WEEKES WASH AT BASELINE ROAD
FCD GAGE ID# 39207

STATION DESCRIPTION

LOCATION - The gage is located on Baseline Road between Idaho and Tomahawk Roads. Latitude 33° 22' 43.2" North; Longitude 111° 32' 15.0" West. Located in S04 T1S R8E, in the Apache Junction 7.5-minute quadrangle.

ESTABLISHMENT - The gage was installed May 27, 2008.

DRAINAGE AREA – 11.9 square miles, via USGS Streamstats.

GAGE - The gage is a pressure transducer type instrument. The PT diaphragm is at gage height 0.20 feet, levels of December 20, 2018. The PT is located on the south side of Baseline Road on the right bank of the channel.

There is no crest-stage gage at this site.

There is no staff gage at this site.

ZERO GAGE HEIGHT – Zero gage height is at the toe of the right bank at the gage cross section. It is equivalent to 1,620.356 feet NAVD88, levels of December 20, 2018.

HISTORY – Gaging established on May 27, 2008. No previous gaging history at this location.

REFERENCE MARKS

BM-6753 is an FCDMC brass cap located just inside the fence south of Baseline Road. It is at elevation 10.954 feet gage height and 1,631.310 feet NAVD88, levels of December 20, 2018.

RM-1 is an ADOT brass cap located on the right bank about 100 feet south of Baseline Road. Elevation 9.351 feet gage height, and 1,629.707 feet NAVD88, levels of December 20, 2018.

RM-2 is a rebar on the top of the left bank. It is at elevation 10.572 feet gage height and 1,630.928 feet NAVD88, levels of December 20, 2018.

RM-3 is a rebar on top of the right bank. It is at elevation 10.304 feet gage height and 1,630.660 feet NAVD88, levels of December 20, 2018.

RP-1 is a chiseled 'X' located in front of the transducer gage. It is at elevation 0.002 feet gage height, levels of December 20, 2018.

CHANNEL AND CONTROL - The channel is concrete lined for about 300 feet downstream from Baseline Road. After this point it is believed to revert to a natural condition. Channel shape is trapezoidal.

The control for the gage is not defined at low flows. The channel is the control at higher stages of about 1 foot.

RATING –

The current rating is Rating #2, developed from a January 2021 survey of seven cross sections. The data were used in developing an HEC-RAS model. Rating is valid for Water Year 2021 and forward.

The previous rating, was developed from a survey of six cross sections at and downstream of the road. Data were used in an HEC-RAS model.

DISCHARGE MEASUREMENTS - Direct measurements would be possible in the channel at low flows. Anything above about 1.5 feet should not be attempted. The sides of the channel are very steep.

POINT OF ZERO FLOW - The PZF is at about 0.0 feet gage height.

FLOODS – The largest flow recorded was 1,624 cfs at 7.24 feet gage height on July 24, 2017.

REGULATION - None known.

DIVERSIONS - None known

ACCURACY - Fair

JUSTIFICATION - Monitor flows into Powerline FRS for dam safety reasons.

UPDATED - January 12, 2021
D E Gardner