

Water-Data Report 2007

251341080291200 STILLWATER CREEK NEAR HOMESTEAD, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°13'41", long 80°29'12" referenced to North American Datum of 1927, T.60 S., R.38 E., Miami-Dade County, FL, Hydrologic Unit 03090202, located on the left bank near the mouth, 8 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1999 to September 1999 (gage heights only); October 1999 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good except for August 8 to September 7, which are poor. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 200 ft³/s June 22, 2005; maximum negative, 206 ft³/s Sept. 5, 2004.

GAGE HEIGHT: Maximum gage height, 2.38 ft Oct. 24, 2005(estimated); minimum, -1.84 ft Jan. 24, 2003.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 137 ft³/s July 3; maximum negative, 130 ft³/s Sept. 9.

GAGE HEIGHT: Maximum gage height, 0.29 ft Sept. 26; minimum, -1.34 ft Feb. 9.

251341080291200 STILLWATER CREEK NEAR HOMESTEAD, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP): April 1999 to May 2007.

SALINITY (BOTTOM): May 2001 to current year.

WATER TEMPERATURE (TOP): April 1999 to May 2007.

WATER TEMPERATURE: (BOTTOM): May 2001 to current year.

INSTRUMENTATION.--Water-quality monitor with top and bottom sensors.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Oct. 17, Nov. 21 to Dec. 5, rated good. Salinity (BOTTOM) record rated excellent. Temperature (TOP) record rated excellent except for the following periods: Oct. 1-17, Dec. 6 to May 30, record rated good. Temperature (BOTTOM) record rated excellent. Salinity and temperature sensors located at -2.98 ft NAVD 88 (TOP) and -3.59 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP): Maximum recorded, 44.7 ppt June 2, 2005; minimum recorded, 0.5 ppt Oct. 5, 2000.

SALINITY (BOTTOM): Maximum recorded, 45.0 ppt June 2, 2005; minimum recorded, 0.6 ppt Sept. 18, 2002, July 2, 3, 2003, Sept. 29, 30, 2005, Oct. 1, 2, 2005.

WATER TEMPERATURE (TOP): Maximum recorded, 35.8°C Aug. 10, 2005; minimum recorded, 11.8°C Jan. 1, 2001.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.4°C Aug. 29, 2004; minimum recorded, 10.7°C Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 36.7 ppt May 27; minimum recorded, 1.5 ppt Oct. 1.

SALINITY (BOTTOM): Maximum recorded, 37.6 ppt May 30, 31; minimum recorded, 1.6 ppt Oct. 1.

WATER TEMPERATURE (TOP): Maximum recorded, 32.3°C Oct. 14; minimum recorded, 14.2°C Feb. 19.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.1°C July 20; minimum recorded, 14.3°C Feb. 19.