Prospect Dam is an earthen embankment dam located in Weld County, CO, about 40 miles northeast of Denver. The dam was constructed in 1914 as an un-zoned earthen dam and was classified as a significant hazard dam. The dam was 43.5 feet high, 5,300 feet long, and 14 feet wide at the crest. The dam was constructed with a 2:1 upstream slope protected by 4 to 6 inches of concrete lining. The reservoir had the storage capacity of 6,367 acre-feet of water. Prospect Reservoir was operated under an irrigation district to provide irrigation water for local farms. Prospect Dam failed on February 10, 1980. The primary cause of the failure was due to uncontrolled seepage through the embankment, which cause a piping failure and breach of the embankment. The resulting breach was approximately 83 feet wide and occurred near the south end of the dam where the embankment height was 15 feet. The total volume of water released was approximately 2,870 acre-feet of water with an estimated peak flow of 2,100 cfs based on post breach measurements. The flood wave resulting from the dam failure flowed northeast inundating rural homes and farmland, and flowed toward Lord Reservoir. precautions were taken to prevent further damage and the overtopping of Lord Dam, a low hazard dam storing 1,454 acre-feet. Sand bags were placed on top of Lord Dam to prevent overtopping. Also, dozers were mobilized to Prospect Dam and closed the breach by constructing a coffer dam. Lord Dam did not overtop, and there were no casualties resulting from the Prospect Dam failure. A forensic investigation was carried out by the SEO and the District’s engineer. Conclusions drawn from the investigation pointed to a piping failure resulting from the combination of foundation seepage along a sand layer and improper filter material along the toe drain within the breach area. The foundation seepage caused movement of material from the embankment, through the toe drain filter material, and into the toe drain pipe. Since the failure, Prospect dam has been repaired and continues to operate under the irrigation district to provide irrigation water to the surrounding area.