## Central Coastal Plain Capacity Use Area Status Report



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Ground Water Management Branch
Division of Water Resources
North Carolina Department of Environment and Natural Resources

#### Central Coastal Plain Capacity Use Area Status Report

#### **Introduction**

Rule 15A NCAC 02E .0506 requires that the Division of Water Resources, Ground Water Management Branch (DWR-GWMB) publish a status report on the Central Coastal Plain Capacity Use Area (CCPCUA) two years after the effective date of the CCPCUA rules, August 1, 2004, and at five-year intervals thereafter. This document is the fourth CCPCUA status report. Its purpose is to inform interested persons about how the CCPCUA is bringing about the use of more sustainable water sources. Figure 1 and the cover page illustrate the CCPCUA, which includes the following 15 counties: Beaufort, Carteret, Craven, Duplin, Edgecombe, Greene, Jones, Lenoir, Martin, Onslow, Pamlico, Pitt, Washington, Wayne and Wilson.



Figure 1. Central Coastal Plain Capacity Use Area

The main objective of the CCPCUA rules is to reduce ground water withdrawals to a sustainable level and make large users invest in other sustainable sources of water. The overused aquifers (Black Creek and Upper Cape Fear) are still being overdrawn by some water users in the fifteen-county area. <u>All</u> large ground water sources in the 15-county area are regulated through permit or registration so that the over-pumping problem is not shifted to other aquifers.

Effects of the over-pumping include dewatering, declining water levels, and salt water encroachment. These effects and the proposed capacity use designation were discussed at length in the Division's *Central Coastal Plain Capacity Use Investigation Report*, November 1998 downloadable off the DWR-GWMB's website at the following link <a href="https://www.ncwater.org/files/publications/gwms/cuainvestigation121598.pdf">https://www.ncwater.org/files/publications/gwms/cuainvestigation121598.pdf</a>. The recent June 2018 Central Coastal Plain Capacity Use Area Assessment Report discussed the latest condition of the CCP aquifers in detail. The DWR-GWMB concluded after reviewing the aquifer situation that the Environmental Management Commission (EMC) should not take action to alter CCPCUA rule language or reduction zone

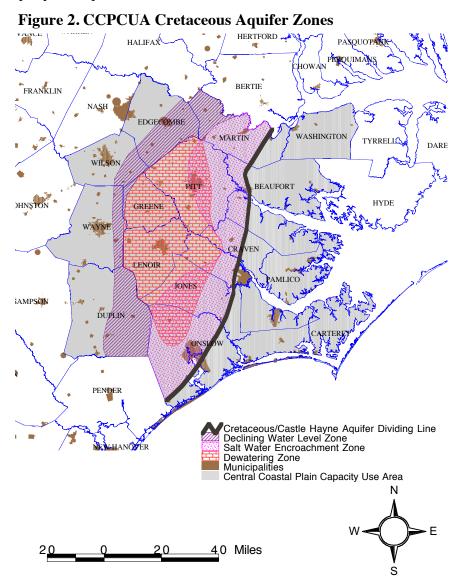
boundaries, however, it is increasingly evident more water users are using the Cretaceous aquifers in a sustainable way. In 2013, the EMC agreed that DWR may issue temporary permits to permit holders who meet certain requirements under the 15A NCAC 2E .0502(p) provision. Those permittees may avoid future water withdrawal reductions, but temporary permits place additional constraints on reduction wells.

The 2018 CCPCUA Assessment Report can be downloaded from the DWR-GWMB website at the following link: <a href="https://www.ncwater.org/Reports">https://www.ncwater.org/Reports</a> and Publications/GWMS Reports/CCPCUA-Assessment-2018-20180615.pdf

#### Permitting and Registration

One important result of the CCPCUA rules was the formation of the water use permitting process which establishes water withdrawal requirements for users of more than 100,000 gallons of ground water a day (any one day of the year). Permits are issued with maximum withdrawal per day requirements for those facilities using non-endangered aquifers – ground water sources outside the limits of the Cretaceous Aquifer Zones.

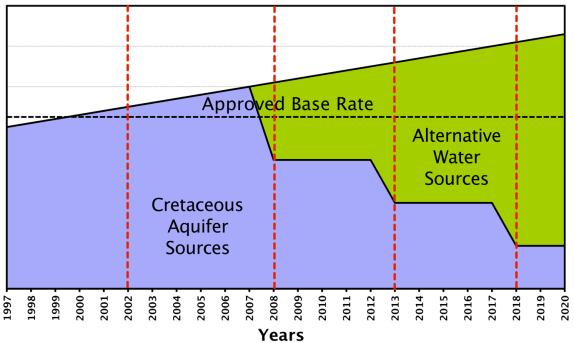
Users that withdraw ground water from the endangered aquifers – the aquifers described by the CCPCUA Cretaceous Aquifer Zones map (see figure 2) and DWR's hydrogeologic database – are issued permits with maximum withdrawal per <u>year</u> requirements.



Permit holders with yearly withdrawals limits were reduced from each of their Approved Base Rates (ABR) according to schedules set up in rule 15A NCAC 02E .0503. Phased reductions toward the required 75% or 30% cutback occurred over a 16-year period (2002 through 2018). Reductions varied depending upon location (which Cretaceous Aquifer Zone applies). A typical example is illustrated in figure 3. ABRs were determined from historical annual usage in 1997 or August 1, 1999 through July 31, 2000, whichever was greater. All 55 annual limit permits have been issued which require an Approved Base Rate calculation and setting of reduction schedules.

Figure 3. Example Reduction Schedule

# CCPCUA Approved Base Rate & Reduction Requirements



In this illustration, the applicant has established their approved base rate (ABR) as their August 1, 1999 through July 31, 2000 annual water use and is located in the Dewatering Zone. In 2008, the first 25% reduction is phased in and demand is met by a combination of 75% of the ABR from the Cretaceous aquifer wells and alternative supplies. Further reductions and changes in the levels of use of alternative supplies occur in 2013 and in 2018. In 2018, the permittee has shifted most of their demand to alternative supplies and withdraws a sustainable 25% of the ABR from their Cretaceous wells.

The permitting process achieves a schedule for each permittee toward withdrawal requirements, a better understanding of their ground water situation, plans for future water supplies, water conservation methods and plans, and reporting demands which place a heavier burden on each permittee to monitor the condition of their water supplies. (Appendix -Table 1 lists current permit holders.)

Permit holders who meet the following well requirements, which demonstrate a sustainable rate of withdrawal, may obtain a temporary permit. A temporary permit allows the permit holder exemption from further reductions as long as the requirements continue to be met. Table 2 lists current temporary permit holders.

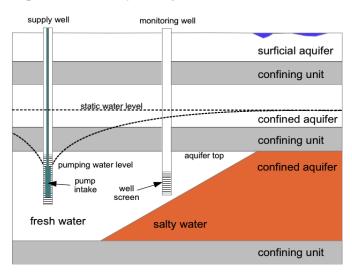
**Table 2. Temporary Permits Issued** 

County	Permit Holder	CCPCUA Permit #	Date Temporary Permit Issued	Annual Permit Amount (GPY)
Craven	City of New Bern	CU3071	11/14/2017	774,920,500
Craven	Craven County Water	CU3108	08/02/2019	476,395,350
Duplin	Chinquapin Water Assoc. Inc.	CU3014	06/06/2018	45,960,400
Greene	Greene County Regional Water System	CU3092	01/03/2014	607,401,750
Greene	Town of Snow Hill	CU3072	10/19/2017	73,328,667
Jones	Jones County Regional Water System	CU3023	07/15/2019	123,969,000
Lenoir	Town of La Grange	CU3003	01/16/2014	106,016,250
Wayne	Belfast-Patetown Sanitary District	CU3082	04/17/2014	272,710,333
Wayne	Fork Township Sanitary District	CU3001	06/04/2014	221,119,500
Wayne	Northwestern Wayne Sanitary District	CU3083	06/04/2014	59,871,333
Wayne	Southeastern Wayne Sanitary District	CU3006	07/11/2014	146,419,000

The temporary permit requirements and corresponding CCPCUA rule provision are as follows:

- Static water level trends must be level or upward trending after January 1, 2012 or over the previous year from present day and may involve construction and measurement of monitoring wells by permit holders [.0502 (c)], see figure 4,
- Pump intakes must be above the top of the shallowest Cretaceous aquifer screened by the well [.0502 (c) & (j)], see figure 4,
- Present day pumping water levels must be above the top of the shallowest Cretaceous aquifer screened by the well [.0502 (c) & (j)], see figure 4, and
- If applicable, chloride concentrations obtained from monitoring wells or unused production wells screened and gravel packed in one Cretaceous aquifer are fresh (< 250 mg/l) for 3 previous years from present day and do not trend toward higher concentrations or other site specific data which will allow determination of susceptibility to salt water encroachment [.0502 (c), (i) & (l)].

Figure 4: Temporary Permit Criteria



#### **Registrations**

Registrations are required for those surface and ground water withdrawers of more than 10,000 gallons per day. Registration information received by the DWR-GWMB is available on the CCPCUA website (Appendix - Table 3 shows the results of registration for 2018). The Department of Agriculture and Consumer Services, Agricultural Statistics Division has completed CCP water use surveys for 2002 through 2016. Their previous reports are available as PDF files at the DWR-GWMB's website (www.ncwater.org/CCPCUA under the miscellaneous link).

#### Compliance and Enforcement

In the CCPCUA, compliance means that water users stay within their permitted water withdrawal limits after applying for and receiving a permit to use ground water. Compliance is tracked through the permit holder recording and reporting their daily withdrawals, monthly water levels, and, in some cases, annual chloride sampling results. Each permit is awarded for a time period of between five and ten years and is required to be renewed at the end of that period. When compliance to these requirements is not met then our understanding of where and how ground water is being withdrawn is not as complete and our ability to track the status of the CCP aquifer system suffers. Strict accounting of withdrawals in combination with the measurements of aquifer response from the network of DWR monitoring wells and CCPCUA production wells will allow a complete understanding of the CCP aquifer capabilities and will document areas in the CCP where equilibrium between ground water withdrawals and natural ground water recharge is achieved.

When compliance is incomplete the Division employs enforcement measures including contacting and visiting permit holders, issuing of notices of violation, and assessing penalties as needed to hold ground water users in the CCPCUA accountable (Appendix - Table 4 summarizes the enforcement proceedings to date).

The 2009 legislative session introduced a change to CCPCUA enforcement by adjusting language in the Water Use Act of 1967 to state that fines can be levied up to \$1,000 per day. This is a change from the preexisting \$250 per day limit.

