Mitigation Measure	Responsible Party	Reviewing and Approving Party	Monitoring and Reporting Actions	Implementation Schedule
Biological Resources				
Mitigation Measure M-BI-1a: General Protection Measures The SFPUC shall ensure that the following general measures are implemented by the contractor(s) during construction to minimize or avoid impacts on biological resources:	1. SFPUC EMB	1. SFPUC EMG	Ensure that contract documents identify staging area restrictions and include requirements for contractor to install temporary exclusion fencing, screen dewatering intakes, and general measures to minimize or avoid impacts on biological resources.	1. Design
 Construction contractor(s) shall minimize the extent of the construction disturbance as much as feasible. Prior to the start of construction, the construction contractor, in coordination with a qualified biologist, shall install 4-foot-tall temporary exclusion fencing at selected locations along the work area boundaries where there is suitable habitat for special-status species. In addition, fencing shall be installed outside the driplines of all trees to be retained that are located within 50 feet of any grading, road improvements, underground utilities, or other construction activity. A qualified biologist and the SFPUC must first approve any encroachment beyond these fenced areas. The contractor shall maintain the temporary fencing until all construction activities are completed. 	2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	Monitor installation of exclusion fencing. Identify placement of construction fencing around trees to be retained and verify proper installation of fencing.	2. Construction
 Project-related vehicles shall observe a 15-mile-per-hour speed limit on unpaved roads in the work area, or as otherwise determined by the applicable regulatory agencies. The contractor shall provide closed garbage containers for the disposal of all food-related trash items (e.g., wrappers, cans, bottles, food scraps). All garbage shall be collected daily from the project site and placed in a closed container, from which garbage shall be removed weekly. 	3. SFPUC CM Team (qualified biologist)	3. SFPUC EMG	3. Monitor to ensure that the contractor implements measures in contract documents and maintains exclusion fencing in good condition throughout construction. Report noncompliance and ensure that corrective actions are implemented. Document activities in monitoring logs.	3. Construction
 Construction personnel shall not feed or otherwise attract fish or wildlife in the project area. No pets shall be allowed in the project area. No firearms shall be allowed in the project area. Staging areas shall be located at least 50 feet from riparian habitat, creeks, and wetlands, where feasible. If vehicle or equipment fueling or maintenance is necessary, it shall be performed in the designated staging areas. In cases where excavations require dewatering, the intakes shall be screened with a maximum mesh size of 5 millimeters. 				
 Mitigation Measure M-BI-1b: Worker Training and Awareness Program The SFPUC shall ensure that mandatory biological-resources awareness training is provided to all construction personnel as follows: The training shall be developed and provided by a qualified biologist or construction compliance manager familiar with the sensitive species that may occur in the project area. If a consulting biologist prepares the training program, SFPUC staff shall approve the program prior to implementation. 	1. SFPUC EMB	1. SFPUC EMG	Ensure that the contract documents include the requirement that all construction personnel attend biological resources awareness training.	1. Design
 The training shall be provided before any work, including vegetation clearing and grading, occurs within the work area boundaries. The training shall provide education on the natural history of the special-status species potentially occurring in the project area, and discuss the required mitigation measures to avoid impacts on the special-status species and the penalties for failing to comply with biological mitigation requirements. 	2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	2. Prepare a project-specific biological-resources awareness program. Include documentation of qualifications of the consulting biologist developing the training program (e.g., resume). Refer to mitigation measure for specific training requirements.	2. Pre-construction
• If new construction personnel are added to the project, the contractor shall ensure that they receive training prior to starting work. The subsequent training of personnel can include a videotape of the initial training and/or the use of written materials rather than in-person training by a biologist.	3. SFPUC CM Team (qualified biologist)	3. SFPUC EMG	3. Monitor to ensure that all personnel attend training prior to beginning work and sign training sign-in sheet. Maintain file of sign-in sheets in project record. Report noncompliance and ensure corrective action.	
Mitigation Measure M-BI-1c: Minimize Disturbance to Riparian Habitat To minimize disturbance to creeks and riparian habitat, the SFPUC and its contractors shall conduct in-channel work in Arroyo de la Laguna during the dry season. A fish relocation plan shall be developed and submitted to the National Marine Fisheries Service for approval 30 days prior to in-channel construction work. This plan shall incorporate the latest National Marine Fisheries Service guidance relating to the capture and relocation of any stranded fish to an appropriate place, depending on the life stage of the fish and flow conditions in the vicinity. A National Marine Fisheries Service-approved biological monitor shall be present on site for all construction activities that could result in potential take (e.g., injury, mortality, or harassment) of covered fish species, including dewatering activities and fish relocation). Dewatering to create a dry work area shall be conducted in a manner that minimizes turbidity into nearby waters.	1. SFPUC EMB	1. SFPUC EMG	Ensure that the contract documents include the requirement that in-channel work be conducted during the dry season and pump intakes (if pumping is required) be provisioned with National Marine Fisheries Service-approved fish screening.	1. Design

