



Water-Data Report 2012

364745076004301 Local number 62C 9 SOW 172A

Northern Atlantic Coastal Plain aquifer system
Upper Chesapeake Group

Virginia Beach City, VA

LOCATION.--Lat 36°47'46.02", long 76°00'41.51" referenced to North American Datum of 1983, Virginia Beach City, VA, Hydrologic Unit 03010205, at end of Phantom Blvd, 0.3 mi south of intersection of Phantom Boulevard and Harpers Road. Owner: Virginia Department of Environmental Quality.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 170 ft. Upper casing diameter 3.00 in; top of first opening 155 ft, bottom of last opening 165 ft. Drilled observation water well, screened 155 to 165 ft.

DATUM.--Land-surface datum is 17 ft above National Geodetic Vertical Datum of 1929. Measuring point: TOP OF CASING, 1.60 ft above land-surface datum, April 19, 1978, to present.

PERIOD OF RECORD.--April 1978 to current year. Unpublished records available October 1995 to September 2002 and prior to October 1985 in files of the USGS.

GAGE.--Occasional measurement with chalked tape by Virginia Department of Environmental Quality - Water Division personnel.

REMARKS.--Well is located in Yorktown-Eastover aquifer of Miocene-Pliocene age.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.46 ft below land-surface datum, Apr. 25, 1984; lowest measured, 13.96 ft below land-surface datum, July 5, 1995.

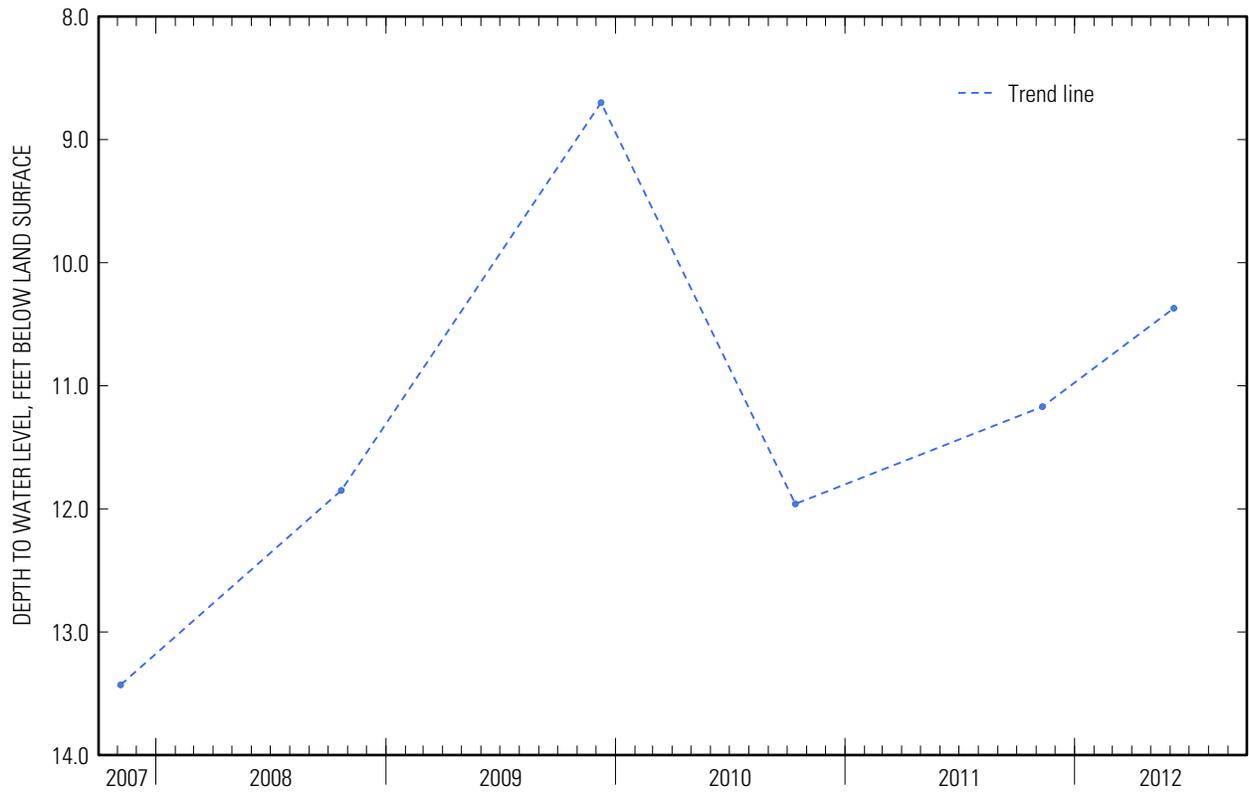
**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

[Measurement method: S, steel tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Nov 10	11.17	S	--	Jun 6	10.37	S	--

Water year 2012 highest: 10.37, Jun 6, 2012; lowest: 11.17, Nov 10, 2011

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WATER-QUALITY RECORDS

WATER-QUALITY DATA

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 of 4

[%, percent; CaCO₃, calcium carbonate; NTRU, nephelometric turbidity ratio unit; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; 121CSPKU, Upper Chesapeake Group; <, less than]

Date	Sample start time	Medium name	Sample type	Geologic unit code	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Flow rate, instantaneous, gallons per minute (00059)
06-06-2012	1600	Groundwater	Regular	121CSPK U	767	20.5	10.37	<1.0	1	5.0

WATER-QUALITY DATA

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 4

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Date	Sample start time	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broadband light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Sampling depth, ft (00003)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, filtered, mg/L (00915)
06-06-2012	1600	7.5	435	17.4	1.0	19.0	282	177	59.4

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 4

[%, percent; CaCO₃, calcium carbonate; NTRU, nephelometric turbidity ratio unit; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; 121CSPKU, Upper Chesapeake Group; <, less than]

Date	Sample start time	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Bromide, water, filtered, mg/L (71870)	Carbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)
06-06-2012	1600	6.88	5.25	20.8	179	218	0.102	<1.0	26.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 4

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Date	Sample start time	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Sulfide, water, unfiltered, field, milligrams per liter (99119)	Iron, water, filtered, μg/L (01046)	Manganese, water, filtered, μg/L (01056)
06-06-2012	1600	0.11	37.9	< .09	8.00	542	12.7