#### Water Use

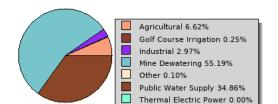
Registration information and permitting requirements have allowed the DWR-GWMB to compile water use information in various ways. Examples of water use data can be found on the DWR-GWMB's web site and in several tables and plots in this report. Use the links provided under the *Query the Data* portion of the Division's CCPCUA web page to access the information on-line (www.ncwater.org/CCPCUA). Table 5 is extracted from the website and shows each CCPCUA county's average daily water use totals for 2016, which is the latest year that includes Department of Agriculture and Consumer Services survey results. It is important to notice the relatively high component of water use by permitted users (those withdrawing more than 100,000 gallons per day) compared to registered or surveyed ground water users. Ground water use by permitted users equals over 96.5% of reported ground water use. Table 5 also shows CCPCUA average daily water use in 2016 aggregated by types of use and by aquifer.

#### **Table 5. Water Use Summary**

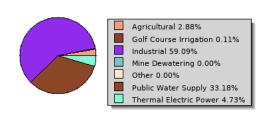
### Central Coastal Plain Capacity Use Area 2016 Water Withdrawal Summary Tables Tables compiled 07-15-2019, units are gallons per day

	Permi	itted				Repor	rted for 20	16			P	Permitted			Reported for 2016					
	Curre	nt Permit L	imits		Gr	ound W	ater		Surface Water			Curre	ent Permit	Limits		Gre	ound W	ater		Surface Water
County	max daily	yearly (ABRs)	yearly (2018)	by all permits	# of permits re		by yearly permits	by registrations	by registrations	Type of Use	e m	nax daily	yearly (ABRs)	yearly (2018)	by all permits	# of permits re		by yearly permits	by registrations	by registrations
Beaufort	180,416,400			58,316,860	45	73		69,733	145,815	Agricultural	196	6,239,102	620,612	400,004	6,064,055	115	72	66,357	4,744,972	3,122,282
Carteret	26,920,080			7,362,377	21	76		313,179	68,041	Golf Course Irriga	ition (	3,954,000	85,589	85,589	299,952	11	100	7,381	103,852	123,799
Craven	73,143,100	6,956,526	1,814,132	22,700,374	29	86	3,738,104	91,285	14,788,119	Industrial	16	6,075,200	4,373,118	2,371,853	4,741,248	13	100	1,425,997	105,957	64,098,878
Duplin	58,722,902	2,805,747	2,297,255	7,913,280	38	84	1,821,920	1,635,803	61,349	Mine Dewatering	25	1,342,080			89,740,828	53	87		312,722	
Edgecombe	12,564,000	527,697	429,388	1,255,042	10	100	298,519	60,976	743,730	Other	7	7,418,480	368,56	300,003	164,009	13	77	106,898		
Greene	191,000	3,058,197	914,551	1,150,647	4	100	1,082,948	45,298		Public Water Supp	ply 133	3,796,780	50,393,018	15,601,016	56,530,679	88	97	16,442,789	351,403	35,992,560
Jones	48,929,600	679,282	169,821	19,057,105	10	90	240,235	225,328		Thermal Electric F	Power								174	5,133,973
Lenoir	9,805,320	13,522,312	3,522,953	3,869,963	14	93	3,354,533	14,992	8,125,867	Totals:	608	8,825,642	55,840,89	18,758,465	157,540,771	293	85	18,049,421	5,619,080	108,471,491
Martin	3,504,000	4,895,506	2,226,326	1,872,250	13	100	1,040,642	25,763	50,195,630		P	ermitted			Reported for 2016					
Onslow	61,210,600	9,845,143	2,461,286	23,831,767	20	80	3,502,484	176,493				Current F	Permit Limi	its			Grou	nd Water		
Pamlico	34,071,200			1,399,469	13	85		1,471		Aquifer	max da	silv. y	early	yearly	by all	# of	%	by	yearly	by
Pitt	9,118,080	8,651,572	2,521,003	1,662,600	23	87	1,369,331	207,079	13,625,225	Aquilei	IIIax ua	Ally (A	ABRs)	(2018)	permits	permits	report	ted pe	ermits	registrations
Washington	64,188,000			1,678,368	36	81				Basement rock	14,306	,060			1,639,487	11		91		227,009
Wayne	19,129,200	4,340,026	2,010,532	4,492,903	17	88	1,296,263	372,422	10,125,636	Black Creek	26,430		,938,121	7,223,410	12,868,303	58			9,183,795	231,221
Wilson	6,912,160	558,883	391,218	977,768	7	86	304,442	151,083	9,152,788	Peedee	18,956		,877,228	1,785,236	2,063,955	22		79	173,878	92,949
Totals:	608,825,642	55,840,891	18,758,465	157,540,771	300**	84	18,049,421	5,619,080*	108,471,491*	Upper Cape Fear	44,375	,562 26	,975,542	9,699,819	13,020,984	72	2	90	8,680,705	101,200
Yearly permit li	mits are linked to mit holders more	withdrawals from	m the Cretaceo	us aquifers when	e reductions	are manda	ated. As phas	ed reductions oc	cur, annual	Lower Cape Fear			50,001	50,001	11,044	1		100	11,044	
based on 1997	or August 1, 1999	9 through July 3	1, 2000 withdra	wals. The ABR	is the annua	al rate from	which reducti	ons take place (s	ee CCPCUA	Surficial	128,755	,630			31,778,162	64		74		452,456
	(2018)* is the fina ported by all perm				tion are adm	inistered. I	Figures in the	"by all permits" c	olumns are total	Castle Hayne	338,291	,200			95,199,824	136	6	76		346,372
	*Totals may include additional water use not reported in county totals because of Department of Agriculture's nondisclosure policy.								Beaufort	3,495	,250								56,081	
	** A few permits have sources in two counties, so those permits are counted twice.							Upper Tertiary												
										Yorktown	34,215	,000			959,013	19	-	76		50,762
										Totals:	608,825	,	, ,	18,758,465	, - , - , - , - , - , - , - , - , - , -	381*			8,049,421	5,619,080
	** Many permits use multiple aquifers, so those permits are counted more than once.																			

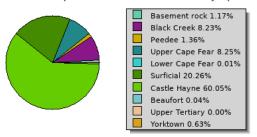
CCPCUA Reported Ground Water Withdrawals by Type of Use



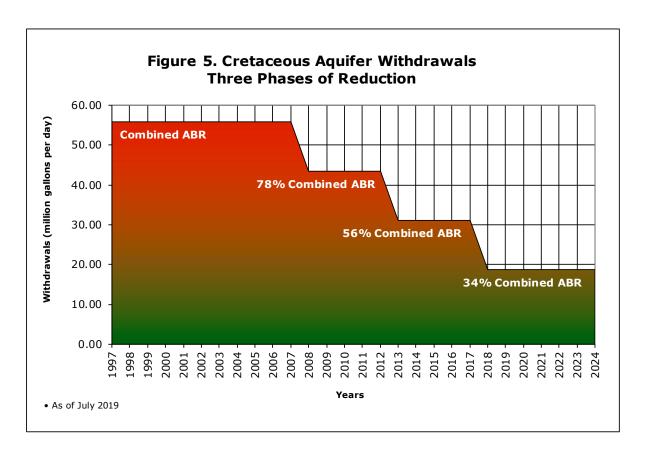
CCPCUA Reported Surface Water Withdrawals by Type of Use



CCPCUA Reported Ground Water Withdrawals by Aquifer



An important goal for the CCPCUA rules is the reduction of Cretaceous aquifer use and increased use of other sources of water. Figure 5 illustrates the reduction by about 66% from the combined ABRs by 2018. The Division required that permit holders bridge the gap between their demands and their Cretaceous allocation by using alternative water supplies.



#### **Evaluation of Water Resources**

Each permit requires reporting of withdrawals, ground water levels, and in some cases chloride sampling results so that water users will track that information and then DWR-GWMB makes it available to the public through the Division's website. To access this data, use the links provided under the *Query the Data* area of the CCPCUA web page (<a href="www.ncwater.org/CCPCUA">www.ncwater.org/CCPCUA</a>). Beyond that source of data, DWR-GWMB is responsible for improving, operating, and maintaining a monitoring well network to gain knowledge of the hydrogeologic framework and to evaluate aquifer use. The GWMB gives the public access to our understanding of the three-dimensional distribution of aquifers and confining units as well as other information on the branch's website <a href="www.ncwater.org/GWMB">www.ncwater.org/GWMB</a> under the link *Access the Data*. Potentiometric surface maps of each major aquifer are available as well as water level data through time for each of the Division's monitoring wells through the branch's *Ground Water Data Map Interface*. The November 2018 Central Coastal Plain Capacity Use Area Assessment Report, mentioned previously in this document, also contains a good deal of information about the aquifers.

Beginning in 2008, the first phase of reductions was implemented. In our analysis, DWR found significant areas of recovery in water levels, especially once the Neuse Regional Water and Sewer Authority came online in

2008 and had its customers reduce the full 75% from their ABR usage. These significant areas of recovery lead to a reduced concern about aquifer dewatering, however, salt water encroachment is still a difficult issue for several permit holders.

There are portions of the CCPCUA where water levels are relatively stable which led DWR, in 2013, to develop a more rigorous method of permit review beyond the prescribed phased reductions. The results are a review process and the potential of a temporary permit with a stable withdrawal amount. To qualify for a temporary permit, a water user must pass a set of four criteria and maintain those conditions or be removed from temporary permit status and put back on the reduction permit protocol.

The requirements for temporary permits (as described earlier) are (1) static water level trends must be level or upward trending after January 1, 2012, (2) pump intakes must be above the top of the shallowest Cretaceous aquifer screened by the well, (3) pumping water levels must be above the top of the shallowest Cretaceous aquifer screened by the well, and (4) where applicable, chloride concentrations must not show increases in salt water concentration (see Figure 4 schematic which depicts criteria for Temporary Permit Requirements).

Salt water encroachment or the threat of encroachment is still a serious issue. In September and October of 2004, 2007, 2012, 2015, and 2017, DWR-GWMB collected rounds of samples from an average of 250 wells in the coastal plain to compare to a similar set of samples analyzed in 1999. Those comparisons along with data from our Time-Domain Electromagnetic (TDEM) soundings, continue to help us map out current fresh water – salt water transition zones in the major aquifers. TDEM is a geophysical method of measuring subsurface resistivity described on DWR-GWMB's website (<a href="www.ncwater.org/GWMB">www.ncwater.org/GWMB</a>), under the link *Ground Water Educational Materials*.

#### <u>Updates to Hydrogeologic Framework</u>

Water level data and new boreholes and geophysical logs help DWR improve our understanding of the hydrogeological framework. Also, many CCPCUA water users provide DWR with information from wells they have installed. This framework establishes the elevations and thicknesses of all the aquifers in the coastal plain. Like the water use information, the DWR hydrogeologic database is available on the GWMB's website (<a href="www.ncwater.org/GWMB">www.ncwater.org/GWMB</a>), under the link *Access the databases*. In addition, the September 2018 Central Coastal Plain Capacity Use Area Assessment Report documents the GWMB's hydrogeologic framework knowledge.

