



Buckeye FRS No. 1 Rehabilitation Project

Buckeye Flood Retarding Structures

The Buckeye Flood Retarding Structures (FRS) No. 1, 2, and 3, located just north of Interstate 10, are prominent drainage features within the Buckeye/Sun Valley ADMS study area. This series of three flood control dams and connecting flood channels was built in the early '70s by the Soil Conservation Service (now the Natural Resources Conservation Service, NRCS) under local sponsorship by the Flood Control District of Maricopa County (District). Currently, the District operates and maintains the Buckeye Structures. These structures have provided valuable flood protection for Interstate 10, other infrastructure, the Town of Buckeye, and surrounding farming operations for the past 30 years by intercepting storm runoff from the White Tank Mountains.



How the Structures Work

The three Buckeye Structures collect stormwater runoff from the north and work in a series to move floodwaters from the easternmost dam, No.3, westward to No.2 and finally to No.1 where the water is released into the adjacent Hassayampa River.

Identifying the Need for Rehabilitation

The District regularly inspects, monitors, and maintains the Buckeye Structures. As the structures age, maintenance needs have increased. Several non-emergency dam safety deficiencies have been identified at Buckeye FRS No.1, and the District is analyzing alternatives to correct the deficiencies, maintain the flood control benefits to downstream properties, and comply with state dam safety requirements. Approaches initially under consideration include structural improvements to the existing dam or replacing it with other types of flood protection such as detention basins, channels, and levees. The District has applied for federal cost-share assistance from the NRCS to help fund these rehabilitation efforts.

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Project Elements

Project tasks include engineering studies, incorporation of multi-use and landscape aesthetics, development of alternatives, public meetings, and alternative selection. Additional technical services may include biological, archaeological, and other environmental studies. Alternatives to be considered will include dam rehabilitation, replacement with another type of flood control system such as detention basins and drainage channels, or combinations of these. The District is very interested in coordinating this project with the Buckeye and Sun Valley ADMPs and, where possible, incorporating other efforts such as the proposed Maricopa Regional Trail Phase 3 Master Plan. Additionally, the District is looking for interested stakeholders to partner with in the pursuance of federal funds to provide a separate multi-use recreational component in the rehabilitation project.

Project Schedule

Phase I - Planning/Pre-Design	Complete December 2007
Phase II - Final Design	2008 to 2009
Phase III - Construction	To be Determined—Pending Funding

The estimated schedule for design and construction is contingent upon approval of federal funding assistance.

