

Alternative Rating for the South Delta Improvement

Feasibility Issues	Issues to address	Alternative Ratings	
		Single Barrier Alternative	Multiple Barrier Alternative
<i>Existing Technology</i>			
Questionable or untested technology			
<i>Logistics/Timing</i>	Done in Stage 1		
<i>Availability</i>			
<i>Managable/Jurisdiction To Do the Work</i>	<i>Components</i>		
	Intake Structure		
	Dredging Old River		
	Dredge south Delta channels		
	Extend Ag diversions & add Fish Screens		
	Flow Structures		
	Fish Structure at HOR		
<i>Cost</i>	<i>Components</i>		
	Intake Structure		
	Dredging Old River		
	Dredge south Delta channels		
	Extend Ag diversions & add Fish Screens		
	Flow Structures		
	Fish Structure at HOR		
	O & M		
	Mitigation		

Alternative Rating for the South Delta Improvement Program

Impact		Alternative Ratings	
Resource/ Subcategory		Single Barrier	Alternative Multiple Barrier
<u>Aquatic</u>	<u>Cause/Species impacted</u>		
Intake Structure	Predation		
	Entrainment		
	Blockage		
Flow structures or equivalent	Predation		
	Entrainment		
Hydrodynamic effects	Increased exports		
	Flow Structure		
	Fish Control Structure		
Habitat Losses	Biological Communities		
	Community Energetics		
	Environmental Water		
Stanislaus Steelhead			
San Joaquin fall-run chinook survival	Smolt		
Adult salmon passage	San Joaquin Salmon passing thru south Delta		
Sacramento River Salmon Survival	Juvenile Salmon		
Survival of other delta native fishes	Delta smelt		
	Spittail		
<u>Terrestrial</u>			
<u>Water Quality at Exprt Facilities</u>	CVP		
	SWP		
	CCWD		
<u>Water Rights</u>			
<u>Navigation/ Transportation</u>	Middle River		
	Old River at Tracy		
	Grant Line Canal		
	Head of Old River		
	Intake		
<u>Recreation</u>	Middle River		
	Old River at Tracy		
	Grant Line Canal		
	Head of Old River		
	Intake		
<u>Delta Levees</u>			
<u>Land Use/ Planning</u>			

Alternative Rating for the South Delta Improvements Program

Impact	technical checklist	Alternative Ratings	
		Single Barrier Alternative	Multiple Barrier Alternative
<u>SWP Water Supply Reliability</u>			
	Average Years, AF		
	Critical/Dry Years, AF		
<u>South Delta Supply/ Agricultural Reliability</u>			
	Water Availability		
<u>South Delta Water Quality</u>			
South Delta channels (MR, OR, GLC) and WQCP criteria	Electrical conductivity, Total Dissolved Solids		
Middle River	Null zones		
Old River	Null zones		
San Joaquin River near Stockton	Dissolved Oxygen		

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