



Water-Data Report 2011

385718076211503 Local number QA Ea 81

Northern Atlantic Coastal Plain aquifer system
Aquia Formation

Queen Annés County, MD

LOCATION.--Lat 38°57'18", long 76°21'15" referenced to North American Datum of 1927, Queen Annés County, MD, Hydrologic Unit 02060002, at Matapeake State Park.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 310 ft. Upper casing diameter 4 in; top of first opening 300 ft, bottom of last opening 310 ft. Drilled, observation, artesian well.

DATUM.--Land-surface datum is 12.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.16 ft above land-surface datum, Aug. 24, 1990, to present.

PERIOD OF RECORD.--April 1985 to current year.

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

REMARKS.--Kent Island Groundwater Monitoring Network observation well. Water levels are affected by local groundwater withdrawal.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.54 ft below land surface, December 2, 1985; lowest measured, 13.93 ft below land surface, August 20, 2002.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
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
Apr 21	11.87	T	--	Sep 26	12.25	T	--
Aug 8	12.81	T	--				

Water year 2011 highest: 11.87, Apr 21, 2011; lowest: 12.81, Aug 8, 2011

385718076211503 Local number QA Ea 81—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1984, December 1988 to current year.

COOPERATION.--Samples and field data were collected by the Maryland Geological Survey.

WATER-QUALITY DATA**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

[mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Medium name	Sample type	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Sampling method (82398)	Chloride, water, filtered, mg/L (00940)
08-08-2011	1400	Groundwater	Regular	7.7	607	17.6	Submersible pump	73.2