EXHBIIT “B”

Mitigation Monitoring and Reporting Program

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Aesthetics					
	None.				
Agricultural and Forest Resources					
	None.				
Air Quality					
AIR-1	**Mitigation Measure AIR-1**: The County shall require construction contractors to implement all the BAAQMD's Basic Construction Mitigation Measures, listed below: • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day or as directed by the County. • All haul trucks transporting soil, sand, or other loose material off-site shall be covered. • All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. • All vehicle speeds on unpaved roads shall be limited to 15 miles per hour. • All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. • Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points. • All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. • Post a publicly visible sign with the telephone number to contact at the County regarding the project. The County shall respond and take corrective action within 48 hours.	1. County shall require BAAQMD's Basic Construction Measures be included in contractor specifications. 2. Contractor implements measures in the program.	1. County reviews construction specifications. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction. 2. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Aesthetics					
	None.				
Agricultural and Forest Resources					
	None.				
Air Quality					
AIR-1	**Mitigation Measure AIR-1**: The County shall require construction contractors to implement all the BAAQMD's Basic Construction Mitigation Measures, listed below: • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day or as directed by the County. • All haul trucks transporting soil, sand, or other loose material off-site shall be covered. • All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. • All vehicle speeds on unpaved roads shall be limited to 15 miles per hour. • All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. • Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points. • All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. • Post a publicly visible sign with the telephone number to contact at the County regarding the project. The County shall respond and take corrective action within 48 hours.	1. County shall require BAAQMD's Basic Construction Measures be included in contractor specifications. 2. Contractor implements measures in the program.	1. County reviews construction specifications. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction. 2. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources					
BIO-1	**Mitigation Measure BIO-1:** If surface water is present within the work area during construction, the County and/or contracted biologist shall implement the following: • Cofferdams, flow bypass pipes, or diversion dams shall be used to ensure continued flow around the work area. • Adequate sediment and turbidity control measures shall be implemented. One or more fences of filter fabric shall be constructed across stream channels downstream of the lowermost cofferdams to reduce turbidity and sedimentation downstream of the stream construction sites during removal of cofferdams and until water clarity is re-established once streamflow is re-introduced to the stream channel in the work area. • The presence of surface water, such as instream flow or pool habitat, would create the potential for salmonids to occur in the work area. To relocate salmonids from the work area following installation of a cofferdam or diversion dam/bypass pipes, a fish rescue and relocation effort shall be conducted by qualified biologists, with approval from NMFS, utilizing NMFS prescribed methods for the safe handling of salmonids. • The biologist shall monitor the construction sites during placement and removal of cofferdams or channel diversions to ensure that any adverse effects to salmonids are minimized. The biologist, following NMFS approval, shall be on site during all dewatering events to capture, handle, and safely relocate steelhead. • Consistent with Mitigation Measures HAZ-1 and HYD-1, contractors shall have a supply of erosion control materials, and fuel and hydraulic fluid spill containment supplies onsite to facilitate a quick response to unanticipated storm events, or fuel or hydraulic fluid spill emergencies. • Consistent with Mitigation Measure HYD-1, construction equipment used within the creek channel shall be checked each day prior to work within the creek channel (top of bank to top of bank) and, if necessary, action will be taken to prevent fluid leaks. If leaks occur during work in the channel (top of bank to top of bank), the County or its contractor shall contain the spill and remove the affected soils. • All pumps used to dewater work areas or divert live stream flow shall be screened and maintained throughout the construction period to avoid entrainment of steelhead and screens will comply with NMFS' Fish Screening Criteria for Anadromous Salmonids.	1. County shall include in the construction specifications requirements for installation of cofferdams for construction activities proposed at Sites 1 through 3. 2. County or County-approved biologist shall implement specified construction measures in the event that surface water is present during project construction.	1. County review construction specifications and ensure measures are consistent with those identified under Mitigation Measures HAZ-1 and HYD-1. 2. County documents that measures are being implemented	1. County, qualified biologist 2. County-approved biologist	1. Prior to construction 2. During construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-1 (cont.)	• Fill material for cofferdams shall be fully confined with the use of plastic sheeting, sheetpiles, sandbags, or with other non-porous containment methods, such that sediment does not come in contact with stream flow or in direct contact with the natural streambed. All loose fill material for cofferdams or access ramps shall be completely removed from the channel by October 15, and the creek must be returned to a natural grade and substrate condition. • Once construction is completed, all temporary, construction-related, project introduced material (pipe, gravel, cofferdam, bypass pipes, etc.) must be removed.				
