

AGENDA

Lower Neuse Basin Association, Inc.[®] Neuse River Compliance Association, Inc.[®]

**May 3, 2018
Contentnea MSD, Grifton, N.C.
10:00 a.m.**

- **Welcome, Roll Call, and Introduction of Guests**
- **Approval of Minutes for January 25, 2018 (AI) – (pages 2 -4)**
- **Rules Review Update and Comments (AI) –**
 - * **.0234 (.0713) Proposed Rule Revisions**
 - * **.0240 (.0703) Proposed Trading Program Revisions**
 - * **Public Notice of Buffer Rules**
- **LNBA/NRCA Financials –**
 - * **February, March, and April 2018 Treasurer’s Reports (AI) – (pages 5 – 8)**
 - * **Contract Renewals and Carry Forward for FY 2018-19 (AI) – (pages 9 - 10)**
 - **Sauber Water Quality Consulting (AI) -**
 - **MFG, LLC (AI) -**
 - * **Executive Director Services Contract – (AI) - (page 11)**
- **LNBA Sampling Report, January thru April, 2018 – (page 12)**
 - * **Revised 303(d) Listing Methodology -**
 - * **LNBA 2017 Annual Report -**
- **NRCA Annual Report – (page 13 – 16)**
 - * **Report from the Town of Kenly.**
 - * **Data Reporting for Annual Report (NRCA By-laws).**
 - * **Nitrogen Allocation For Sale -**
- **Neuse River Flood Study -**
- **LNBA – NRCA Annual Training Workshop -**
- **Member Reports -**
- **Next Meeting and Adjourn – Location/Date: City of Wilson, N.C. September 6, 2018**
(AI) – Action Item

Lower Neuse Basin Association®/Neuse River Compliance Association®
January 25, 2018, Meeting Minutes
City of Goldsboro, N.C.

Attending:

Donald Smith	Town of Cary	Laura Pruitt	City of Wilson
Tony Hawkins	City of New Bern	Jeff White	Dow Dupont-Kinston
Barry Parks	City of Wilson	Emily Elmore	City of Kinston
Paul Allen	Town of Benson	Erica Bailey	City of Raleigh
John Cratch	Town of Apex	Michelle Daw	City of Goldsboro
T. J. Lynch	City of Raleigh	Danny Lassiter	CWS, Inc.
James Warren	Town of Clayton	Chuck Smithwick	Contentnea MSD
Dan Wall	Johnston County	Tim Broome	Johnston County
Kenny Stevens, Jr.	City of Kinston	Kathy Hill	City of Goldsboro
Glenn Dunn	Poyner & Spruill	Robert Sherman	City of Goldsboro
Steve Tedder	Black & Veatch	Mike Wagner	City of Goldsboro
Martin Lebo	AquaAeTer	Mark Vander Borgh	DEQ DWR Water Science
William Graham	Duke Energy Progress	Haywood Phthisic	LNBA/NRCA

The Vice-Chair, Barry Parks, called the meeting to order and welcomed everyone. The roll was called and there were 12 of 18 members present representing the LNBA and 13 of 22 members present representing the NRCA. There was a quorum present for both association. Guests were introduced and recognized.

Board Minutes – The Board Minutes from the November 2, 2017 meeting were presented. Mike Wagner made a motion to accept the minutes as presented, seconded by Dan Wall, and approved by the Boards.

Treasurer's Report - The Treasurer's Reports for December, 2017 and November, 2018 were presented by Donald Smith, Treasurer. As of December 21st the LNBA account balances were \$175,029.25 and NRCA account balances are \$194,361.55. Chuck Smithwick made a motion to approve the reports as presented, seconded by Kenny Stevens, and approved by the Boards.

The Finance Committee (Chuck, Donald, & Barry) and Haywood presented the FY 2018-19 recommended budgets and membership fees for the LNBA/NRCA with no proposed increases. Following discussion, John Cratch made the motion to approve the budgets and membership fees as presented, seconded by T. J. Lynch, and approved by the Boards.

