Implementation – 20 MGD x 1.6 mg/L TN x 8.34 x 365 days = 97,665 lbs. of TN annually

2025 Proposed Rule – 20 MGD x 3.5 mg/L TN x 8.34 x 365 days = **213,087 lbs. of TN annually**

### **SGWASA:**

1995 TN Allocation Calculation – 3.5 MGD x 5.5 mg/L TN x 8.34 x 365 days = 58,599 lbs. of TN annually

Falls Lake Rules Implementation – 5.5 MGD x 1.34 mg/L TN x 8.34 x 365 days = 22,420 lbs. of TN annually

2025 Proposed Rule – 5.5 MGD x 3.5 mg/L TN x 8.34 x 365 days = **58,087 lbs. of TN annually**

### **SGWASA:**

1995 TN Allocation Calculation – 3.0 MGD x 5.5 mg/L TN x 8.34 x 365 days = 50,228 lbs. of TN annually

Falls Lake Rules Implementation – 3.0 MGD x 1.14 mg/L TN x 8.34 x 365 days = 10,422 lbs. of TN annually

2025 Proposed Rule – 3.0 MGD x 3.5 mg/L TN x 8.34 x 365 days = **31,963 lbs. of TN annually**

**213,087 + 58,087 + 31,963 = 303,137 TN lbs.**

\* At some point SGWASA received a flow increase from 3.5 MGD to 5.5 MGD where the other two members have the same flow as 1995 permits.

**Table 1**  
Sorted by Zone  
and Type

**TOTAL NITROGEN (TN) ALLOCATIONS**  
**Neuse River Basin - Wastewater Discharges**  
**Baseline Values**

NPDES Permit No.	Permittee & Facility (1995)	1995 Permitted Flow (MGD)	TN Allocations (lb/yr)		
			At End-of-Pipe	At Estuary	
<b>ZONE 1 - 10% TRANSPORT</b>					
<b>Large Dischargers</b>					
1	NC0023841	DURHAM, NORTH WTR. RECLAM. FAC	20.0	334,851	33,485
2	NC0026824	DHR-JOHN UMSTEAD HOSPITAL WWTP	3.5	58,599	5,860
3	NC0026433	HILLSBOROUGH, TOWN-WWTP/ORANGE	3	50,228	5,023
				<b>443,678</b>	<b>44,368</b>
<b>Small Dischargers</b>					
1	NC0037869	ARBOR HILLS MHP	0.006	121	12
2	NC0058785	BIBLE BAPTIST CHURCH	0.003	61	6
3	NC0022853	DURHAM PRODUCTS/ ENO SEWAGE FAC	0.015	303	30
4	NC0024520	G & S ASSOCIATED-DBA DAYS INN	0.018	364	36
5	NC0043389	GORMAN BAPTIST CHURCH	0.004	81	8
6	NC0049662	HEATER UTIL-HAWTHORNE	0.25	5,055	506
7	NC0063614	HEATER UTIL-WILDWOOD SUBD	0.1	2,022	202
8	NC0059099	LAKE RIDGE AERO PARK	0.016	324	32
9	NC0043001	MT. SYLVAN UNITED METHODIST CH.	0.002	40	4
10	NC0036471	PERSON CO SCH - HELENA ELEM.	0.008	162	16
11	NC0051071	ALL YOUTH ATHLETIC, INC.	0.002	40	4
12	NC0056731	SEDFIELD DEV.CORP-GRANDE OAK	0.0068	137	14
13	NC0081752	WILLOWHAVEN COUNTRY CLUB ***	0.0019	38	4
				<b>8,749</b>	<b>875</b>
<b>ZONE 1 TOTAL</b>				<b>452,427</b>	<b>45,243</b>
<b>ZONE 2 - 50% TRANSPORT</b>					
<b>Large Dischargers</b>					
1	NC0029033	RALEIGH, CITY-NEUSE RIVER WWTP	60.00	675,790	337,895
2	NC0023906	WILSON WWTP, TOWN OF	14.00	157,684	78,842
3	NC0064564	RIVER DELL UTILITIES, INC.	0.75	8,447	4,224
4	NC0030716	CENTRAL JOHNSTON COUNTY WWTP	4.99	56,203	28,102
5	NC0060330	CAROLINA WTR SERV.-WHITE OAK S	0.5	5,632	2,816
6	NC0064556	RIVER DELL UTILITIES, INC. #2	0.50	5,632	2,816
7	NC0064050	APEX, TOWN-WWTP/MIDDLE CREEK	3.60	40,547	20,274
8	NC0020389	BENSON WWTP, TOWN OF	3.00	33,790	16,895
9	NC0065102	CARY-SOUTH WWTP, TOWN OF	16.00	180,211	90,105
10	NC0048879	CARY-NORTH WWTP, TOWN OF	12.00	135,158	67,579
11	NC0025453	CLAYTON WWTP, TOWN OF	1.90	21,400	10,700
12	NC0029572	FARMVILLE WWTP, TOWN OF	3.50	39,421	19,711
13	NC0066516	FUQUAY-VARINA	6.00	67,579	33,790
14	NC0064891	KENLY NEW WWTP, TOWN OF	0.63	7,096	3,548
15	NC0020842	SNOW HILL WWTP, TOWN OF	0.50	5,632	2,816
16	NC0030759	WAKE FOREST, TOWN-SMITH CRK WW	6.00	67,579	33,790
17	NC0079316	ZEBULON TOWN OF-LITTLE CREEK	1.85	20,837	10,418
18	NC0001376	BURLINGTON IND., WAKE PLANT	5.00	48,879	24,440
				<b>1,577,517</b>	<b>788,758</b>