BIO-2	**Mitigation Measure BIO-2:** Riparian zones impacted during construction shall be restored following construction. Temporarily and permanently impacted riparian areas shall be replaced at a ratio of 1:1 or as otherwise determined in coordination with the appropriate agencies (Corps, NMFS, USFWS, RWQCB, and CDFW). After construction is completed, riparian zones shall be replanted with an assemblage of native plants appropriate to the local watershed and for the growing conditions within Los Trancos Creek. Sites must receive supplemental irrigation if necessary and monitored annually for a period of at least three years. Mitigation and monitoring specifications will be detailed in a Riparian Restoration Plan submitted to the Corps, NMFS, USFWS, RWQCB, and CDFW prior to project completion. At a minimum, the plan shall establish photo points to document pre-project riparian stream conditions in the work area and restoration success over time, specify the native plants to be used for restoration and the replacement ratio, establish success criteria and a monitoring schedule, and develop a contingency plan if restoration goals are not met within three years. At a minimum, the site shall meet the following success criteria: • Temporarily impacted areas are returned to pre-project conditions or greater • No significant undercutting, scour or erosion is present within, upstream, or downstream of the work area. • Replacement trees have a minimum 70% survival rate • The project site is not dominated by invasive vegetation.	1. County shall review construction specifications to ensure that replanting requirements are incorporated. 2. County shall replant affected riparian zones at a 1:1 ratio and shall submit Riparian Restoration Plan to CDFW for review. 3. County shall implement Riparian Restoration Plan.	1. County review construction specifications. 2. County prepare Riparian Restoration Plan and replant riparian zones. 3. County shall ensure that Riparian Restoration Plan is implemented.	1. County 2. County, CDFW 3. County	1. Prior to construction 2. Following construction 3. After construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-3	**Mitigation Measure BIO-3:** The County and/or contracted biologist shall implement the following measures to avoid and minimize impacts on California red-legged frog and western pond turtle: • Ground disturbance and construction footprints shall be minimized to the greatest degree feasible. • A qualified biological resource monitor shall conduct worker awareness training for construction personnel, addressing the species' basic biology and identifying characteristics, legal status, job-specific protection measures, and penalties for non-compliance. • A qualified biologist shall conduct pre-construction surveys for California red-legged frog and western pond turtle no more than 24 hours prior to construction at the three bank stabilization sites and provide full-time monitoring during any cofferdam installation or dewatering activities to determine if either of these species is present within the construction area. A qualified biologist shall conduct weekly construction monitoring and shall be the contact person if a frog or turtle is observed in the work area and further identification is required. Should a California red-legged frog or western pond turtle, or an unidentified frog or turtle, be observed in the work area then construction activities shall cease until the individual leaves the area. If necessary, a biologist could relocate the western pond turtle beyond the work area. The USFWS shall be notified if a California red-legged frog is identified. If necessary, a California red-legged frog could be relocated by a USFWS-approved biologist with express permission to relocate red-legged frogs for this project.	1. County shall include avoidance and minimization measures in the construction specifications. 2. County-approved biologist shall conduct worker awareness training. 3. Qualified biologist shall conduct weekly construction monitoring and in the event that a California red-legged frog or western pond turtle is observed, shall contact the USFWS.	1. County to review construction specifications. 2. County ensures that biologist conducts worker awareness training. 3. Qualified biologist documents that measures are being implemented.	1. County 2. Onsite foreman, County 3. Qualified biologist, County	1. Prior to construction 2. No more than 2 weeks prior to construction 3. During construction
BIO-4	**Mitigation Measure BIO-4:** No more than two weeks prior to commencement of construction activities, including but not limited to surveying, grading, tree-trimming, and tree-felling, a biologist approved by the County shall conduct a nesting bird survey to determine whether nesting birds occur within 250 feet of the project area or nesting raptors occur within 500 feet of the project area. If nesting birds and raptors do not occur within 250 and 500 feet of the project area, respectively, then no further action is required. Should any active nests be discovered in or near proposed construction zones, the surveying biologist shall, based upon site conditions and type of species, determine in consultation with CDFW an appropriate construction buffer to be implemented as part of the project. Buffers are typically 500 feet for raptors and 250 feet for non-raptors but may be decreased or increased based upon species-specific, site-specific, activity-specific considerations including the nesting species in question, baseline noise levels, type and decibel output of construction equipment to be used, and whether disturbance would occur within line-of-sight of the nest. Reduced buffers may be allowed if a full-time biologist is present to monitor the nest and has authority to halt construction if bird behavior indicates continued activities could lead to nest failure.	1. County-approved biologist shall conduct nesting bird survey. 