Barry reported the executive director's contract will be up for renewal in May and referred it to the Finance Committee to review and bring a contract back for the Boards' consideration at the May 3, 2018 meeting.

LNBA Sampling Committee Report – Work on the Lower Neuse River Monitoring Service Contract No. 5 with Environment I continues. All sampling was completed by Environment 1 in November and December, 2017. Data sets have been received through October, 2017 and uploaded to the website. All invoices through December, 2017 have been processed and paid. The November sampling data are in the final review and should be distributed by the end of January.

November, 2017 –

J6044500 (Bear Creek at Bear Creek Road (SR 1311) near Kinston) was not sampled due to bridge construction. This bridge is scheduled to be replaced in the spring of 2018.

December, 2017 - All samples were collected and analyzed per the MOA requirements. Analysis of these samples are in progress.

NRCA Draft Nitrogen Lease Policy – The NRCA Finance Committee met via conference calls to review and formulate a policy for the Board's consideration on leasing the NRCA's nitrogen allocation. The committee provided a list of issues to consider in the developing the policy such as: lease term, lease rate (cost per pound), lease on first come, first serve, competition between member leases and NRCA, and the use of funds if the NRCA leases its nitrogen. The recommendation from the Finance Committee for the Board's consideration is:

* All members shall exhaust all efforts to lease nitrogen from other members before making a request to lease from the NRCA.

* Leases between the NRCA and a member(s) will be limited to a 5 year term with an option to lease an additional 5 years provided the NRCA as the available nitrogen to lease.

Following discussion by the Board, T. J. Lynch made a motion to approve the recommendation from the Finance Committee (as presented) as a temporary policy, seconded by Jeff White, and approved by the Board.

2018 NRCA NPDES Permit Renewal – Haywood noted the NRCA will renew the NPDES permit in 2018 (due July 1, 2018). Members need to review their permits for renewal in 2018.

02B Rules Draft Rule Comments – Haywood reported the EMC Water Quality Committee received the Draft Rules for Re-adoption at their January meeting and noted the rules would be reviewed and receive additional comments in the near future. Not all of the comments were addressed in previous comment submittals. The major issue is the 200%, 30 year purchase requirement and asked the Board's approval to submit the comments once more. Following discussion by the Board, T. J. Lynch made a motion to approve submit the comments, seconded by Kenny Stevens, Jr., and approved by the Board.

Buffer Draft Rules – The draft buffer rules will be before the EMC in March and the issue that has not been address is requiring mitigation for maintaining sewer line right-of-way if you have not maintained your easements. The Board is requested to authorize additional comments to the EMC to remove this requirement from the proposed rule. Following discussion Kenny Stevens made the motion to approve submitting comments, seconded by Dan Wall, and approved by the Board.

EPA Public Comment Request on Water Quality Standards in Missouri – Haywood report that the EPA is seeking public comments in Missouri that will allow biological integrity to be part of the evaluation of water quality in lakes or tributaries. Given the short time period for comments Haywood asked the Board for authorization to allow the executive committee to review and make comments if appropriate. Following discussion by the NRCA Board, T. J. Lynch made a motion to approve the executive committee to review and make comments if appropriate, seconded by Mike Wagner, and approved by the Board.

Member Reports – All members were given the opportunity to share any items that may be of interest to the associations.

The next meeting is scheduled for May 3, 2018 at 10:00 to be hosted by the Contentnea MSD, in Grifton, N. C. With no further business, the meeting was adjourned.

