Draft Partial Matrix#3a: Conservation Measure Magnitudes and Certainties for Positive DRERIP Outcomes

Draft - September 25, 2009 — Matrix #3 - Measures vs Outcomes

POSITIVE OUTCOMES

CODE	Conservation Measure Description	Local Food and Rearing: Delta Smelt	Longfin Smelt	Fall-Run Chin. Sac.	Late Fall-Run Chin.	Spring-Run Chinook	Winter-Run Chinook	Steelhead	Splittail	Green and white Sturgeon	Regional Food + Productivity: All species - ViewPoint #1	All Species - ViewPoint #2	Cool Water Refugia: Delta Smelt	Longfin Smelt	Fall-Run Chinook	Late Fall-Run Chin.	Spring-Run Chinook	Steelhead	Habitat (refers to changes in habitat resulting from the action): Quantity	Quantity - spawning habitat	Quality - Proximity to stressors	Quality - Suspended sediments for Delta smelt	Connectivity among habitats - Splittail	Connectivity among habitats -G&W Sturgeon	Species - Reduce mortality of native fish.: Delta Smelt	Longfin Smelt	Fall-Run Chin. San Joaquin	Fall-Run Chin. Sac.	Late Fall-Run Chin.	Spring-Run Chinook	Winter-Run Chinook	Steelhead	Splittail	Green and white Sturgeon	Species - Reduce Sub-lethal effects: Delta Smelt	Longfin Smelt	Salmon - fall, winter,	Steelhead	Splittail	Green and white Sturgeon	Species (refers to single species outcomes,may relate to a specific life stage.): Reproduction/ recruitment	Genetic diversity	Species composition Reduce predation by invasive species: Delta Smelt	Longfin Smelt	Salmon - all runs	Steelhead	Splittail	Green and white Sturgeon	Species composition: Competition by invasive species
HRCM04	Cache Slough Area Tidal Habitat	O	o	J O	o	J O	J O	J O	O	o	●	o	o		o		o	o																														
HRCM05	Cosum/Moke Tidal Habitat	o		J O				J O	J ●		●	o	o		o		o	o																															
HRCM06	West Delta Tidal Habitat			J O		J O					●	o	o		o		o	o					J ●	o																							
HRCM07	South Delta Tidal Marsh	o		J O					J ●	o	●	o	o		o			o																														
HRCM08	East Delta Tidal Habitat			J O				o	J ●	o	●	o	o		o		o	o																														
HRCM09	Suisun Marsh Tidal Habitat	O	o	J O	o	J O	J O		O	o	●	o	o		o		o	o			●																										
WOCM 1	Dual Conveyance Scenario #1										●														ALJ ●	ALJ ● ●	●	●	●	●	●	● o	●	●●													
WOCM 1	Dual Conveyance Scenario #2										●														ALJ ●	ALJ ● ●	●	●	●	●	●	● o	●	●●													
WOCM 2a	Fremont Weir and Yolo Bypass Inundation Scenario #1			J ●	J ●	J ●	J ●	O	LJ ●	o	Oo								●			LJ ●				J ●	J ●	J ●	J ●	J ●	J ●	J ●	J Oo	●												
WOCM 2b	Fremont Weir and Yolo Bypass Inundation Scenario #2			J ●	J ●	J ●	J ●	O	LJ ●	o	Oo								●			LJ ●				J ●	J ●	J ●	J ●	J ●	J ●	J ●	J Oo	●												
OSCM 4	Reduce the Load of Pesticides and Herbicides										O														●	o		●	●	●	●	●	o	o ●	●	o	● ●	O	o ●							
OSCM 5	Reduce the Loads of Toxic Contaminants in Stormwater										o														o	o	o	o	o	o	o	o	o	o ●	o	o	o	o	o							
OSCM 13	Remove Non-Native SAV and FAV	●	●	J ●	J ●	J ●	J ●	J ●					o	o					o	o																						O					
OSCM 14	Increase Harvest of Non- Native Predatory Fish																																										oo	oo	●●	oo	oo	oo	O
OSCM 20	Artificial propagation of smelt																																									OO	OO					

Magnitude	Positive Certainty: High	Positive Certainty: Medium	Positive Certainty: Low - Min	Negative Certainty: High	Negative Certainty: Medium	Negative Certainty: Low - Min
High	●	●	O	▲	▲	Δ
Medium	●	●	O	▲	▲	Δ
Low - Min	●	●	O	▲	▲	Δ

l = larval life stage

J = Juvenile life stage

A = Spawning adults