#### Summary of Alternative Water Sources

There are significant alternative water sources available to water users in the CCPCUA. Some involve considerable investment such as surface water treatment plants. Others are more financially practical yet involve water treatment beyond the disinfection-only requirements of the Black Creek and Upper Cape Fear aquifers. The *North Carolina Central Coastal Plain Capacity Use Area: Regional Water Resource Study*, written by Golder Associates in 2002, provides helpful information on this subject. Also, GWMB publishes a PDF document on the CCPCUA web page that describes the latest plans and projects associated with Central Coastal Plain water users (<a href="https://www.ncwater.org/CCPCUA">www.ncwater.org/CCPCUA</a> under the link *Miscellaneous*).

On average, from 2002 to 2009, Cretaceous aquifers supplied 51% of reported public supply needs in the CCPCUA and about 22% of all reported ground water needs. So, even though the Cretaceous aquifers provide a large portion of public supply water, overall, it is a modest amount of the total ground water use. Hence, other ground water sources are available to meet demands with proper planning and water treatment.

The Castle Hayne aquifer is available to water providers where it exists, or it becomes part of the surficial aquifer. Appendix-Figure 6 illustrates the current understanding of the Castle Hayne aquifer's limits. Significant portions of withdrawals from the Cretaceous aquifers can be shifted to the Castle Hayne without harming existing users. Craven County, New Bern, Jacksonville and Onslow County Water and Sewer are using the Castle Hayne aquifer as an alternate water source.

Surface water supplies are available from the Neuse, Tar, and Roanoke Rivers. Regional cooperation by many participants are needed to afford this type of solution. Within the CCP, the Tar River is currently being used by Greenville, Tarboro and Rocky Mount. The Neuse River is used by Goldsboro, and in the Fall of 2008, Kinston and other water providers associated with the Neuse Regional Water and Sewer Authority (NRWASA) brought a surface water intake and treatment plant on-line. In 2016 a surface water treatment plant on the Roanoke River started supplying water to members of the Martin County Regional Water and Sewer Authority.

Bedrock wells are a supply option for some of the western portion of the CCP, including Wayne, Wilson and Edgecombe counties.

The Peedee aquifer is available as shown in Appendix-Figure 7, however, significant testing of sands in this aquifer will be required. There are portions of this aquifer that contain isolated sand units. These sands have very limited connection to the rest of the aquifer and thus only offer <u>small</u> users a source of water.

Although the Division has limited information about Yorktown aquifer water availability in the CCP, it may be an alternative water source in Martin, Pitt, Edgecombe, Wilson and Greene Counties.

The surficial aquifer in portions of Wayne, Wilson, Greene, Duplin, and Edgecombe Counties may offer significant yields, especially where it contains sand units that become the confined Black Creek or Upper Cape Fear closer to the coast.

#### Actions to Develop Alternative Water Supplies

The following is a list of alternatives which have been developed:

- Neuse Regional Water and Sewer Authority serves Lenoir County, and part of Pitt County with treated Neuse River water. This project became operational in Fall 2008.
- Greenville Utilities supply treated Tar River water to several customers including Greene County and the Town of Farmville.
- Onslow County has constructed well fields in the Castle Hayne and surficial aquifers to augment their water supply. They are continuing to expand those well fields.
- New Bern constructed a Castle Hayne well field and treatment plant.
- Wayne Water Districts have developed bedrock and surficial aquifer well fields.
- City of Jacksonville added Castle Hayne and surficial aquifer well fields and a water treatment plant that became operational in 2010.
- Several agricultural users plan to construct surface water impoundments.
- Martin County and the Town of Williamston water systems pursued a water treatment plant and intake on the Roanoke River which became operational in 2016.
- Craven County has constructed Peedee aquifer wells and a Castle Hayne well field and treatment plant.
- Jones County constructed Peedee aquifer wells and propose Castle Hayne wells and a treatment plant in the eastern part of the County by June 2020.

- Several water users are purchasing water from other systems.
- Water reuse and conservation are being implemented by several industries.

DWR-GWMB will maintain a PDF document (as mentioned earlier), which has more complete descriptions and costs of the alternative water supplies planned and achieved. DWR-GWMB has provided a link to the UNC Environmental Finance Center for NC Municipal water rates, which may be accessed off of the CCPCUA webpage (<a href="www.ncwater.org/CCPCUA">www.ncwater.org/CCPCUA</a>) under the Miscellaneous link to help the public compare their water rates to other communities throughout the state. For example: The City of Kinston's monthly water bill is \$41.86 for 5,000 gallons, the Town of Williamston's monthly water bill is \$64.90 per 5,000 gallons, and the Town of La Grange's monthly water bill is \$37.75 per 5,000 gallons.

#### **Conclusions**

Although the threats of declining water levels and dewatering have shown significant improvement to the ground water situation in the CCPCUA, salt water encroachment continues to be an issue for some permit holders. Continued progress has been made by water users to plan and construct sustainable, alternative water supplies. Whether alternative water supplies are obtained by individual systems using different aquifers or brought about by groups of users forming alliances to allow for planning and operation of a surface water treatment system, the results have and will lead to measurable improvements in ground water conditions. The DWR-GWMB will continue to record use of alternative water supplies, carefully track water withdrawals, and measure ground water level improvements using our expanding network of monitoring wells.

# **APPENDIX**

Table 1. List of current CCPCUA permits

#### Permit Holders in the Central Coastal Plain Capacity Use Area

# Permittee	Permit # County	Maximum Day Permitted Rates (gpd)	Reported Average Withdrawal (gpd)	Annual Permitted Rates (gpy)	Reported Average Withdrawal (gpd)	Type of Use	Aquifer
3B Farms Inc. (Baynor Farm)	CU3175 Washingto		27,370	(01)		Irrigation, Agricultural	Tch
2 3B Farms Inc. (Leon Respess Farm)	CU3174 Beaufort	504,000	6,559			Irrigation, Agricultural	Tch
3B Farms Inc. (Number Four Farm)	CU3201 Washingto	on 2,592,000	29,342			Irrigation, Agricultural	Tch
4 3B Farms Inc. (Pilley Farm)	CU3202 Beaufort	2,592,000				Irrigation, Agricultural	Tch
5 3B Farms Inc. (Stotesbury Farm)	CU3198 Washingto	on 1,440,000				Irrigation, Agricultural	Tch
6 3B Farms Inc. (Wenona Farm)	CU3244 Washingto	on 1,440,000				Irrigation, Agricultural	Tch
7 3B Farms Inc. (White Post Farm)	CU3272 Beaufort	1,440,000	21,863			Irrigation, Agricultural	Tch
8 3B Farms, Inc. (Five Points Farm)	CU3192 Beaufort	936,000	10,258			Irrigation, Agricultural	Tch
9 3B Farms, Inc. (Henry Boyd Farm)	CU3182 Beaufort	1,008,000				Irrigation, Agricultural	Tch
10 3B Farms, Inc. (Lake Phelps Farm)	CU3180 Washingto	on 6,336,000				Irrigation, Agricultural	Tch
3B Farms, Inc. (Waters Farm)	CU3181 Beaufort	1,224,000	4,471			Irrigation, Agricultural	Tch
12 Alston Spruill Farms	CU1121 Pamlico	2,736,000				Irrigation, Agricultural	Tch, Ty
American Materials Co., LLC (Pinner Pit)	CU3117 Pitt	1,400,000				Mine Dewatering	S
American Materials 14 Company LLC (Dupree Pit)	CU3238 Pitt	1,440,000				Mine Dewatering	S
15 American Turf Grass Corporation	CU1122 Washingto	on 3,456,000	127,364			Irrigation, Agricultural	Ту
16 Anderson & Co., Inc Anderson Sand Pit	CU3135 Edgecom	be 2,880,000				Mine Dewatering	S
17 Anthony Smith Farms (Chicken House Farm)	CU3311 Duplin	864,000				Irrigation, Agricultural	Kbc
18 (Esau Family Farm)	CU1108 Craven	518,400	67,384			Aquaculture	Tch
19 Askew Farm - L. Daughtridge	CU3320 Washingto	on 3,636,000				Irrigation, Agricultural	Tch
Atlantic Veneer Corporation	CU3127 Carteret	432,000	28,589			Industrial, Public Supply	Tch
Austin Bros. Fisheries, Inc.	CU1103 Beaufort	3,744,000				Aquaculture	Tch
22 Barnhill Contracting Co. (Boseman Pit)	CU3110 Edgecom	936,000				Mine Dewatering	S
23 Barnhill Contracting Co. (Howard Pit)	CU3254 Onslow	936,000				Mine Dewatering	S

24 Barnhill Contracting Co. (Rhodes Pit)	CU3240 Lenoir	936,000	257,616			Mine Dewatering	S
25 Barnhill Contracting Co. (Tick Bite Rd. Pit)	CU3273 Lenoir	936,000	3,156			Mine Dewatering	S
26 Barnhill Contracting Co.( Old Town Pit)	CU3266 Edgecomb	e 936,000				Mine Dewatering	S
27 Barnhill Contracting Company (Blount Pit)	CU3281 Pitt	936,000	136,871			Mine Dewatering	S
Barnhill Contracting 28 Company (Dairy Farm Pit)	CU3319 Edgecomb	e 936,000	132,203			Mine Dewatering	s
29 Barnhill Contracting Company (Harris Pit)	CU3246 Pitt	936,000				Mine Dewatering	s
30 Barnhill Contracting Company (Logsboro Pit)	CU3239 Edgecomb	e 468,000				Mine Dewatering	s
Barnhill Contracting 31 Company - Hope Lodge Pit	CU3271 Edgecomb	e 936,000				Mine Dewatering	s
Barnhill Contracting 32 Company - Joe Thomas Pit	CU3265 Craven	936,000	233,145			Mine Dewatering	s
33 Barnhill Contracting Company - Williams Pit	CU3264 Craven	936,000				Mine Dewatering	s
34 Bayer Investments, Inc. (Hideaway Mine)	CU3325 Craven	4,320,000				Mine Dewatering	S
35 Beaufort Club	CU3158 Carteret	244,800	34,492			Irrigation, Golf Course	Tch
36 Beaufort Co. Water Districts VI & VII	CU1119 Beaufort	3,240,000	669,685			Public Supply	Tch, Kpd
Belfast-Patetown Sanitary District	CU3082 Wayne	190,800	28,976	272,710,333	433,197	Public Supply	Kucf, Br
38 Bell Arthur Water Corporation	CU3077 Pitt			128,615,250	61,482	Public Supply	Kucf
Bogue Banks Water Corporation	CU3076 Carteret	5,760,000	1,069,266			Public Supply	Ty, Tch
40 Bradshaw Farms	CU3247 Duplin	1,296,000	12,673			Irrigation, Agricultural	Kbc, Kucf
41 Britt Family Farms (Cole Farm)	CU3305 Duplin	432,000	12,624			Irrigation, Agricultural	Kucf
42 Britt Family Farms (Deaver Lane Farm)	CU3216 Duplin	2,448,000	42,956			Irrigation, Agricultural	Kbc, Kucf
43 Britt Family Farms (Hick Farm)	CU3306 Duplin	540,000	13,315			Irrigation, Agricultural	Kucf
Britt Family Farms (Lois Farm)	CU3304 Duplin	648,000	16,866			Irrigation, Agricultural	Kucf
45 Britt Family Farms (Parker Farm)	CU3307 Duplin	900,000	24,658			Irrigation, Agricultural	Kbc
Here the second of the second	CU3308	432,000	11,244			Irrigation, Agricultural	Kucf
Horal Britt Family Farms - Broadhurst Bridge Farm	CU3232 Wayne	936,000	27,536			Irrigation, Agricultural	Kbc, Kucf
Burch Farms LLC (County Line Farm)	CU3296 Duplin	720,000				Irrigation, Agricultural	Kbc
Burch Farms LLC (Pridgen Farm)	CU3297 Duplin	1,152,000	36			Irrigation, Agricultural	Kucf
Burch Farms, LLC (Luby Byrd Farm)	CU3262 Duplin	150,000	21,447			Irrigation, Agricultural	Kbc, Kucf
Burch Farms, LLC (Mills Road Farm)	CU3280 Wayne	432,000				Irrigation, Agricultural	Kucf
52 Butterball, LLC	CU3019 Duplin	2,700,000	890,477			Industrial	Kucf

