

NEUSE RIVER COMPLIANCE ASSOCIATION®  
Post Office Box 1410  
Clayton, North Carolina 27528 - 1410

March 23, 2018

Mrs. Linda Culpepper, Interim Director  
N. C. DEQ - Division of Water Resources  
1617 Mail Service Center  
Raleigh, North Carolina 27699-1617

Re: NPDES Permit No. NCC000001  
Annual Report for 2017

Dear ~~Mrs. Culpepper~~ :

The Neuse River Compliance Association is pleased to submit its 2017 annual report as required in the above referenced permit. As included in the attached report, the co-permittee members delivered a total of 491,822 pounds of total nitrogen to the Neuse Estuary during calendar year 2017, approximately 42% of the permit limit of 1,187,213 pounds for 2017.

We are very proud of the continued accomplishments of the Association and the efforts made by our members to control nitrogen loading to the Neuse River Estuary.

We hope that the enclosed report provides the detailed information that the Division has requested. If you have any questions, or if you need any further information, please contact our Executive Director, Haywood M. Phthisic, III, at 919.796.8049.

Sincerely,



Daniel F. McLawhorn  
Chairman

cc: Haywood M. Phthisic, III  
Board Member

Enclosures: Annual Report

NEUSE RIVER COMPLIANCE ASSOCIATION (NRCA)

2017 ANNUAL REPORT

NPDES PERMIT NCC000001

**(i). Co-Permittee Members of the NRCA for Calendar Year 2017**

Town of Apex -	NPDES Permit # NC0064050
Town of Kenly -	NPDES Permit # NC0064891
Town of Benson -	NPDES Permit # NC0020389
City of Kinston -	NPDES Permit # NC0024236
Town of Cary	
North Plant -	NPDES Permit # NC0048879
South Plant -	NPDES Permit # NC0065102
City of Raleigh	
Neuse WWTP -	NPDES Permit # NC0029033
Smith Creek WWTP -	NPDES Permit # NC0030759
Little Creek WWTP -	NPDES Permit # NC0079316
Johnston County -	NPDES Permit # NC0030716
City of Goldsboro -	NPDES Permit # NC0023949
Town of Clayton -	NPDES Permit # NC0025453
City of New Bern -	NPDES Permit # NC0025348
Contentnea MSD -	NPDES Permit # NC0032077
City of Wilson -	NPDES Permit # NC0023906
Town of Farmville -	NPDES Permit # NC0029572
Town of LaGrange -	NPDES Permit # NC0021644
MCAS Cherry Point -	NPDES Permit # NC0003816
Dupont-Kinston, Inc. -	NPDES Permit # NC0003760
Aqua N.C., Neuse Colony -	NPDES Permit # NC0064564
Duke Energy Progress -	NPDES Permit # NC0003417
South Granville W&S Authority -	NPDES Permit # NC0026824
City of Havelock -	NPDES Permit # NC0021253
CWS Systems, Inc. -	NPDES Permit # NC0033111
Craven County -	NPDES Permit # NC0089460

**(ii). Summary of revisions in the NRCA 's membership for 2017:**

No revisions were requested in 2017.

**(iii). Summary of all purchases, sales, trades, leases, and other transactions affecting the TN allocations of the Association or its Co-Permittee members in 2017:**

There were no permanent transfers of total nitrogen allocations between NRCA members in 2017.

Short Term Lease Agreements in 2017 -

\* **Craven County** leased 50 lbs. of estuary nitrogen to their facility, NPDES # NC0089460, for 2017. The water treatment facility began operations in October. The facility discharged a total of 357 lbs. for 2017. Craven County leased 307 lbs. from Dow-DuPont, Inc. (NC0003760) to complete their nitrogen allocation requirements.

\* **CWS Systems, Inc.** leased 7,000 estuary pounds of nitrogen from Contentnea MSD for 2017 for its facility at Fairfield Harbor (NC0033111). The facility at Fairfield Harbor had numerous equipment failures during 2017 causing the nitrogen exceedance.

**Progress Achieved:**

The Association is extremely proud of the commitment, experience, and knowledge of its members in reducing nitrogen delivery to the Neuse River Estuary since the implementation of the Neuse Nutrient Management Strategy in 1998 as demonstrated below.

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

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FACILITY	NPDES Permit #	END OF PIPE				ESTUARY			2017 TN Delivery (Lbs/Yr.)	% of Estuary Allocation	
		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 (Lbs/Yr.)
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	NA	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	9.500	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 Kinston (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	0.600	0.341	11,263	17,931	100%	7,000	18,263	18,263	17,931	98
		177.880	101.510					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.