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Mitigation Measure	Responsible Party	Reviewing and Approving Party	Monitoring and Reporting Actions	Implementation Schedule
screening, as outlined in National Marine Fisheries Service Fish Screening Criteria for Anadromous Salmonids (January 1997). Te bio 3. Te	2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	2. Prepare a project-specific fish relocation plan, including qualifications of monitoring biologist(s), and submit to the National Marine Fisheries Service for approval. Refer to mitigation measure for specific requirements.	2. Pre-construction
	3. SFPUC CM Team (qualified biologist)	3. SFPUC EMG	3. Monitor to ensure that the contractor implements measures in contract documents and fish relocation plan. Report noncompliance and ensure that corrective actions are implemented. Document activities in monitoring logs.	3. Construction
To prevent California tiger salamander, California red-legged frog, Alameda whipsnake, and other special-status species from moving through the project area, the SFPUC or its contractors shall install temporary exclusion fencing at selected locations along the work area boundaries (including access roads, staging areas, etc.) prior to the start of project construction activities. Fencing locations will be based on observations of these specific species or the presence of habitats that are likely to support higher densities of these species. Other portions of the work area boundaries would not be fenced, based on coordination with the CDFW and USFWS. The SFPUC shall monitor disturbance areas to determine whether additional fencing is necessary to minimize potential impacts. The SFPUC shall ensure that the	1. SFPUC EMB	1. SFPUC EMG	Ensure that contract documents include requirements for contractor to install temporary exclusion fencing at selected locations where there is suitable habitat for special-status species.	1. Design
	2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	2. Monitor installation of exclusion fencing and verify proper installation of fencing.	2. Pre-construction
During fence installation, a qualified biological monitor shall be present onsite to relocate any animals to outside the work area boundaries. The biologist must be authorized by the federal (USFWS) and/or state (CDFW) regulatory agencies to relocate animals. After construction is completed, the exclusion fencing shall be removed.	3. SFPUC CM Team (qualified biologist)	3. SFPUC EMG	3. Monitor to ensure that the contractor implements measures in contract documents and maintains exclusion fencing in good condition throughout construction. Report noncompliance and ensure that corrective actions are implemented. Document activities in monitoring logs.	3. Construction
California tiger salamander and California red-legged frog. Not more than two weeks prior to the onset of work activities (including equipment mobilization) and immediately prior to commencing work, the qualified biologist shall survey upland habitat in the project area for California tiger salamander and California red-legged frog, and potential refuge or burrow/estivation sites. As feasible, burrow/estivation areas identified within the project boundaries shall be temporarily fenced (per Mitigation Measure M-BI-1d) and avoided. At locations where potential refuge/estivation burrows are identified and cannot be avoided, the burrows shall be excavated by hand or by other means approved by the CDFW and USFWS prior to construction. If a burrow is occupied, the individual animal shall be moved to a natural burrow or artificial burrow constructed of PVC pipe within 0.25 mile of the project area or other location as agreed to by the appropriate agencies. Alameda Whipsnake. Not more than two weeks prior to the onset of work activities (including equipment mobilization) and immediately		1. SFPUC EMG	Ensure that contract documents include requirement for contractor to provide advance notification to SFPUC of construction activities to allow a qualified biologist to perform preconstruction surveys.	1. Design
	2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	Conduct pre-construction surveys. Install temporary fencing around refuge/burrow/estivation sites (if necessary).	2. Pre-construction
	3. SFPUC CM Team (qualified biologist)	3. SFPUC EMG	3. Conduct monitoring and inspections as specified by measure. Document activities in monitoring logs. Report noncompliance and ensure that corrective actions are implemented. Report observations to USFWS and/or CDFW as specified by measure.	3. Construction
prior to commencing work, a qualified biologist shall conduct a reconnaissance survey of suitable upland habitat for Alameda whipsnake in the project area. If an Alameda whipsnake is found, the qualified biologist shall relocate the animal outside of the				