DRAFT

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

Treasurer's Report

5/1/2018

LNBA

Balance Forward: (checking per bank statement - 3/26/18)	Checking	\$	74,059.17
	Savings	\$	70,529.64
Debits:			
Phthisic Consulting Inc (March, 18 Inv)		\$	1,805.80
Environment I, Inc. (March, 18 Inv)			7,654.06
Bank Charges (checks & maintenance fees)			<u>1.00</u>
	Total Debits	\$	9,460.86
Credits:			
Interest (checking)		\$	8.78
Interest (savings)			28.99
Transfer to Savings			-
Checking Account Balance (per bank statement - 4/25/18)		\$	64,607.09
LGCU Share Account Balance (savings account)			<u>70,558.63</u>
	Total LNBA Account Balance	\$	<u><u>135,165.72</u></u>

NRCA

Balance Forward: (per bank statement - 3/26/18)	Checking	\$	69,252.19
	Savings		112,035.56
Debits:			
Phthisic Consulting Inc (March 18 Inv)		\$	3,353.00
Poyner & Spruill (March 18 Inv)		\$	244.20
MFG, LLC (march 18 Inv.)		\$	100.00
Bank Charges (checks & maintenance fees)			1.00
	Total:	\$	3,698.20
Credits:			
Transfer to Savings		\$	-
Interest (Savings)			46.05
Interest (Checking)			8.32
Nitrogen Lease (Craven County)			-
Account Balance (per bank statement -4/25/18)	Checking	\$	65,562.31
LGCU Share Account Balance (savings account)	Savings		<u>112,081.61</u>
	Total NRCA Account Balance	\$	<u><u>177,643.92</u></u>

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

Treasurer's Report

4/4/2018

LNBA

Balance Forward: (checking per bank statement - 2/22/18)	Checking	\$	84,517.30
	Savings	\$	70,498.73
Debits:		\$	
Phthisic Consulting Inc (February, 18 Inv)			1,601.66
Environment I, Inc. (February, 18 Inv)			7,654.06
Poyner & Spruill (January, 18 Invoice)			902.15
MFG Consulting, LLC (February 18 Invoice)			100.00
Sauber Water Quality (February, 18 Invoice)			210.00
Bank Charges (checks & maintenance fees)			1.00
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	Total Debits	\$	10,468.87
Credits:		\$	
Interest (checking)			10.74
Interest (savings)			30.91
Transfer to Savings			-
Checking Account Balance (per bank statement - 3/26/18)		\$	74,059.17
LGCU Share Account Balance (savings account)			70,529.64
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	Total LNBA Account Balance	\$	144,588.81
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NRCA

Balance Forward: (per bank statement - 2/22/18)	Checking	\$	73,327.73
	Savings		111,986.46
Debits:		\$	
Phthisic Consulting Inc (January 18 Inv)			2,973.00
Poyner & Spruill (January 18 Inv)		\$	901.00
Sauber Water Quality (February 18 Inv)		\$	210.00
Bank Charges (checks & maintenance fees)			1.00
			<hr/>
	Total:	\$	4,085.00
Credits:		\$	
Transfer to Savings			-
Interest (Savings)			49.10
Interest (Checking)			9.46
Nitrogen Lease (Craven County)			-
Account Balance (per bank statement -3/26/18)	Checking	\$	69,252.19
LGCU Share Account Balance (savings account)	Savings		112,035.56
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	Total NRCA Account Balance	\$	181,287.75
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Lower Neuse Basin Association, Inc. / Neuse River Compliance Association, Inc.

Treasurer's Report

3/9/2018

LNBA

Balance Forward: (checking per bank statement - 1/26/18)	Checking	\$	93,882.23
	Savings	\$	70,481.83
Debits:			
Phthisic Consulting Inc (January, 18 Inv)		\$	1,477.79
Environment I, Inc. (January, 18 Inv)			7,654.06
Poyner & Spruill (December, 17 Invoice)			122.10
MFG Consulting, LLC (January 18, Inv)			120.00
Bank Charges (checks & maintenance fees)			1.00
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	Total Debits	\$	9,374.95
Credits:			
Interest (checking)		\$	10.02
Interest (savings)			16.90
Transfer to Savings			-
Checking Account Balance (per bank statement - 2/22/18)		\$	84,517.30
LGCU Share Account Balance (savings account)			70,498.73
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Total LNBA Account Balance		\$	155,016.03
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NRCA

