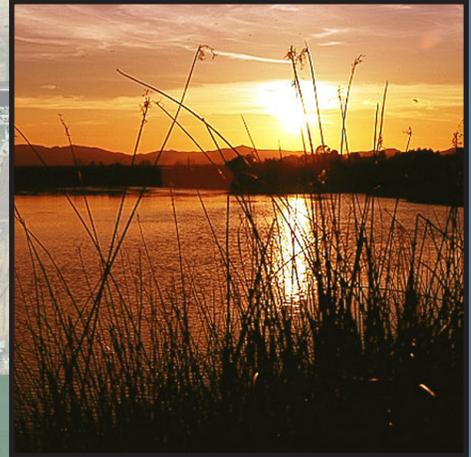


**Contra Costa Water District
Proposition 1E Grant Proposal
Attachment 11**

Program Preferences



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**East Contra Costa County Region
Contra Costa Water District
Stormwater Flood Management Grant Proposal**

**ATTACHMENT 11 –
PROGRAM PREFERENCES**

<u>Program Preferences</u>	<u>Page</u>
Contra Costa Canal Levee Elimination and Flood Protection Project	11-1

This attachment discusses how this proposal addresses the program preferences outlined in Section II.F of the Integrated Regional Water Management Guidelines. In accordance with the PSP, the following pages:

- ✓ Identify the specific Program Preferences that the Proposal will meet
- ✓ Discuss the certainty that the Proposal will meet the program preferences
- ✓ Discuss the breadth and magnitude by which the Program Preference will be met.

Program Preferences Addressed by Proposed Project

The Contra Costa Canal Levee Elimination and Flood Protection Project (Project) achieves multiple Program Preferences. Of particular significance, there is a **HIGH DEGREE OF CERTAINTY** that the Project will provide *long-term drought preparedness* at the **LOCAL, REGIONAL, and STATEWIDE** levels. Over the life of the Project, approximately 344,000 AF of Delta supply required for blending and achieving Delta water quality goals will be conserved.

The table below identifies the Program Preferences addressed by the proposed Project. A more detailed discussion of the program preferences addressed by the Project and the certainty, breadth and magnitude by which the Preference will be met follows.

Program Preference	Addresses Preference?	Certainty of Benefits	Breadth and Magnitude of Benefits
Regional Project	Yes	High	Local, Regional, and Statewide
Integrates Water Management Strategies	Yes	High	Local, Regional, and Statewide
Reduced Conflict	No	n/a	n/a
Contributes to CALFED Objectives	Yes	High	Local, Regional, and Statewide
Addresses WS and WQ Needs of DACs	No	n/a	n/a
Integrates Water and Land Use Management	No	n/a	n/a
Not Part of the SPFC and Provides Multiple Benefits	Yes	High	Local, Regional, and Statewide
Addresses Statewide Priorities	Yes	High	Local, Regional, and Statewide

Program Preferences Addressed by the Project

Contra Costa Water District's (CCWD) Canal Levee Elimination and Flood Protection Project (Project) is needed to reduce the flood risk currently posed by the Contra Costa Canal (the Canal). At least seven square miles are currently at risk of flooding if the Canal levees failed; including housing developments, roads, working farms and a tidal marsh restoration project. The full Project will replace four miles of the unlined portion of the Canal with a pipeline and eliminate eight miles of aging embankments. Phase 5 of the Project is the portion of the full Project evaluated in this grant; Phase 5 includes installing a flood isolation structure near the mouth of the Canal (Rock Slough Intake), installing 4,000 feet pipeline and eliminating approximately 8,000 feet of levees. Phase 5 will enable CCWD to remotely isolate the Canal from the San Joaquin-Sacramento River Delta in the event of a levee breach. Other benefits of the Project include improving source water quality by preventing intrusion of saline groundwater, improving public safety by eliminating the drowning risk of the open water Canal, and improving CCWD's water supply reliability. This Project meets the following Program Preferences:

- ✓ **Regional Project:** This Project meets the following CWC §10537 regional criteria: Improve Flood Management; Increase Water Supplies for Beneficial Uses; Improve Operational Efficiency and Supply Reliability; and Improve Water Quality; Improve Resource Stewardship.
- ✓ **Integrates Water Management:** This Project integrates several water management strategies including: Flood Management; Ecosystem Restoration; Habitat Protection and Improvement; Water Supply Reliability; Water Quality Protection and Improvement; Wetlands Enhancement & Creation; Conveyance – Delta and Regional/Local; System Reoperation; Surface Storage – CALFED; Surface Storage – Regional/Local; and Salt and Salinity Management.
- ✓ **Contributes to CALFED Objectives:** This Project addresses the Levee System Integrity; Water Quality; Water Supply Reliability; and Ecosystem Restoration and CALFED program objectives.
- ✓ **Statewide Priorities:** This Project addresses the Practice Integrated Flood Management, Drought Preparedness, and Protect Surface and Groundwater Quality statewide priorities.

Not Part of a SPFC and Provides Multiple Benefits

As shown in the Figure on the following page, the Project is not part of the State Plan of Flood Control. In addition, this project provides multiple benefits:

- ✓ *Implementation of Multi-Purpose Flood Management Programs:* This integrated Project will provide flood protection, water quality, water supply, and habitat restoration and creation benefits.
- ✓ *Improvement of Water Quality:* This project will provide significant water quality benefits to CCWD and its customers by reducing intrusion of saline groundwater into the Canal.
- ✓ *Water Supply Reliability:* The project provides significant water supply benefits to CCWD, the State Water Project and the Central Valley Project by reducing reservoir releases necessary to achieve water quality standards.

