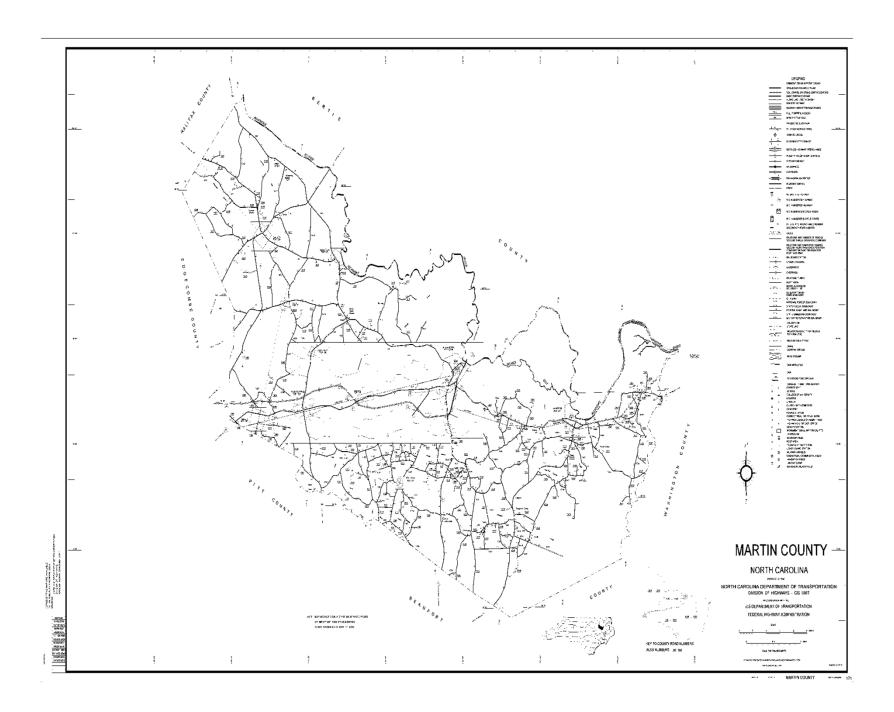
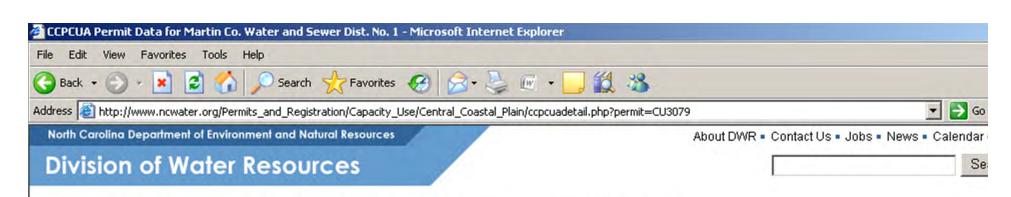
MARTIN COUNTY WATER

Ed Warren, Martin County Water Manager
305 E. Main St., PO Box 706
Williamston, NC 27892
(252) 789-4347
ewarren@martincountyncgov.com



History

- Ed Warren, Water Manager since April 26, 2010
- Martin County Water and Sewer District 1 and District 2
- District 1-area north of Williamston; includes Towns of Oak City, Hassell and Gold Point, but not Hamilton.
 - -Operation in 2001
 - -Current Active Connections ~935
- District 2-area south of Williamston; includes Town of Bear Grass and Farm Life Community.
 - -'Phase 1' Operation in 2006 with ~500 connections
 - -'Phase 2' Expansion in 2010 added ~500 connections
 - -'Phase 2' Add'l Expansion in 2011 will add ~80 connections
 - -Current Active Connections ~885
- Other Public Water Systems within County-Town of Williamston, Town of Robersonville (Everetts & Parmele) and Town of Jamesville.