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Mitigation Measure	Responsible Party	Reviewing and Approving Party	Monitoring and Reporting Actions	Implementation Schedule
construction area. Excavation, relocation, or collapse of burrows shall only be conducted as authorized by the USFWS (for federally listed species), by the CDFW (for state-listed species), or by both agencies (for species protected at both the federal and state levels).				
Relocation of federally listed species shall only be conducted as authorized by the USFWS, for state-listed species as authorized by CDFW, or by both agencies for species that are protected at both the federal and state level.				
Construction Monitoring Protocols				
At the beginning of each workday that includes initial ground disturbance, including grading, excavation, and vegetation-removal activities, a qualified biologist shall conduct onsite monitoring for the presence of California tiger salamander, California red-legged frog, and Alameda whipsnake in the area where ground disturbance shall occur, as follows:				
 Arroyo de la Laguna shall be surveyed prior to any ground-disturbing or vegetation removal activities at or near this creek. Perimeter fences shall be inspected to ensure they do not have any tears or holes, that the bottoms of the fences are still buried, and that no individuals have been trapped in the fences. Any California tiger salamander, California red-legged frog, or Alameda whipsnakes found along and inside the fence shall be closely monitored until they move away from the construction area. All open trenches or holes and areas under parked vehicles shall be checked for the presence of California tiger salamander, California red-legged frog, and whipsnakes. All excavated or deep-walled holes or trenches greater than 2 feet shall be covered at the end of each workday using plywood or similar materials or escape ramps shall be constructed of earth fill or wooden planks. Before such holes are filled, they shall be thoroughly inspected for trapped animals. Project personnel shall be required to immediately report any harm, injury, or mortality of a special status species during construction (including entrapment) to the construction foreman or biological monitor, and the construction foreman or biological monitor shall immediately notify the SFPUC. The SFPUC shall provide verbal notification to the USFWS Endangered Species Office in Sacramento, California and/or to the local CDFW warden or biologist (as applicable) within one working day of the incident. The SFPUC shall follow up with written notification to the USFWS and/or CDFW (as applicable) within five working days of the incident. All observations of federally and state-listed species shall be recorded on California Natural Diversity Database field sheets and sent to the CDFW by the SFPUC or representative biological monitor. While it is not necessary that the biological monitor stay onsite for the entire day, the monitor shall remain on-call in case any of the				
immediate vicinity of the individual until: (1) the USFWS and/or CDFW are contacted and/or the animal has been removed from the construction area, in accordance with permits, by an approved biologist and released near a suitable burrow or other suitable habitat within 0.25 mile of the construction area, or (2) the animal moves away from the construction area on its own.				
Once all initial ground-disturbing activities are completed, the biological monitor shall perform spot checks of the project area at least once a week for the duration of construction to ensure that the perimeter fence is in good order, trenches are being covered if left open overnight (or escape ramps provided), project personnel are conducting checks beneath parked vehicles prior to their movement, and all other required biological protection measures are being followed.				
Mitigation Measure M-BI-1f: Prepare and Implement a Vegetation Restoration Plan and Compensatory Mitigation The SFPUC shall prepare and implement a vegetation restoration plan with detailed specifications for minimizing the introduction of invasive weeds and restoring all temporarily disturbed areas, and shall ensure that the contractor successfully implements the plan. The plan shall indicate the best time of year for seeding to occur.	SFPUC EMG (qualified botanist)	1. SFPUC EMG, USACE, RWQCB, CDFW, and USFWS as applicable	Develop vegetation restoration plan in accordance with mitigation requirements. Submit to applicable agencies for approval.	Pre-construction
To facilitate preparation of the plan, the SFPUC shall ensure that, prior to construction, a qualified botanist (i.e., one experienced in identifying sensitive plant species in the project area) performs additional preconstruction surveys of the areas to collect more detailed vegetation composition data, including species occurrence, vegetation characterization (tree diameter size, etc.), and percent cover of plant species. Photo documentation shall be used to show pre-project conditions.	2. SFPUC EMB	2. SFPUC EMG	2. Ensure that contract documents include on-site vegetation restoration requirements, including invasive weed control measures and on-site restoration measures.	2. Design
If required, the SFPUC shall provide the vegetation restoration plan to the United States Army Corps of Engineers, the CDFW, the Regional Water Quality Control Board, and the USFWS during the permitting process, as any vegetation to be removed may provide habitat for special-status species and may also be within areas under the jurisdiction of the United States Army Corps of Engineers and the Regional	3. SFPUC CM	3. SFPUC EMG	Monitor to ensure that the contractor implements measures in contract documents. Document activities in monitoring logs. Report noncompliance and	3. Construction