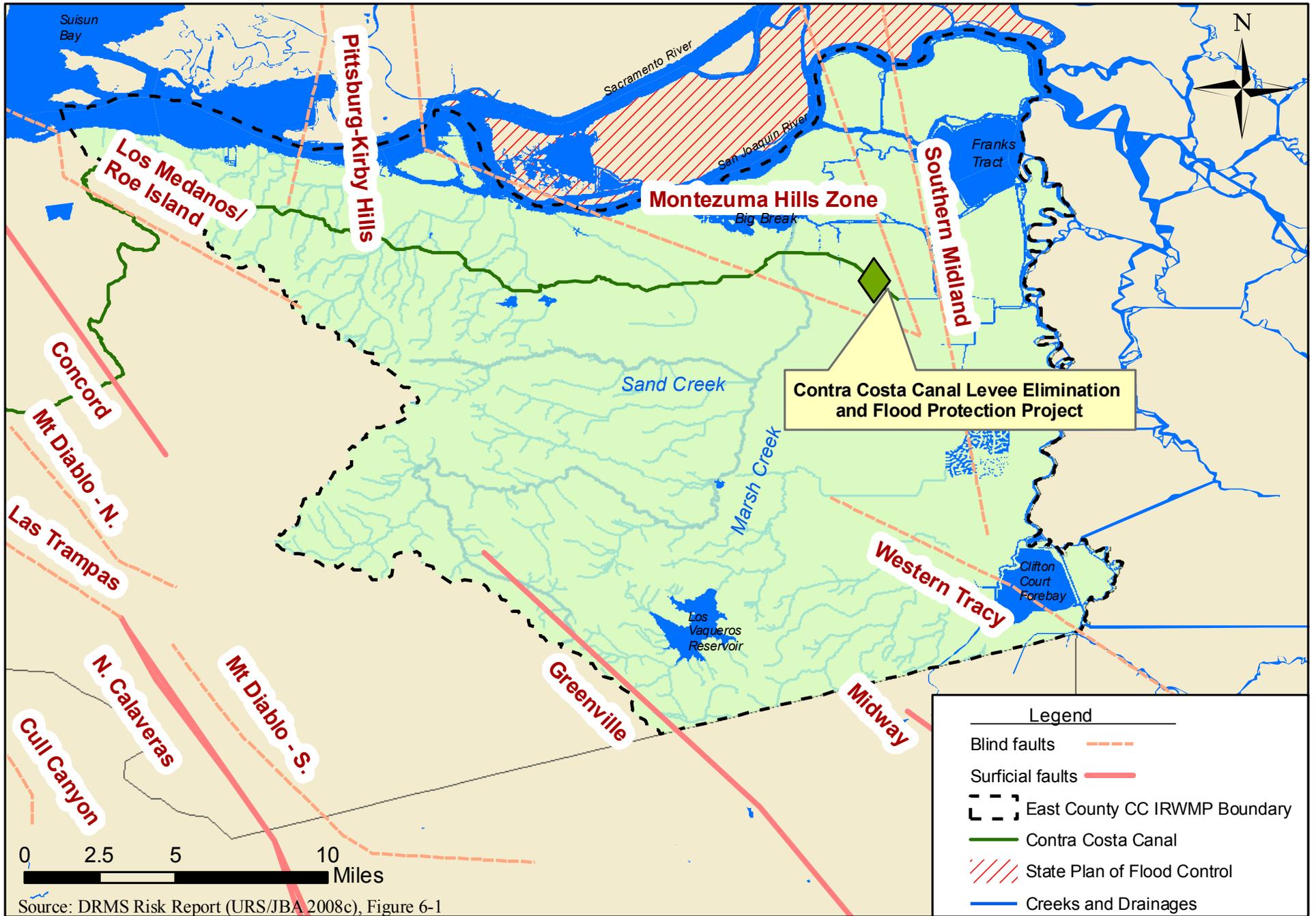


Figure 11-1: Regional Map

Certainty, Breadth and Magnitude of Preference Being Met

The Project addresses these preferences with a **HIGH degree of certainty**. This Project has completed environmental documentation, permitting, and mitigation, and design of the proposed phase will be complete by December of 2011. If funding is secured, the Project will move forward expeditiously.

Flood Protection. The Canal transports water through an area that has rapidly urbanized. Encasing the Canal and installing a flow control structure will eliminate the flood risk to adjacent property and lands, providing **LOCAL benefits**.

Drought Preparedness/Water Supply Reliability/Conservation/Demand Reduction Benefits. Several of the program preferences noted above deal with drought preparedness, water supply reliability, water conservation, and increasing water supplies for beneficial uses. This Project will improve supply reliability by improving water quality at Rock Slough, thereby decreasing the amount of water upstream reservoirs must release to meet the Rock Slough water quality standard. CCWD will also release less water to meet delivered water quality goals. Increasing storage available both locally and statewide will provide **LOCAL, REGIONAL, and STATEWIDE benefits**.

Water Quality Improvement Benefits. Encasing the unlined Canal provides a **LOCAL and REGIONAL benefit** by preventing intrusion of saline groundwater, improving delivered water quality.

Groundwater Management/Resource Stewardship Benefits. Encasing the unlined Canal is a critical step for the completion of the Department of Water Resources' Dutch Slough Tidal Marsh Restoration Project, a tidal wetland restoration site just to the north of the Canal. CCWD also acquired wetland and habitat (burrowing owl & giant garter snake) mitigation land at Holland Tract. CCWD has created 47 acres of wetland and 98 acres of upland habitat through the Wildlands Company. The Project provides **LOCAL and REGIONAL benefits**.

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