

GROUND-WATER LEVELS

CITY OF NEWPORT NEWS

371208076341103. Local number, 58F 52 SOW 171C.

LOCATION.--Lat 37°12'08", long 76°34'11", Hydrologic Unit 02080206, 0.4 mi southeast of the intersection of State Highways 143 and 238 and 150 ft north of State Highway 143 in the city of Newport News. Owner: Virginia Department of Environmental Quality.

AQUIFER.--Brightseat-upper Potomac aquifer of Cretaceous-Paleocene age.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 4 in., depth 537 ft, screened 527 to 537 ft.

INSTRUMENTATION.--Electronic pressure transducer data logger--60-minute record interval. Prior to April 24, 1996, digital recorder--60-minute punch. October 1993 to June 1994, occasional measurement with chalked tape by USGS personnel. Prior to October 1993, digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 55 ft above sea level, from topographic map. Measuring point: Top of casing, 2.0 ft above land-surface datum prior to Apr. 14, 1993; 3.1 ft thereafter.

REMARKS.--Missing record due to recorder malfunction. Water level affected by regional drawdown, nearby pumpage, and occasional pumpage for water-quality sampling. This well is known to contain dissolved solids greater than or equal to 1,000 mg/l.

PERIOD OF RECORD.--June 1984 to current year. Unpublished records available prior to October 1986 in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 128.12 ft below land-surface datum, Mar. 23, 1985; lowest measured, 161.40 ft below land-surface datum, May 19, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
LOWEST DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	141.18	---	---	---	153.20	157.34	156.80	158.77	149.08	145.01	144.27	149.24
10	140.60	---	---	156.51	155.37	158.51	157.63	158.25	147.61	144.79	144.25	149.86
15	140.09	---	---	155.70	156.25	158.87	154.66	160.69	146.50	144.58	144.04	150.27
20	144.48	---	---	154.23	157.17	159.05	153.66	160.61	146.02	144.45	143.86	146.39
25	145.08	---	---	153.78	158.08	159.66	156.34	157.91	145.48	144.30	146.53	148.67
EOM	---	---	---	155.21	156.83	160.25	158.21	151.71	145.15	144.21	148.36	149.46

WATER YEAR 1999 HIGHEST INSTANTANEOUS 139.84 OCT 12, 15, 1998
LOWEST INSTANTANEOUS 161.40 MAY 19, 1999

