

**SOLS WASH TRIBUTARY AT US 93
FCD GAGE ID# 7028**

STATION DESCRIPTION

LOCATION – The gage is located about 4 miles north of the junction of SR89 and US93. The gaging equipment is located about 500 feet west of US 93 near milepost 191. Latitude N 34° 03' 7.1"; Longitude W 112° 51' 1.2". Located in the SW1/4 NE1/4 S11 T8N R6W in the Flores 7.5-minute quadrangle.

ESTABLISHMENT – Gaging was established on January 30, 2002.

DRAINAGE AREA – The drainage area is about 6.5 mi².

GAGE – The gage is a pressure transducer type instrument. The transducer diaphragm is at elevation 0.07 feet gage height, levels of February 11, 2002.

There is one crest gage at this location. The pin elevation is at 0.46 feet gage height, levels of February 11, 2002.

There is no staff gage at this location.

ZERO GAGE HEIGHT – Zero gage height is defined as the concrete pad in front of the pressure transducer as installed on January 30, 2002. Elevation is 2,580.00 feet MSL.

HISTORY – No previous history at this location.

REFERENCE MARKS –

RM-SOLS93 is an FCD brass cap located about 5 feet south of the gage standpipe. Elevation 5.73 feet gage height, or 2,585.73 feet MSL, from the USGS topographic map, levels of February 11, 2002. Northing and Easting are both arbitrarily set at 5000 feet.

CHANNEL AND CONTROL – The channel is straight for about 750 feet downstream from the gage. The channel bottom is silty sand, with few cobbles. Both banks are vegetated with moderate mesquite, greasewood, and palo verde. The channel is control for all flows to about 800 cfs. Beyond this discharge, flow will spread out of the channel into the unconfined overbanks in cross sections downstream.

RATING – The current rating is Rating #1, applied as of gage installation. The rating is based on survey data from seven cross sections. An HEC-RAS model was developed from the survey data.

DISCHARGE MEASUREMENTS – Indirect discharge measurements could be made in the three cross sections (5 – 7) reach downstream of the gage. Direct measurements could be made by wading the channel at low flows.

POINT OF ZERO FLOW – The PZF is at about 0.00 feet gage height, levels of February 11, 2002.

FLOODS – The peak discharge recorded to date is 967 cfs and 3.40 feet gage height, occurring on July 25, 2007.

REGULATION – None known, but there may be some stock tanks upstream

DIVERSIONS – None known

ACCURACY – Fair

UPDATE - July 20, 2011
D E Gardner