*[Signature]*  
Date: 3/21/18

Daniel 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: Haywood M. Phtshic, III, Executive Director

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Total Nitrogen Monitoring Report for 2017

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FACILITY	January, 2017			February, 2017			March, 2017			April, 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	63.648	7.2060	3,825	46.229	5.3250	2,053	51.706	2.8050	1,210	63.927	3.0975	1,651
Town of Apex	38.611	3.9750	1,280	30.403	4.0800	1,035	34.236	3.4250	978	38.797	3.1750	1,027
Town of Benson	29.370	2.2050	540	22.072	6.9150	1,273	23.905	2.4280	484	32.051	1.8425	493
Town of Cary ~ North	184.130	2.3554	3,617	161.520	2.8342	3,818	193.650	2.6500	4,280	244.630	2.7760	5,664
Town of Cary ~ South	157.130	2.2255	2,916	133.780	2.0536	2,291	152.330	2.3736	3,015	159.000	3.0011	3,980
City of Raleigh ~ Smith Creek	58.190	4.1720	2,025	48.715	4.3075	1,750	56.803	4.3300	2,051	58.869	4.6050	2,261
City of Raleigh ~ Neuse	1,459.691	2.3300	28,365	1,259.798	2.8300	29,734	1,411.300	1.9389	22,821	1,559.132	3.3450	43,496
Raleigh ~ Ground Water			7,069			7,069			7,069.0			7,069
City of Raleigh ~ Little Creek	29.148	2.4720	601	20.867	2.1900	381	24.879	2.0875	433	30.194	1.9450	490
Town of Clayton	47.571	6.5450	2,597	38.712	7.5400	2,434	44.402	3.4700	1,285	58.282	3.7175	1,807
Neuse Colony (Aqua NC)	7.644	8.6400	551	6.757	8.8667	500	7.784	9.5400	619	7.538	7.8500	494
Johnston County	150.804	5.0880	6,399	120.899	2.3525	2,372	144.016	3.2350	3,886	164.352	3.1575	4,328
Town of Kenly	12.259	7.5275	770	8.640	3.5900	259	10.150	3.2500	275	15.680	1.7675	231
Town of Farmville	69.333	1.4120	816	41.419	2.3425	809	49.527	1.2025	497	68.893	1.4525	835
City of Wilson	306.620	2.1860	5,590	228.670	2.1300	4,062	273.600	2.0425	4,561	341.420	2.4300	6,919
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	251.219	1.3775	2,886	185.090	2.6250	4,052	237.076	2.4100	4,765	299.099	2.7950	6,972
City of Goldsboro ~ Pipe 02	74.341	1.8420	1,142	51.520	1.4825	637	21.619	1.3600	245	0.000	0.0000	0
Town of LaGrange	20.731	3.5750	618	11.033	4.2100	387	11.011	4.2000	386	12.006	3.9300	394
City of Kinston (Regional)	189.310	1.9380	3,060	125.560	2.2000	2,304	132.920	2.0250	2,245	171.810	2.5087	3,595
Contentinea MSD	68.227	1.4060	800	43.120	1.8325	659	49.411	1.6750	690	60.421	1.5525	782
Dupont-Kinston, Inc.	9.920	0.6000	50	7.918	0.8450	56	8.355	0.7100	49	9.241	0.8250	64
City of New Bern	141.420	6.6250	7,814	0.139	5.9100	7	119.710	4.6700	4,662	0.000	0.0000	0
MCAS Cherry Point	56.046	5.1400	2,403	49.418	5.5500	2,287	54.066	5.2750	2,379	48.707	5.2000	2,112
City of Havelock	40.086	4.0300	1,347	32.917	3.2400	889	36.689	1.5700	480	39.585	1.8350	606
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.	11.571	10.4740	1,011	10.040	12.8400	1,075	10.981	17.5500	1,607	10.800	20.6225	1,858
Totals	3,477.020		88,091	2,685.236		72,194	3,160.126		71,073	3,494.434		97,125

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## Total Nitrogen Monitoring Report for 2017

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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
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 Kingston (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

