

CALFED Bay-Delta Program
Interagency Task Force Non-Structural Alternative Review

E-034462

Interagency Task Force Projects for Review			
ITF NSA No.	Location	Description/ Estimated Cost	CALFED Bay-Delta Program Comments
1	Cosumnes River Basin - RD 2124/ (Nicolaus Farm)	Three levee breaches, scour and erosion. Estimated structural repair cost \$754,500.00 Estimated NSA repair cost \$3,929,300.00	CALFED has identified the Cosumnes as a high priority for floodplain restoration. The Cosumnes is the only undammed tributary to the Delta. It is an irreplaceable source of sediment which can "naturally" rebuild shallow habitats along the Mokelumne River and in the North Delta. Several endangered species use habitats in the Cosumnes floodplain and river. CALFED supports a thorough examination of the non-structural alternative for this project.
15	RD 2101 San Joaquin Sub-Basin #11	Levee breach, scour, waterside erosion, and seepage. Proposed work is final repairs to complete breach and other flood damage repairs. Estimated repair costs \$258,000.00 (This is in addition to \$800,000.00 for initial closure work.)	Potential non-structural alternatives such as purchase of flowage easements may be more viable, in combination with other potential repairs for the San Joaquin River levees. Wetland or riparian habitat that could result from a non-structural alternative would generate environmental benefits which could produce benefits to the Delta. CALFED supports a thorough examination of the non-structural alternative for this project. Implementation of proposed repairs should not preclude consideration of NSA's under Phase IV investigations.
16	RD 17 San Joaquin Sub-Basin #4	Waterside erosion and severe seepage. Estimated repair costs \$6,273,000.00 Estimated NSA repair cost \$2,500,000 for linear cut-off levee at LM 8.63 and LM 9.55	Potential non-structural alternatives such as purchase of flowage easements may be more viable, in combination with other potential repairs for the San Joaquin River levees. CALFED has identified a target for maintaining flows within the mainstem San Joaquin River. Addressing the flow split at the head of Old River and the San Joaquin with setback levees would provide fisheries benefits and improve water supply reliability, particularly in conjunction with alternatives for adjacent districts. CALFED supports a thorough examination of the non-structural alternative for this project. Implementation of proposed repairs should not preclude consideration of NSA's under Phase IV

E - 0 3 4 4 6 2

G-001578
5/19/97
Preliminary Review -- June 12, 1997

CALFED Bay-Delta Program
Interagency Task Force Non-Structural Alternative Review

			<p>investigations. Total implementation costs of the NSA at LM 8.63 and LM 9.55 would be offset by approximately \$750,000.00 for identified repairs along these damaged areas. A preferred NSA would consider setback levees along the entire San Joaquin to provide fisheries benefits, improve water supply reliability, and reduce potential future flood damages. A minimal NSA could consist of a cut-off levee between LM 8 and LM 11 to improve the flow split at the head of Old River and the San Joaquin, and reduce future flood damages. This NSA is potentially more effective with implementation of additional NSA's for adjacent RD's which have experienced flood damages in the vicinity of the Old River and San Joaquin flow split.</p>

CALFED Bay-Delta Program
Interagency Task Force Non-Structural Alternative Review

E-034464

ITF NSA No.	Location	Description/ Estimated Cost	Potential Phase IV (Long-term) NSA's CALFED Bay-Delta Program Comments
3	Yolo Bypass / Shag Slough, Cache and Hass Sloughs - RD 2098	Shallow waterside slips along Yolo Bypass and Shag Slough, Five new slope failures along Cache and Hass Slough. Estimated repair cost \$ N.A.	CALFED has met with the owner of adjacent Liberty Island and the landowner is a willing seller. Liberty Island has been specifically identified by CALFED as a very strong candidate for restoration to tidal wetlands. Delta smelt have been observed in the flooded area of Liberty Island. CALFED supports a thorough examination of the non-structural alternative for this project. CALFED would recommend purchase and reversion to tidal wetland for this project adjacent to Liberty Island.
4	Grizzley Island - RD 2112	Waterside erosion at Nineteen sites along Montezuma Slough. Estimated repair cost \$32,000.00	It would be desirable to setback levees in this area. Montezuma Slough is critical habitat for both Delta Smelt and Winter Run Chinook salmon. Shallow water habitat that could result from levee set-back is critical to the spawning of Delta species and rearing of salmon. We do note that the affected area includes some screened diversion structures. These structures should be maintained in place and protected against future damage. We acknowledge that protection of the fish screens reduces the potential for setback and habitat development.
5	Cross levee between RD 2075 and RD 2094	Five breaches along cross levee between districts. Estimated repair cost \$1,430,000.00	A non-structural alternative is not readily apparent in reviewing this single repair request. However, when viewed in combination with potential repairs for the San Joaquin River levees potential non-structural alternatives such as purchase of easements may be more viable. CALFED supports a thorough examination of the non-structural alternative for this project.
14	RD 2031 San Joaquin Sub-Basin #10	Levee breaches and slope erosion. Proposed work is final repairs to complete breach repairs and two areas proposed for non-structural alternatives. Estimated repair costs \$930,000.000 (This is in addition to \$2,166,000.00 for initial repairs.)	CALFED supports a thorough examination of non-structural alternatives considered in report. Potential wetland or riparian habitat that could result from a non-structural alternative would generate environmental benefits for the Delta. CALFED supports consideration of flowage easement or fee purchase of 100-year floodplain identified in report. Implementation of proposed repairs should not preclude consideration of NSA's under Phase IV investigations.

E - 0 3 4 4 6 4

CALFED Bay-Delta Program
Interagency Task Force Non-Structural Alternative Review

E-034465

ITF NSA No.	Location	Description/ Estimated Cost	Potential Phase IV (Long -term) NSA's CALFED Bay-Delta Program Comments
18	RD 2091 / RD 2063 San Joaquin Sub- Basin, #15	Wave erosion, sloughing, boils and seepage. Breach in RD 2091. Road damage in both districts due to emergency repair efforts. Estimated repair costs \$5,474,127.00	Potential non-structural alternatives such as purchase of flowage easements may be more viable, in combination with other potential repairs for the San Joaquin River levees. CALFED supports a thorough examination of the non-structural alternative for this project. Implementation of proposed repairs should not preclude consideration of NSA's under Phase IV investigations.
20	RD 524 /RD 544 San Joaquin Sub-Basin #5	Waterside erosion, scour, and severe seepage. Longitudinal cracks along RD 544 levee. Estimated repair costs \$8,700,000.00 Estimated NSA repair cost \$2,230,700.00 for linear cut-off levees between LM 0.8 and LM 2.2, Unit 1 and between LM 1.7 and LM 2.2, Unit 2.	CALFED supports a thorough examination of the non-structural alternative for this project to provide fisheries benefits, improve water supply reliability, and reduce potential future flood damages. The proposed NSA's for Unit 1 and Unit 2 are potentially more effective with implementation of additional NSA's for adjacent RD's which have experienced flood damages in the vicinity of the Old River and San Joaquin flow split. Implementation of proposed repairs should not preclude consideration of NSA's under Phase IV investigations.

E - 0 3 4 4 6 5