Central Coastal Plain Capacity Use Area Permit Data for Martin Co. Water and Sewer Dist. No. 1

Permit holder	Martin Co. Water and Sewer Dist. No. 1	Application Received	03/02/2009
Permit number	CU3079	Application Complete	
Permit status	Active	Application Public Notice	03/27/2009
County	Martin	Draft Permit Public Notice	04/17/2009
Type of Use	Public Supply	Issue Date	05/13/2009
Cretaceous Water Bank	Yes	Expiration Date	02/28/2014
Bank Start Date	08/01/2005	Date First Issued	07/27/2004

Aquifer
Surficial
Upper Tertiary
Yorktown
Castle Hayne
Beaufort
Peedee
Black Creek
Upper Cape Fear
Lower Cape Fear
Basement Rock

Withdrawals Subject to .0503 Reductions 260,610,000 Aquifer: Kucf No. of Wells: 4
Approved Base Rate (in GPY):

Future Permitted Annual Withdrawal Rates (in GPY)

August 1, 2008 through July 31, 2013 234,549,000

August 1, 2013 through July 31, 2018 208,488,000

August 1, 2018 182,427,000

North Carolina Aquifer Information Ground Water Management Section web site

This permittee has filed a Local Water Supply Plan. Click here to review their plan. Access this permit holder's withdrawal data formatted for Local Water Supply Planning for all wells and individual wells.

Access any Local Water Supply Plan here.

Water Withdrawal Statistics for Martin Co. Water and Sewer Dist. No. 1 (CU3079)

Wells <u>Subject</u> to .0503 Reductions

August 1 through July 31 Years

Year Total (gallons) Average Day (gallons/day) Maximum Day (gallons/day) # of Days



Access any Local vvater Supply Plan nere.

Water Withdrawal Statistics for Martin Co. Water and Sewer Dist. No. 1 (CU3079) Wells <u>Subject</u> to .0503 Reductions August 1 through July 31 Years

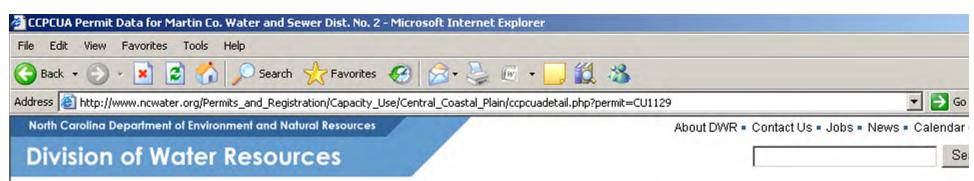
Year	Year Total (gallons)	Average Day (gallons/day)	Maximum Day (gallons/day)	# of Days
8-1-2001 thru 7-31-2002	15,145,988	73,883	271,000	205
8-1-2002 thru 7-31-2003	38,949,000	109,407	374,000	356
8-1-2003 thru 7-31-2004	41,378,000	138,852	574,000	298
8-1-2004 thru 7-31-2005	49,499,000	135,986	317,000	364
8-1-2005 thru 7-31-2006	48,581,000	133,099	362,000	365
8-1-2006 thru 7-31-2007	49,964,000	137,264	274,000	364
8-1-2007 thru 7-31-2008	49,638,000	135,623	383,000	366
8-1-2008 thru 7-31-2009	55,213,000	151,268	390,000	365
8-1-2009 thru 7-31-2010	53,853,000	147,542	358,000	365
8-1-2010 thru 7-31-2011	39,221,000	143,667	363,000	273

Martin Co. Water and Sewer Dist. No. 1 (CU3079) Well Information

#	Source	Land Surface Elevation (feet)	The second secon	Pump Capacity (gallons per minute)	Pump Depth (feet)	Top Screen Depth (feet)	Bottom Screen Depth (feet)	Well Depth (feet)	Aquifer(s)	Туре	.0503 Reduction Well?	Status	.0503 Zone	Production (P) or Monitoring (M) Well
1	1	63.00	12	500	234	256	296	308	Kucf	Well	yes	Existing	10	Р
2	2	79.00	8	125	0	220	335	340	Kucf	Well	yes	Existing	10	Р
3	Penco 1	73.00	8	340	0	220	315	320	Kucf	Well	yes	Existing	10	Р
4	Penco 2	73.00	6	233	0	230	315	320	Kucf	Well	yes	Existing	10	Р

pump below top of screen; pump below top of screen and top of aquifer; pump below top of aquifer

Return to the Central Coastal Plain Capacity Use Area Web Page



Central Coastal Plain Capacity Use Area Permit Data for Martin Co. Water and Sewer Dist. No. 2

Permit holder	Martin Co. Water and Sewer Dist. No. 2	Application Received	06/30/2011
Permit number	CU1129	Application Complete	
Permit status	Application Incomplete	Application Public Notice	
County	Martin	Draft Permit Public Notice	
Type of Use	Public Supply	Issue Date	
Cretaceous Water Bank	Yes	Expiration Date	06/30/2011
Bank Start Date	08/01/2005	Date First Issued	07/17/2001

