



Water-Data Report 2006

**354305078295802 Local number WK-337, Raleigh Hydrogeologic Research Station WC-3I (Intermediate Zone)**

Piedmont and Blue Ridge crystalline-rock aquifers  
 Quaternary Saprolite  
 Wake County, NC

LOCATION.--Lat 35°43'06", long 78°29'58" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 49 ft, diameter 4 in., cased to 34 ft, screened interval from 34 to 49 ft, sand filter packed from 22 to 53 ft.

DATUM.--Land-surface datum is 191.2 ft above NGVD of 1929. Measuring point: Top of PVC casing, 2.69 ft above land-surface datum.

PERIOD OF RECORD.--May 2005 to current year.

GAGE.--Measured periodically with electric tape by DENR and USGS.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.83 ft below land-surface datum, May 9, 2005; lowest water level measured, 19.53 ft below land-surface datum, Sept. 28, 2006.

**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM  
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Measurement method: T, electric tape; . Water-level status: --, static.]

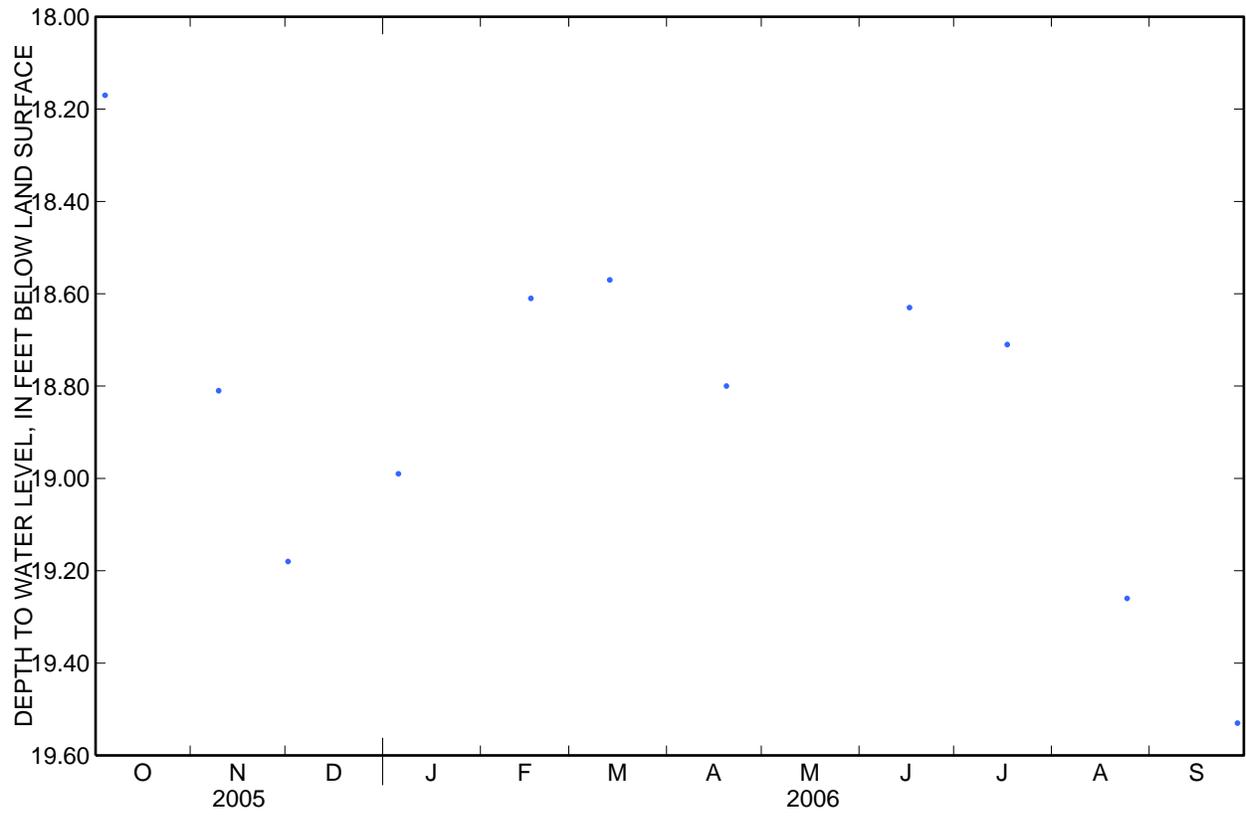
Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Oct 4	18.17	T	--	Apr 19	18.80	T	--
Nov 9	18.81	T	--	Jun 16	18.63	T	--
Dec 1	19.18	T	--	Jul 17	18.71	T	--
Jan 5	18.99	T	--	Aug 24	19.26	T	--
Feb 16	18.61	T	--	Sep 28	19.53	T	--
Mar 13	18.57	T	--				

Water year 2006 highest: 18.17 Oct 04, 2005; lowest: 19.53 Sep 28, 2006

Period of record highest: 15.83 May 09, 2005; lowest: 19.78 Nov 17, 2006

Record available from May 09, 2005, to Jan 25, 2007; 17 entries

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## 354305078295802 Local number WK-337, Raleigh Hydrogeologic Research Station WC-3I (Intermediate Zone)—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2005 to April 2006.

REMARKS.--Well is part of Piedmont/Mountains ground-water study.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 3

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

Date	Time	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., field, mg/L as CaCO3 (00419)
Oct 03...	1045	49	191.20	5.8	60	5.0	1,110	16.2	130	29.1	8.17	23.9	--
Apr 05...	1215	49	191.20	5.6	59	4.8	1,110	16.8	125	28.4	8.20	25.3	4

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 3

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

Date	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, wat fltrd by analysis, mg/L (62854)	Orthophosphate, water, fltrd, mg/L as P (00671)	Arsenic water, fltrd, ug/L (01000)
Oct 03...	--	--	30.6	<.10	34.6	.42	824	<.04	114	<.008	119	.014	--
Apr 05...	5	.24	30.8	<.10	32.3	.46	831	<.04	119	<.008	139	E.008	<.12

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**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 3

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

Date	Boron,	Iron,	Mangan-	Tritium	Tritium
	water,	water,	ese,	2-sigma	water
	fltrd,	fltrd,	water,	water	unfltrd
	ug/L	ug/L	fltrd,	unfltrd	unfltrd
	(01020)	(01046)	ug/L	pCi/L	pCi/L
	(01020)	(01046)	(01056)	(75985)	(07000)
<b>Oct</b>					
<b>03...</b>	--	<6	180	--	--
<b>Apr</b>					
<b>05...</b>	<7.0	<6	155	1.9	15