SITES RESERVOIR:
CRITERIA FOR AN ENVIRONMENTALLY RESPONSIBLE PROJECT

- Upper Sacramento River bypass flows: Flows of at least 15,000 cfs past all Sacramento River points of diversion for Sites Reservoir are required prior to the diversion of water into the reservoir during the months of October to June to protect out-migrating juvenile salmonids. (*See* Table A)

- Lower Sacramento River flows: Diversions of water into the reservoir should not occur from October to June unless flows at Freeport are greater than 35,000 cfs. Lower Sacramento River bypass flows in October and June shall be based on real time monitoring for salmonids. (*See* Table A)

- Flows for the San Francisco Bay-Delta Estuary: Per Table B, diversions of water into the reservoir should occur only when sufficient Delta inflows and outflows are available to meet the needs of Delta smelt, longfin smelt, migrating Chinook salmon, and other flow-dependent species.

- Floodplain inundation: Diversions must not reduce the frequency or duration of inundation of the Yolo Bypass and the Sutter Bypass, as floodplain inundation is beneficial for rearing salmon, migratory birds, and other wildlife.

- Overhead powerlines: Any new overhead powerlines associated with the project should be sited along exiting transmission corridors and not run along the Delevan National Wildlife Refuge. The power lines should also conform to current Avian Power Line Interaction Committee guidelines.

- Refuge water supplies: Water supply availability for federal, state, and private wildlife refuges must not be negatively affected, and a detailed description of conveyance methods should be provided for any publicly funded Level 4 refuges water supplies.

- Mitigation for construction impacts: Detailed plans must be developed showing how all temporary and permanent impacts of the project on golden eagles, giant garter snakes, vernal pools, and other species and habitats will be mitigated according to law, including appropriate assurances and performance standards.

- Releases of water from Sites Reservoir to the Sacramento River: Additional analysis of the water quality impacts of reservoir releases is necessary, given concerns regarding water temperature, algal blooms, and other water quality parameters.

Table A: Sites Reservoir bypass flows triggered by Sacramento River fish and wildlife protections

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Notes
Sacramento River at Freeport	real time	35,000 cfs	35,000 cfs	35,000 cfs	35,000 cfs	35,000 cfs	35,000 cfs	35,000 cfs	real time				Based on NGO proposed WaterFix minimum bypass flow of 35,000 cfs at Freeport Nov-May. The 35,000 cfs bypass flow is also in effect in Oct and Jun if real time observations show salmon are present.
Sacramento River at all Points of Diversion for	15000 cfs	15000 cfs	15000 cfs	15000 cfs	15000 cfs	15000 cfs	15000 cfs	15000 cfs	15000 cfs				Minimum bypass flow. Based on CDFW 2016 recommendation.
Max diversion rate	2% / 5%	2% / 5%	2% / 5%	2% / 5%	2% / 5%	2% / 5%	2% / 5%	2% / 5%	2% / 5%				When Net Delta Outflow Index (NDOI) is above minimum flows identified in Table A and Table B but below 60,000 cfs, diversions to Sites limited to a maximum of 2% of the river flow. When NDOI exceeds 60,000 cfs, diversions to Sites limited to 5% of Sacramento River flow.

Table B: Sites Reservoir bypass flows triggered by downstream water quality protections

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Notes
Delta Outflow				42,800 cfs		44,500 cfs			42,800 cfs				Bypass flow, based on longfin smelt flow need but will benefit salmon and other species as well (SWRCB 2017)
	11,400 cfs in W and AN years, 7,400 cfs all other yr types	11,400 cfs in W and AN years, 7,400 cfs all other yr types								7,100 cfs	7,100 cfs	11,400 cfs in W and AN years, 7,400 cfs all other yr types	Bypass flow, consistent with proposed NGO terms and conditions for California Water Fix regarding Delta Smelt
X2	74 km (W) or 81 km (AN)	No diversions in AN or W years	No diversions of X2-related releases in AN or W years									74 km (W) or 81 km (AN)	No diversions when diversions would result in noncompliance with current Delta smelt RPA requirements to maintain Fall X2 position in Sept-Dec period following a W or AN year
OMR, E:I, etc.	Water supply releases, water transfers, and refuge releases for SOD delivery are subject to all water quality and endangered species protections in the Delta.												