Withdrawals Subject to .0503 Reductions 183,960,000 Aquifer: Kbc, Kucf No. of Wells: 2 Approved Base Rate (in GPY):

Future Permitted Annual Withdrawal Rates (in GPY)

August 1, 2008 through July 31, 2013 137,970,000

August 1, 2013 through July 31, 2018 91,980,000

August 1, 2018 45,990,000

Year

Abbreviation	Aquifer
S	Surficial
Tu	Upper Tertiary
Ту	Yorktown
Tch	Castle Hayne
Tb	Beaufort
Kpd	Peedee
Kbc	Black Creek
Kucf	Upper Cape Fear
Klcf	Lower Cape Fear
Br	Basement Rock

North Carolina Aquifer Information Ground Water Management Section web site

This permittee has filed a Local Water Supply Plan. Click here to review their plan. Access this permit holder's withdrawal data formatted for Local Water Supply Planning for all wells and individual wells.

Access any Local Water Supply Plan here.

Water Withdrawal Statistics for Martin Co. Water and Sewer Dist. No. 2 (CU1129) Wells Subject to .0503 Reductions August 1 through July 31 Years

Year Total (gallons) Average Day (gallons/day) Maximum Day (gallons/day) # of Days

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Water Withdrawal Statistics for Martin Co. Water and Sewer Dist. No. 2 (CU1129) Wells <u>Subject</u> to .0503 Reductions August 1 through July 31 Years

Year	Year Total (gallons)	Average Day (gallons/day)	Maximum Day (gallons/day)	# of Days
8-1-1996 thru 7-31-1997	1,050,702	58,372	69,200	18
8-1-1997 thru 7-31-1998	1,853,189	54,506	70,975	34
8-1-1999 thru 7-31-2000	2,035,880	39,152	47,337	52
8-1-2005 thru 7-31-2006	12,362,000	71,457	317,000	173
8-1-2006 thru 7-31-2007	26,075,000	71,635	340,000	364
8-1-2007 thru 7-31-2008	23,548,000	65,230	233,000	361
8-1-2008 thru 7-31-2009	33,003,000	90,917	486,000	363
8-1-2009 thru 7-31-2010	37,889,000	103,805	469,000	365
8-1-2010 thru 7-31-2011	40,518,000	148,418	625,000	273

ABR Calculation

Year	Rule .0503	Year Total (gallons)	Average Day (gallons/day)	Maximum Day (gallons/day)	# of Days
8-1-1999 thru 7-31-2000	yes	2,035,880	39,152	47,337	52
1997	yes	2,113,191	52,830	69,200	40

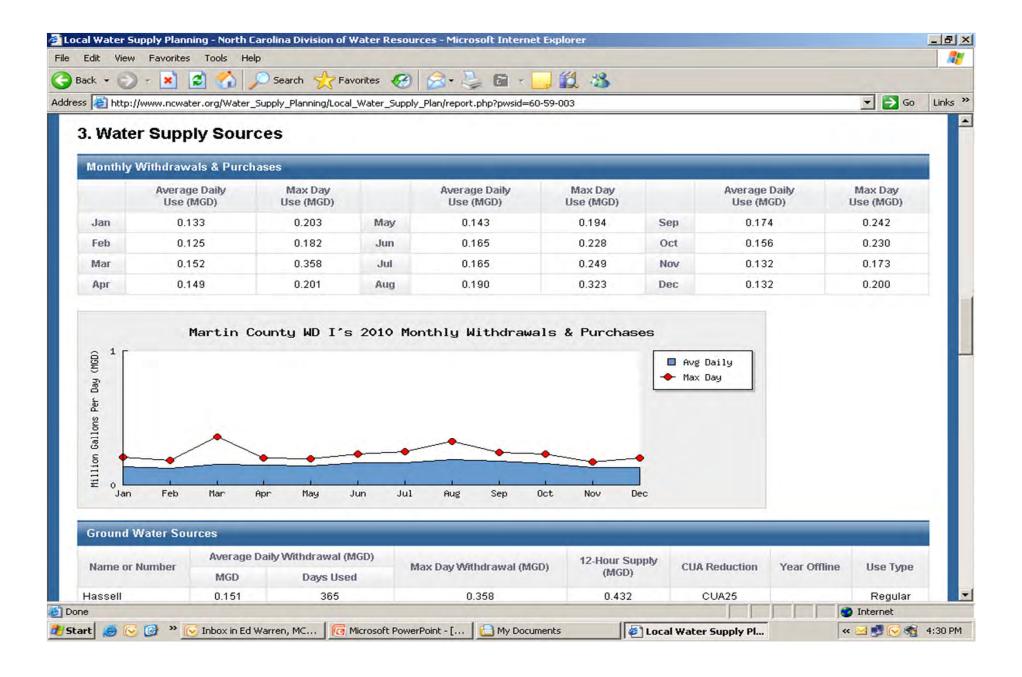
Martin Co. Water and Sewer Dist. No. 2 (CU1129) Well Information

