



Water-Data Report 2011

383645077062401 Local number CH Bc 75

Northern Atlantic Coastal Plain aquifer system
Patuxent Formation

Charles County, MD

LOCATION.--Lat 38°36'45", long 77°06'24" referenced to North American Datum of 1927, Charles County, MD, Hydrologic Unit 02070011, Chapmans Landing.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 940 ft. Upper casing diameter 8 in; top of first opening 820 ft, bottom of last opening 923 ft. Drilled, observation, artesian well.

DATUM.--Land-surface datum is 124.59 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 12.45 ft below land-surface datum, June 1993 to present; Top of steel casing, 2.5 ft above land-surface datum, May 6, 2011, to present. Land Surface was graded on October 16, 1998 and is 14.95 feet below the original land surface. Measurements are referenced to the former land surface elevation in order to keep all values relative to each other.

PERIOD OF RECORD.--June 1993 to current year.

GAGE.--Water-level measurements by Maryland Geological Survey personnel.

REMARKS.--Charles County Groundwater-Level Monitoring Network observation well. Water levels are affected by regional groundwater withdrawal. A 48-hour aquifer test occurred on November 18-20, 1996. The lowest water level measured during this period was 82.53 ft below sea level on November 20, 1996.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.64 ft above sea level, September 26, 1994; lowest measured, 65.24 ft below sea level, September 16, 2011--See REMARKS.

**WATER SURFACE ELEVATION IN FEET NGVD 1929
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Nov 12	-58.34	T	--	May 6	-60.09	T	--
Dec 29	-58.16	T	--	Jun 15	-62.26	T	--
Mar 18	-60.94	T	--	Sep 16	-65.24	T	--

Water year 2011 lowest: -65.24, Sep 16, 2011, highest: -58.16, Dec 29, 2010

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