Balance Forward: (per bank statement - 1/26/18)	Checking	\$	76,065.41
	Savings		111,959.62
Debits:			
Phthisic Consulting Inc (January 18 Inv)		\$	2,745.00
Bank Charges (checks & maintenance fees)			1.00
	Total:	\$	2,746.00
Credits:			
Transfer to Savings		\$	-
Interest (Savings)			26.84
Interest (Checking)			8.32
Nitrogen Lease (Craven County)			-
Account Balance (per bank statement -2/22/18)	Checking	\$	73,327.73
LGCU Share Account Balance (savings account)	Savings		111,986.46
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Total NRCA Account Balance		\$	185,314.19
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Lower Neuse Basin Association, Inc. / Neuse River Compliance Association, Inc.

Treasurer's Report

2/5/2018

LNBA

Balance Forward: (checking per bank statement - 12/21/17)	Checking	\$	104,564.80
	Savings	\$	70,464.45
Debits:		\$	
Phthisic Consulting Inc (Nov & Dec, 17 Invs)			3,407.02
Environment I, Inc. (December 17, Inv)			7,289.58
Bank Charges (checks & maintenance fees)			<u>1.00</u>
	Total Debits	\$	10,697.60
Credits:		\$	
Interest (checking)			15.03
Interest (savings)			17.38
Transfer to Savings			-
Checking Account Balance (per bank statement - 1/26/18)		\$	93,882.23
LGCU Share Account Balance (savings account)			<u>70,481.83</u>
	Total LNBA Account Balance	\$	<u>164,364.06</u>

NRCA

Balance Forward: (per bank statement - 12/21/17)	Checking	\$	82,429.54
	Savings		111,932.01
Debits:		\$	
Phthisic Consulting Inc (Nov & Dec 17 Invs)			6,325.00
MFG Consulting (December 17 Inv)			50.00
Bank Charges (checks & maintenance fees)			1.00
	Total:	\$	6,376.00
Credits:		\$	
Transfer to Savings			-
Interest (Savings)			27.61
Interest (Checking)			11.87
Nitrogen Lease (Craven County)			-
Account Balance (per bank statement -1/26/18)	Checking	\$	76,065.41
LGCU Share Account Balance (savings account)	Savings		<u>111,959.62</u>
	Total NRCA Account Balance	\$	<u>188,025.03</u>

FY 2017–18 Contract and Budget LNBA/NRCA

5/01/18

- The contracts with Sauber Water Quality Consulting and MFG, LLC are written with 1 year terms with automatic 1 year extensions upon approval of both parties. The Sauber agreement is \$3,500 annual for each association and the MFG agreement is \$2,500 for LNBA and \$1,500 for the NRCA. I am requesting the Board authorize the executive director to extend those contract for 1 year.
- The draft 303(d) listing should have been distributed for public review this spring however with the methodology revision (in March) the listing has been delayed. The listing will be released in late summer or early fall for review. I am requesting the Board to authorize a budget amendment from the current Sauber contract (FY 2017-18) of \$2,000 (from each association) and those funds carried forward into FY 2018-19 budget in the event those funds are needed for the listing review and other issue that may surface in FY 2018-19.

Current Expenditures for FY 2017-18

Date: 5/01/2018

LNBA	Env. I	PCi	Training	Admin	P & S	MFG, LLC	Sauber	Total	
July, 2017	\$ 7,289.58	\$ 1,183.88	\$ 893.51	\$ -	\$ -	\$ 100.00	\$ -	\$ 9,466.97	
August	7,289.58	1,633.90	-	-	-	-	-	8,923.48	
September	7,289.58	1,578.76	-	-	-	-	-	8,868.34	
October	7,289.58	1,566.31	-	-	1,235.96	100.00	-	10,191.85	
November	7,289.58	1,796.46	-	600.00	-	75.00	420.00	10,181.04	
December	7,289.58	1,610.62	-	-	-	75.00	-	8,975.20	
January, 2018	7,654.06	1,477.79	-	-	122.10	-	-	9,253.95	
February	7,654.06	1,601.66	-	-	-	120.00	210.00	9,585.72	
March	7,654.06	1,805.80	-	-	-	-	-	9,459.86	
April	7,654.06	1,474.03	-	-	-	150.00	-	9,278.09	
May	-	-	-	-	-	-	-	-	
June	-	-	-	-	-	-	-	-	
Total	\$ 74,353.72	\$ 15,729.21	\$ 893.51	\$ 600.00	\$ 1,358.06	\$ 620.00	\$ 630.00	\$ 94,184.50	
Budget	\$ 94,800.00	\$ 21,500.00	\$ 1,500.00	\$ 1,000.00	\$ 10,000.00	\$ 2,500.00	\$ 3,500.00	\$ 134,800.00	70%

