

**WINTERS WASH AT INDIAN SCHOOL ROAD
GAGE ID #5098**

STATION DESCRIPTION

LOCATION – The station is located near Tonopah along Indian School Road, about 1 mile east of 411th Avenue. Located in S19 T2N R6W and at N 33° 29' 37.8" or 33.4938° and W 112° 55' 4.0" or -112.9178°, in the Tonopah 7.5-minute quadrangle.

ESTABLISHMENT – The station was installed July 14, 2005.

DRAINAGE AREA – Approximately 42 mi².

GAGE – There is one level sensor at this location. The pressure transducer measures level within the stream. The sensor elevation is 0.50 feet gage height. There is also a status sensor located near the right bank. It measures the presence of water above a certain level. The off (normal) level of the status sensor is 1.74 feet gage height. All levels are taken February 19, 2009.

There is no crest-stage gage at this location.

There is no staff gage at this location.

ZERO GAGE HEIGHT ELEVATION – Zero gage height is defined as 1,093.40 feet NAVD 1988.

HISTORY – No history at this location prior to station installation. Station was installed July 14, 2005. Pressure transducer and status sensor were moved January 5, 2009 to accommodate channel changes.

REFERENCES –

RP-1 is a rebar set on top of the right bank about 50 feet west of the station tube. Elevation 8.32 feet gage height, or 1,101.72 feet NAVD 1988, levels of February 19, 2009.

CHANNEL AND CONTROL – The channel is natural, but with some engineered controls within the reach. The right bank at the gage cross section is protected with gabions. Just downstream is the Indian School Road crossing, which is the control for the gage. Farther downstream, the wash is channelized to pass through the I-10 crossing. Downstream of the freeway bridges, the channel is natural with high banks and almost non-existent overbanks.

Indian School road acts as the control at the gage. The road acts mainly as a weir for flows with flow rate 2,500 cfs and below. Above this quantity, the weir becomes submerged and channel flow predominates.

RATING – The rating is Rating #1, created from surveyed data used in an HEC-RAS model. Flows were generally at critical depth when weir flow prevailed.

DISCHARGE MEASUREMENTS – Discharge measurements could be made in the reach downstream from Indian School Road or downstream from I-10.

POINT OF ZERO FLOW – The point of zero flow is at Indian School Road and is at approximately 1.5 feet gage height.

FLOODS – Runoff of 966 cfs and 3.42 feet gage height occurred January 21, 2010.

REGULATION – The CAP canal is located about six miles north of the wash location.

DIVERSIONS – The CAP canal may divert some water to other drainages.

ACCURACY – Poor

JUSTIFICATION – Monitor flow for Indian School Road dip crossing.

UPDATE – July 21, 2011
David Gardner