

Water-Data Report 2012

254335080170501 Local number G 432. USGS Observation Well near Coral Gables, FL.

Biscayne aquifer
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°43'35.9", long 80°17'03.3" referenced to North American Datum of 1983, in NW ¼ SW ¼ SW ¼ sec.19, T.54 S., R.41 E., Miami-Dade County, FL, Hydrologic Unit 03090202, at the northwest corner of intersection of Blue Road and Alhambra Circle, 28 ft west of Alhambra Circle and 6 ft north of Blue Road.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 99.5 ft. Upper casing diameter 2.5; top of first opening 97.5 ft, bottom of last opening 99.5 ft.

DATUM.--Land-surface datum is 11.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: From Sept. 29, 2005, to present, measuring point has been top of casing, 11.54 ft above National Geodetic Vertical Datum of 1929 (NGVD). From June 25, 1962, to Sept. 29, 2005, measuring point was top of casing, 11.99 ft above NGVD. See REMARKS.

PERIOD OF RECORD.--October 1983 to October 1984 (semiannual), February 1985 to April 1985 (weekly), January 1986 to April 1986 (monthly), October 1986 to October 1990 (semiannual), November 1990 to current year. See REMARKS.

INSTRUMENTATION.--Monthly water-level measurement with chalked steel tape or electric tape.

REMARKS.--This well has been used for salinity monitoring since May 1946. Water-level elevation measurements began in October 1983. The well casing was severed approximately 5 in. from the top of casing in 2005, as a result of cleanup activity in the area after Hurricane Katrina. The station was reconstructed and the top of casing measuring point restored Sept. 29, 2005. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--

WATER-LEVEL ELEVATION: Highest water level measured, 4.37 ft NGVD, Nov. 28, 1994; lowest, 0.11 ft NGVD, Apr. 15, 1985.

CHLORIDE CONCENTRATION: Highest measured chloride concentration, 5,844 mg/L, Sept. 27, 2012; lowest, 20 mg/L, May 3, 1948.

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; µS/cm, microsiemens per centimeter]

Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Elevation above NGVD 1929, ft (72020)	Chloride, water, unfiltered, mg/L (99220)
October 6, 2011	0945	15,500	1.67	5,100
November 21, 2011	1427	15,950	2.36	5,100
December 20, 2011	1638	15,450	1.50	5,200
January 11, 2012	1515	15,800	.87	5,200
February 3, 2012	1609	15,630	.91	5,300
March 23, 2012	1529	16,000	1.26	5,300
April 25, 2012	1420	15,800	1.37	5,300
May 17, 2012	1443	15,970	1.83	5,400
June 27, 2012	1650	15,860	2.88	5,400
July 17, 2012	1730	16,120	3.16	5,600
August 23, 2012	1300	15,630	2.03	5,400
September 27, 2012	1448	16,060	2.79	5,844