NRCA	Permit	PCi	Training	Admin	P & S	MFG, LLC	Sauber	Total	
July, 2016	\$ -	\$ 2,199.00	\$ 935.82	\$ -	\$ 61.05	\$ -	\$ -	\$ 3,195.87	
August	-	3,033.00	-	-	-	100.00	-	3,133.00	
September	-	2,933.00	-	-	1,770.45	100.00	-	4,803.45	
October	-	2,907.00	-	-	885.23	125.00	-	3,917.23	
November	-	3,335.00	-	600.00	1,556.78	-	420.00	5,911.78	
December	3,400.00	2,990.00	-	-	305.25	50.00	-	6,745.25	
January, 2017	-	2,745.00	-	-	-	-	-	2,745.00	
February	-	2,973.00	-	-	-	-	210.00	3,183.00	
March	-	3,353.00	-	-	641.03	100.00	-	4,094.03	
April	-	2,738.00	-	-	-	150.00	-	2,888.00	
May	-	-	-	-	-	-	-	-	
June	-	-	-	-	-	-	-	-	
Total	\$ 3,400.00	\$ 29,206.00	\$ 935.82	\$ 600.00	\$ 5,219.79	\$ 625.00	\$ 630.00	\$ 40,616.61	
Budget	\$ 3,500.00	\$ 40,000.00	\$ 1,500.00	\$ 2,500.00	\$ 20,000.00	\$ 1,500.00	\$ 3,500.00	\$ 72,500.00	56%

Executive Director Services Contract Finance Committee Recommendation

5/02/18

Finance Committee Members – Barry Parks, City of Wilson; Donald Smith, Town of Cary; and Chuck Smithwick; Contentnea MSD.

The Finance Committee met (via telephone conference call on April 2, 2018) with Haywood Phthisic of Phthisic Consulting, Inc. to discuss the renewal of the executive director services contract. Haywood presented a draft contract agreement with minor revisions from the previous agreement. Those revisions are:

- For Fy 2018-19 the consultant hourly rate will remain at \$65.00 per hour. Beginning on July 01, 2019 the rate will increase to \$70.00 per hour for the remainder on the contract.
- Inserted a cap on the number of hours for annual compensation at 1,040.
- The agreement term is 3 years and some minor grammatical corrections were made to the agreement.

Following discussion, the committee recommends renewal of the agreement as presented.

Lower Neuse Basin Association®

TO: Board Members

FROM: Water Sampling Contract Coordinator

SUBJECT: Sampling/Monitoring Report for May 03, 2018 Board Meeting

DATE: May 02, 2018

Work on the Lower Neuse River Monitoring Service Contract No. 5 with Environment 1 continues. All sampling was completed by Environment 1 in January, February, March and April, 2018. Data sets have been received through February, 2018 and loaded on the website. March sampling results are in final review. J5410000 (Mill Creek at Richardson Bridge Road) will return to service in May and site J5420000, temporary site, will be discontinued in May, 2018. All invoices through March, 2018 have been processed and paid. Sampling exceptions for each period are listed below:

January, 2018 –

J6500000 (Moccasin Creek at Antioch Church Road near Conner). No sample collected because the stream was frozen.

J6680000 (Turkey Creek at Claude Lewis Road near Middlesex). No sample collected because the stream was frozen.

