



Water-Data Report 2007

353145080524701 Local number IR-151, DENR Langtree Research Station MW-41B (Transition zone well)

Piedmont and Blue Ridge crystalline-rock aquifers

Saprolite

Iredell County, NC

LOCATION.--Lat 35°31'45", long 80°52'47" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .3 mi north of Langtree Road at Davidson College Lake Campus. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 53 ft, diameter 4 in., cased to 38 ft, screened interval from 38 to 53 ft, sand filter packed with native fill 35 to 53 ft.

DATUM.--Land-surface datum is 802.93 ft above National Geodetic Vertical Datum of 1929 (levels by NCDENR). Measuring point: top of 4-inch PVC casing, well flush mounted, .03 ft below land-surface datum, March 26, 2001, to present.

PERIOD OF RECORD.--May 2001 to current year.

GAGE.--Measured periodically with steel and electric 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, 27.44 ft below land-surface datum, August 7, 2003; lowest water level measured, 37.10 ft below land-surface datum, December 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

| Date | Water level | Date | Water level |
|--------------|-------------|--------------|-------------|
| Apr 13, 2007 | 31.78 | Jul 26, 2007 | 33.44 |
| May 14 | 31.64 | Aug 16 | 33.51 |
| Jun 19 | 31.9 | Sep 14 | 33.67 |

Highest: 31.64 May 14, 2007

Lowest: 33.67 Sep 14, 2007

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