



Water-Data Report 2009

**342359077404103 Local number PE-108 TOPSAIL BEACH RESEARCH STATION 3 AT TOPSAIL, NC**

Northern Atlantic Coastal Plain aquifer system  
Undefined Aquifer  
Pender County, NC

LOCATION.--Lat 34°23'59.9", long 77°40'41.4" referenced to North American Datum of 1983, Pender County, NC, Hydrologic Unit 03030001, .31 mi east of North Carolina Highway 210 and U.S. Highway 17, at Topsail.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 612 ft. Upper casing diameter 4.0 in; top of first opening 568 ft, bottom of last opening 578 ft.

DATUM.--Land-surface datum is 59.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined, 1.50 ft above land-surface datum, Aug. 22, 1983, to present.

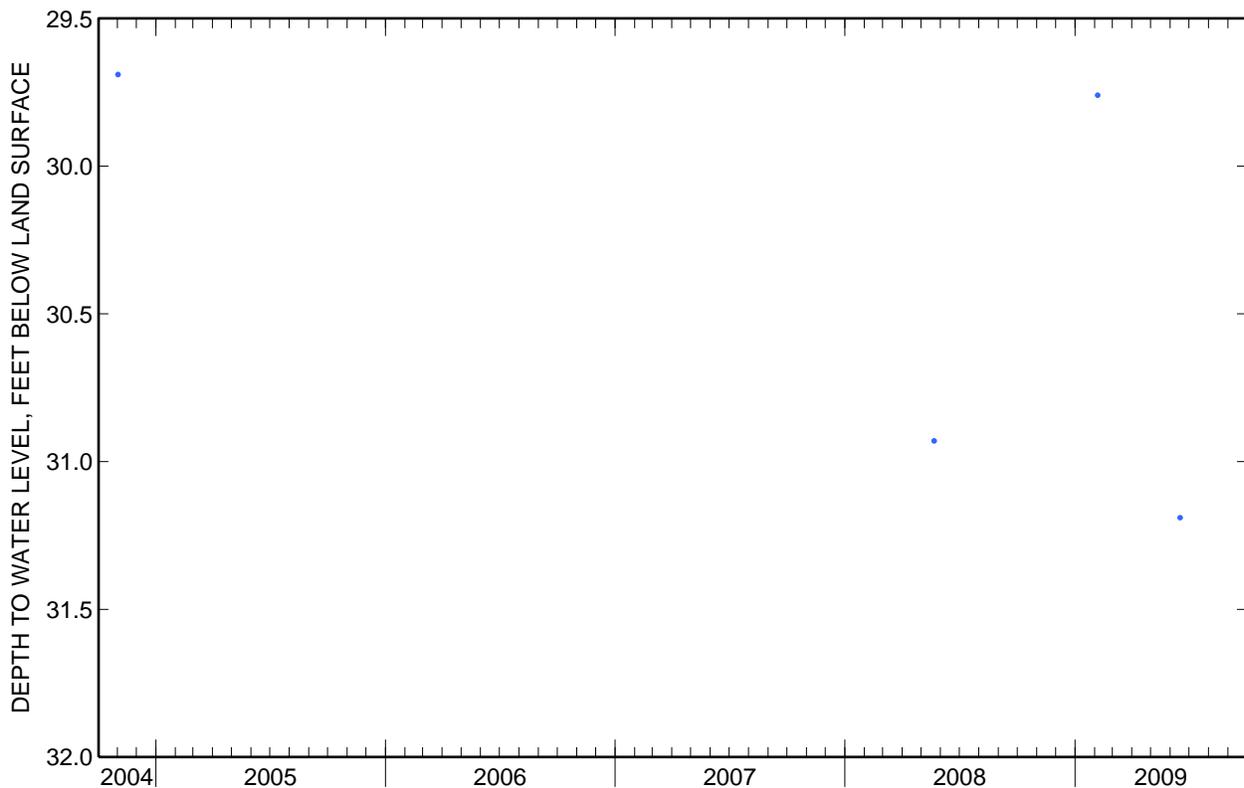
PERIOD OF RECORD.--November 2004, May 2008 to June 2009.

GAGE.--Measured periodically with electric tape.

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

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

Date	Water level	Date	Water level
Feb 5, 2009	29.76	Jun 16, 2009	31.19



**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water year 2009.

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

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

Part 1 of 3

[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 unfltrd µS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Dis- solved solids, sum of consti- tuents, mg/L (70301)	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)
Jun 16...	1830	756	4.9	54	8.5	7,320	18.3	4,040	E3,950	24	4.45	3.09	42.2

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

Part 2 of 3

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

Date	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt Gran, field, mg/L as CaCO3 (29802)	Bicar- bonate, wat flt Gran titr., field, mg/L (63786)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	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)
Jun 16...	1,470	390	476	2,200	.54	E.07	2.42	.54	.148	<.080	E.002	<.008	.047

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

Part 3 of 3

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

Date	Iron, water, fltrd, µg/L (01046)	Mangan- ese, water, fltrd, µg/L (01056)
Jun 16...	24	31.0