

265428080364501 Local number PB -1816

Surficial Aquifer System

Palm Beach County, FL

LOCATION.--Lat 26°54'27.9", long 80°36'45.3" referenced to North American Datum of 1983, Palm Beach County, FL, Hydrologic Unit 03090202, 0.6 mi south of the L-8 canal, east of the Herbert Hoover Dike along Lake Okeechobee.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 128.16 ft. Upper casing diameter 2; top of first opening 115 ft, bottom of last opening 120 ft.

DATUM.--Land-surface datum has not been surveyed to geodetic datum. Measuring point: From Aug. 16, 2011, to present, measuring point has been top of casing.

PERIOD OF RECORD.--August 2011 to current year. See REMARKS.

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

REMARKS.--Well is also used for salinity monitoring, including monthly induction logs beginning August 2011. Induction logs are used to assess the movement of the fresh-water/salt-water interface in groundwater. 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 from 2011 to the current year. 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 672.4 mS/m at a depth of 94.8 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 PERIOD OF RECORD.--

WATER-LEVEL: Highest water level measured, 6.72 ft below top of casing measurement point, Dec. 13, 2011; lowest, 9.06 ft below top of casing measurement point, Aug. 16, 2011.

CHLORIDE CONCENTRATION: Highest measured chloride concentration, 15,000 mg/L, Aug, 16, Oct. 26, 2011; lowest, 14,000 mg/L, many days during water year 2012.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Specific conductivity, water, unfiltered, µS/cm at 25°C (00095)	Water level, depth below measuring point, feet (61055)	Chloride, water, unfiltered, mg/L (99220)
August 16, 2011	0848	43,600	9.06	15,000

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WATER-QUALITY DATA**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**[mg/L, milligrams per liter; °C, degrees Celsius; μ S/cm, microsiemens per centimeter]

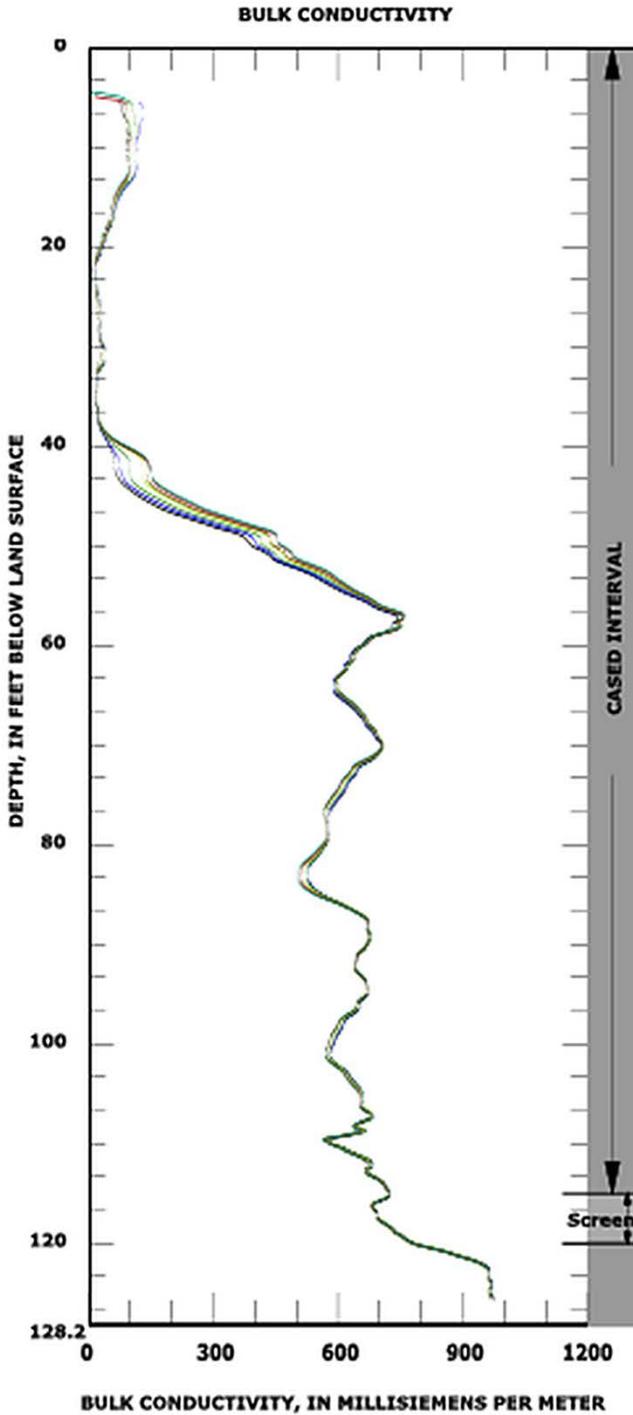
Date	Sample start time	Specific conductivity, water, unfiltered, μS/cm at 25°C (00095)	Water level, depth below measuring point, feet (61055)	Chloride, water, unfiltered, mg/L (99220)
October 26, 2011	1027	44,300	7.45	15,000
December 13, 2011	1140	43,500	6.72	14,000
February 23, 2012	0916	42,900	7.07	14,000
April 25, 2012	0806	41,800	7.69	14,000
July 17, 2012	0851	43,500	7.70	14,000
August 20, 2012	0946	42,400	7.82	14,000



WY 2012 Induction log results

Station: USGS 265428080364501

Local name: PB -1816



INDUCTION LOG DATES,
ASSOCIATED CHLORIDE SAMPLE DATES

Induction log date	Chloride sample date	Dissolved chloride concentration, in mg/L
Aug. 16, 2011	Aug. 16, 2011	15,000
Oct. 26, 2011	Oct. 26, 2011	15,000
Dec. 13, 2011	Dec. 13, 2011	14,000
Feb. 23, 2012	Feb. 23, 2012	14,000
Apr. 24, 2012	Apr. 24, 2012	14,000
July 17, 2012	July 17, 2012	14,000
Aug. 20, 2012	Aug. 20, 2012	14,000