



Water-Data Report 2009

**345723076592006 Local number CR-669 CROATAN RESEARCH STATION U1906 NEAR CROATAN, NC**

Castle Hayne aquifer  
Castle Hayne Formation  
Craven County, NC

LOCATION.--Lat 34°57'23.5", long 76°59'19.6" referenced to North American Datum of 1983, Craven County, NC, Hydrologic Unit 03020204, on Secondary Road 1100, 1.41 mi west of Croatan. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 200 ft. Upper casing diameter 4.0 in; top of first opening 190 ft, bottom of last opening 200 ft.

DATUM.--Land-surface datum is 26.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: 2.95 ft above land-surface datum, March 16, 1988, to present.

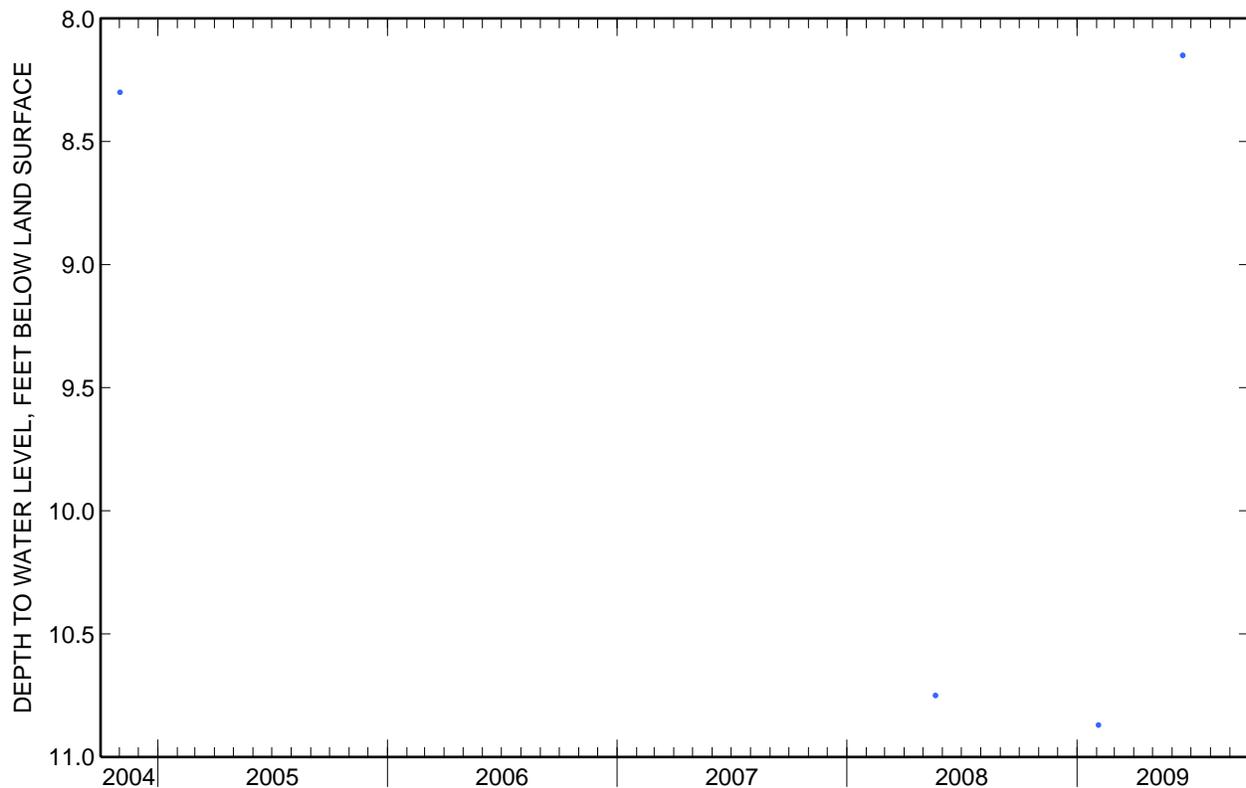
PERIOD OF RECORD.--November 2004, May 2008 to June 2009.

GAGE.--Measured periodically with electric tape.

REMARKS.--Well is measured as part of the Onslow County groundwater study.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM**

Date	Water level	Date	Water level
Feb 3, 2009	10.87	Jun 17, 2009	8.15



**345723076592006 Local number CR-669 CROATAN RESEARCH STATION U1906 NEAR CROATAN, NC—Continued**

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**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water year 2009.

REMARKS.--Well is sampled as part of the Onslow County groundwater study.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 2

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, deg C (00010)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)
Jun 17...	1400	759	.1	1	7.1	407	17.2	311	210	80.7	1.67	2.14	5.35

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 2

[Remark codes: <, less than; E, estimated.]

Date	Alka- linity, wat flt Gran, field, mg/L as CaCO3 (29802)	Chlor- ide, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L as P (00665)	Iron, water, fltrd, μg/L (01046)	Mangan- ese, water, fltrd, μg/L (01056)
Jun 17...	186	5.19	23.9	<.18	.35	.212	<.016	<.002	.014	E.007	3,300	75.8