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FACILITY	September, 2017			October, 2017			November, 2017			December, 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	39.124	1.4743	481	42.550	1.3850	491	41.832	1.2175	425	43.088	1.4500	521
Town of Apex	28.905	3.1500	759	29.669	3.0200	747	28.958	3.6500	882	30.233	3.9000	983
Town of Benson	21.540	4.5750	822	19.127	6.0125	959	26.400	2.9420	648	22.382	3.2950	615
Town of Cary ~ North	164.080	1.5958	2,184	171.380	1.8215	2,603	167.970	2.0217	2,832	178.050	1.9670	2,921
Town of Cary ~ South	133.280	2.1410	2,380	134.430	2.4933	2,795	127.440	1.9162	2,037	137.460	1.8937	2,171
City of Raleigh ~ Smith Creek	59.832	3.2000	1,597	63.070	3.7175	1,955	62.624	3.8860	2,030	47.430	4.4550	1,762
City of Raleigh ~ Neuse	1,347.677	3.1700	35,630	1,382.659	1.8800	21,679	1,326.071	2.9000	32,072	1,383.379	2.2000	25,382
Raleigh ~ Ground Water			7,069			7,069			7,069		0.0000	7,069
City of Raleigh ~ Little Creek	20.265	1.2825	217	17.433	1.6960	247	17.148	1.8700	267	18.921	2.6380	416
Town of Clayton	51.551	4.2960	1,847	48.154	3.3375	1,340	49.194	4.9300	2,023	52.617	5.0725	2,226
Neuse Colony (Aqua NC)	8.030	9.5000	636	7.982	9.7250	647	7.756	9.0600	586	8.196	11.5250	788
Johnston County	99.180	1.8875	1,561	100.409	3.5020	2,933	92.190	3.1475	2,420	111.941	4.3100	4,024
Town of Kenly	7.818	9.0150	588	8.720	8.2275	598	8.270	11.0300	761	9.390	5.8200	456
Town of Farmville	49.175	0.6475	266	36.500	0.6940	211	37.982	0.8625	273	46.812	1.6100	629
City of Wilson	237.070	1.8850	3,727	213.160	2.9220	5,195	204.280	2.8550	4,864	234.070	2.7320	5,333
Duke Energy ~ Lee Facility	0.000	0.0000	0	0.000	0.0000	0	1.570	0.4400	6	8.470	0.4200	30
City of Goldsboro ~ Pipe 01	252.429	1.7740	3,735	218.630	1.2850	2,343	194.810	2.8375	4,610	224.378	3.5960	6,729
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	14.652	5.1300	627	9.474	4.1850	331	7.761	3.9325	255	10.745	4.8620	436
City of Kingston (Regional)	117.330	2.3375	2,287	103.050	2.4500	2,106	100.720	2.1425	1,800	122.225	2.2325	2,276
Contentnea MSD	62.752	1.6675	873	39.474	1.6600	546	42.166	1.8250	642	52.014	1.3800	599
Dupont-Kinston, Inc.	7.450	5.7200	355	8.077	0.9100	61	6.151	0.8125	42	8.708	1.0050	73
City of New Bern	143.260	2.6200	3,130	115.700	1.7100	1,650	105.870	1.6400	1,448	128.020	2.2400	2,392
MCAS Cherry Point	53.242	5.4250	2,409	47.614	5.3400	2,121	42.619	5.3500	1,902	46.481	3.7500	1,454
City of Havelock	47.799	3.8850	1,549	37.528	1.9050	596	35.607	6.6200	1,966	40.737	8.7425	2,970
Craven County	0.000	0.0000	0	13.748	1.0400	119	17.010	0.7000	99	17.577	0.9500	139
Carolina Water Service, Inc.	10.347	18.5870	1,604	9.445	26.1460	2,060	9.255	20.1650	1,556	8.316	14.3150	993
Totals	2,976.788		76,332	2,877.983		61,404	2,761.654		73,513	2,991.640		73,386

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FACILITY	Total Q (MG)	EOP Total Nitrogen (Lbs)	EOP Avg Conc. (mg/L)	Avg Q (MGD)
SGWASA	608.987	13,552	2.67	1.668
Town of Apex	388.882	11,461	3.53	1.065
Town of Benson	311.205	8,046	3.10	0.853
Town of Cary ~ North	2,168.450	39,140	2.16	5.941
Town of Cary ~ South	1,719.770	33,254	2.32	4.712
City of Raleigh ~ Smith Creek	722.226	24,680	4.10	1.979
City of Raleigh ~ Neuse	16,834.491	322,212	2.29	46.122
Raleigh ~ Ground Water		84,828		
City of Raleigh ~ Little Creek	273.997	4,613	2.02	0.751
Town of Clayton	586.457	20,900	4.27	1.607
Neuse Colony (Aqua NC)	92.500	7,131	9.24	0.253
Johnston County	1,557.281	39,317	3.03	4.267
Town of Kenly	102.854	5,191	6.05	0.282
Town of Farmville	627.531	5,717	1.09	1.719
City of Wilson	3,101.490	56,085	2.17	8.497
Duke Energy ~ Lee Facility	10.040	35	0.42	0.028
City of Goldsboro ~ Pipe 01	2,941.424	60,360	2.46	8.059
City of Goldsboro ~ Pipe 02	147.480	2,024	1.65	0.404
Town of LaGrange	139.303	4,935	4.25	0.382
City of Kingston (Regional)	1,619.765	28,534	2.11	4.438
Contentnea MSD	614.313	8,068	1.57	1.683
Dupont-Kinston, Inc.	111.187	1,573	1.70	0.305
City of New Bern	1,116.772	26,808	2.88	3.060
MCAS Cherry Point	609.037	27,436	5.40	1.669
City of Havelock	473.004	12,777	3.24	1.296
Craven County	48.335	358	0.89	0.132
Carolina Water Service, Inc.	124.454	17,931	17.28	0.341
Operating Totals	37,051.235	782,139	2.53	101.510
Association Totals	37,051.235	866,967	2.81	101.510