#	Source	Land Surface Elevation (feet)	(inches)	Pump Capacity (gallons per minute)	Pump Depth (feet)		Bottom Screen Depth (feet)		Aquifer(s)	Туре	.0503 Reduction Well?	Status	.0503 Zone	Production (P) or Monitoring (M) Well
1	1	65.00	12	600	0	400	439	453	Kucf	Well	yes	Existing	25	Р
2	2	59.00	6	100	0	248	302	307	Kbc	Well	yes	Existing	25	Р

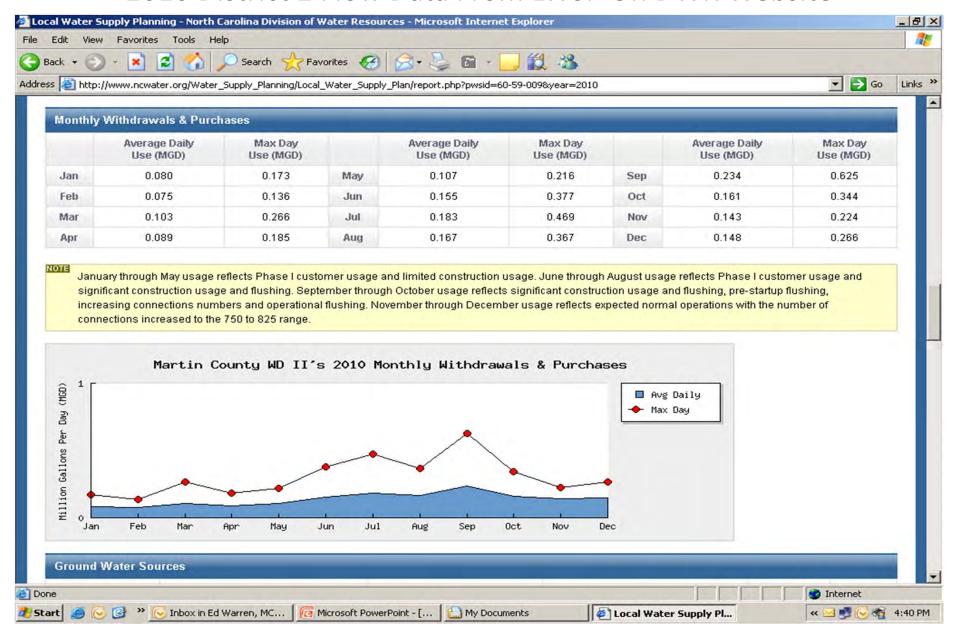
pump below top of screen; pump below top of screen and top of aquifer; pump below top of aquifer

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2010 District 1 Flow Data From LWSP On DWR Website