53	C.E. Jr. and Maurice Manning Farm	CU3252 V	Washington	1,584,000	2,170			Irrigation, Agricultural	Tch
54	Carolina Creek LLC	CU3140 C	Craven	720,000				Irrigation, Golf Course	Tch
55	Carolina Fisheries	CU1058 B	Beaufort	5,160,000				Aquaculture	Tch
56	Carolina Stone, LLC (Ange Mine)	CU3249 C	Craven	3,000,000	518,219			Mine Dewatering	S
57	Casey Nursery, Inc.	CU3062 V	Nayne	310,000	17,552			Irrigation, Agricultural	S
58	Cashwell Farms, LLC Home Place Farm	CU3217 V	Nayne	720,000				Irrigation, Agricultural	Kucf
59	Cashwell Farms, LLC Vetter Farm	CU3289 V	Wayne	432,000				Irrigation, Agricultural	Kucf
60	Castle Hayne Fisheries, Inc.	CU1073 B	Beaufort	2,780,000				Aquaculture	Tch
61	Chinquapin Water Assoc. Inc.	CU3014 E	Duplin	727,200	170,359	45,960,400	110,813	Public Supply	Kbc, Kpd
62	Circle P Farm-Styron Pit	CU3286 C	Carteret	324,000				Mine Dewatering	S
63	City of Havelock	CU1029 C	Craven	2,800,000	942,025			Public Supply	Tch
64	City of Jacksonville	CU3073 C	Onslow	6,577,200	3,194,088	370,473,525	1,024,255	Public Supply	Kpd, Kbc, Tch
65	City of Kinston	CU3024 L	enoir			636,256,800	1,147,592	Public Supply	Kbc, Kucf
66	City of New Bern	CU3071 C	Craven	5,500,000	1,444,012	774,920,500	1,626,282	Public Supply	Kbc, Kucf, Tch
67	City of Washington	CU1009 B	Beaufort	6,200,000	2,561,452			Public Supply	Tch
68	Conetoe Community Water Assoc., Inc.	CU3089 E	Edgecombe			36,500,365	48,946	Public Supply	Kucf
69	Cottle Farms (Will Cottle Farm)	CU3322 D	Duplin	1,607,422				Irrigation, Agricultural	Kucf
70	Country Club of Plymouth, Inc.	CU1123 V	Washington	200,000	2,241			Irrigation, Golf Course	Tch
71	Craven County Water	CU3108 C	Craven	3,733,500	1,879,893	238,197,675	812,521	Public Supply	Kbc, Kucf, Tch, Kpd
72	Craven County Wood Energy, L.P.	CU3055 C	Craven	1,800,000	474,494			Industrial	Tch
73	CWS, Inc. of NC - Brandywine Bay	CU3043 C	Carteret	500,000	14,002			Public Supply	Tch
74	CWS, Inc. of NC - Fairfield Harbour	CU1087 C	Craven	1,050,000	135,856			Public Supply	Tch
75	Cypress Landing Golf Club	CU1128 B	Beaufort	520,000				Irrigation, Golf Course	Tch
76	Cypress Swamp Aquafarm, LLC	CU1101 B	Beaufort	2,160,000				Aquaculture	Tch
77	David Waters Farm	CU1094 B	Beaufort	864,000				Irrigation, Agricultural	Tch
78	Deep Run Water Corporation	CU3050 L	enoir	580,320	53,663	140,688,777	268,772	Public Supply	Kpd, Kbc
79	Domtar Paper Company, LLC	CU1120 M	Martin	3,000,000	152,337			Industrial, Public Supply	S, Ty, Tch
80	Don Lee Farms, Inc.	CU3154 P	Pamlico	6,336,000				Irrigation, Agricultural	Tch
81	Down East Farms, Inc.	CU3208 J	lones	288,000				Irrigation, Agricultural	Tch
82	Duke Energy Progress (HF Lee Facility)	CU3327 V	Wayne	550,000				Other	s

83	Duplin County Regional Water System	CU3114	Duplin	2,278,800	909,962	317,984,520	715,778	Public Supply	Kbc, Kucf, Kpd
84	DuPont Industrial Biosciences USA, LLC (Dupont Kinston Plant)	CU3022	Lenoir			201,304,080	174,518	Industrial	Kbc, Kucf
85	Eagle Water Company, LLC	CU1130	Beaufort	58,000,000				Public Water Supplier	Tch
86	East Carolina University - Health Sciences Campus	CU3132	Pitt	105,120	307	36,500,365	42,899	Other	Kucf, Kpd
87	East Carolina University - Main Campus	CU3133	Pitt	99,360	17,587	36,500,365	44,033	Other	Kbc, Kucf, Kpd
88	Eastern Pines Water Corporation	CU3102	Pitt	720,000	24,476	185,511,250	204,701	Public Supply	Kpd, Kbc, Kucf
89	Eastern Wayne Sanitary District	CU3081	Wayne	1,378,800	197,536	248,367,858	634,984	Public Supply	Kucf, S, Kbc
90	ECU - North Recreational Complex	CU3147	Pitt	400,000	13,227			Other	Ту
91	Eden Blueberry Farms	CU3224	Duplin	576,000				Irrigation, Agricultural	Kbc, Kucf
92	Emerald Golf Course	CU3155	Craven	750,000	11,210			Irrigation, Golf Course	Tch
93	First Craven Sanitary District	CU1105	Craven	1,476,000	458,068			Public Supply	Tch
94	Fork Township Sanitary District	CU3001	Wayne	1,119,600	172,978	221,119,500	533,055	Public Supply	Kucf, Br
95	Garner Construction Co. (Merrimon Mine)	CU3197	Carteret	1,440,000				Mine Dewatering	s
	Garner Construction Company (Nine Foot Road Mine #2)	CU3284	Carteret	1,440,000	257,993			Mine Dewatering	S
97	George Mainor Farm	CU3301	Duplin	255,000				Irrigation, Agricultural	Kbc
	Georgia-Pacific Wood Products, LLC.	CU3235	Wayne	691,200	88,592			Industrial	Kbc, Kucf
99	Goodson & Wells Farm, Inc. (Bazemore Farm)	CU3258	Duplin	500,000	17,211			Irrigation, Agricultural	Kbc, Kucf
100	Goodson & Wells Farm, Inc. (Brock Farm)	CU3219	Duplin	2,160,000	20,181			Irrigation, Agricultural	Kucf
101	Goodson & Wells Farm, Inc. (Garner Wells Farm)	CU3268	Duplin	864,000	5,959			Irrigation, Agricultural	Kucf
102	Goodson & Wells Farm, Inc. (Nellie Francis Farm)	CU3288	Duplin	936,000				Irrigation, Agricultural	Kbc, Kucf
103	Goodson & Wells Farm, Inc. (Rackley/Wells Farm)	CU3220	Duplin	2,592,000	30,038			Irrigation, Agricultural	Kucf
104	Goodson & Wells Farm, Inc. (Reardon Farm)	CU3287	Duplin	360,000				Irrigation, Agricultural	Kbc
105	Goodson & Wells Farms (Garner Tram Rd)	CU3259	Duplin	600,000	6,706			Irrigation, Agricultural	Kbc, Kucf
106	Goodson & Wells Farms, Inc. (Dail Farm)	CU3248	Duplin	864,000	1,868			Irrigation, Agricultural	Kbc
107	Goodson & Wells Farms, Inc. (Gurley Farm)	CU3196	Duplin	2,880,000	-279,126			Irrigation, Agricultural	Kucf
108	Goodson & Wells Farms, Inc. (Herbert Wells Farm)	CU3276	Duplin	1,512,000	24,531			Irrigation, Agricultural	Kbc, Kucf
109	Goodson & Wells Farms, Inc. (Hill Farm)	CU3195	Duplin	1,152,000	24,132			Irrigation, Agricultural	Kucf
110	Goodson & Wells Farms,	CU3241	Duplin	3,240,000	64,825			Irrigation,	Kucf

