

Water-Data Report 2006

**365150076051101 Local number 62C 73.**

Northern Atlantic Coastal Plain aquifer system  
Upper Chesapeake Group  
Virginia Beach City, VA

LOCATION.--Lat 36°51'50.40", long 76°05'10.74" referenced to North American Datum of 1983, Virginia Beach City, VA, Hydrologic Unit 02080108, at Fire Station No. 20 on Little Neck Road in Virginia Beach. Owner: City of Virginia Beach.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 140 ft. Upper casing diameter 4 in; top of first opening 125 ft, bottom of last opening 140 ft. Drilled water well, screened 125 to 140 ft.

DATUM.--Land-surface datum is 15.51 ft above North American Vertical Datum of 1988. Measuring point: TOP OF PVC CASING, 1.33 ft above land-surface datum, Dec. 3, 1996, to present.

PERIOD OF RECORD.--July 2004 to current year.

GAGE.--Electronic data logger and pressure transducer, 15-minute record interval. Prior to June 14, 2005, occasional measurement with chalked tape by USGS personnel.

REMARKS.--Well is located in Yorktown-Eastover aquifer of Miocene-Pliocene age. Missing record due to recorder malfunction.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.81 ft below land-surface datum, May 16, 2006, may have gone higher during period of missing record, Dec 20, 2005 to July 13, 2006; lowest recorded, 44.41 ft below land-surface datum, Aug 29, 2006.

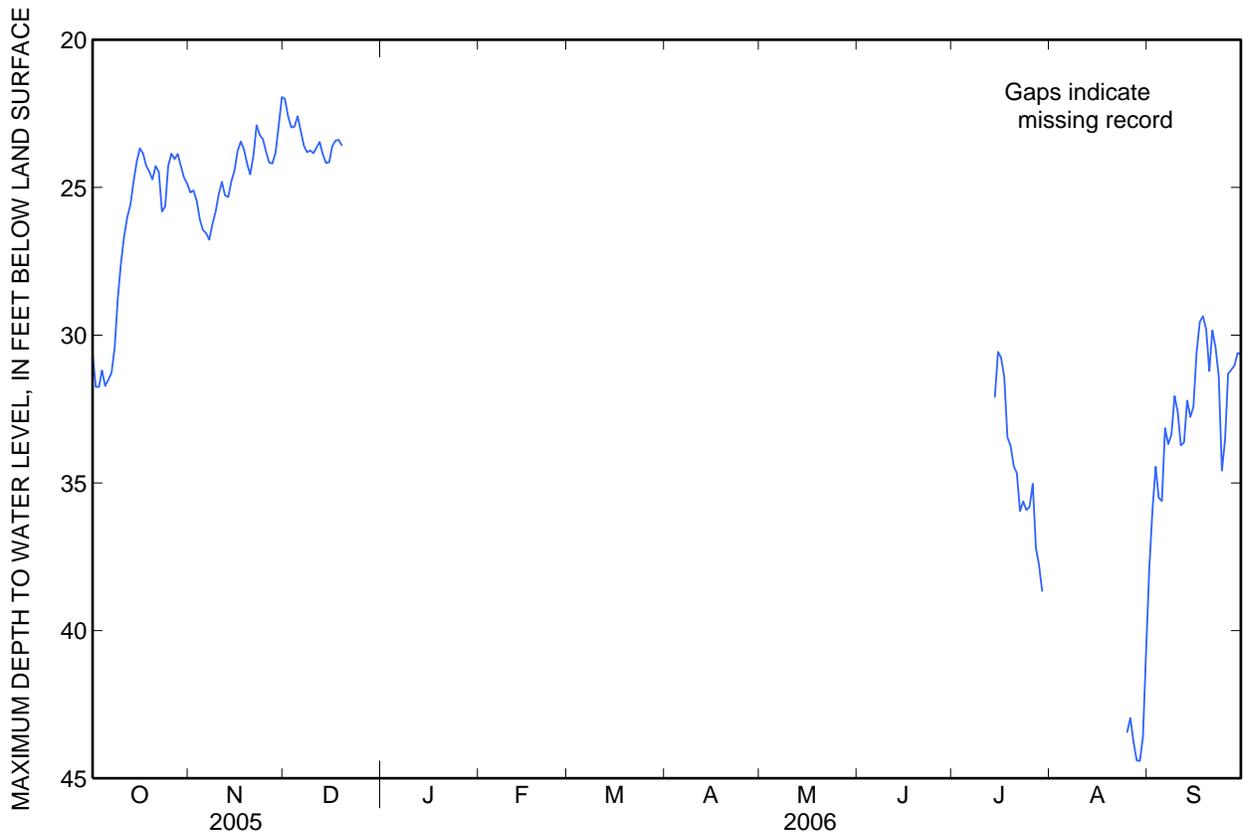
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 20.81 ft below land surface datum, May 16, may have gone higher during period of missing record, Dec 20, 2005 to July 13, 2006; lowest water level recorded, 44.41 ft below land surface datum, Aug 29.