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Mitigation Measure	Responsible Party	Reviewing and Approving Party	Monitoring and Reporting Actions	Implementation Schedule
Invasive Weed Control Measures	4. SFPUC EMG	4. SFPUC EMG,	Conduct monitoring and maintenance of restored areas as specified by	4. Post
Invasive weeds such as yellow star-thistle, purple star-thistle, Italian thistle, bull thistle, and stinkwort readily colonize soils that have been disturbed by grading or other mechanical disturbance. The SFPUC shall incorporate the following measures into the construction plans and specifications to prevent the spread of invasive weeds into nearby areas:	and NRLM	NRLM, and USACE, RWQCB, CDFW, and USFWS as	measure. Document achievement of success criteria.	Construction
 Construction equipment shall arrive at the project area clean and free of soil, seed, and plant parts to reduce the likelihood of introducing new weed species. Any imported fill material, soil amendments, gravel etc., required for construction and/or restoration activities that would be placed within the upper 12 inches of the ground surface shall be free of vegetation and plant material. Certified, weed-free, imported erosion-control materials (or rice straw in upland areas) shall be used exclusively, as applicable (this measure concerns biological material and does not preclude the use of silt fences, etc.). The environmental awareness training program for construction personnel shall include an orientation regarding the importance of preventing the spread of invasive weeds. To reduce the seed bank in weed-dominated ruderal areas, the contractor shall mow, disk, apply spot-applications of herbicide to weeds, and/or remove weeds, as appropriate and as early as feasible prior to surface clearing and site preparation. Before construction equipment leaves the project area, any accumulation of plant debris, soil, and mud shall be washed off the equipment or otherwise removed onsite, and air filters shall be blown out. The restoration plan shall specify measures to remove and/or control weeds in the project area. No invasive species shall be used in any restoration plantings. Implementation of these measures during construction and site restoration activities shall be verified and documented by a biological or environmental monitor. Minimum Restoration Measures Restoration areas are areas within the project area that would be disturbed during project-related construction activities but would subsequently be restored to their preconstruction conditions as defined by the success criteria described below. In order to restore these areas, the SFPUC shall ensure the following: 		applicable		
 The SFPUC shall ensure that topsoil is salvaged during grading and earthmoving activities, stockpiled separately from subsoils, and protected from erosion (e.g., covered or watered); that composting amendments are added, if needed; and that potentially compacted construction work areas are properly prepared prior to reuse of the soil in the post-construction restoration of temporarily disturbed areas. The SFPUC shall ensure that a minimum of 12 inches of topsoil is salvaged, or if there is less than 12 inches of topsoil, as much as practicable. For grassland and ruderal areas, the affected areas shall be reseeded with a native or non-invasive grass and forb seed mix. High seed application rates shall be used to help compete with the weedy seed bank. For riparian and wetland habitats, the affected areas shall be replanted with similar plants of appropriate species and density as those removed. If possible, locally native stock shall be used. For any isolated mature native tree (i.e., one that is not part of a woodland or riparian cover) to be removed that meets the criteria described below, the SFPUC shall ensure that replacement trees are planted within or in the vicinity of the project area as follows: At a minimum, for each removed mature native tree (i.e., trees that are 6 inches in diameter at breast height [dbh] or ten inches aggregate dbh for multi-trunk trees), affected areas shall be replanted with the same species on an inch-by-inch basis for any native mature tree outside the county right-of-way or as otherwise agreed to in consultation with the USFWS and CDFW. For example, eight tube trees (each 1-inch in diameter) could be planted to replace one 8-inch native tree. Other tree sizes could also be used as long as the total dbh replaces the dbh of the removed tree or trees. Trees shall be replaced within the first year after the completion of construction or as soon as possible in an area where constru				
determined by the applicable resource agencies. Minimum Success Criteria				
Unless otherwise determined by the applicable resource agencies, the success criteria for restoring temporarily disturbed areas shall be as				
follows:				
All temporarily disturbed areas shall be restored to approximate their baseline condition.				