Inc. (Jackson Farm)						Agricultural	
Goodson & Wells Farms, 111 Inc. (Rackley HWY 55 Farm)	CU3274 Wayne	648,000	13,715			Irrigation, Agricultural	Kucf
112 Goodson & Wells Farms, Inc. (Ruth Waller Farm)	CU3267 Duplin	756,000	4,301			Irrigation, Agricultural	Kbc
113 Goodson & Wells Farms, Inc. (TC&I Farm)	CU3315 Duplin	864,000				Irrigation, Agricultural	Kbc/Kucf
114 Goodson & Wells Farms, Inc. (Turner Farm)	CU3316 Duplin	648,000				Irrigation, Agricultural	Kucf
Goodson&Wells Farms, 115 Inc. (Grantham School Farm)	CU3277 Wayne	540,000	8,663			Irrigation, Agricultural	Kucf
116 Greene County Regional Water System	CU3092 Greene			607,401,750	701,589	Public Supply	Kucf
117 Greenville Utilities Commission	CU3004 Pitt		728	109,916,100	9,345	Public Supply	Kbc, Kucf
118 Gregory L. Harris Farm	CU3275 Beaufort	1,728,000				Irrigation, Agricultural	Tch
119 H. A. Respass Farms, LLC	CU1093 Washington	4,438,000	53,014			Irrigation, Agricultural	Tch
Hanson Aggregates 120 Southeast, LLC (Neverson Quarry)	CU3029 Wilson	1,644,480	351,610			Mine Dewatering	Br
Hanson Aggregates 121 Southeast, LLC (Rocky Mount Quarry)	CU3030 Edgecombe	4,320,000	713,829			Mine Dewatering	Br
Hardy Construction, Inc. (J.C. Holton Pit)	CU3129 Craven	2,880,000				Mine Dewatering	S
123 Hardy Farms, LLC	CU3176 Greene			36,500,365		Irrigation, Agricultural	Kbc
124 Harkers Island Sanitary District	CU3130 Carteret	504,000	82,545			Public Supply	Ту
125 Harris Farms, Inc. (Harris Mine)	CU3141 Washington	504,000				Mine Dewatering	S
126 Harvey Farms	CU3040 Jones	1,936,800	2,960			Irrigation, Agricultural	Kpd
Haugen Co. (Catherine Lake Fill Dirt)	CU3060 Onslow	1,728,000	348,329			Mine Dewatering	S
128 Hill Four, LLC	CU1091 Pamlico	2,592,000				Waterfowl Impoundments	Tch
129 House of Raeford - Wallace Division	CU3093 Duplin	4,104,000	421,422			Industrial	Kbc
130 Howard Land Company, LLC (Taylor Farm)	CU3236 Jones	2,160,000				Irrigation, Agricultural	Tch
Howard Pit - Bogue Sound Septic Grade	CU3139 Onslow	144,000	33,663			Mine Dewatering	S
132 Howell Farms (Brinson Farm)	CU3190 Beaufort	1,152,000				Irrigation, Agricultural	Tch
Howell Farms (Waters Farm)	CU3189 Beaufort	1,728,000				Irrigation, Agricultural	Tch
134 Howell Farms (Windley Canal Farm)	CU3191 Beaufort	1,728,000				Irrigation, Agricultural	Tch
Humphrey Minerals, LLC (Humphrey Minerals Mine)	CU3204 Onslow	504,000				Mine Dewatering	S
136 HWY 99 Farm	CU3321 Washington	2,592,000				Irrigation, Agricultural	Tch
137 International Forest Co. Washington Nursery	CU1006 Beaufort	2,000,000				Irrigation, Agricultural	Tch
International Paper New						Industrial,	

138 Bern Mill	CU1013 C	Craven	1,980,000	80,460			Public Supply	S, Tch
J. J. Morton & Son Constr. (Rocky Run Pit	CU3210 O	Onslow	192,000				Mine Dewatering	S
140 Jack Alphin Farm	CU3291 D	Ouplin	1,008,000				Irrigation, Agricultural	Kbc, Kucf
Jackson Holding Grp, 141 LLC. (Jackson Sand Mine)	CU3310 C	Craven	500,000				Mine Dewatering	S
Jeremy P. James Farm Block Farm)	(E CU3222 W	Vashington	1,440,000				Irrigation, Agricultural	Tch
143 Jeremy P. James Farm Block Farm)	(G CU1104 W	Vashington	2,664,000				Irrigation, Agricultural	Ty, Tch
144 Jerry Hardison Farms	CU3223 M	Martin	216,000				Irrigation, Agricultural	Tch
Jimmie L. Morris and Sons, Inc. (Wilcox Mine	CU3226 C	Craven	2,880,000	475,975			Mine Dewatering	S
146 Johnnie Tyndall-Rhode Farm	S CU3318 Le	enoir	720,000				Irrigation, Agricultural	Kpd
Johnson Contracting, In (Johnson Mine)	CU3303 J	ones	792,000	231,452			Mine Dewatering	S, Tch
148 Jones County Regiona Water System	CU3023 J	ones	630,000	318,151	61,984,500	227,717	Public Supply	Kbc, Kpd
149 Keith Respess Farm	CU3209 B	Beaufort	3,456,000				Irrigation, Agricultural	Tch
150 Killebeck Farm	CU3260 B	Beaufort	1,008,000				Irrigation, Agricultural	Tch
151 Kinston Country Club	CU3018 Le	enoir			31,240,000	4,734	Irrigation, Golf Course	Kbc
152 L M Farms LLC	CU3103 W	Vilson	700,000				Irrigation, Agricultural	Br
L. J. Beasley Farming LLC (Huffman Farm)	CU3245 D	Ouplin	864,000				Irrigation, Agricultural	Kbc
L.B. Page Landscaping Inc. (Bell Pit)	CU3138 O	Onslow	144,000				Mine Dewatering	S
L.B. Page Landscaping Inc. (Silverdale Marl Pit		Onslow	180,000				Mine Dewatering	S
Landscape Design of 156 Goldsboro, Inc. (Jeriche Farms)	CU3098 W	Vayne	262,800	25,440			Irrigation, Agricultural	S, Br
157 Lawn Pro, Inc.	CU3124 O	Onslow	250,000				Irrigation, Agricultural	Tch
158 Lear Corporation	CU3094 D	Ouplin			368,931,677	325,238	Industrial	Kbc
159 Leonard Daughtridge Farm	CU3206 W	Vashington	2,736,000				Irrigation, Agricultural	Tch
160 LH Allen and Son Inc. (Farm)	<sup>#5</sup> CU3212 B	Beaufort	1,008,000				Irrigation, Agricultural	Tch
161 LH Allen and Son, Inc. (Beech Ridge Farm)	CU3242 B	Beaufort	1,008,000				Irrigation, Agricultural	Ty, Tch
162 Louland, LLC (Louland Pit)	CU3317 B	Beaufort	388,000				Mine Dewatering	S
163 Lowland Impoundment	CU3153 P	amlico	360,000				Waterfowl Impoundments	Tch
Mackilwean Turf Farm, Inc	CU3326 C	Craven	864,000	17,096			Irrigation, Agricultural	Tch
Manning Brothers Farn Inc.	OU3172 W	Vashington	3,024,000	1,359			Irrigation, Agricultural	Tch
166 Manning Farms Inc.	CU1085 W	Vashington	1,296,000	438			Irrigation, Agricultural	Tch
							Mine	

