



Water-Data Report 2007

355427080492701 Local number IR-181, DENR Allison Woods Research Station PZ-5 (Saprolitic Mafic Gneiss)

Piedmont and Blue Ridge crystalline-rock aquifers
Regolith

Iredell County, NC

LOCATION.--Lat 35°54'27.70", long 80°49'27.69" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03040102, 1.7 mi east of U.S. Interstate 77, 0.4 mi north of U.S. Highway 21 on Allison Woods Foundation property. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 36.9 ft. Upper casing diameter 1.00 in, top of first opening 31.9 ft, bottom of last opening 36.9 ft. Drilled observation well, depth 36.9 ft, diameter 1 in., cased to 31.9 ft, screened interval from 31.9 ft to 36.9 ft, sand filter packed from 24.5 ft to 36.9 ft.

DATUM.--Land-surface datum is 880 ft above North American Vertical Datum of 1988. Measuring point: divot on outer steel protective casing, 2.85 ft above land-surface datum, May 12, 2006, to present.

PERIOD OF RECORD.--May 2006 to current year.

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

REMARKS.--Well is part of Piedmont/Mountains groundwater project.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.20 ft below land-surface datum, May 12, 2006; lowest water level measured, 30.90 ft below land-surface datum, November 27, 2006.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

Date	Water level	Date	Water level
Oct 12, 2006	30.44	May 18, 2007	28.62
Nov 27	30.90	Jun 1	28.33
Jan 3, 2007	30.66	12	28.28
Feb 8	30.69	Jul 9	28.51
Mar 5	30.20	Aug 14	29.2
Apr 5	30.15	30	29.56
24	29.24	Sep 27	30.24

Highest: 28.28 Jun 12, 2007

Lowest: 30.90 Nov 27, 2006

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