

Proposition 1E Stormwater Flood Management Grant Proposal

Lake Wohlford Dam Replacement Project

Attachment 10: Cost and Benefits Summary

Attachment 10 consists of the following items:

- ✓ **Cost and Benefits Summary.** This attachment contains a summary of the costs and benefits associated with this grant proposal.

This attachment contains an overall estimate of the costs and benefits of the *Lake Wohlford Dam Replacement Project* by providing a summary of the cost and benefit information from Attachments 7, 8, and 9.

Costs and Benefits Summary

The benefits that are anticipated to result from implementation of this proposal are summarized below in Table 10-1, and the cost-benefit overview is summarized in Table 10-2.

Table 10-1: Benefits Summary

Type of Benefit	Assessment Level	Beneficiaries
Flood Damage Reduction Benefits		
Avoided Flood Damages	Monetized	Local and Regional
Water Supply Benefits		
Avoided Water Imports	Monetized	Local and Regional
Water Supply Reliability	Qualitative	Local and Regional
Water Quality and Other Benefits		
Avoided Sediment and Water Quality Degradation	Quantitative	Local and Regional
Recreational Benefits	Quantitative	Local and Regional
Increased Local Habitat	Quantitative	Local and Regional

Table 10-2: Benefit-Cost Analysis Overview

	Present Value (\$2009)
Costs – Total Capital and O&M	\$23,491,081
Monetizable Benefits	
Avoided Flood Damages	\$14,129,660
Avoided Water Imports	\$52,620,972
Qualitative Benefits	
	Qualitative Indicator*
Water Supply Reliability	+
Avoided Sediment and Water Quality Degradation	+
Recreational Benefits	+
Increased Local Habitat	+

* Magnitude of effect on net benefits

+/- (negligible or unknown); + (moderate positive); ++ (significant positive); - (moderate negative); -- (significant negative)

Table 10-3 provides an overview of the costs and benefits of the *Lake Wohlford Dam Replacement Project*. As described in Attachments 7, 8, and 9, the proposed project would result in monetized flood damage reduction and water supply benefits. The overall benefit-cost ratio for the *Lake Wohlford Dam Replacement Project* is 2.84.

Table 10-3: Costs and Benefits Summary

Table 20 – Proposal Project Costs and Benefits Summary for Proposition 1E							
Project	Agency	Total Present Value Project Costs	Total Present Value Project Benefits				Benefit/ Cost Ratio
			Water Supply	Flood Damage Reduction	Water Quality and Other	Total	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
<i>Lake Wohlford Dam Replacement Project</i>	City of Escondido	\$23,491,081	\$52,620,972	\$14,129,660	\$0	\$66,750,632	2.84
TOTAL		\$23,491,081	\$52,620,972	\$14,129,660	\$0	\$66,750,632	2.84