Marine Corps Base,   Cus080 Onslow   20,500,000   4,017,762   Public Supply   S, Tch   Corps   Experiment   Cus080   Martin Co. Regional   Cus080   Martin Co. Regional   Cus080   Martin Co. Regional   Cus080   Martin Co. Water and   Sever Public Supply   Martin Co. Water and   Sever Public Supply   Martin Co. Water and   Sever Pist. No. 2   Martin Martin Materials,   Cus081   Jones   22,536,000   4,733,498   Mine   Dewatering   S, Tch   Mine   Dewatering   Tch   Dewatering	167	Mar Mac Aggregates LLC	CU3298	Wayne	960,000				Dewatering	S
108   Martin Co. Regional   Water & Sever Authority   Water   Sever Path No. 1   125,195,000   101,444   Public Supply   Kucf   Sever Dist. No. 1   57,232,000   42,205   Public Supply   Kucf   Sever Dist. No. 1   45,990,000   19,877   Public Supply   Kucf   Kucf   Sever Dist. No. 2   170   Martin Marietta Materials,   Cu. (Glefyrade Quarry)   Cu3031   Jones   22,536,000   4,733,498   Mine   Dewatering   S. Tch   Martin Marietta Materials,   Cu. (Clarks Quarry)   Martin Marietta Materials,   Cu. (Clarks Quarry)   Martin Marietta Materials,   Cu. (Jones Quarry)   Cu. Jones   Cu. Jo	168		CU3080	Onslow	20,500,000	4,017,762			Public Supply	S, Tch
Wartin Co. Valvariand   Cultural Martin Marietta Materials   Cultural Valvariand   Cultural Martin Marietta Materials   Cultural Valvariand   Cultural V	169	Martin Co. Regional	CU3228	Martin			125,195,000	101,444		
17         Martin Co, Waler and Sewer Dist. No. 2         CU1128 Martin         45,990,000         19,877 Public Supply Kuc Kuc Kuc Sewer Dist. No. 2         Kuc Sewer Dist. No. 2         Mine Dewatering S. Tch         Mine Dewatering S. Tc	170	Martin Co. Water and								
Martin Marietta Materials,   Cu3031 Jones   22,536,000   4,733,498   Mine Dewatering   S, Tch Dewatering   S, Tch Dewatering   S, Tch	171	Martin Co. Water and	CU1129	Martin			45,990,000	19,877	Public Supply	
174   Martin Martinta Materials, Inc. (Fountain Quarry)   175   Martin Martinta Materials, Inc. (Fountain Quarry)   176   Martin Martinta Materials, Inc. (Fountain Quarry)   176   Martin Martinta Materials, Inc. (Fountain Quarry)   177   Martin Martinta Materials, Inc. (Policeksville Quarry)   178   Martin Martinta Materials, Inc. (Wilson Quarry)   179   Martin Martinta Materials, Inc. (Wilson Quarry)   179   Martin Martinta Materials, Inc. (Wilson Quarry)   179   Martin Martinta Materials, Inc. (Palva Run Rd-Expl Weil)   179   Martin Martinta Materials, Inc. (Palva Run Rd-Expl Weil)   179   Martin Martinta Materials, Inc. (Palva Quarry)   179   Martin Martinta Materials, Inc. (Palva Quarry)   180   McCotter Farms, LLC   CU1099   Pamlico   14,000,000   25,683   Mine Dewatering   5, Tch Dewatering   5, Tch Dewatering   5, Tch Dewatering   181   Michael Cutler Farm   CU3213   Beaufort   1,728,000   25,683   Mine Dewatering   7, Tch Agricultural Irrigation, Courty (Club   181   Mine Dewatering	172	Martin Marietta Materials,	CU3031	Jones	22,536,000	4,733,498				
	173		CU3033	Craven	16,000,000	3,973,887				S, Tch
Dewatering   S. Idn   Narith Marietta Materials, Inc. (Vanceboro Quarry)   Cu3148   Beaufort   12,000,000   Dewatering   S. Tch	174		CU3034	Pitt	2,304,000	510,089				S, Br
177   Martin Marietta Materials, Inc. (Wilson Quarry)   177   Martin Marietta Materials, Inc. (Wilson Quarry)   178   Martin Marietta Materials, Inc. (Wilson Quarry)   179   Martin Marietta Materials, Inc. (Wilson Quarry)   179   Martin Marietta Materials, Inc. (Conslow Quarry)   180   McCotter Farms, LLC   181   Michael Cutler Farm   182   183   184   185	175		CU3036	Jones	20,000,000					S, Tch
Martin Marietta Materials   Locard Martin Marietta Martin Marietta Materials   Locard Martin Marietta Martin Marietta Materials   Locard Martin Mar	176		CU3148	Beaufort	12,000,000					S, Tch
Martin Marietta Materials, 178 Inc. (Haws Run Rd-Expl Well)   Mine Dewatering Well)   Martin Marietta Materials, 10c. (Onslow Quarry)   13,000,000	177		CU3035	Wilson	2,304,000					S, Br
180   Inc. (Onslow Quarry)   Inc. (Onslow Q	178	Inc. (Haws Run Rd-Expl	CU3199	Onslow	720,000					Tch
181 Michael Cutter Farm Cu3213 Beaufort 1,728,000 Irrigation, Agricultural Irrigation, Golf Course Irrigation, Golf	179		CU3032	Onslow	13,000,000	4,784,386				S, Tch
Mike Bishop (Wade Allen Farm)	180	McCotter Farms, LLC	CU1099	Pamlico	14,000,000	25,683				Tch
Minesott Golf and Country Club	181	Michael Cutler Farm	CU3213	Beaufort	1,728,000					Tch
Country Club	182		CU3183	Beaufort	2,448,000					Tch
Club	183		CU1023	Pamlico	252,000					Tch
Impound   Impoundments   Ich	184		CU3156	Carteret	270,000	65,336				Tch
Mine   Cutoof (R-2514B)   Cutoof (R-3826)   Cutoof (Somerate)   Cutoof (R-3826)   Cutoof (R-2514B)   Cutoo	185		CU3292	Pamlico	288,000					Tch
Somerset Farm   Code	186		CU3324	Onslow	720,000					S
188 Comm. (Minges Waterfowl Impoundment)     CU3269 Martin     36,500,365     1,607 Waterfowl Impoundments Impoundments     Kbc       190 NCDA Tidewater Research Station     CU1016 Washington     2,412,000     1,624     Irrigation, Agricultural, Aquacultura, Livestock     Ty, Tch       191 NCDOT (B-4722B)     CU4038 Carteret     Mine Dewatering     S       192 NCDOT (R-2250)     CU4037 Pitt     714,082     Mine Dewatering     S       193 NCDOT (R-2514B)     CU4034 Onslow     Mine Dewatering     S       194 NCDOT (R-3826)     CU4039 Martin     S	187		CU3253	Washington	1,274,000	76,025				Ту
CU3269 Martin  36,500,365  1,607 Materiowi Impoundments  NCDA Tidewater Research Station  CU1016 Washington  2,412,000  1,624  Irrigation, Agricultural, Aquaculture, Livestock  Mine Dewatering  NCDOT (R-2250)  CU4037 Pitt  714,082  Mine Dewatering  S  193 NCDOT (R-2514B)  CU4034 Onslow  CU4039 Martin  36,500,365  1,607 Martin  Irrigation, Agricultural, Aquaculture, Livestock  Mine Dewatering  S  Mine Dewatering  S  Mine Dewatering  S  Mine Dewatering  S  Dewatering  S	188	Mt. Olive Pickle Company	CU3107	Wayne	864,000	169,271			Industrial	Kucf
190 NCDA Tidewater Research Station         CU1016 Washington         2,412,000         1,624         Agricultural, Aquacultural, Livestock         Ty, Tch Livestock           191 NCDOT (B-4722B)         CU4038 Carteret         Dewatering         S           192 NCDOT (R-2250)         CU4037 Pitt         714,082         Mine Dewatering         S           193 NCDOT (R-2514B)         CU4034 Onslow         Mine Dewatering         S           194 NCDOT (R-3826)         CU4039 Martin         S	189	Comm. (Minges	CU3269	Martin			36,500,365	1,607		Kbc
Dewatering   Dewatering   S	190		CU1016	Washington	2,412,000	1,624			Agricultural, Aquaculture,	Ty, Tch
192 NCDOT (R-2250)	191	NCDOT (B-4722B)	CU4038	Carteret						S
194 NCDOT (R-3826) CU4039 Martin Dewatering S  194 NCDOT (R-3826) CU4039 Martin S  Dewatering S  Dewatering S	192	NCDOT (R-2250)	CU4037	Pitt		714,082				S
194 NCDOT (R-3826) CU4039 Martin Dewatering S	193	NCDOT (R-2514B)	CU4034	Onslow						s
Mine	194	NCDOT (R-3826)	CU4039	Martin						s
									Mine	

196								Dewatering	S
	NCDOT (R-5703)	CU4041	Lenoir		751,397			Mine Dewatering	S
	NCDOT (R-5719 and U- 5796)	CU4042	Wayne		43,700			Mine Dewatering	S
198	NCDOT (R2514C)	CU4035	Jones					Mine Dewatering	s
199	NCDOT (R2514D)	CU4036	Craven					Mine Dewatering	s
200	NCDOT R-1015	CU4043	Craven					Mine Dewatering	S, Br
	NCSU Pamlico Aquaculture Field Lab	CU1031	Beaufort	1,008,000	321,553			Aquaculture	Tch
	Newland Family Farm, LLC	CU3200	Washington	1,440,000				Irrigation, Agricultural	Tch
	North Lenoir Water Corporation	CU3025	Lenoir			203,387,500	237,237	Public Supply	Kbc, Kucf
	North River Club Mine, Guide Group LLC	CU3231	Carteret	1,080,000				Mine Dewatering	S
	North River Mill Creek Water Service District	CU1109	Carteret	676,800	195,693			Public Supply	Tch
	North Slope Farms LLC (K-Farm)	CU1081	Washington	504,000				Irrigation, Agricultural	Tch
	Northwest Onslow Water Association	CU3005	Onslow	453,600	80,956			Public Supply	Kpd
	Northwestern Wayne Sanitary District	CU3083	Wayne	1,062,000	285,223	59,871,333	24,874	Public Supply	Kucf, Br
	Onslow Water and Sewer Authority	CU3027	Onslow	13,981,000	5,793,684	527,895,750	2,096,926	Public Supply	Kpd, Kbc, S, Tch, Tb
	Pamlico County Water System	CU1125	Pamlico	3,456,000	902,868			Public Supply	Tch
	Patheon Manufacturing Services, LLC	CU3074	Pitt			36,500,365	48,616	Industrial	Kbc, Kucf
	Patten Seed Company - Super Sod East Carolinas	CU3045	Martin			36,500,365	37,874	Irrigation, Agricultural	Kucf
213	PCS Phosphate Co	CU1007	Beaufort	25,000,000	313,275			Mine Dewatering	S, Ty
214	PCS Phosphate, Inc.	CU1003	Beaufort	78,000,000	20,347,039			Mine Dewatering	Tch
215 F	Penco Products, Inc.	CU3149	Martin			258,990,082	252,523	Industrial	Kucf
	PGS Aggregates, LLC (Great Pit)	CU3038	Edgecombe	1,152,000	526			Mine Dewatering	S
	Phillips Farm and Grain (Kenansville Farm)	CU3278	Duplin	1,008,000				Irrigation, Agricultural	Kbc, Kucf
	Phillips Farm and Grain (Mercer Farm)	CU3309	Duplin	864,000				Irrigation, Agricultural	Kbc, Kucf
	PLT Construction Company (Harris Pit)	CU3314	Pitt	777,600				Mine Dewatering	s
	Pocosin Lakes National Wildlife Refuge	CU1131	Washington	2,160,000				Waterfowl Impoundments	Tch
221	Poole Farms, Inc.	CU3255	Beaufort	4,320,000	3,812			Irrigation, Agricultural	Tch
	Price Brothers Farming, Inc.(McKinleys Farm)	CU3293	Wayne	504,000	2,674			Irrigation, Agricultural	Kbc
223 F	Pungo Fish Farm, Inc.	CU1117	Beaufort	4,418,400				Aquaculture	Tch
224	R. H. Bishop, Jr. Farm	CU3185	Beaufort	950,000				Irrigation, Agricultural	Tch
F	R. J. Bushhogging (Willis							Mine	

225 Neck Mine 1)	CU3167 Craven	4,000,000	450,293			Dewatering	S
226 Roanoke Golf & Country Club, Inc.	CU3044 Martin	288,000				Irrigation, Golf Course	Kucf
227 Sackett Potatoes	CU3251 Pamlico	3,000,000				Irrigation, Agricultural	Tch
228 Scientific Water and Sewerage Corp.	CU3227 Onslow	900,000	56,379			Public Supply	S, Tch
229 Scott James Farms	CU3221 Washin	gton 1,500,000				Irrigation, Agricultural	Tch
230 Sea Level Mine, LLC	CU3282 Cartere	t 720,000				Mine Dewatering	s
231 Sexton Farms (Home Farm)	CU3256 Washin	gton 864,000				Irrigation, Agricultural	Ту
232 Sexton Farms (Turnpike Farm)	CU3111 Washin	gton 1,260,000	26,237			Irrigation, Agricultural	Tch
233 Smith Farm of Vanceboro LLC	CU3008 Craven	792,000				Aquaculture	Tch
234 Southeastern Wayne Sanitary District	CU3006 Wayne	2,116,800	579,513	146,419,000	202,551	Public Supply	Kucf, Kbc
235 Southern Produce (Bradshaw Farm)	CU3300 Duplin	400,000				Irrigation, Agricultural	Kucf
236 Southern Produce (Faison Farm)	CU3215 Duplin	400,000				Irrigation, Agricultural	Kucf
237 Southern Wayne Sanitary District	CU3106 Wayne	1,499,000				Public Supply	Kbc, Kucf
238 Southwestern Wayne Sanitary District	CU3084 Wayne	1,033,200	312,840			Public Supply	Kucf, Br
239 Spring Creek Timber Co., Inc.	CU3169 Pamlico	324,000				Irrigation, Agricultural	Tch
240 Spring Hope Fisheries	CU3087 Craven	360,000				Aquaculture	Tch
241 Steve Grady Farm	CU3225 Duplin	554,400				Irrigation, Agricultural	Kucf
242 Stokes Regional Water Corporation	CU3088 Pitt			36,500,365	85,688	Public Supply	Kucf
243 Sutton Brothers, Inc.	CU3283 Wayne	324,000		36,500,365		Irrigation, Agricultural	Kucf, S, Kbc
244 Swindell Fish Farms	CU1002 Beaufor	rt 576,000				Waterfowl Impoundments	Tch
245 T. L. Harris, Jr. Farm	CU1010 Washin	gton 1,872,000				Irrigation, Agricultural	Tch
246 Taberna Country Club	CU3168 Craven	378,000				Irrigation, Golf Course	Tch
247 Tarheel Fishery	CU3323 Craven	144,000	22,356			Aquaculture	Tch
248 TCB Farms, LLC	CU3243 Onslow	280,800				Irrigation, Agricultural	Kpd
249 Town of Atlantic Beach	CU3057 Cartere	t 2,500,000	510,003			Public Supply	Tch
250 Town of Aurora	CU1011 Beaufor	rt 250,000	44,327			Public Supply	Tch
251 Town of Ayden	CU3026 Pitt			51,909,050	54,764	Public Supply	Kbc, Kucf
252 Town of Beaufort	CU1015 Cartere	t 1,872,000	344,200			Public Supply	Tch
253 Town of Belhaven	CU1008 Beaufor		124,754			Public Supply	Ту
254 Town of Bethel	CU3070 Pitt			36,500,365	14,137	Public Supply	Kbc, Kucf
255 Town of Beulaville	CU3086 Duplin	180,000		74,866,050	103,616	Public Supply	Kpd, Kbc
256 Town of Black Creek	CU3059 Wilson	1,454,400	397,892			Public Supply	Br
257 Town of Calypso	CU3142 Duplin	250,000	57,996			Public Supply	Kucf
258 Town of Chocowinity	CU1051 Beaufor		144,123			Public Supply	Tch