365150076051101 Local number 62C 73.—Continued

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MAXIMUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30.64	25.17	22.01	---	---	---	---	---	---	---	---	37.88
2	31.75	25.10	22.59	---	---	---	---	---	---	---	---	35.91
3	31.75	25.45	22.97	---	---	---	---	---	---	---	---	34.45
4	31.20	26.09	22.94	---	---	---	---	---	---	---	---	35.50
5	31.72	26.44	22.59	---	---	---	---	---	---	---	---	35.61
6	31.51	26.55	23.07	---	---	---	---	---	---	---	---	33.15
7	31.28	26.77	23.58	---	---	---	---	---	---	---	---	33.69
8	30.41	26.24	23.81	---	---	---	---	---	---	---	---	33.36
9	28.78	25.82	23.75	---	---	---	---	---	---	---	---	32.06
10	27.58	25.24	23.84	---	---	---	---	---	---	---	---	32.57
11	26.66	24.81	23.66	---	---	---	---	---	---	---	---	33.73
12	26.00	25.27	23.46	---	---	---	---	---	---	---	---	33.63
13	25.58	25.33	23.88	---	---	---	---	---	---	---	---	32.21
14	24.81	24.79	24.17	---	---	---	---	---	---	32.09	---	32.76
15	24.14	24.44	24.15	---	---	---	---	---	---	30.57	---	32.43
16	23.68	23.76	23.61	---	---	---	---	---	---	30.76	---	30.58
17	23.85	23.45	23.42	---	---	---	---	---	---	31.41	---	29.55
18	24.27	23.72	23.39	---	---	---	---	---	---	33.46	---	29.36
19	24.47	24.21	23.57	---	---	---	---	---	---	33.75	---	29.80
20	24.73	24.56	---	---	---	---	---	---	---	34.44	---	31.21
21	24.28	23.94	---	---	---	---	---	---	---	34.67	---	29.84
22	24.47	22.90	---	---	---	---	---	---	---	35.95	---	30.41
23	25.82	23.22	---	---	---	---	---	---	---	35.63	---	31.38
24	25.64	23.37	---	---	---	---	---	---	---	35.92	---	34.58
25	24.28	23.78	---	---	---	---	---	---	---	35.81	43.43	33.52
26	23.86	24.16	---	---	---	---	---	---	---	35.03	42.96	31.31
27	24.04	24.19	---	---	---	---	---	---	---	37.21	43.77	31.17
28	23.87	23.83	---	---	---	---	---	---	---	37.76	44.39	31.02
29	24.29	22.91	---	---	---	---	---	---	---	38.66	44.41	30.60
30	24.66	21.94	---	---	---	---	---	---	---	---	43.60	30.65
31	24.87	---	---	---	---	---	---	---	---	---	40.68	---