## SGWASA -

TN Allocation (Falls Rules): 22,420 lbs.  
Permitted Flow: 5.5 million gallons per day (mgd)  
TN Concentration @ 5.5 mgd:  $22,420 \text{ lbs} / (5.5 \text{ mgd} \times 8.34 \times 365 \text{ days}) = \boxed{1.34 \text{ mg/L}}$

Total Nitrogen Discharged by SGWASA in 2017:  
TN Discharged in 2017: 13,552 lbs.  
Total flow for 2017: 608.82 million gallons (MG)  
TN Concentration for 2017:  $13,552 \text{ lbs} / (608.987 \times 8.34) = \underline{2.67 \text{ mg/L}}$

## CITY OF DURHAM, NORTH FACILITY:

TN Allocation (Falls Rules): 97,665 lbs.  
Permitted Flow: 20.0 million gallons per day (mgd)  
TN Concentration @ 20.0 mgd:  $97,665 \text{ lbs} / (20.0 \text{ mgd} \times 8.34 \times 365 \text{ days}) = \boxed{1.60 \text{ mg/L}}$

Total Nitrogen Discharged by Durham, North in 2017:  
TN Discharged in 2017: 0 lbs.  
Total flow for 2017: 0 million gallons (MG)  
TN Concentration for 2017:  $0 \text{ lbs} / (0.0 \times 8.34) = \underline{0.0 \text{ mg/L}}$

## TOWN OF HILLSBOROUGH FACILITY:

TN Allocation (Falls Rules): 10,422 lbs.  
Permitted Flow: 3.0 million gallons per day (mgd)  
TN Concentration @ 5.5 mgd:  $10,422 \text{ lbs} / (3.0 \text{ mgd} \times 8.34 \times 365 \text{ days}) = \boxed{1.14 \text{ mg/L}}$