259 Town of Creswell	CU1046	Washington	288,000				Public Supply	Ту
260 Town of Dover	CU3186				36,500,365	14.280	Public Supply	Kbc
261 Town of Elm City	CU3067		535,680	65,511	,,	,	Public Supply	Br
262 Town of Faison	CU3058		1,674,000	195,868			Public Supply	Kucf
263 Town of Farmville	CU3096		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	143,534,663	353,122	Public Supply	Kbc, Kucf
264 Town of Greenevers	CU3099	Duplin			36,500,365	47.827	Public Supply	Kbc
265 Town of Grifton	CU3049				36,500,365		Public Supply	Kbc, Kucf
266 Town of Hamilton	CU3166	Martin			36,500,365	18 049	Public Supply	Kucf
267 Town of Hookerton	CU3137				36,500,365		Public Supply	Kucf
268 Town of Kenansville	CU3091		538,000	101,964		,	Public Supply	Kpd, Kbc
269 Town of La Grange	CU3003	Lenoir	585,000	70,197	106,016,250	159,225	Public Supply	Kbc, Kucf, S
270 Town of Lucama	CU3041	Wilson	273,600	50,415			Public Supply	Br
271 Town of Macclesfield	CU3128	Edgecombe			36,500,365	30,249	Public Supply	Kucf, Klcf
272 Town of Magnolia	CU3012	Duplin	270,000				Public Supply	Kbc
273 Town of Maysville	CU3051		172,800	34,858			Public Supply	Tch
274 Town of Morehead City	CU1014	Carteret	3,000,000	981,929			Public Supply	Tch
275 Town of Mount Olive	CU3020	Wayne	2,448,000	690,948			Public Supply	Kucf
276 Town of Newport	CU1012	Carteret	1,392,480	578,174			Public Supply	S
277 Town of Oriental	CU1022	Pamlico	439,200	126,075			Public Supply	Tch
Town of Pine Knoll Shores	CU3105	Carteret	1,200,000	211,526			Public Supply	Ty, Tch
279 Town of Pinetops	CU3053	Edgecombe			83,726,055	157,190	Public Supply	Kucf
280 Town of Pink Hill	CU3021	Lenoir			36,500,365	19,252	Public Supply	Kbc
281 Town of Plymouth	CU1001	Washington	1,200,000	313,932			Public Supply	Tch
282 Town of Pollocksville	CU3125	Jones	216,000	36,534			Public Supply	Tch
283 Town of River Bend	CU3052	Craven	1,000,000	82,729			Public Supply	S, Tch
284 Town of Robersonville	CU3016	Martin			117,264,750	72,995	Public Supply	Kucf
285 Town of Rose Hill	CU3010	Duplin	1,440,000	160,283			Public Supply	Kbc, Kucf
286 Town of Snow Hill	CU3072	Greene	191,000	48,488	73,328,667	130,819	Public Supply	Kucf, S, Kbc
287 Town of Stantonsburg	CU3101	Wilson			142,794,610	301,532	Public Supply	Kucf
288 Town of Vanceboro	CU1097	Craven	432,000	163,005			Public Supply	Tch
289 Town of Wallace	CU3013	Duplin	2,524,000	530,601			Public Supply	Kbc
290 Town of Warsaw	CU3085	Duplin	1,152,000	288,066			Public Supply	Kbc, Kucf
291 Town of Williamston	CU3066	Martin			98,436,120	38,068	Public Supply	Kpd, Kbc, Kucf
292 Town of Winterville	CU3121	Pitt			45,177,276	231,438	Public Supply	Kbc, Kucf
Trent River Adventures, LLC dba River Bend Country Club	CU3179	Craven	331,200				Irrigation, Golf Course	Tch
294 Turkey Path Pit	CU3302	Lenoir	2,880,000				Mine Dewatering	S
Turnpike Farms, LLC. (Dannenberg Farms)	CU1044	Washington	1,188,000				Irrigation, Agricultural	Tch
296 University of Mount Olive (Agriculture Div.)	CU3294	•	190,080	548			Irrigation, Agricultural	Kbc, Kucf
297 US Marine Corps - Cherry Point	CU1060	Craven	9,630,000	2,770,794			Public Supply	Ty, Tch

298	Valley Proteins, Inc.	CU3207	Duplin	216,000	45,419			Industrial	Kbc
299	Vanguard Farms Inc.	CU1106	Craven	3,000,000	842,585			Aquaculture	Tch
300	Vernon Bell Farm	CU3279	Washington	2,160,000				Irrigation, Agricultural	Tch
301	Vic Swinson Farms	CU3218	Duplin	2,088,000				Irrigation, Agricultural	Kucf
302	W. Haden Harris Farms, Inc.		Washington					Irrigation, Agricultural	Tch
303	Washington County Water System	CU1113	Washington	1,000,000	356,041			Public Supply	Tch
304	Wesley Sutton Farms	CU3285	Lenoir	288,000				Irrigation, Agricultural	S, Kbc
	West Carteret Water Corporation	CU3090	Carteret	3,064,000	878,953			Public Supply	Tch
	Westside Minerals LLC (Westside Minerals Mine)	CU3178	Lenoir	2,880,000	256,438			Mine Dewatering	S,Kpd
307	Wheeler Farm	CU3205	Pamlico	288,000				Waterfowl Impoundments	Ty, Tch
	White Rock Fish Farm Inc.	CU1090	Craven	432,000				Aquaculture	Tch
309	William Draughon Farm	CU3290	Duplin	792,000				Irrigation, Agricultural	Kbc
310	Worthington Farms, Inc.	CU3064	Pitt			36,500,365	4,309	Irrigation, Agricultural	Kbc, Kucf
	I Permitted Ground Wa ject to .0503:	ter Witho	drawals not	665,108,642	82,540,070				Legend
Tota	I Annual Rates (permit	s subject	t to .0503):			7,980,625,221	14,105,280		
Tota	otal number of active permits: 310								
day.	The numbers in the Annual Permitted Rates column are in gallons per year whereas other withdrawal columns are in gallons per day.  Reported values are averages of last 365 days.								
			,						

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Last Modified: 09.13.2018

### **Table 3. List of current CCPCUA Registrations**

Choose a year...

2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 return to CCPCUA page

# Registered Facilities in the Central Coastal Plain Capacity Use Area for 2018

Links to Plots of Monthly Average and Maximum Day Water Withdrawals by Registered Facilities for 2018

Beaufort Carteret Craven Duplin Edgecombe Greene Jones Lenoir Martin Onslow Pamlico Pitt Washington Wayne Wilson All plots through 2009 include agricultural registration data from Department of Agriculture surveys

Do victorio v	10	Country	Number of Days	Use (in	Maximum Daily Use	or Ground	Town of the
Registration  NCSU Paralice Agreed ture Field Lab	CLIDOGG	County	Used	•	(in MGD)		Type of Use
NCSU Pamlico Aquaculture Field Lab	CUR0060		224	0.158	0.158	S	Aquaculture  Dublic Water System
Town of Bath	CUR0177		96	0.022	0.072	G	Public Water System
Whitleys MHP Atlantic MHP	CUR0005		364	0.003	0.016	G	Public Water System
	CUR0104		359	0.008	0.019	G	Public Water System
Atlantic MHP II	CUR0078		359	0.010	0.025	G	Public Water System  Public Water System
Atlantic Village MHP	CUR0032		358	0.013	0.044	G	Public Water System
Ballou MHP	CUR0105		361	0.007	0.028	G	Public Water System
Goose Creek Resort	CUR0031		365	0.024	0.110	G	Public Water System
Hunting Estates MHP	CUR0057		359	0.006	0.027	G	Public Water System
Newport Ridge MHP	CUR0033		359	0.005	0.016	G	Public Water System
Ocean Spray	CUR0030		365	0.009	0.028	G	Public Water System
Riverstone MHP	CUR0149		361	0.006	0.024	G	Public Water System
Star Hill Golf Club	CUR0099	Carteret	91	0.197	0.500	В	Golf Course Irrigation
International Paper New Bern Mill	CUR0052	Craven	327	15.616	19.605	S	Industrial, Public Water System
Mackilwean Turf Farm	CUR0180	Craven	44	0.219	0.305	G	Agricultural Irrigation
Morris Street Ferry Road Pit	CUR0101	Craven	0	0.000	0.000	G	Temporary Dewatering, Mining
Weyerhaeuser NR New Bern Lumber Facility	CUR0148	Craven	293	0.008	0.041	G	Industrial
Bay Valley Foods, LLC	CUR0110	Duplin	91	0.011	0.017	G	Industrial
New Gen Farms, LLC.	CUR0161	Duplin	301	0.002	0.003	G	Livestock
Smithfield Hog Production Division - The Chief Mill	CUR0169	Duplin	365	0.064	0.086	G	Industrial, Public Water System
Tarheel Concrete - Devans Sand Pit	CUR0139	Duplin	28	0.100	0.100	В	Mining
Warsaw Feed Mill	CUR0070	Duplin	353	0.027	0.034	G	Industrial
J.B. Rose and Sons	CUR0127	Edgecombe	33	1.800	2.376	S	Agricultural Irrigation
Linwood Allen Webb Farms		Edgecombe		0.000	0.000	S	Agricultural Irrigation
Oak Forest Ag LLC		Edgecombe		0.000	0.000	S	Agricultural Irrigation
Winstead Mobile Terrace		Edgecombe		0.012	0.031	G	Public Water System
Harris Farms	CUR0013	-	44	0.864	2.376	S	Agricultural Irrigation
Holloman Farm	CUR0102		0	0.000	0.000	G	Agricultural Irrigation
Jason Water Corporation	CUR0117		360	0.017		G	Public Water System
Shine Water Corporation	CUR0027		360	0.032	0.174	G	Public Water System
Vanderford Farm	CUR0103		0	0.000	0.000	G	Agricultural Irrigation

