

**LAVEEN BASIN
FCD GAGE ID# 4578**

STATION DESCRIPTION

LOCATION – The gage is located at the southeast corner of 43rd Avenue and Southern Avenue in Phoenix. The gage instrumentation is located at the outlet from the basin on the west side of the basin. Latitude N33° 23' 25.3", Longitude W 112° 09 2.7. Located in the NW1/4 NW1/4 S34 T1N R2E in the Fowler 7.5-minute quadrangle.

ESTABLISHMENT – The gage was installed on November 7, 2006.

DRAINAGE AREA – Not determined

GAGE – The gage is a pressure transducer type instrument, located at 0.20 feet gage height, or 1,001.40 feet M.S.L., levels of November 15, 2006.

There is no staff gage at this location.

There are no crest gages at this location.

ZERO GAGE HEIGHT - Zero gage height is defined as the invert of the 36-inch culvert and is equal to 1,001.20 feet M.S.L.

HISTORY – No history prior to gage establishment. Gage was established on November 7, 2006.

REFERENCE MARKS –

None currently established.

CHANNEL AND CONTROL – The primary outlet for the basin is a 72-inch pipe that empties into the Salt River to the north. The inlet works consist of two gated orifices.

PRIMARY / AUXILIARY OUTLET –

The primary outlet is a 72-inch culvert pipe out to the Salt River. The primary outlets are two gated 36-inch orifice. The lower orifice is at 0.0 feet gage height or 1,001.20 feet and the upper orifice is at 5.80 feet gage height, or 1,007.00 feet.

There is a spillway for the basin, at the west end of the basin. From the design, the minimum elevation is 1,020 feet or 18.8 feet gage height.

Top of the basin is at approximately 20 feet gage height, or 1,021.2 feet M.S.L.

RATING – The current discharge rating, Rating #1, is from the design report, 43rd Avenue Detention Basin Design Report, 100% Submittal, from March 1999.

The current capacity rating is Rating #1 from the same source as the discharge rating.

DISCHARGE MEASUREMENTS – Discharge measurements are not possible at this location.

POINT OF ZERO FLOW – The PZF is the inlet invert of the 36-inch culvert. Elevation 0.00 feet gage height, levels of November 15, 2006.

FLOODS / SIGNIFICANT IMPOUNDMENTS – An event occurred on August 29, 2008 with a peak stage of 9.43 feet gage height, and volume of 31.5 acre-feet.

REGULATION – The basin captures local runoff in the area.

DIVERSIONS – None known

ACCURACY – Good

JUSTIFICATION – Monitor levels in basin.

UPDATE – August 17, 2011
D E Gardner