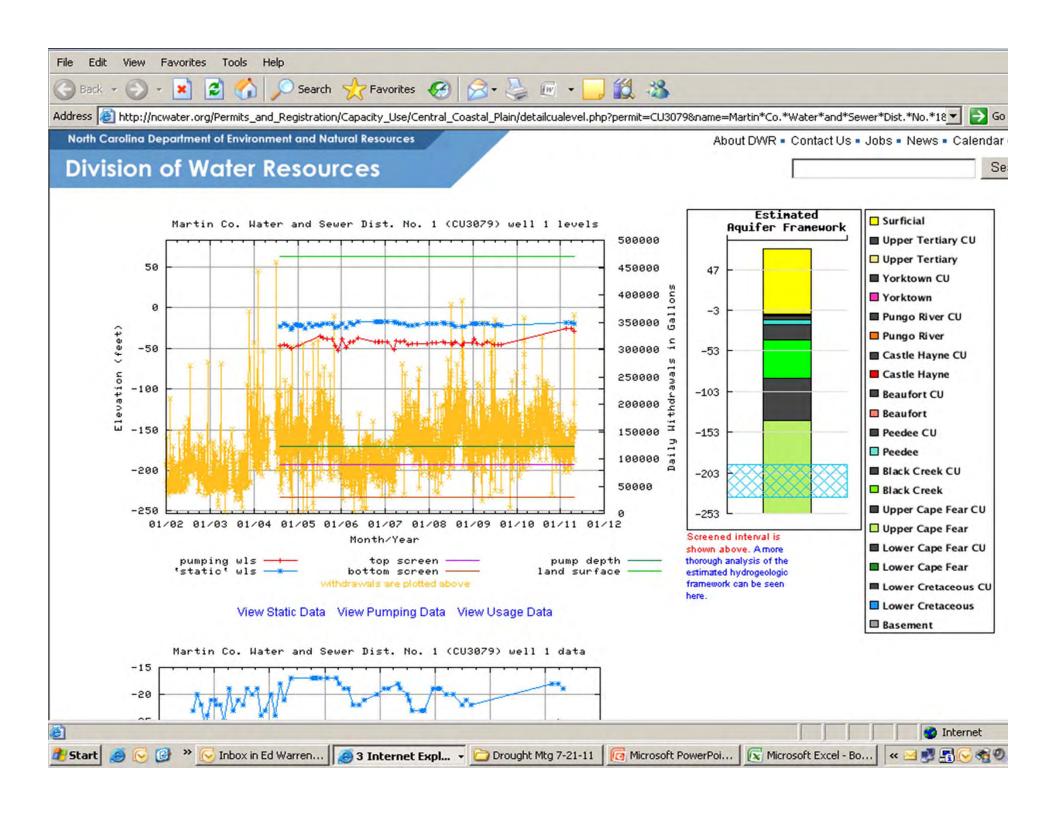
2010 District 2 Flow Data From LWSP On DWR Website

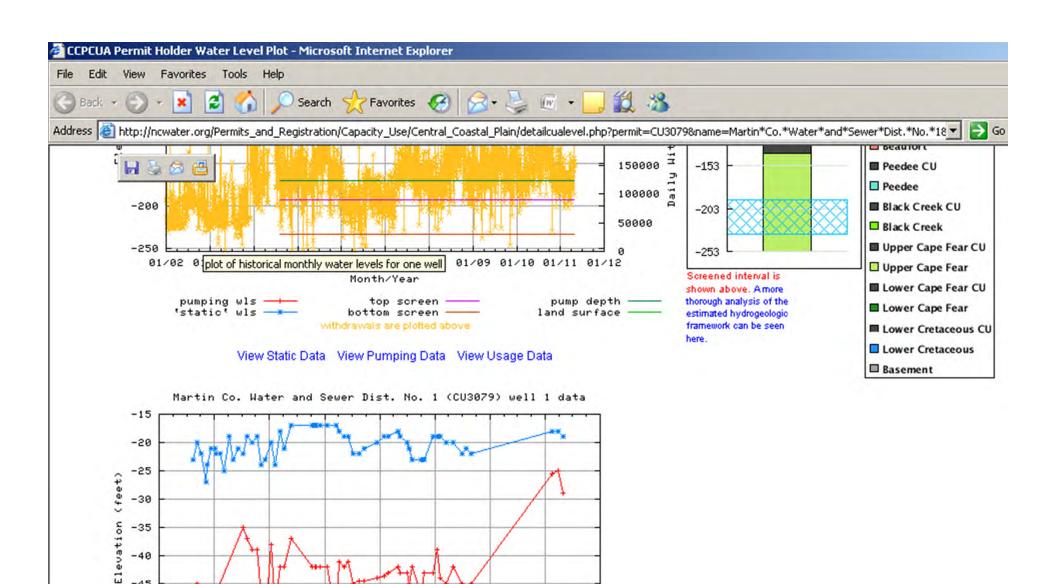


Meeting the CCPCUA Reductions

- The Wooten Company completed the 'Martin County Water Resources Plan' in March 2005
- December 2007, 'Martin County Rural Water and Sewer Authority' (MCRWASA) officially chartered-Martin County and Town of Williamston are current members
- Current Activities of MCRWASA
 - -Plan and construct interconnection from Town of Robersonville-planned completion 2012;
 - -Plan and construct new water supply well (Penco 1&2) in Martin County District 1-planned completion 2012;
 - -Plan and construct 2.0 MGD Surface Water Treatment Plantplanned completion 2015;

