



Water-Data Report 2006

**260737080103302 Local number G 2901R. USGS Observation Well near Fort Lauderdale, FL.**

Biscayne aquifer  
Biscayne Limestone Aquifer  
Broward County, FL

LOCATION.--Lat 26°07'38.0", long 80°10'32.9" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.5, T.50 S., R.42 E., Broward County, FL, Hydrologic Unit 03090202, 167 ft east of the west parking lot in Reverend Samuel Delevoe Park, southeast of the intersection of Sistrunk Boulevard and NW 27th Avenue. (Corrected).

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 205 ft, cased to 195 ft, screened 195 to 205 ft.

DATUM.--Land-surface datum is 4.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.45 ft above National Geodetic Vertical Datum of 1929, Feb. 10, 2003, to present.

PERIOD OF RECORD.--May 2003 to current year.

INSTRUMENTATION.--Quarterly measurement by chalked tape. Annual profile by induction logger. See REMARKS.

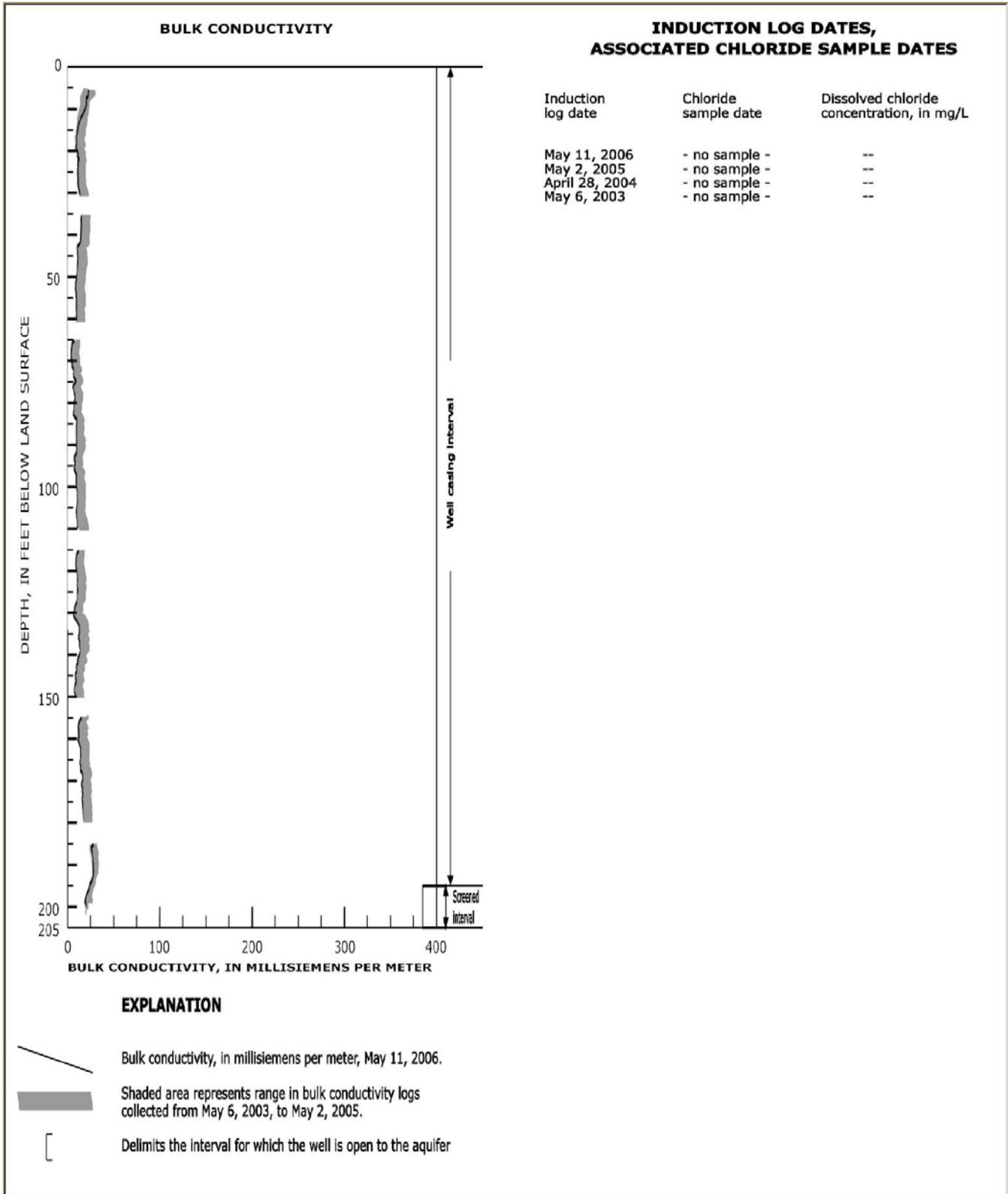
REMARKS.--G-2901R replaces G-2901, which had a separated casing and was 110 ft south-southwest of G-2901R. G-2901R can not be purged sufficiently for chloride-concentration sampling. Sampling was discontinued in January 2004. Induction logs are collected annually. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See [RECORDS OF BULK CONDUCTIVITY](#). Metal well centralizers were installed during well construction. Metal objects interfere with probe operation when present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.40 ft NGVD, Aug. 9, 2004; lowest, 1.09 ft NGVD, May 2, 2003.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005  
TO SEPTEMBER 2006**