Revised 2018 303(d) Listing Methodology -

In March the EMC Water Quality Committee and the full EMC approved revisions to the **2018 303(d)** listing methodology (assessment years 2012 – 2016). The old **2016 303(d)** listing methodology required a >10% exceedance frequency of a water quality standard with at least 90% statistical confidence. **The New 2018 303(d) Methods will make it harder to remove water bodies from an impairment status and make it easier to keep waterbodies listed as impaired. The new methodology is more complicated and more detailed.** The new method includes three different designations: Meeting Criteria, Inconclusive, and Impaired. An “Inconclusive” determination is NOT the same as meeting water quality standards in the new process.

Several 2018 303(d) Method Examples as may be applied to the Neuse Estuary:

- Water Assessment Units with 10 or more observations in the five year window (2012-2016) and have >10% of observations exceeding criteria but < 90% statistical confidence in exceeding criteria but with four observations (regardless of the number of samples) that exceed criteria in the period from 2015-2016 are now considered as exceeding the criteria and are considered “impaired”.
- Water bodies with 10 or more observations in the five year assessment window (2012-2016) and have >70% binomial statistical confidence attaining the standard are considered as meeting the criteria.

NEUSE RIVER COMPLIANCE ASSOCIATION

Total Nitrogen Monitoring Report for 2017

Date: March 23, 2018

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NPDES Permit #	NPDES Permit #	END OF PIPE				ESTUARY					
		Permit Flow (MGD)	2017 Avg. Flow (MGD)	Member TN Allocation (Lbs/Yr.)	Member TN Discharge (Lbs/Yr.)	Transport Factor	Annual Lease (Estuary Lbs.)	Member Estuary Allocation	Adjusted TN Allocation 2017 (Lbs/Yr.)	2017 TN Delivery (Lbs/Yr.)	% of Estuary Allocation
SGWASA	NC0026824	5.50	1.668	22,420	13,552	10%	0	5,860	0	1,355	23
Town of Apex	NC0064050	3.60	1.065	40,547	11,461	50%	0	20,274	0	5,731	28
Town of Benson	NC0020389	1.90	0.853	33,070	8,046	50%	0	16,535	0	4,023	24
Town of Cary ~ North	NC0048879	12.00	5.941	143,246	39,140	50%	0	71,623	0	19,570	27
Town of Cary ~ South	NC0065102	12.80	4.712	180,211	33,254	50%	0	90,105	0	16,627	18
City of Raleigh ~ Smith Creek	NC0030759	3.00	1.979	70,814	24,680	50%	0	35,407	0	12,340	35
City of Raleigh ~ Neuse	NC0029033	60.00	46.122	687,373	322,212	50%	0	341,242	0	161,106	60
Raleigh ~ Ground Water	NA	NA	NA	NA	84,828	50%	0	NA	0	42,414	
City of Raleigh ~ Little Creek	NC0079316	2.20	0.751	22,455	4,613	50%	0	11,227	0	2,307	21
Town of Clayton	NC0025453	2.50	1.607	22,832	20,900	50%	0	11,416	0	10,450	92
Neuse Colony, (Aqua NC)	NC0064564	0.350	0.253	8,447	7,131	50%	0	4,224	0	3,566	84
Johnston County	NC0030716	9.50	4.267	71,476	39,317	50%	0	35,738	0	19,658	55
Town of Kenly	NC0064891	0.630	0.282	7,096	5,191	50%	0	3,548	0	2,595	73
Town of Farmville	NC0029572	3.500	1.719	42,211	5,717	50%	0	21,106	0	2,859	14
City of Wilson	NC0023906	14.000	8.497	157,886	56,085	50%	0	78,943	0	28,043	36
Duke Energy ~ Lee Facility	NC0003417	NA	0.028	3,260	35	70%	0	2,282	0	25	1
City of Goldsboro	NC0023949	14.200	8.463	199,822	62,384	70%	0	139,876	0	43,669	31
Town of LaGrange	NC0021644	0.750	0.382	8,447	4,935	70%	0	7,213	0	3,454	48
City of Kingston (Regional)	NC0024236	11.850	4.438	126,711	28,534	70%	0	88,697	0	19,974	23
Contentnea MSD	NC0032077	3.500	1.683	37,100	8,068	70%	-7,000	25,970	18,970	5,647	22
Dupont-Kinston, Inc.	NC0003760	3.600	0.305	25,493	1,573	70%	-307	17,538	0	1,101	6
City of New Bern	NC0025348	6.500	3.060	64,210	26,808	100%	0	64,210	0	26,808	42
MCAS Cherry Point	NC0003816	3.500	1.669	39,421	27,436	100%	0	39,421	0	27,436	70
City of Havelock	NC0021253	1.900	1.296	21,400	12,777	100%	0	21,400	0	12,777	60
Craven County	NC0084460	0.600	0.132	0	357	100%	357	357	357	357	100
Carolina Water Service, Inc.	NC0033111	177.880	0.341	11,263	17,931	100%	7,000	18,263	18,263	17,931	98
								1,172,475		491,822	

