

**Glen Annie Reservoir Safety of Dams Rehabilitation Project
(2011-C-57)****Project Ranking**

83%

Total Estimated Cost: \$33,500,000*Federal share: \$28,475,000**MU Share: \$5,025,000**(SOD Act Repayment over time)***Background**

Glen Anne is one of four regulating reservoirs on the Cachuma Project facilities. Glen Anne Reservoir had an initial storage capacity of 500AF. Due to seismic stability requirements and risk of failure potentially causing catastrophic damage downstream, the maximum capacity was limited to 375AF in 1988. In 2002 it was limited again to 175 AF maximum capacity. Glen Anne Reservoir is no longer in service, but COMB continues regular maintenance and inspections as required by the USBR.

Need for Project

The ability to store water in all system reservoirs is critical to water delivery during a shutdown of the Tecolote Tunnel. Further, Glen Anne is important as a balancing reservoir to enable work on other system reservoirs and appurtenances to the SCC. The inoperability of Glen Anne impacts all Member Agencies.

Raw water storage in the Upper Reach is critical to allow the Tecolote Tunnel to shut down for repairs while allowing Goleta Water District to continue to deliver water to their customers. This can be accomplished by upgrading Glen Anne Reservoir and Dam. This project will benefit all of the Member Agencies on the South Coast, by providing additional storage capacity, increase efficiency and reliability of COMB facilities, reduce the complexity of shut-downs, simplify scheduled repairs of the Tecolote Tunnel and aid in fire protection and flood control.

Description

Dam seismic safety and other operational problems that exist because of deterioration would be addressed. Adjacent pumps and delivery system piping will be restored to operability. Remediation components will likely include removing the silt to allow operation at designed capacity and replacement of deteriorated 12 inch thick asphaltic concrete liner.

Seismic retrofit will like include installation of shear key and berm installed down to the bedrock to resolve the existing potential for liquefaction.

Phase I (Fiscal Year 18-19): Investigation of project phasing and potential grant funding

Phase II (Fiscal Year 19-20): Initial studies and preliminary Engineering

Phase III (Fiscal Year 20-21): Engineering

Phase IV (Fiscal Year 21-22): Construction

Regulatory Compliance

Environmental Review performed by USBR

Budget & Schedule	Internal Staff Estimate
Fiscal Year	Cost
2018-19 (Phase I)	\$ 0
2019-20 (Phase II)	\$ 0
2020-21 (Phase III)	\$ 0
2021-22 (Phase IV)	\$ 0
Total	\$33,500,000 (15% SOD Act repayment)