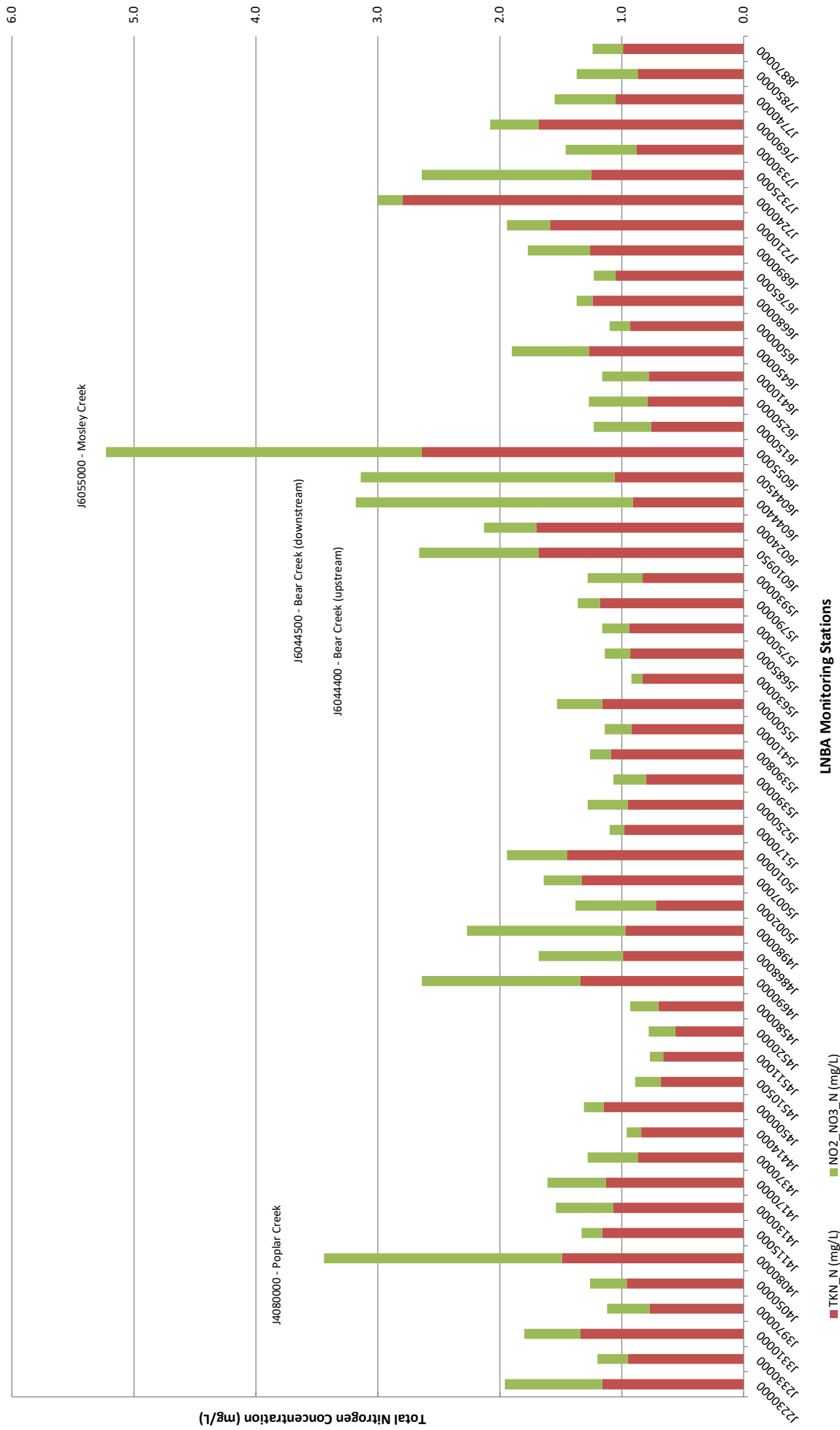
Total Nitrogen Discharged by Hillsborough in 2017:  
TN Discharged in 2017: 0 lbs.  
Total flow for 2017: 0 million gallons (MG)  
TN Concentration for 2017:  $0.0 \text{ lbs} / (0.0 \times 8.34) = \underline{0.0 \text{ mg/L}}$

## CITY OF RALEIGH, SMITH CREEK FACILITY (formerly Wake Forest Facility):

TN Allocation (Falls Rules): 70,814 lbs.  
Permitted Flow: 6.0 million gallons per day (mgd)  
TN Concentration @ 5.5 mgd:  $70,814 \text{ lbs} / (6.0 \text{ mgd} \times 8.34 \times 365 \text{ days}) = \boxed{3.87 \text{ mg/L}}$

Total Nitrogen Discharged by Smith Creek Facility in 2017:  
TN Discharged in 2017: 24,680 lbs.  
Total flow for 2017: 722.226 million gallons (MG)  
TN Concentration for 2017:  $24,680 \text{ lbs} / (722.226 \times 8.34) = \underline{4.10 \text{ mg/L}}$

## 2024 LNBA Monitoring Stations Total Nitrogen Annual Average Concentrations



**Lower Neuse Basin Association®**

**TO:** Board Members

**FROM:** Haywood Phthisic, Executive Director

**SUBJECT:** Sampling/Monitoring Report for May 1, 2025 Board Meeting

**DATE:** April 28, 2025

---

Work continues on the Lower Neuse River Monitoring Service Contract No. 6 with Waypoint Analytical. All sampling was completed by Waypoint in February, March, and April, 2025 with the exceptions listed below:

**February 2025**

2/03/25 - J4690000 (Middle Creek at SR-1152 near Holly Springs) - Site inaccessible due: no safe parking.

**March 2025**

3/06/25 - J4690000 (Middle Creek at SR-1152 near Holly Springs) - Site inaccessible due: no safe parking.

**April 2025**

4/093/25- J4690000 (Middle Creek at SR-1152 near Holly Springs) - Site inaccessible due: no safe parking. A new site was approved, J4670000, (Middle Creek at Holly Springs off of Anchor Creek Way), was sampled in April.

All invoices have been processed and paid through March, 2025.