2. In the event that any active nests are discovered near the construction zone, biologist shall contact CDFW to establish buffer. 3. County shall include in its construction specifications that buffer zones shall be avoided during construction	1. County obtains appropriate biologist to conduct survey. 2. County consults with CDFW. 3. County documents that measures are being implemented.	1. Qualified biologist, County 2. County, CDFW 3. County	1. No more than 2 weeks prior to construction, and prior to vegetation and tree removal 2. Prior to construction 3. During construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-5	**Mitigation Measure BIO-5:** Prior to construction activities at each of the three proposed bank stabilization sites, a biologist approved by the County shall survey the work area to identify if woodrat nests are present and occupied. Occupied nests shall be avoided, if possible, and the avoidance area clearly understood by the construction team through the use of maps, flagging, or exclusion fencing. If avoidance is not feasible, and if approved by CDFW, the nest shall be disassembled by hand and relocated beyond the work area.	1. County-approved biologist shall conduct survey. 2. If occupied nests are discovered, County biologist shall establish avoidance area. If avoidance is not feasible, biologist shall disassemble by hand and relocate outside of work area.	1. County obtains appropriate biologist to conduct survey. 2. County documents that measures are being implemented.	1. Qualified biologist, County 2. County	1. Prior to construction 2. Prior to construction
BIO-6	**Mitigation Measure BIO-6** A pre-construction survey for special-status bats shall be conducted by a qualified wildlife biologist in advance of tree trimming, topping or removal, to characterize potential bat habitat and identify active roost sites. Should potential roosting habitat or active bat roosts be found in trees, the following measures shall be implemented: 1. Trimming, topping or removal of trees, shall occur when bats are active, approximately between the periods of March 1 to April 15 and August 15 to October 15; outside of bat maternity roosting season (approximately April 15 to August 15) and outside of months of winter torpor (approximately October 15 to February 28), to the extent feasible. 2. If trimming, topping, or removal of trees during the periods when bats are active is not feasible and bat roosts being used for maternity or hibernation purposes are found on or in the immediate vicinity of the project site where these activities are planned, a no-disturbance buffer of 100 feet shall be established around these roost sites until they are determined inactive by a qualified wildlife biologist. A 100-foot no disturbance buffer is a typical protective buffer distance; however, it may be modified by the qualified wildlife biologist depending on existing screening around the roost site (such as dense vegetation or a large rock formation) as well as the type of construction activity which would occur around the roost site. 3. The qualified wildlife biologist shall be present during tree trimming if bat roosting habitat or active non-maternity or hibernation bat roosts are present (e.g. daytime bachelor roosts). Trees with roosts shall be disturbed only when no rain is occurring or is forecast to occur for 3 days and when daytime temperatures are at least 50 degrees Fahrenheit (°F). Trimming, topping or removal of trees, containing or suspected to contain non-maternity or hibernation bat roost sites shall be done under supervision of the qualified biologist and follow a two-step removal process:	1. County shall contract with a qualified biologist to conduct pre-construction surveys for bat surveys. 2. Biologist shall perform a Habitat Potential Screening, make recommendations as necessary, and County implements appropriate measures.	1. County executes contract. 2. County documents that appropriate recommendations are implemented.	1. Qualified biologist, County 2. County	1. Prior to construction 2. Prior to construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-6 (cont.)	a. On the first day of tree trimming, topping or removal and under supervision of the qualified wildlife biologist, branches and limbs not containing cavities or fissures in which bats could roost, shall be cut only using chainsaws. b. On the following day and under the supervision of the qualified wildlife biologist, the remainder of the tree or structure may be removed, either using chainsaws or other equipment (e.g. excavator or backhoe).				
BIO-7	**Mitigation Measure BIO-7:** A qualified botanist shall survey the project area during the blooming period for western leatherwood (January through April) to identify any individuals within the project boundary. If western leatherwood is identified within the project boundary, it shall be avoided to the extent feasible. If it cannot be avoided, the County shall consult with CDFW to coordinate relocation. To the extent feasible, special-status plants that would be impacted by the project shall be relocated within local suitable habitat. This can be done either through salvage and transplanting or by collection and propagation of seeds or other vegetative material. Any plant relocation shall be done under the supervision of a qualified biologist. The transplanted or replacement plantings shall be monitored for a minimum of three years to ensure no net loss of individuals.	1. County conducts preconstruction surveys. 2. Incorporate survey results and avoidance recommendations into construction specifications. 3. Avoid buffer zones during construction and/or transplant leatherwood, as necessary.	1. County-approved biologist conducts survey and documents findings. 2. County reviews construction specifications for inclusion of recommendations. 3. County documents that measures are being implemented	1. County-approved biologist. 2. County. 3. County.	1. Prior to construction. 2. Prior to construction. 3. Prior to and during construction.
