

Summary Sheet

Applicant:	City of Redlands	BMS No. 2010FPCP0035
Project Name:	Flood Control and Water Conservation Program OR Opal Basin Improvement and Judson Street Agricultural Preserve Project	
County:	San Bernardino	
Location:	Detention basin site is located at the corner of Citrus and Opal Avenues. The citrus grove agricultural conservation area is on the east side of Judson Street between Lugonia Avenue and San Bernardino Avenue	
Problem to Be Fixed:	<p>During storm events, flooding causes damage to properties along the historic Mission Creek/ Zanja Channel (Zanja system). At the confluence of the channel with the Redlands Boulevard Storm Drain system east of downtown, flooding damage affects critical facilities in the downtown area, specifically:</p> <ul style="list-style-type: none"> • Flood waters along the Zanja system are estimated to reach 3,200 cfs but the channel flow capacity is currently as low as 140 cfs resulting in flooding in Redlands. • Peak flow rates in downtown Redlands are estimated at 6,100 cfs with existing conveyance capacity limited to 2,800 cfs and with flood depths of 1 to 3 feet. • Flooding impacts 6,417 residents, essential facilities, roads, the historic District, and commercial areas, which encompass an area of approximately 57.4 acres. 	
Project Description:	The project will create a detention basin to intercept peak flows from the Zanja system and tributaries. It will protect the inlet diversion, outlet discharge, and spillway using rip-rap, and will conserve a city-owned citrus parcel (27 acres) in perpetuity.	
Flood Benefits:	<p>Preliminary hydraulic and hydrologic analysis showed that the project will do the following:</p> <ul style="list-style-type: none"> • Intercept peak flows from the Zanja system and tributary and retain water for recharge (100 ac-ft) or detain water for low flow release (613 ac-ft) • Of the 830 ac-ft of transitory storage needed to provide 100-year flood protection, the detention basin will provide 613 ac-ft of storage for up to 24 hours due to a low flow outlet and will maintain 485 ac-ft of flood control volume • Reduce current peak flows (3,200 cfs) by 600 cfs in Redlands • Fully protect Redlands downtown in a 25-year flood event • Reduce the Redlands 100-year flood zone 60% • Reduce 100-year flood impact to 4,504 people and reduce downtown business impacts by 1,453,565 sq. ft. • Improve emergency response services by reducing flooding of routes used by emergency personnel and the frequency of flood events. The channel crosses 12 major arterials that will be available during storm events after project is complete. 	
Wildlife Benefits:	N/A	
Agricultural Benefits:	Preserve and maintain 27 acres of existing citrus orchards	
Total Project Cost:	\$5,700,000	
FCP Project Cost	\$5,000,000	

Assembly District No. and Representative Name:	Assembly District 63: Mike Morrell
Senate District No. and Representative Name:	Senate District 31: Bob Dutton