

Water-Data Report 2012

255011080124501 Local number G -3947

Biscayne aquifer
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°50'11.3", long 80°12'45.4" referenced to North American Datum of 1983, in SW ¼ NE ¼ NE ¼ sec.14, T.53 S., R.41 E., Miami-Dade County, FL, Hydrologic Unit 03090202, 100 ft south of the intersection of NW 10th Avenue and NW 68th Street, about 0.4 mi west of U.S. Interstate 95, in Miami, FL.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 200 ft, diameter 2 in., cased to 170 ft, screened 170 to 180 ft, cased 180 to 200 ft.

DATUM.--Land-surface datum is 11.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: measuring point has been north side of top of 2-in. PVC casing, 11.43 ft above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 2011 to the current year. See REMARKS.

INSTRUMENTATION.--Monthly measurement with chalked steel tape or electric tape. Annual profile with electromagnetic induction logger. See REMARKS.

REMARKS.--Well is also used for salinity monitoring, including an annual induction log. Annual induction logs began in April 2011. Water-level measurements and salinity sampling began in January 2011. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See [RECORDS OF BULK CONDUCTIVITY](#).

In order to display changes in bulk conductivity between induction logs collected over the period of record, each log has been adjusted to a median conductivity value at a depth that corresponds to a stable lithologic feature which produces a consistent conductivity profile, based on data collected in 2011 and 2012. These adjustments compensate for small variations in equipment response resulting from variations in environmental conditions and/or probe calibrations. For this station, induction logs are adjusted to a mean response of 15.6 mS/m at a depth of 112 ft below land surface. The resulting plot of logs collected from 2011 to the current year is provided in this report. The original and corrected records of bulk conductivity, in millisiemens per meter, are available in files of the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--

WATER-LEVEL ELEVATION: Highest water level measured, 3.51 ft NGVD, July 20, 2012; lowest, 1.15 ft NGVD, June 8, 2011.

CHLORIDE CONCENTRATION: Highest measured chloride concentration, 30 mg/L, Jan. 18, Apr. 25, 2011; lowest, 23 mg/L, Sept. 27, 2012.

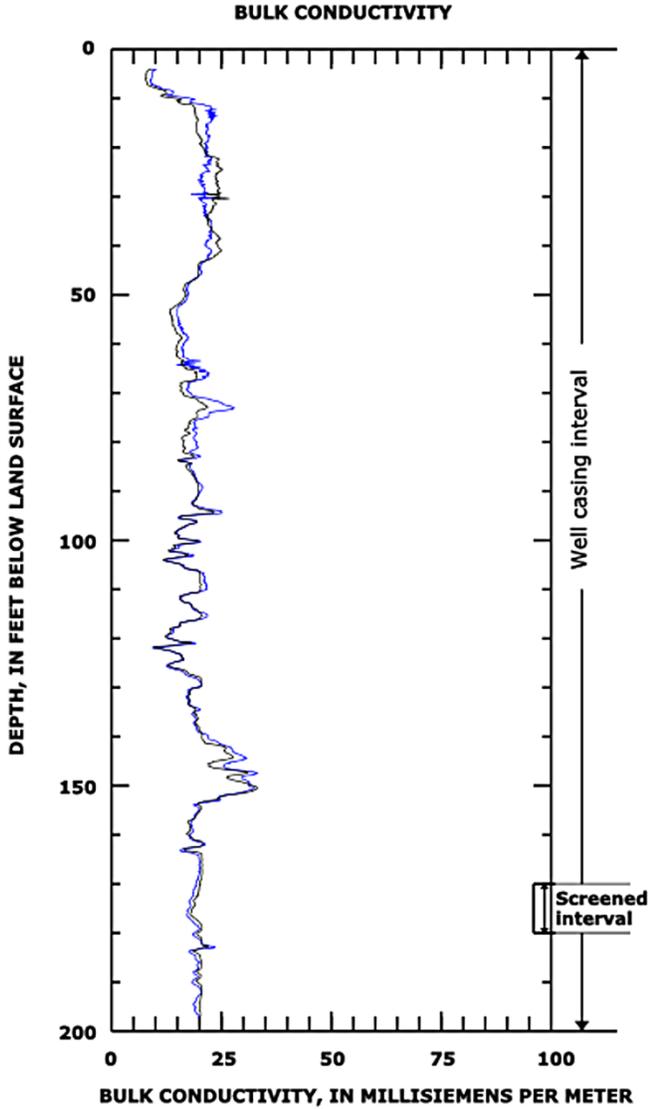
255011080124501 Local number G -3947—Continued**WATER-QUALITY DATA****WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

[NGVD, National Geodetic Vertical Datum; ft, feet; mg/L, milligrams per liter;
°C, degrees Celsius; $\mu\text{S}/\text{cm}$, microsiemens per centimeter]

Date	Sample start time	Specific conduc- tance, water, unfiltered, $\mu\text{S}/\text{cm}$ at 25°C (00095)	Elevation above NGVD 1929, ft (72020)	Chloride, water, unfiltered, mg/L (99220)
October 24, 2011	1455	532	3.12	28
November 23, 2011	1530	524	2.31	26
December 23, 2011	1335	529	1.76	28
January 23, 2012	1031	539	1.49	26
February 27, 2012	1218	526	1.83	28
March 16, 2012	1358	523	1.98	26
April 25, 2012	1053	517	1.92	26
May 17, 2012	1300	532	2.36	26
June 27, 2012	1409	530	2.03	26
July 20, 2012	0910	528	3.51	26
August 23, 2012	1216	522	2.13	28
September 27, 2012	1328	544	2.74	23



WY 2012 Induction log results
 Station: USGS 255011080124501
 Local name: G -3947



**INDUCTION LOG DATES,
 ASSOCIATED CHLORIDE SAMPLE DATES**

Induction log date	Chloride sample date	Dissolved chloride concentration, in mg/L
Apr. 25, 2012	Apr. 25, 2012	26
Apr. 25, 2011	Apr. 25, 2011	30