BIO-8	**Mitigation Measure BIO-8:** Project materials shall be placed in locations and manners that would not impair surface water flow into or out of any water of the United States. If surface flow is present during construction, dewatering would ensure that near-normal downstream flows are maintained. Fill shall consist of suitable material and placement such that it would not be eroded by future high flows. Following completion of construction, temporary fill shall be removed to upland areas, dredged material shall be returned to its original location, and the affected areas shall be restored to preconstruction elevations as appropriate. The area upstream and downstream of the project reach shall be monitored annually for a three year period post construction to qualitatively assess channel conditions. Temporarily and permanently impacted waters of the United States shall be replaced at a ratio of 1:1, or as otherwise determined in coordination with the RWQCB and Corps.	1. County shall ensure that construction specifications include appropriate measures. 2. Contractor shall implement construction measures. 3. County shall qualitatively monitor bank stabilization sites	1. County review construction specifications. 2. County monitor to ensure compliance. 3. County documents that measures are being implemented for up to 5 years.	1. County 2. County 3. County	1. Prior to construction 2. During construction 3. After construction (up to 5 years)

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Cultural Resources					
CUL-1	**Mitigation Measure CUL-1: Preconstruction Training and Cultural Resources Monitoring.** Prior to project construction, on-site personnel shall attend a mandatory pre-project training led by a Secretary of the Interior-qualified archaeologist. The training will outline the general archaeological sensitivity of the area (without providing site specifics) and the procedures to follow in the event an archaeological resource and/or human remains are inadvertently discovered. Prior to trail improvements, a Secretary of the Interior-qualified archaeologist shall establish an Archaeologically Sensitive Area (ASA) that shall remain in place during construction activities within and adjacent to the ASA. The ASA will include the known site boundaries and a 50-foot buffer to the north and south along the trail alignment. No personnel associated with project activities would be allowed access within the ASA outside of the immediate area (the trail itself and a 3-foot-wide buffer) of trail restoration work. The archaeologist shall also monitor any trail improvements within the ASA to ensure that ground disturbing activities do not adversely affect the site. Monitoring will occur according to the procedures outlined below. ***Cultural Resources Monitoring.*** Prior to authorization to proceed, a Secretary of the Interior-qualified archaeologist shall prepare a cultural resources monitoring plan. The County of San Mateo shall review and approve the plan. • Monitoring shall be required within the established ASA (known site boundaries of CA-SMA-292 and a 50-foot buffer to the north and south and along the Alpine Road Trail) as well as for excavation greater than 2 feet deep within 100 feet of Los Trancos Creek. The plan shall include (but not be limited to) the following issues: • Training program for all construction and field workers involved in site disturbance; • Person(s) responsible for conducting monitoring activities, including Native American monitors; • Person(s) responsible for overseeing and directing the monitors; • How the monitoring shall be conducted and the required format and content of monitoring reports; • Schedule for submittal of monitoring reports and person(s) responsible for review and approval of monitoring reports; • Protocol for notifications in case of encountering of cultural resources, as well as methods of dealing with the encountered resources (e.g., collection, identification, curation); • Methods to ensure security of cultural resources sites;	1. County shall contract with an archaeologist who meets the Secretary of the Interior's Standards for professional archaeology to monitor ground-disturbing activities. In the event subsurface cultural resources are discovered, construction within 100 feet of the find shall be halted and the archeologist shall notify the County. 2. The archaeologist shall prepare an ARDTP.	1. County executes contract. 2. Archaeological monitor shall notify the County of the discovery. 3. Archaeologist prepares ARDTP, County reviews	1. County, qualified archaeologist. 2. Archaeological monitor, County. 3. Qualified archaeologist, County.	1. Prior to and during construction 2. During construction 3. Following construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Cultural Resources (continued)					
CUL-1 (cont.)	• Protocol for notifying local authorities (i.e. Sheriff, Police) should site looting and other illegal activities occur during construction. During the course of the construction monitoring, the archaeologist may adjust the frequency—from continuous to intermittent—of the monitoring based on the conditions and professional judgment regarding the potential to impact resources. If archaeological materials are encountered, all soil disturbing activities within 50 feet in all directions of the find shall cease until the resource is evaluated. The archaeological monitor shall immediately notify the County of San Mateo of the encountered archaeological resource. The archaeological monitor shall also notify the Caltrans Cultural Resources Studies Office (District 4) at (510) 286-6336 if archaeological resources are encountered within the Caltrans right-of-way. The monitor shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological resource, present the findings of this assessment to the County. In the event archaeological resources qualifying as either historical resources pursuant to CEQA Section 15064.5 or as unique archaeological resources as defined by Public Resources Code 21083.2 are encountered preservation in place shall be the preferred manner of mitigation. If preservation in place is not feasible, the County of San Mateo shall implement an Archaeological Research Design and Treatment Plan (ARDTP). The project archaeologist and the County of San Mateo shall meet to determine the scope of the ARDTP. The ARDTP shall identify how the proposed data recovery program would preserve the significant information the archaeological resource contains. The ARDTP shall identify the scientific/historic research questions applicable to the expected resource, the data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. The results of the investigation shall be documented in a technical report that provides a full artifact catalog, analysis of items collected, results of any special studies conducted, and interpretations of the resource within a regional and local context. The County of San Mateo shall submit all technical documents to the Northwest Information Center of the California Historical Resources Information System.				