365150076051101 Local number 62C 73.—Continued



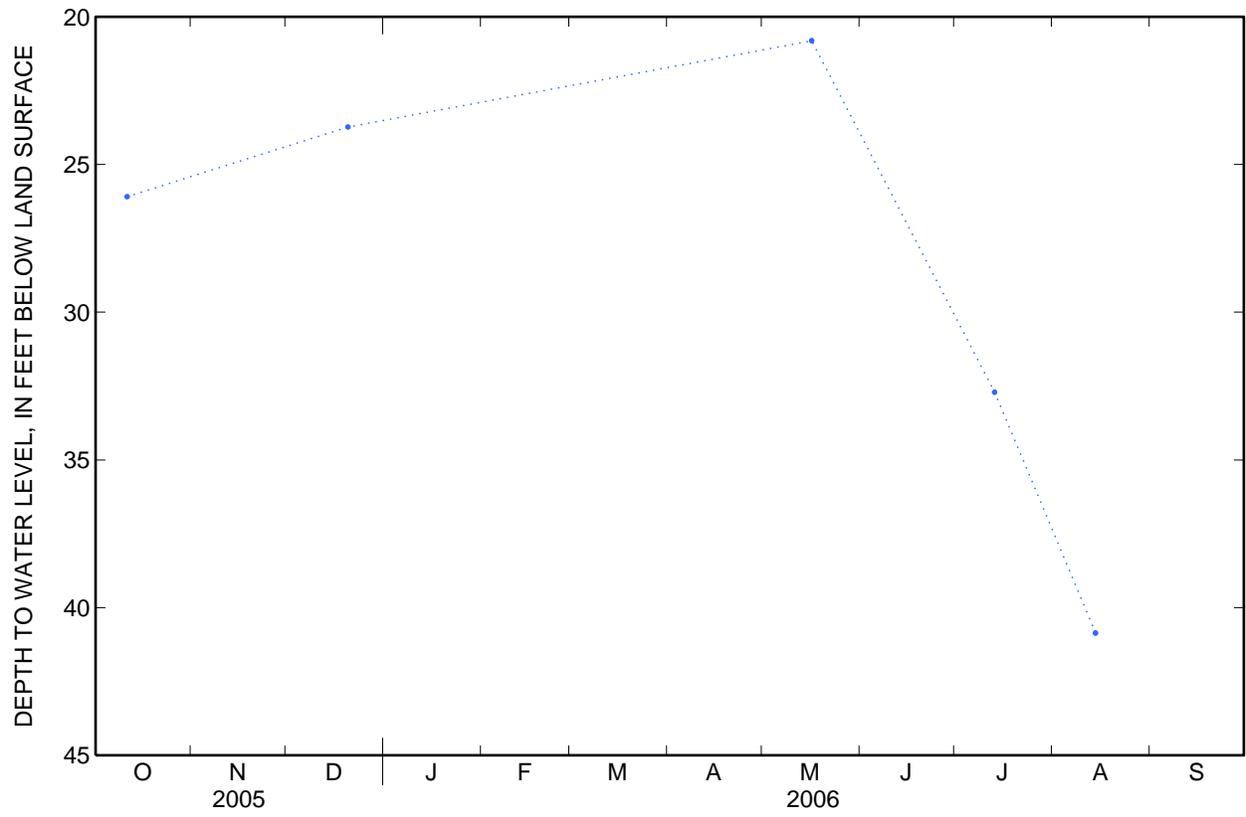
**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[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
Oct 11	26.09	S	--	Jul 13	32.71	S	--
Dec 20	23.73	S	--	Aug 14	40.86	S	--
May 16	20.81	S	--				

Water year 2006 highest: 20.81 May 16, 2006; lowest: 40.86 Aug 14, 2006

365150076051101 Local number 62C 73.—Continued



365150076051101 Local number 62C 73.—Continued

## WATER-QUALITY RECORDS

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 3

[Value qualifier codes: d, diluted sample: method hi range exceeded.]

Date	Time	Sample type	Geologic unit	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow period to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
Sep 12...	1255	Environmental	121CSPKU	32.57	15.51	38	770	.1	1	7.4	898	16.8

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 3

[Value qualifier codes: d, diluted sample: method hi range exceeded.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. field, mg/L (00453)	Carbonate, wat flt incrm. field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)
Sep 12...	26.0	14.8	14.3	136	190	230	.0	.63d	172	.5	21.5	5.1	517

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005  
TO SEPTEMBER 2006

Part 3 of 3

[Value qualifier codes:  
d, diluted sample: method hi  
range exceeded.]

Date	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)
Sep 12...	137	8.6