Water-Data Report 2008

353157080525302 Local number IR-149, NCDENR Langtree Research Station MW-3I near Davidson, NC (Transition Zone)

Piedmont and Blue Ridge crystalline-rock aquifers
Saprolite

Iredell County, NC

LOCATION.--Lat 35°31′57″, long 80°52′53″ referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .5 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 73 ft, diameter 4 in., cased to 43 ft, screened interval from 43 ft to 73 ft, native fill from 10 ft to 73 ft.

DATUM.--Land-surface datum is 762.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of 4 in. PVC casing, 0.26 ft below land surface datum, February 23, 2001, to present .

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

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

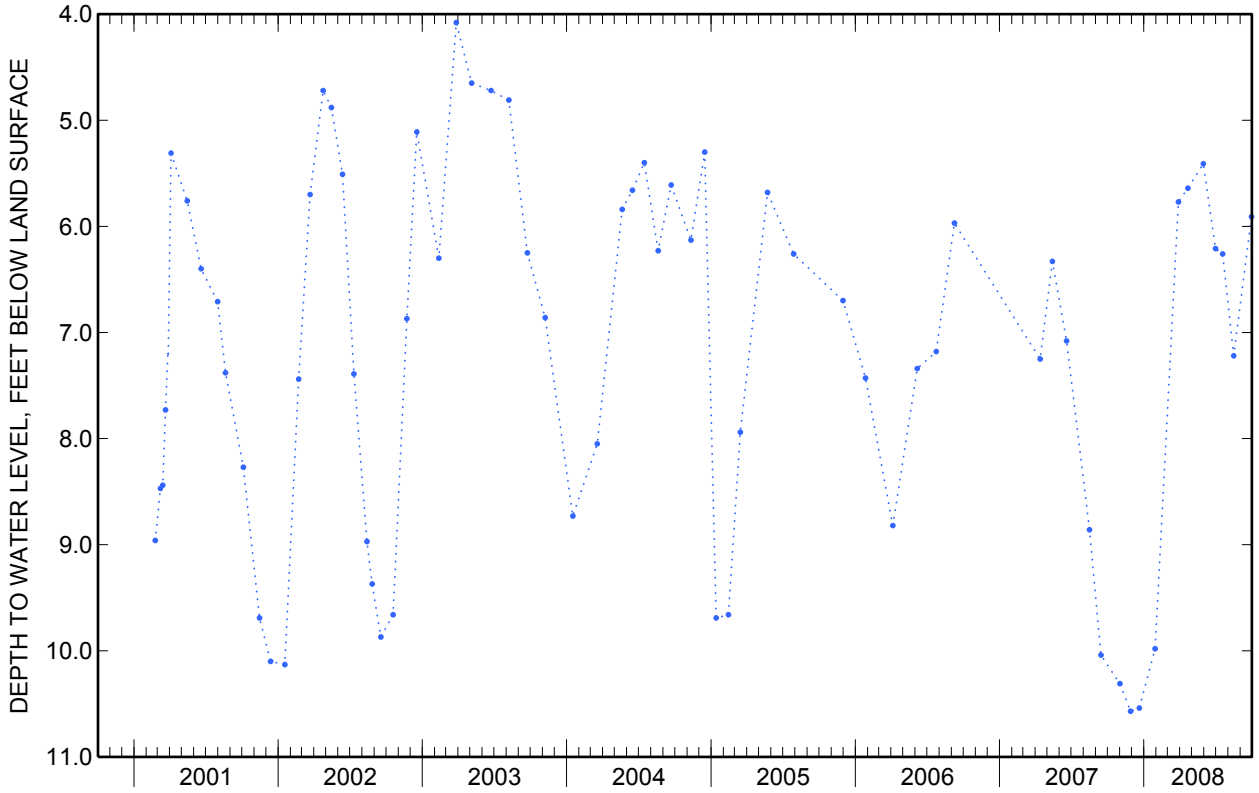
REMARKS.--Well is part of Piedmont/Mountains ground-water study. Possible well construction problems. Monitored zone may be connected to overlying regolith.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.08 ft below land-surface datum, March 27, 2003; lowest water level measured 10.57 ft below land surface datum, November 28, 2007.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level
Nov 1, 2007	10.31	May 30, 2008	5.41
28	10.57	Jun 30	6.21
Dec 20	10.54	Jul 18	6.26
Jan 29, 2008	9.98	Aug 15	7.22
Mar 28	5.77	Sep 29	5.91
Apr 21	5.64		

Highest: 5.41 May 30, 2008

Lowest: 10.57 Nov 28, 2007

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