

Revised Attachment 2 to Self-Monitoring Plan: Schedule of Monitoring Activities and Achievement Dates for Measurable Objectives

Table 4-18. Schedule of Monitoring Activities for Preproject and the 10 Years Following Implementation of Mitigation Actions, Guadalupe River Project Numbers shown for the "Month of Monitoring" columns indicate repetition of monitoring activity during the shaded period. A "?" indicates that monitoring may be required depending on the findings of other monitoring activities. An "M" under "Year of Monitoring" columns indicates that the measurable objectives must be met or that the measured value for the indicator must be progressing toward the measurable objective.

Indicator	Month of Monitoring													Year of Monitoring														
	J	F	M	A	M	J	J	A	S	O	N	D	P ^a	1	2	3	4	5	6	7	8	9	10					
Riparian Vegetation																												
Survival								1						M	M	M												
Health and vigor								1						M	M	M	M	M										
Natural Recruitment								1										M										
Cover								1															M					
Nonnative species								1						M	M	M	M	M						M				
Tree height	1																								M			
Tree basal area	1																											
SRA Cover																												
Survival								1						M	M	M												
Health and vigor								1						M	M	M	M	M										
Natural Recruitment								1										M										
Nonnative species								1						M	M	M	M	M						M				
Shaded stream surface								1												M				M				
Bank stability				1													M	M	M	M			M				M	
Instream cover				1																M			M				M	
Channel bed stability				1													M	M	M	M	M	M	M	M	M	M	M	M
Water Temperature^b																												
Measured water temperature ^c	Hourly																											
Heat transfer			1			1			1																			
Stream channel geometry	2																											
Simulated water temperature	1	1	1	1	1	1	1	1	1	1	1	1	1															
Monthly thermal suitability	1																								M			
Short-term thermal suitability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M				
Anadromous Fish Spawning Habitat^d																												
Spawning gravel abundance			1													M	M	M	M	M							M	
Spawning gravel quality			1													M	M	M	M	M							M	
Anadromous Fish Passage and Rearing Habitat																												
Depth and velocity	2	2	2							2	2	2		M	M	M	M	M	M	M	M	M	M	M				
Vertical barrier	2	2	2							2	2	2		M	M	M	M	M	M	M	M	M	M	M				
Rearing habitat diversity				1													M	M	M	M	M						M	
Anadromous Fish Occurrence																												
Adult migration and spawning	2	2	2							2	2	2		M	M	M	M	M	M	M	M	M	M	M				
Juvenile rearing			1				1		1					M	M	M	M	M	M	M	M	M	M	M				
Juvenile migration			Continuous ^d													M	M	M	M	M	M	M	M	M	M	M	M	

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	J	F	M	A	M	J	J	A	S	O	N	D	P ^a	1	2	3	4	5	6	7	8	9	10
Mercury Transport and Potential for Methylation in Segments 1, 2, and 3 and Reach A																							
Methylmercury concentrations in riverbed and suspended sediments ^{f,g}																							
Mercury Transport and Potential for Methylation in the Guadalupe River Watershed																							
Total suspended solids ^{f,g}																							
Total and bioavailable mercury ^{f,g}																							
Methylmercury concentrations in riverbed and suspended sediments ^{f,g}																							
Mercury Transport and Potential for Methylation in the Guadalupe River Watershed and the San Francisco Bay																							
Total suspended solids ^{f,g}																							
Total and dissolved mercury in water ^{f,g}																							
Total and dissolved methylmercury in water ^{f,g}																							
Water Quality parameters (including but not limited to dissolved oxygen, pH, temperature, and nutrients) ^{f,g}																							
Continuous flow ^{f,g}																							
Special-Status Species Habitat (at Alviso Slough)																							
Surface-water level and flow	Continuous													Until Guadalupe River Project is operational ^h									
Dominant plant species and habitat types							1																
Salinity	Continuous													Until Guadalupe River Project is operational ^h									

^a Preproject monitoring.

^b Measured water temperature is used for model calibration and confirmation. Heat transfer and stream channel geometry are conditions used in simulation of the water temperature. Simulated water temperature is used to calculate the monthly thermal suitability and short-term suitability indicators.

^c Hourly water temperature will be recorded continuously, although measurement may be discontinued at some locations during high flow conditions to minimize loss of equipment and already-recorded temperature data.

^d Preproject surveys will be conducted only in Guadalupe Creek and Reach A mitigation areas.

^e Surveys in June will depend on occurrence in May.

^f Specific measurable objectives will be identified for these indicators by SCVWD in coordination with the RWQCB. [Specific measurable objectives for total mercury loading and/or particulate mercury concentrations were identified in the San Francisco Bay mercury TMDL; the other parameters support bioavailability assessment in the Guadalupe River watershed TMDL, and analysis of methylmercury loads to the San Francisco Bay.](#)

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^g ~~Monitoring is shown as quarterly; Actual monitoring frequency will be in accordance with RWQCB requirements~~ [have been identified in the Revised Self-Monitoring Program.](#)

^h Measurable objective must be met monthly.

ⁱ Measurable objective must be met annual.