Martin County Drought Issues





01/11

01/12

01/08

Month/Year

01/09

01/10

'static' wls -*-

01/07

-45

-50

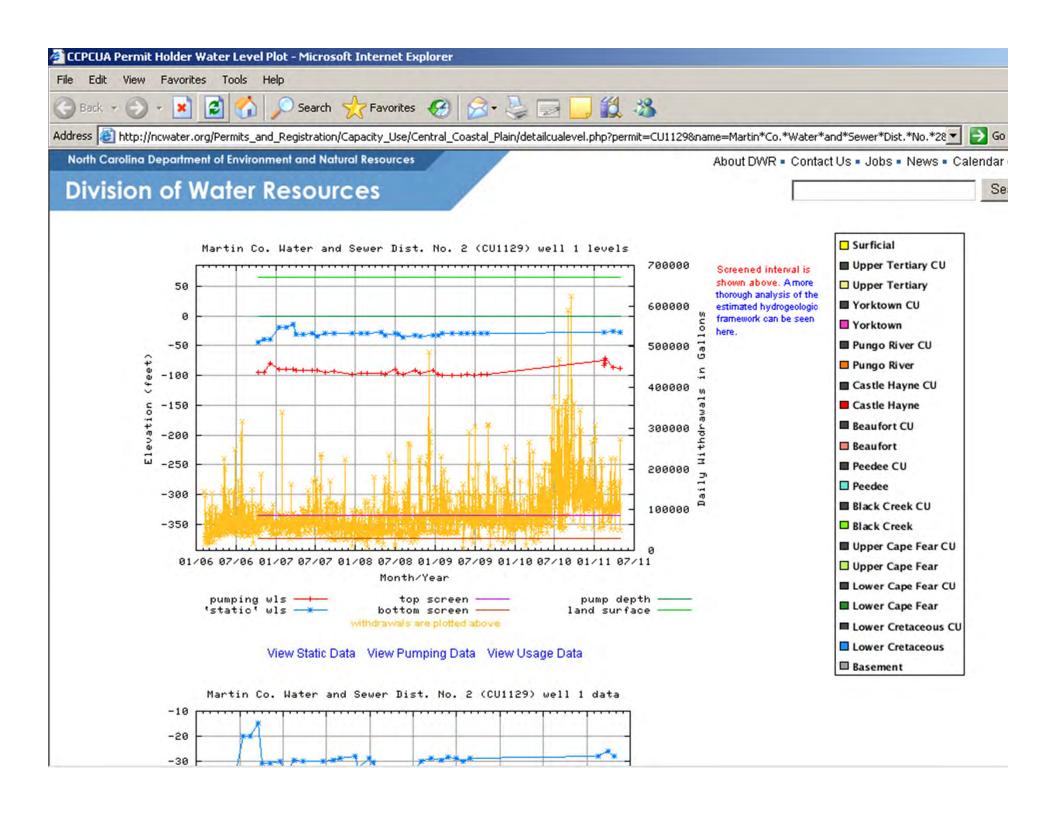
-55

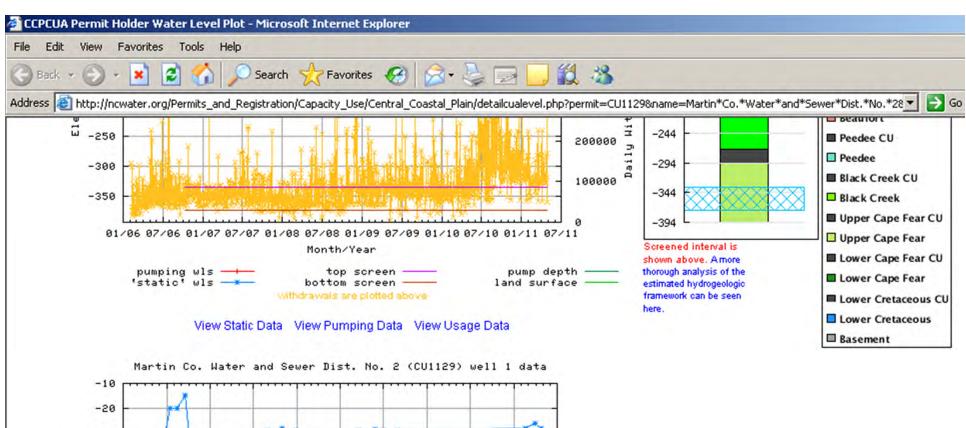
01/04

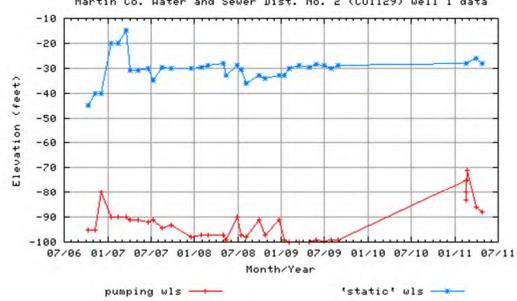
01/05

01/06

pumping wls ---







Water Shortage Response Plan

Martin County Water and Sewer Districts 1 & 2 Board of Commissioners approved and adopted on May 11, 2011

IV. Triggers

Martin County WD I water source is groundwater. The following measurements of well pumping times and well levels in relationship to pump intake levels trigger entry into corresponding water restriction stages.

Stage	Well Operating Conditions
1	Pumping Time >10 hrs
	20% reduction in seasonal normal distance from static water
	level and pump intake
	20% increase pumping time for same output
2	Pumping Time >12 hrs
	40% reduction in distance from static water level and pump
	intake
	40% increase pumping time for same output
3	Pumping Time >14 hrs
	60% reduction in distance from static water level and pump
	intake
	60% increase pumping time for same output
4	Pumping Time >20 hrs
	80% reduction in distance from static water level and pump
	intake
5	Water level at pump intake elevation

III. Levels of Response

Five levels of water shortage response are outlined in the table below. The five levels of water shortage response are: voluntary reductions, mandatory reductions I and II, emergency reductions and water rationing. A detailed description of each response level and corresponding water reduction measures follow below.

Stage	Response	Description
1	Voluntary Reductions	Water users are encouraged to reduce their water use and improve water use efficiency; however, no penalties apply for noncompliance. Water supply conditions indicate a potential for shortage.
2	Mandatory Reductions I	Water users must abide by required water use reduction and efficiency measures; penalties apply for noncompliance. Water supply conditions are significantly lower than the seasonal norm and water shortage conditions are expected to persist.
3	Mandatory Reductions II	Same as in Stage 2
4	Emergency Reductions	Water supply conditions are substantially diminished and pose an imminent threat to human health or environmental integrity.
