



Water-Data Report 2009

353145080524703 Local number IR-153, NCDENR LANGTREE RESEARCH STATION MW-4D NEAR DAVIDSON, NC (BEDROCK)

Piedmont and Blue Ridge crystalline-rock aquifers
Intermediate Metaigneous Rock

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.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6.25 in., steel cased to 61 ft, initially open hole from 61 ft to 400 ft. Well modified in December 2001, 4 in. PVC liner installed to 69 ft, open hole from 69 ft to 400 ft.

DATUM.--Land-surface datum is 801.84 ft above NGVD of 1929, (levels by NCDENR). Measuring point: top of 4 in. PVC casing, 1.25 ft above land-surface datum.

PERIOD OF RECORD.--May 2001 to September 2009 (discontinued). Continuous record February 2002.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.20 ft below land-surface datum, August 7, 2003; lowest water level measured, 48.01 ft below land-surface datum, November 14, 2001.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

| Date | Water level | Date | Water level |
|--------------|-------------|--------------|-------------|
| Nov 18, 2008 | 44.25 | Apr 14, 2009 | 42.47 |
| Dec 9 | 44.35 | Jun 1 | 42.48 |
| Jan 13, 2009 | 44.16 | Jul 6 | 44.57 |
| Feb 25 | 44.75 | Aug 24 | 45.02 |
| Mar 30 | 42.52 | | |

Highest: 42.47 Apr 14, 2009

Lowest: 45.02 Aug 24, 2009

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