

## 251209080350100 MUD CREEK AT THE MOUTH NEAR HOMESTEAD, FL

LOCATION.--Lat 25°12'09", long 80°35'01", T.60 S., R.37 E., Miami-Dade County, Hydrologic Unit 03090202, left bank upstream of mouth, 9 mi northwest of Key Largo, FL.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 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.

REMARKS.--Records good. 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, 341 ft<sup>3</sup>/s Sept. 8, 2004; maximum negative, 380 ft<sup>3</sup>/s Sept. 26, 2004.

GAGE HEIGHT: Maximum gage height, 1.93 ft Oct. 15, 1999; minimum, -1.76 ft Mar. 10, 1996.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 341 ft<sup>3</sup>/s Sept. 8; maximum negative, 380 ft<sup>3</sup>/s Sept. 26.

GAGE HEIGHT: Maximum gage height, 1.47 ft Sept. 26; minimum, -1.46 ft Feb. 18.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP AND BOTTOM): October 1995 to current year.

WATER TEMPERATURE (TOP AND BOTTOM): October 1995 to current year.

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

REMARKS.--Salinity (TOP) record rated excellent. Salinity (BOTTOM) record rated excellent except for the following periods: Oct. 6 to Nov. 16, Mar. 23 to Apr. 6 and Aug. 23 to Sept. 7, rated good; Nov. 17 to Dec. 2, rated fair. Temperature (TOP AND BOTTOM) record rated good. Salinity and temperature sensors located at -2.35 ft NAVD (TOP) and -3.1 ft NAVD (BOTTOM). 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, 41.0 ppt July 9, 2004, but may have been higher during period of missing record; minimum recorded, 0.2 ppt Nov. 15-17, 2003, but may have been lower during period of missing record.

SALINITY (BOTTOM): Maximum recorded, 40.9 ppt July 9, 2004, but may have been higher during period of missing record; minimum recorded, 0.3 ppt Oct. 5-18, 2003, and Nov. 15-18, 2003, but may have been lower during period of missing record.

WATER TEMPERATURE (TOP): Maximum recorded, 36.6°C July 26, 27, 1999, but may have been higher during period of missing record; minimum recorded, 10.1°C Jan. 18, 1997, but may have been lower during period of missing record.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.7°C July 25, 1999, but may have been higher during period of missing record; minimum recorded, 10.2°C Jan. 19, 1997, but may have been lower during period of missing record.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 41.0 ppt July 9, but may have been higher during period of missing record; minimum recorded, 0.2 ppt Nov. 15-17, but may have been lower during period of missing record.

SALINITY (BOTTOM): Maximum recorded, 40.9 ppt July 9, but may have been higher during period of missing record; minimum recorded, 0.3 ppt Oct. 5-18, and Nov. 15-18, but may have been lower during period of missing record.

WATER TEMPERATURE (TOP): Maximum recorded, 35.6°C Aug. 27, but may have been higher during period of missing record; minimum recorded, 13.1°C Dec. 21, but may have been lower during period of missing record.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.8°C Aug. 29, but may have been higher during period of missing record; minimum recorded, 13.2°C Dec. 21, but may have been lower during period of missing record.