



HRC PERFORMED SPILLWAY INUNDATION

studies for flows over the emergency spillway of McMicken Dam; an earthen dam located northwest of the intersection of Grand Avenue and the Loop 303 Freeway in Surprise, AZ. This detailed study covered a portion of north central Maricopa County, including portions of the cities of Surprise and El Mirage, AZ. The project management team provided mapping coordination and production, hydrology, and HEC-RAS analysis in combination with flow split and weir flow analyses to identify potential inundation limits. Floodplain delineations were prepared for the overtopping of the one-third, two-thirds, and full flow discharges. Existing topographic mapping was supplemented with new aerial mapping for areas surrounding the spillway.

Client: Flood Control District of Maricopa County

McMicken Dam Spillway Delineation Study

Hydraulics | Hydrology