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.


Date: 3/21/18

Darrel F. McLawhorn, Chairman, Neuse River Compliance Association

- NOTES: 1. Average Total Nitrogen Concentration End of Pipe by NRCA Members during 2017: 2.53 mg/L
 2. Average Total Nitrogen Concentration with ground water contribution in 2017: 2.81 mg/L
 3. NRCA's Annual Report Prepared By: Hayward M. Phthisic, III, Executive Director

NEUSE RIVER COMPLIANCE ASSOCIATION

Total Nitrogen Monitoring Report for 2017

Date: March 23, 2018

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FACILITY	May, 2017			June, 2017			July, 2017			August, 2017		
	Flow (MG)	TN Conc. (mg/L)	TN Disch. (lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (lbs.)
SGWASA	61.716	1.8438	949	59.760	1.5800	787	48.614	1.4425	585	46.793	1.4680	573
Town of Apex	37.384	3.5400	1,104	33.443	3.6000	1,004	30.684	3.5500	908	27.559	3.2800	754
Town of Benson	41.489	1.6380	567	30.635	2.7150	694	21.650	2.3500	424	20.584	3.0750	528
Town of Cary ~ North	188.790	2.1714	3,419	178.700	1.7715	2,640	165.380	2.0658	2,849	170.170	1.6300	2,313
Town of Cary ~ South	156.590	2.6351	3,441	150.130	2.9823	3,734	137.850	2.1232	2,441	140.350	1.7534	2,052
City of Raleigh ~ Smith Creek	80.175	5.7720	3,860	61.565	3.3375	1,714	61.897	3.5275	1,821	63.056	3.5280	1,855
City of Raleigh ~ Neuse	1,513.500	1.6972	21,423	1,410.881	1.9547	23,000	1,394.682	1.6700	19,425	1,385.721	1.6600	19,184
Raleigh ~ Ground Water			7,069			7,069			7,069			7,069
City of Raleigh ~ Little Creek	26.755	2.0580	459	25.028	1.8600	388	21.929	2.3000	421	21.430	1.6400	293
Town of Clayton	54.094	3.3675	1,519	48.507	2.6367	1,067	44.576	3.9475	1,468	48.797	3.1633	1,287
Neuse Colony (Aqua NC)	8.059	10.0750	677	7.487	9.2400	577	7.556	8.7000	548	7.711	7.9000	508
Johnston County	257.976	2.5650	5,519	125.298	1.6340	1,708	89.869	3.3325	2,498	100.347	1.9960	1,670
Town of Kenly	12.807	1.6650	178	NVR*	NVR*		8.224	NVR*		9.120	14.1400	1,075
Town of Farmville	67.342	0.6180	347	51.818	0.6225	269	39.430	1.0175	335	69.300	0.7460	431
City of Wilson	313.420	2.1780	5,693	272.750	1.5825	3,600	224.390	1.8920	3,541	252.040	1.3800	2,901
Duke Energy ~ Lee Facility	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0
City of Goldsboro ~ Pipe 01	383.391	4.3850	14,021	272.265	2.0060	4,555	210.707	1.7900	3,146	212.330	1.4375	2,546
City of Goldsboro ~ Pipe 02	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0
Town of LaGrange	15.585	4.2500	552	9.119	4.4640	339	9.591	4.3625	349	7.595	4.1300	262
City of Kinston (Regional)	193.250	2.1740	3,504	132.840	1.6200	1,795	119.340	1.7300	1,722	111.410	1.9825	1,842
Contentnea MSD	52.695	1.2900	567	49.902	1.3625	567	47.117	1.5925	626	47.014	1.8280	717
Dupont-Kinston, Inc.	19.371	2.6780	433	8.164	0.6375	43	8.954	2.8825	215	8.878	1.7780	132
City of New Bern	113.210	2.4200	2,285	123.743	1.9320	1,994	125.700	1.3600	1,426	0.000	0.0000	0
MCAS Cherry Point	49.397	5.9400	2,447	48.361	6.9750	2,813	55.767	6.2600	2,912	57.319	4.6000	2,199
City of Havelock	36.762	1.4375	441	33.450	2.4020	670	40.765	2.2800	775	51.079	1.1420	486
Craven County	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0
Carolina Water Service, Inc.	10.624	17.5600	1,556	11.220	16.8950	1,581	11.970	13.5975	1,357	9.885	20.2980	1,673
Totals	3,694.382		82,029	3,145.066		62,609	2,926.642		56,859	2,868.488		52,352

