



Water-Data Report 2007

354328078295703 Local number WK-330, Raleigh Hydrogeologic Research Station WC-1D (Bedrock)

Piedmont and Blue Ridge crystalline-rock aquifers

Mafic Intrusive Igneous Rock

Wake County, NC

LOCATION.--Lat 35°43'29", long 78°29'57" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 9.3 mi east south east of Raleigh. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 342 ft, diameter 6.25 in., cased to 82 ft, open hole from 82 ft to 342 ft, diameter 6 in.

DATUM.--Land-surface datum is 169.27 ft above North American Vertical Datum of 1988. Measuring point: top of steel casing, 2.80 ft above land-surface datum, April 6, 2005, to present.

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

GAGE.--Measured periodically with electric and steel tape by NCDENR, Division of Water Quality and USGS.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.51 ft below land-surface datum, July 17, 2006; lowest water level measured 25.90 ft below land-surface datum, November 9, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

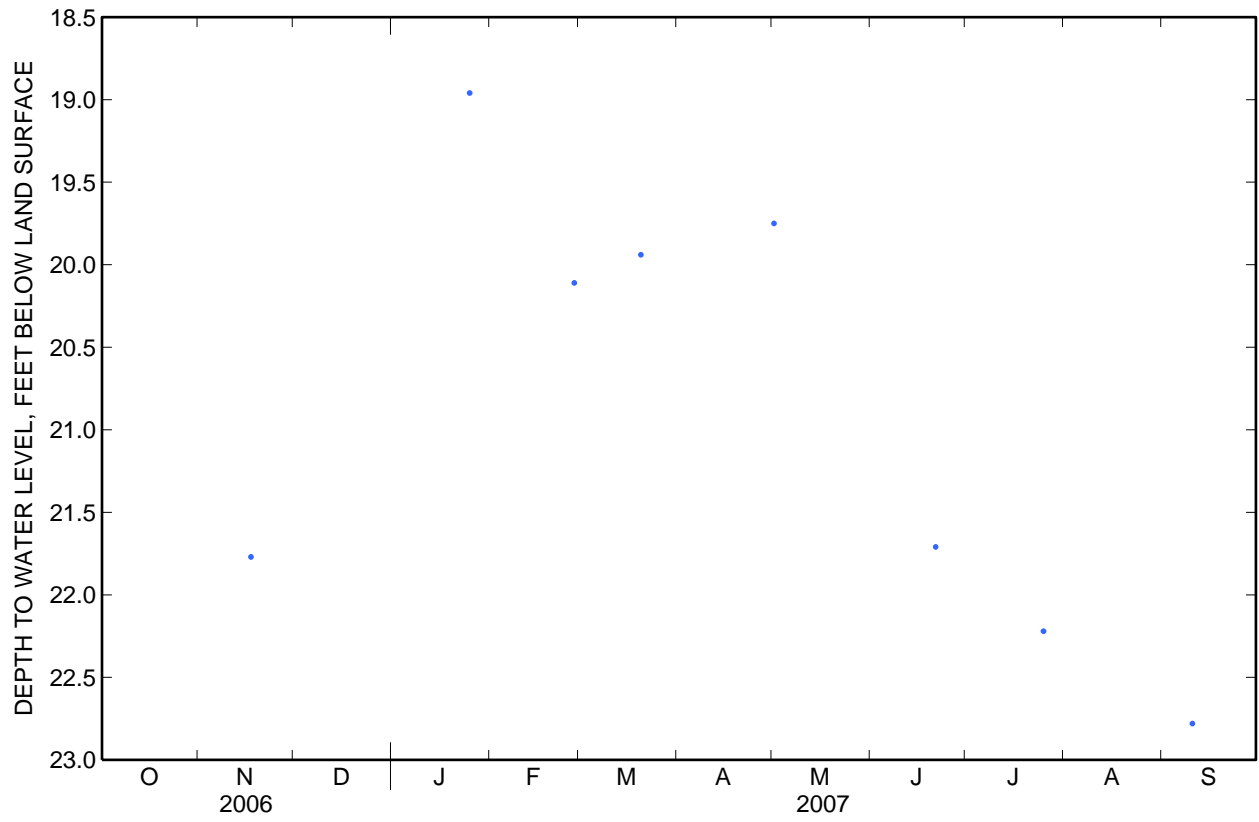
[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Nov 17, 2006	21.77	T	--	May 1, 2007	19.75	T	--
Jan 25, 2007	18.96	T	--	Jun 21	21.71	T	--
Feb 27	20.11	T	--	Jul 25	22.22	T	--
Mar 20	19.94	T	--	Sep 10	22.78	T	--

Highest: 18.96 Jan 25, 2007

Lowest: 22.78 Sep 10, 2007

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2006, 2007.

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

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 2

Date	Time	Depth of well, feet below LSD (72008)	Depth to top sample intrval below LSD (72015)	Water level, depth below MP, feet (61055)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Temper-ature, water, deg C (00010)	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 nitro-gen, wat flt by anal ysis, mg/L (62854)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Rn-222 2-sigma water, unfltrd pCi/L (76002)
Sep 10...	1140	342	77.00	25.58	754	.7	17.3	3.88	1.41	1.41	6.20	.006	15

**WATER-QUALITY DATA
WATER YEAR
OCTOBER 2006 TO
SEPTEMBER 2007**

Part 2 of 2

Date	Rn-222, water, unfltrd pCi/L (82303)
Sep 10...	20