Mitigation M	easure		Responsible Party	Reviewing and Approving Party	Monitoring and Reporting Actions	Implementation Schedule
healthy vand/or o Reveget Reveget riparian Restorat found du composi Monitoriu	regetative growth; r vegetative reprocation work shall station of grassland habitat, which shall ion areas shall be uring the 5-year motion success critering and maintenanced by the applications.	on areas shall be functional, fully established, and self-sustaining as evidenced by successive years of observed increase in vegetative cover, canopy cover, and/or plant height; successful flowering, seed set, duction over the 5-year monitoring period. art within one year of construction completion. areas shall be monitored at least once a year for 5 years. With the exception of oak trees and trees in I be monitored for 7 and 10 years, respectively, all other replacement trees shall be monitored for 5 years. monitored for target invasive plants quarterly in the first 5 years following replanting. If invasive plants are onitoring period, they shall be removed as necessary to support meeting the cover and vegetation is. Dee shall continue until the minimum success criteria specified in the table below are met, or as otherwise olde resource agencies. M SUCCESS CRITERIA FOR VEGETATION RESTORATION				
	Parameter	Field Indicator/Measurement				
	Vegetative Cover	Grassland: 70 percent absolute cover of typical native and naturalized grassland species known from the Sunol Region by the end of the fifth monitoring year. Individual Native Mature Trees: 65 percent plant survivorship by the fifth monitoring year (by the seventh monitoring year for oaks, and tenth monitoring year for trees in riparian habitat). Arroyo de la Laguna Creek Channel and Riparian Habitat: Greater than or equal to 45 percent canopy cover of target riparian species by the end of the fifth monitoring year.				
	Target Invasive Species	No more than 10 percent absolute cover of target invasive species shall remain in any given restoration area by the end of the fifth monitoring year.				
As feasible, the nonbreeding activities must wildlife biolog	Mitigation Measure M-BI-1g: Measures to Minimize Disturbance to Special-Status Bird Species As feasible, the SFPUC shall conduct tree and shrub removal in the project area and the habitat compensation areas during the nonbreeding season (generally August 16 through February 14) for migratory birds, raptors, and special-status bat species. If construction activities must occur during the breeding season for special-status birds (February 15 to August 15), the SFPUC shall retain a qualified wildlife biologist who is experienced in identifying birds and their habitat to conduct nesting-raptor surveys in and within 500 feet of the project area. Migratory bird surveys shall be conducted within 100 feet of all work areas (as feasible) unless otherwise directed by CDFW.		1. SFPUC EMB	1. SFPUC EMG	1. Ensure that contract documents include requirement to conduct tree and shrub removal during the non-breeding season, where feasible, and to provide advance notification to SFPUC of construction activities to allow a qualified biologist to perform preconstruction surveys if construction must occur during the breeding season. Ensure contract documents include appropriate language about surveys and no-disturbance buffers from the measure.	1. Design
All migratory bird and active raptor nests within these areas shall be mapped. These surveys must be conducted within two weeks prior to initiation of construction activities at any time between February 15 and August 15. If no active nests are detected during surveys, no		2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	2. Conduct survey if construction activities are to occur during the breeding season and establish buffers (if necessary) in coordination with CDFW.	2. Pre-construction	
these buffers disturbance (disturbance;	would be determir which can vary am ambient levels of n	vildlife biologist determines that the young have fledged (usually late June through mid-July). The extent of ned by a wildlife biologist in consultation with CDFW and would depend on the species' sensitivity to long species); the level of noise or construction disturbance; line of sight between the nest and the loise and other disturbances; and consideration of other topographical or artificial barriers. The wildlife these factors to assist the CDFW in making an appropriate decision on buffer distances.	3. SFPUC CM Team (qualified biologist)	3. SFPUC EMG	3. Monitor active nests (if necessary) and document activities in monitoring logs.	3. Construction
evidence of bats. If no roosting bats or evidence of bats are found in the trees, tree removal may proceed. If bats are found or evidence of		1. SFPUC EMB	1. SFPUC EMG	Ensure that contract documents include requirement for contractor to provide advance notification to SFPUC of construction activities to allow a qualified biologist to perform survey prior to tree removal.	1. Design	
		2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	Conduct pre-construction survey. If special-status bats are found or evidence of use by special-status bats is present, mark with flagging and consult with CDFW for guidance.	2. Pre-construction/ Construction	