Date	Time	Elevation, feet above NGVD (72020)
<b>Nov</b>		
15...	0859	2.77
<b>Feb</b>		
07...	1107	2.20
<b>May</b>		
11...	0808	1.20
<b>Jul</b>		
24...	0848	2.42

**INDUCTION LOG**



**260737080103302 Local number G 2901R. USGS Observation Well near Fort Lauderdale, FL.—Continued****LITHOLOGIC LOG****Lithologic log for Well 260737080103301. Local Number G -2901R**

<b>Depth interval (ft below land surface)</b>	<b>Lithologic description</b>
0 - 10	Quartz sand, tan to black, fine to very fine grained, grains are frosted and sub-angular to rounded; organic matter and concretions
10 - 15	Sandy carbonate mud with shell fragments
15 - 25	Quartz sand, tan, well sorted, fine to very fine grained, grains are frosted and sub-angular to sub-rounded, with carbonate mud and shell fragments
25 - 40	Quartz sand, tan, well sorted, fine to very fine grained, grains are frosted and sub-angular to sub-rounded
40 - 60	Quartz sand, white, well sorted, very fine grained, grains are sub-angular, with some heavy minerals near the bottom of the interval
60 - 90	Sandy fossiliferous limestone, tan to white, cemented with calcite, with concretions and heavy minerals; quartz sand with shell fragments and heavy minerals near the bottom of the interval
90 - 100	Quartz sand, very fine grained, grains are sub-angular, with concretions, shell fragments and heavy minerals
100 - 115	Quartz sand, tan, very fine grained, grains are clear and sub-angular, with shell fragments and heavy minerals; fossiliferous quartz sand with concretions, calcite cement, with shell fragments, and heavy minerals
115 - 125	Quartz sand, tan, very fine grained, grains are clear and sub-angular, with shell fragments and heavy minerals; sandy limestone with concretions and shell fragments
125 - 130	Limestone, white, fine grained, calcite cement, with concretions
130 - 135	Sandy limestone, white to tan, calcite cement, with concretions, shell fragments, and heavy minerals
135 - 160	Quartz sand, white to tan, very fine grained, grains are sub-angular, with shell fragments and heavy minerals; sandy limestone concretions with shell fragments, and heavy minerals
160 - 165	Quartz sand, tan to grey, very fine grained, grains are sub-angular, with shell fragments and heavy minerals; sand concretions, shell fragments, and heavy minerals
165 - 175	Quartz sand, tan, well sorted, very fine grained, grains are sub-angular, with heavy minerals and shell fragments
175 - 190	Quartz sand, tan to grey, fine to very fine grained, grains are sub-angular to sub-rounded, with concretions, shell fragments, heavy minerals, and concretions near the top of the interval
190 - 205	Quartz sand, tan to gray, very fine grained, grains are sub-rounded, with heavy minerals and shell fragments with concretions, shell fragments, and heavy minerals

Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL of well G-2901 which is 110 ft south-southwest of G-2901R.