Long Family Farms, LLC	CUR0009	Martin	4	0.720	0.720	S	Agricultural Irrigation
Martin County Regional Water and							Ţ.
Sewer Authority	CUR0147	Martin	361	0.937	2.617	S	Public Water System
Town of Jamesville	CUR0028	Martin	365	0.031	0.109	G	Public Water System
OSPREY COVE # 1	CUR0039	Onslow	359	0.028	0.060	G	Public Water System
Osprey Cove #2	CUR0040	Onslow	359	0.013	0.057	G	Public Water System
Sherwood MHP	CUR0012	Onslow	365	0.040	0.071	G	Public Water System
Turning Leaf Farms, LLC	CUR0150	Onslow	21	0.029	0.067	G	Agricultural Irrigation
Jones Island Club, Inc.	CUR0179	Pamlico	0	0.000	0.000	G	Other, waterfowl impoundment
Pamlico Packing Co. Inc.	CUR0151	Pamlico	56	0.003	0.009	G	Industrial
Barnhill Contracting Company - (NCDOT R-2250)	CUR0174	Pitt	199	0.048	0.087	G	Other, Dust suppression
Eagle Farm LLC	CUR0011	Pitt	0	0.000	0.000	G	Aquaculture
Greenville Utilities Commission WTP	CUR0064	Pitt	365	13.850	18.364	S	Public Water System
Laughinghouse Farms, Inc.	CUR0020	Pitt	0	0.000	0.000	В	Agricultural Irrigation
Town of Grimesland	CUR0003	Pitt	365	0.033	0.092	G	Public Water System
Weyerhaeuser NR Greenville Lumber Facility	CUR0019	Pitt	97	0.052	0.066	G	Industrial
Darrell Davenport Sand Mine	CUR0122	Washington	0	0.000	0.000	G	Mining
Douglas Maxwell Farm	CUR0181	Washington	0	0.000	0.000	G	Agricultural Irrigation
Goldsboro Water Treatment Plant	CUR0062	Wayne	365	6.313	9.904	S	Public Water System
H. F. Lee Energy Complex	CUR0001	Wayne	108	13.603	17.568	S	Industrial
Lane Tree Golf Club	CUR0098	Wayne	83	0.218	0.376	S	Golf Course Irrigation
City of Wilson Water Treatment Plant	CUR0063	Wilson	365	9.110	17.023	S	Public Water System
Fairview Nursery, Inc.	CUR0079	Wilson	164	0.701	1.086	S	Agricultural Irrigation
Old Saratoga, Inc.	CUR0022	Wilson	293	0.056	0.098	G	Industrial
Sharp Farms, Inc.	CUR0043	Wilson	411	0.068	0.270	В	Agricultural Irrigation, Livestock, Other, spraying crops
Town of Saratoga	CUR0036	Wilson	365	0.040	0.052	G	Public Water System
Town of Sims	CUR0035	Wilson	365	0.015	0.038	G	Public Water System
Total Average Daily Registered Water Withdrawals:			49.655				
Total Average Daily Registered Ground Water Withdrawals:							
Total Average Daily Registered Surface Water Withdrawals:				49.086			
Total number of active registrations: 57							

Last Modified: 09.13.2018

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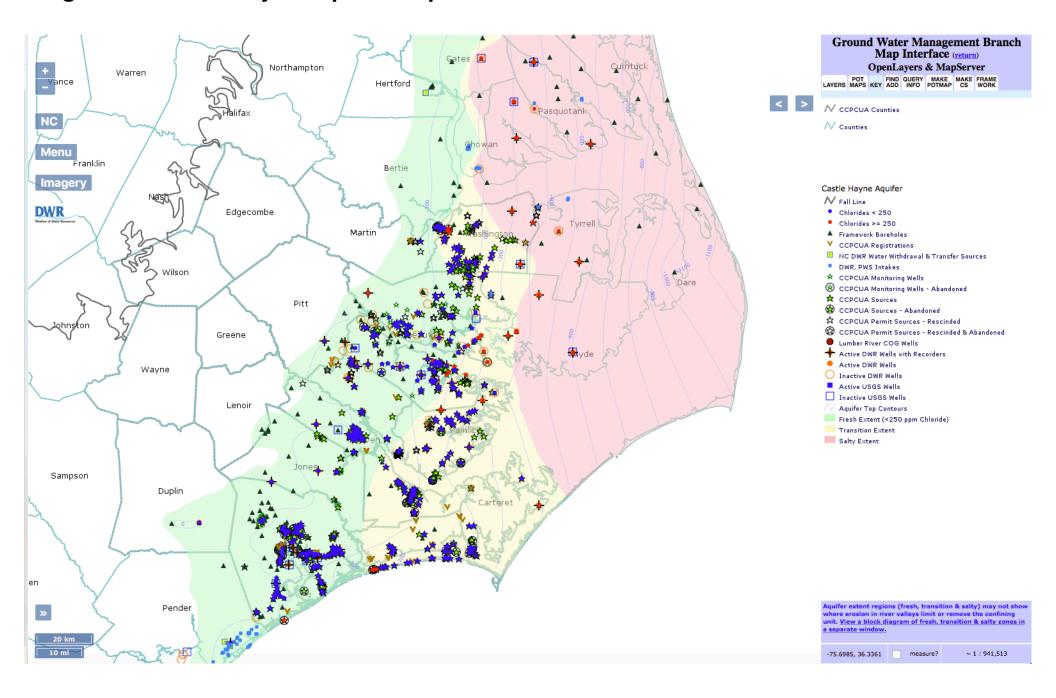
**Table 4. Notices of Violations and Penalty Assessments from January 2014 - December 2018** 

	Notice of				
	Violation				
Permit Holder	issued	Outcome			
remitrioidei	133464	Permit Expired and non-reporting. Renewal application and			
Steve Grady Farm	7/27/17	historical use received. NOV dismissed.			
Steve Grady Farm	1/2//1/	Non-reporting. Solution is Bruce has to email a copy of the			
Conetoe Community		completed report to Linda monthly and Board is notified. NOV			
Water Assoc., Inc.	7/21/17	dismissed.			
7746617133061, 11161	7/21/17	Expired permit and non-reporting. Renewal application and			
Vic Swinson Farms	6/9/17	historical use received. NOV dismissed.			
Jeremy P. James Farm (E	3/3/=	Permit Expired and non-reporting. Renewal application and			
Block Farm)	5/10/17	historical use received. NOV dismissed.			
Jeremy P. James Farm (G	, ,	Expired permit and non-reporting. Renewal application and			
Block Farm)	5/9/17	historical use received. NOV dismissed.			
Castle Hayne Fisheries,		Expired permit and non-reporting. Renewal application and			
Inc.	3/28/17	historical use received. NOV dismissed.			
		Expired permit and non-reporting. Rescindment of permit			
DKR Farms, LLC.	10/24/16	requested, and NOV dismissed.			
Mike Bishop (Wade Allen		Expired permit and non-reporting. Renewal application and			
Farm)	3/9/16	historical use received. NOV dismissed.			
		Expired Permit and non-reporting. Rescinded permit-max day			
Jumping Run Farms Inc.	2/12/16	use is 18000 gpd for 6 chicken houses.			
W. Haden Harris Farms,					
Inc.	2/12/16	Expired permit. Renewal application received. NOV dismissed.			
Town of Macclesfield	11/9/15	Expired permit. Renewal application received. NOV dismissed.			
		Water withdrawals over permitted annual amount.			
Stokes Regional Water		Civil penalty amount \$55,571.84 remitted to \$30,574.84			
Corporation	10/12/15	(paid).			
Westside Minerals LLC		Expired permit and non-reporting. Renewal application and			
(Westside Minerals Mine)	10/9/15	historical use received. NOV dismissed.			
Vanguard Farms Inc.	9/21/15	Expired permit. Renewal application received. NOV dismissed.			
Trent River Adventures,					
LLC dba River Bend	0.10 + 1 =	Expired permit and non-reporting. Renewal application and			
Country Club	9/21/15	historical use received. NOV Dismissed.			
Jones County Regional	4 /4 0 / 6 =	Water withdrawals over permitted annual amount.			
Water System	1/13/15	Civil penalty amount \$4,154.19 (paid).			
Village of Walnut Creek	1/7/15	Expired permit. Renewal application received. NOV dismissed.			
Morton Minerals Inc.	4 17 14 5	Miss to select the control of the co			
(Manning Mine)	1/7/15	Mine transferred ownership in Oct 2010.			
American Materials Co.,	12/1/11	Fundand a small Demonstration of the NOV district			
LLC (Pinner Pit)	12/4/14	Expired permit. Renewal application received. NOV dismissed.			
Colton Walls Limeseters	12/4/14	Permit Expired and non-reporting. He requested rescindment			
Colton Wells Limestone	12/4/14	of permit. NOV dismissed.			
David Waters Farm	1/21/11	Permit Expired and non-reporting. Renewal application and			
David Waters Farm	4/21/14	historical use received. NOV dismissed.			

**Table 4. Notices of Violations and Penalty Assessments from January 2014 - December 2018** 

	Notice of Violation	
Permit Holder	issued	Outcome
Eastern Pines Water		
Corporation	2/11/14	Expired permit. Renewal application received. NOV dismissed.
Marina Village - Snug		Permit Expired and non-reporting. He requested to rescind
Harbor H20 Sys	2/11/14	permit due to not building water system. NOV dismissed
Bell Arthur Water		
Corporation	2/11/14	Expired permit. Renewal application received. NOV dismissed.
Haugen Co. (Catherine		Expired permit and non-reporting. Renewal application and
Lake Fill Dirt)	1/7/14	historical use received. NOV dismissed.
		Expired permit and non-reporting. He requested to rescind
Monrovia Growers	1/7/14	permit due to no longer in operation. NOV dismissed.
Carolina Stone, LLC (Ft.		Permit Expired - He requested to rescind permit due to
Barnwell Mine)	1/7/14	becoming inactive. NOV dismissed.
		Expired permit and non-reporting. Renewal application and
Town of Elm City	1/7/14	historical use received. NOV dismissed.
Town of Chocowinity	1/7/14	Expired permit. Renewal application received. NOV dismissed.
		Exceeded permit amount. They pulled pump and found holes
		in pipe column. Scada system malfunctioned do to these.
Stokes Regional Water		Recalibrated and resubmitted May and July 2013 withdrawal
Corporation	1/3/14	reports. NOV dismissed.

**Figure 6 - Castle Hayne Aquifer Map** 



**Figure 7 - Peedee Aquifer Map** 

