

Water-Data Report 2012

252947080235301 Local number G 1180. USGS Observation Well in Homestead, FL.

Biscayne aquifer
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°29'53.1", long 80°24'12.5" referenced to North American Datum of 1983, in NW ¼ SE ¼ sec.2, T.57 S., R.39 E., Miami-Dade County, FL, Hydrologic Unit 03090202, 23 mi southwest of Miami, 3 mi southeast of U.S. Highway 1, at Homestead Air Force Base.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 67 ft, diameter 9 in. See REMARKS.

DATUM.--Land-surface datum is 6.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: From Nov. 28, 1979, to present, measuring point has been top of casing, 6.91 ft above National Geodetic Vertical Datum of 1929. Prior to May 7, 2001, measuring point was top of casing, 6.46 ft above NGVD. Prior to October 1999, measuring point was incorrectly considered to be 5.46 ft above NGVD. See REMARKS.

PERIOD OF RECORD.--November 1979 (intermittently), June 1983 to March 1997 (monthly), April 1997 to September 2008 (quarterly), October 2008 to current year.

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

REMARKS.--Well also used for salinity monitoring. Salinity monitoring performed intermittently from December 1961 to July 1971, monthly since February 1973. Revised measuring point May 7, 2001, is from top of well reconstruction. Figures of water levels as elevation, in ft NGVD, prior to October 1999, are in error. Corrected records are available in the files of the U.S. Geological Survey. Chloride samples are collected 57 ft below land surface because of an obstruction at 58 ft. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--

WATER-LEVEL ELEVATION: Highest water level measured, 4.70 ft NGVD, July 28, 1983; lowest, 0.50 ft below NGVD, Feb. 25, 1985.

CHLORIDE CONCENTRATION: Highest measured chloride concentration, 78 mg/L, Dec. 5, 1989; lowest, 9 mg/L, June 10, Aug. 12, 2009, Dec. 3, 2009, Sept. 26, 2012.

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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]

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 21, 2011	1340	347	2.20	22
November 18, 2011	1109	360	1.75	21
December 21, 2011	1205	420	1.69	26
January 12, 2012	1020	459	1.66	24
February 17, 2012	1107	429	1.88	25
March 13, 2012	1240	478	1.74	26
April 13, 2012	1346	457	1.54	30
May 14, 2012	1508	372	2.22	18
June 21, 2012	1538	370	2.36	16
July 10, 2012	1534	369	2.37	14
August 24, 2012	1150	361	2.05	16
September 26, 2012	1247	365	2.18	9.0