5	Water Rationing	Water supply conditions are substantially diminished and remaining supplies must be allocated to preserve human health and environmental integrity.

- In Stage 1, Voluntary Reductions, all water users will be asked to reduce their normal water use by 5% below their 12 month average for the preceding calendar year. Customer education and outreach programs will encourage water conservation and efficiency measures including: irrigating landscapes a maximum of one inch per week; preventing water waste, runoff and watering impervious surfaces; watering plants deeply to encourage root growth; washing only full loads in clothes and dishwashers; using spring-loaded nozzles on garden hoses; and identifying and repairing all water leaks.
- In Stage 2, Mandatory Reductions I, all customers are expected to reduce their water use by 10% below their 12 month average for the preceding calendar year. In addition to continuing to encourage all voluntary reduction actions, the following restrictions apply: irrigation is limited to a half inch per week between 8PM and 8AM; outdoor use of drinking water for washing impervious surfaces is prohibited; and all testing and training purposes requiring drinking water (e.g. fire protection) will be limited.
- In Stage 3, Mandatory Reductions II, customers must continue actions from all previous stages and further reduce water use by 20% below their 12 month average for the preceding calendar year. All non-essential uses of drinking water are banned and garden and landscape irrigation must be reduced to the minimum amount necessary for survival.
- In Stage 4, Emergency Reductions, customers must continue all actions from previous stages and reduce their water use by 25% below their 12 month average for the preceding calendar year. A ban on all use of drinking water except to protect public health and safety is implemented and a drought surcharge of 1.5 times the normal water rate applies.
- The goal of Stage 5, Water Rationing, is to provide drinking water to protect public health (e.g. residences, residential health care facilities and correctional facilities). In Stage 5, all customers are only permitted to use water at the minimum required for public health protection. Firefighting is the only allowable outdoor water use. Drought surcharges increase to 2 times the normal water rate.

#