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Mitigation Measure	Responsible Party	Reviewing and Approving Party	Monitoring and Reporting Actions	Implementation Schedule
Mitigation Measure M-BI-3: Avoidance and Protection Measures for Jurisdictional Water Bodies The SFPUC and its contractors shall minimize impacts on waters of the United States and waters of the state, including wetlands, by implementing the following measures:	1. SFPUC EMB	1. SFPUC EMG	Ensure that contract documents include wetland protection measures and streambank stabilization measures, as specified in the mitigation measure.	1. Design
 Construction activities in saturated or ponded wetlands and streams (typically during the spring and winter) shall be avoided to the maximum extent feasible. Where wetlands or other water features must be disturbed, the minimum area of disturbance necessary for construction shall be identified and the area outside avoided. Where feasible, a silt fence shall be installed adjacent to all wetlands and drainages to be avoided within 50 feet of any proposed construction activity, and signs installed indicating the required avoidance. No equipment mobilization, grading, clearing, or storage of equipment or machinery, or similar activity, shall occur until a representative of the SFPUC has inspected and approved the fencing installed around these features. This restriction applies to both onsite construction and any offsite mitigation area. The SFPUC shall ensure that the temporary fencing is continuously maintained until all construction activities are completed. No construction activities, including equipment movement, material storage, or temporary spoil stockpiling, shall be allowed within the fenced areas protecting wetlands. To minimize the degradation of wetland soils and vegetation where avoidance is infeasible, protective practices such as geotextile cushions and other materials (e.g., timber pads, prefabricated equipment pads, geotextile fabric) or vehicles with balloon tires shall be employed in saturated conditions (e.g., when there is noticeable rutting due to saturated conditions and mixing of topsoil and subsoil). In areas of temporary disturbance, the bed and banks of Arroyo de la Laguna shall be restored to pre-construction conditions after construction is complete. Exposed slopes and streambanks shall be stabilized immediately upon the completion of construction activities. The banks of Arroyo de la Laguna shall be stabilized (if disturbed during construction) using a non-vegetative material that will bind the soil initially and break down within		2. SFPUC EMG	2. Monitor to ensure that the contractor implements measures in contract documents. Document activities in monitoring logs. Report noncompliance and ensure that corrective actions are implemented.	2. Construction
Hydrology and Water Quality Mistingston Management Hydrology and Description and Description	1. SFPUC EMB	4 CERUC EMO	4. France that contract decreases include exact restaurties researched including	4 Design
Mitigation Measure M-HY-1b: Creek Restoration and Revegetation Following installation of the replacement pipeline at the Arroyo de la Laguna crossing, the SFPUC shall revegetate the disturbed creek		1. SFPUC EMG	1. Ensure that contract documents include creek restoration measures, including restoring the geometry of the disturbed creek channel to pre-existing conditions.	C C
banks with native vegetation and restore the geometry of the disturbed creek channel to pre-existing conditions. Plantings shall be monitored and maintained for up to five years to ensure stabilization of the creek channel. This mitigation measure shall be implemented in conjunction with Mitigation Measure M-BI-1f (Prepare and Implement a Vegetation Restoration Plan and Compensatory Mitigation).	2. SFPUC CM Team (qualified biologist)	2. SFPUC EMG	2. Monitor to ensure that the contractor implements measures in contract documents. Document activities in monitoring logs. Report noncompliance and ensure that corrective actions are implemented.	2. Construction
Willigation).	3. SFPUC EMG, SFPUC NRLM	3. SFPUC EMG, NRLM, and USACE, RWQCB, CDFW, and USFWS as applicable	3. Conduct monitoring and maintenance of restored areas as specified by measure. Document achievement of success criteria.	2. Post Construction
Cumulative				

Implement Mitigation Measures M-BI-1a, M-BI-1b, M-BI-1c, M-BI-1d, M-BI-1e, M-BI-1f, M-BI-1g, M-BI-1h, M-BI-3, and M-HY-1b

Notes:

CDFW = California Department of Fish and Wildlife

CM = Construction Management

EMB = Engineering Management Bureau

EMG = Environmental Management Group

NRLM = Natural Resources Land Management

RWQCB = Regional Water Quality Control Board

SFPUC = San Francisco Public Utilities Commission USACE = United States Army Corps of Engineers

USFWS = United States Fish and Wildlife Service