



Water-Data Report 2007

**353141080524702 Local number IR-146, DENR Langtree Research Station MW-1I (Transition zone well)**

Piedmont and Blue Ridge crystalline-rock aquifers

Saprolite

Iredell County, NC

LOCATION.--Lat 35°31'41", long 80°52'47" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .2 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 from 34 to 53 ft.

DATUM.--Land-surface datum is 812.65 ft above National Geodetic Vertical Datum of 1929 (levels by NCDENR). Measuring point: top of 4-inch PVC casing, 2.42 ft above land-surface datum, April 11, 2001, to present.

PERIOD OF RECORD.--January 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, 33.03 ft below land-surface datum, November 7, 2003, May 23, 2005; lowest water level measured, 41.89 ft below land-surface datum, November 22, 2002.

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

Date	Water level	Date	Water level
Apr 13, 2007	35.8	Jul 26, 2007	36.63
May 14	35.48	Aug 16	37.05
Jun 19	35.65	Sep 14	37.63

Highest: 35.48 May 14, 2007

Lowest: 37.63 Sep 14, 2007

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