* No Value Report on DMR

NEUSE RIVER COMPLIANCE ASSOCIATION
End of Pipe Total Nitrogen Concentration Report 2006 - 2017

Date: May 01, 2018

FACILITY	2006 TN Conc. (mg/L)	2007 TN Conc. (mg/L)	2008 TN Conc. (mg/L)	2009 TN Conc. (mg/L)	2010 TN Conc. (mg/L)	2011 TN Conc. (mg/L)	2012 TN Conc. (mg/L)	2013 TN Conc. (mg/L)	2014 TN Conc. (mg/L)	2015 TN Conc. (mg/L)	2016 TN Conc. (mg/L)	2017 TN Conc. (mg/L)	Basin Transport Zone
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	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	50%
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	
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	
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	
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	
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	
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	
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	
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	
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	
Town of Kenly	9.18	5.90	9.75	9.53	9.90	4.85	2.08	2.23	2.87	3.18	2.51	6.05*	
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	
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	
Duke Energy Progress, Lee Plant	-	-	-	1.43	0.88	0.62	0.46	-	-	-	0.00	0.42	70%
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	
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	
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	
City of Kinston (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	
Contentnea 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	
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	
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	100%
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	
City of Havelock	-	-	-	-	-	-	3.90	4.23	3.93	4.15	3.82	3.24	
Craven County	-	-	-	-	-	-	-	-	-	-	-	0.89	
CWS Systems, Inc.	-	-	-	-	-	-	-	8.13	10.29	11.72	9.71	17.28	
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	

* Data not reported for 2 months

Year	Total Average Flow (MGD)	Total Nitrogen (lbs.) Delivered to the Neuse Estuary
1995	83.808	1,784,130
1996	85.675	1,741,492
1997	81.444	1,653,262
1998	93.442	1,387,717
1999	94.659	1,123,169
2000	92.582	1,056,202
2001	86.818	907,381
2002	89.926	797,991
2003	107.463	711,398
2004	101.203	558,553
2005	101.757	566,627
2006	102.970	542,205
2007	92.994	461,325
2008	90.563	489,798
2009	98.570	497,002
2010	101.852	584,192
2011	93.384	513,269
2012	97.248	540,892
2013	102.847	514,847
2014	108.359	568,387
2015	108.721	610,915
2016	108.734	593,145
2017	101.510	491,822