

Water-Data Report 2012

**253527080195401 Local number G -3886**

Biscayne aquifer  
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°35'27.9", long 80°19'54.2" referenced to North American Datum of 1983, in SW ¼ SW ¼ NW ¼ sec.3, T.56 S., R.40 E., Miami-Dade County, FL, Hydrologic Unit 03090202, about 7 ft east of the sidewalk, 210 ft north of the northeast corner of the intersection of SW 189th Street and SW 87th Avenue, 1.7 mi east of U.S. Highway 1.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.-- Drilled, observation, water-table well, depth 101 ft, diameter 2 in., cased to 86 ft, screened 86 to 91 ft, cased 91 to 101 ft.

DATUM.--Land-surface datum is 10.17 ft above National Geodetic Vertical Datum of 1929. Measuring point: From Dec. 10, 2009, to present, measuring point has been top of casing, 9.54 ft above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 2010 to October 2010 (quarterly), January 2011 to current year. See REMARKS.

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

REMARKS.--Well is also used for salinity monitoring, including an annual induction log, starting in April 2010. 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 2010 and 2011. 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 14.8 mS/m at a depth of 58.6 ft below land surface. The resulting plot of logs collected from 2010 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 PERIOD OF RECORD.--

WATER-LEVEL ELEVATION: Highest water level measured, 3.56 ft NGVD, Aug. 15, 2011; lowest, 1.19 ft NGVD, June 16, 2011.

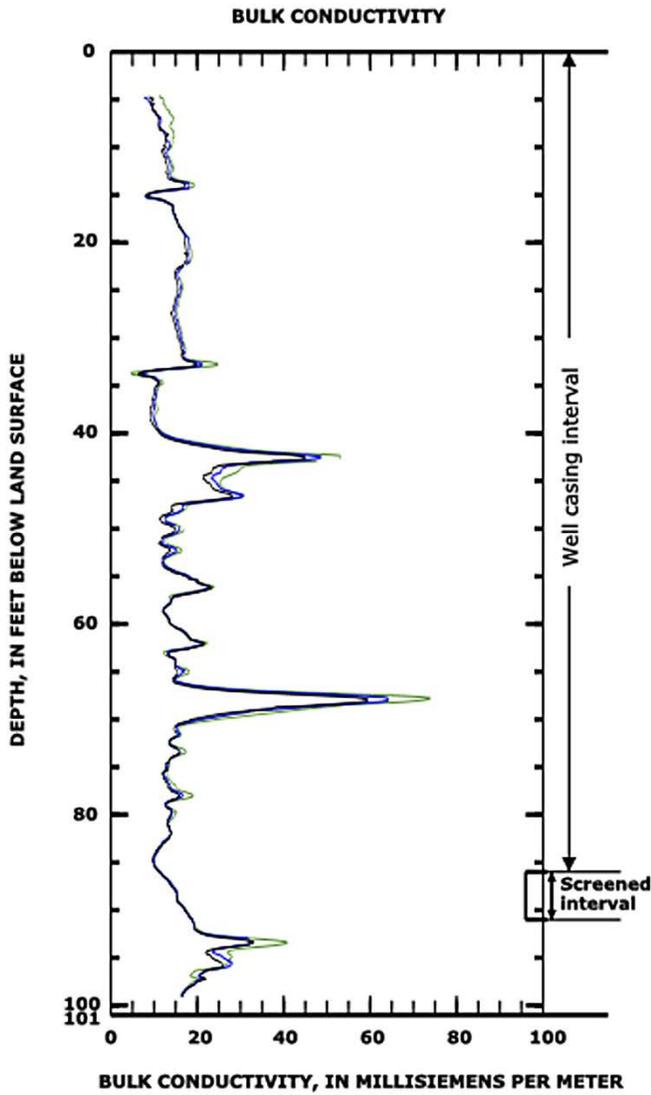
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**WATER-QUALITY DATA****WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**[NGVD, National Geodetic Vertical Datum; ft, feet; mg/L, milligrams per liter;  
°C, degrees Celsius;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter]

<b>Date</b>	<b>Sample start time</b>	<b>Specific conduc- tance, water, unfiltered, <math>\mu\text{S}/\text{cm}</math> at 25°C (00095)</b>	<b>Elevation above NGVD 1929, ft (72020)</b>	<b>Chloride, water, unfiltered, mg/L (99220)</b>
<b>October 21, 2011</b>	<b>1056</b>	640	3.15	52
<b>November 17, 2011</b>	<b>1222</b>	637	2.51	50
<b>December 22, 2011</b>	<b>1201</b>	647	2.20	52
<b>January 18, 2012</b>	<b>1428</b>	649	1.98	50
<b>February 24, 2012</b>	<b>1148</b>	639	2.47	52
<b>March 14, 2012</b>	<b>1339</b>	634	2.26	50
<b>April 17, 2012</b>	<b>1434</b>	625	2.54	52
<b>May 16, 2012</b>	<b>1235</b>	642	2.56	50
<b>June 21, 2012</b>	<b>1338</b>	643	2.89	50
<b>July 12, 2012</b>	<b>1147</b>	635	2.67	50
<b>August 24, 2012</b>	<b>1147</b>	627	2.45	50
<b>September 20, 2012</b>	<b>1306</b>	650	2.77	48



WY 2012 Induction log results  
 Station: USGS 253527080195401  
 Local name: G -3886



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

Induction log date	Chloride sample date	Dissolved chloride concentration, in mg/L
Apr. 17, 2012	Apr. 17, 2012	52
Apr. 7, 2011	Apr. 7, 2011	52
Apr. 8, 2010	Apr. 8, 2010	48