CUL-2	**Mitigation Measure CUL-2: Inadvertent Discovery of Cultural Resources.** If prehistoric or historic-period archaeological resources are encountered, all construction activities within 50 feet in all directions shall halt and the County of San Mateo shall be notified. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include stone,	1. County shall review construction specifications to ensure procedures for inadvertent discovery of cultural resources are included.	1. County review construction specifications. 2. The contractor shall notify the County of the discovery.	1. County 2. County 3. County and qualified archaeologist.	1. Prior to construction. 2. During construction. 3. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Cultural Resources (continued)					
CUL-2 (cont.)	concrete, or adobe footings and walls; filled wells or privies; and deposits of metal, glass, and/or ceramic refuse. A Secretary of the Interior-qualified archaeologist shall inspect the findings within 24 hours of discovery. If the archaeologist determines that the project could damage a historical resource or a unique archaeological resource (as defined pursuant to the CEQA Guidelines), mitigation shall be implemented in accordance with PRC Section 21083.2 and Section 15126.4 of the CEQA Guidelines, with a preference for preservation in place. Consistent with Section 15126.4(b)(3), preservation in place may be accomplished through planning construction to avoid the resource; incorporating the resource within open space; capping and covering the resource; or deeding the site into a permanent conservation easement. If avoidance is not feasible, a qualified archaeologist shall prepare and implement a detailed treatment plan in consultation with the County of San Mateo and the affiliated Native American tribe(s), if applicable. Treatment of unique archaeological resources shall follow the applicable requirements of PRC Section 21083.2. Treatment for most resources would consist of (but would not be not limited to) sample excavation, artifact collection, site documentation, and historical research, with the aim to target the recovery of important scientific data contained in the portion(s) of the significant resource to be impacted by the project. The treatment plan shall include provisions for analysis of data in a regional context, reporting of results within a timely manner, curation of artifacts and data at an approved facility, and dissemination of reports to local and state repositories, libraries, and interested professionals.	2. In the event of a historic-period archaeological resource discovery, construction in the area shall be halted and the contractor shall notify the County. 3. Qualified archaeologist shall be contacted and inspect the findings to determine appropriate mitigation and feasibility of preservation.	3. Qualified archaeologist shall inspect the findings and determine appropriate next steps, consistent with PRC Section 21083.2 and Section 15126.4 of the CEQA Guidelines.		
CUL-3	**Mitigation Measure CUL-3: Inadvertent Discovery of Human Remains.** If human remains are encountered during ground disturbing activities, State Health and Safety Code Section 7050.5 requires that no further disturbance will occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission. The Native American Heritage Commission will then identify the person(s) thought to be the Most Likely Descendent of the deceased Native American, who will make recommendations for the treatment of any human remains.	1. County shall review construction specifications to ensure procedures for human remains discovery are included. 2. In the event human remains are discovered, construction in the area shall be halted and the contractor shall notify the County Coroner.	1. County review construction specifications. 2. The contractor shall notify County of the discovery.	1. County 2. County	1. Prior to construction. 2. During construction.
Geology and Soils					
	None.				

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Climate Change					
	None.				
Hazards and Hazardous Materials					
HAZ-1	**Mitigation Measure HAZ-1:** The County shall require the construction contractor to use the following best management practices (BMPs) to minimize potential adverse effects of the project to groundwater and soils from chemicals used during construction activities: • Follow manufacturer's recommendations on use, storage and disposal of chemical products used in construction; • Avoid overtopping construction equipment fuel gas tanks; • Provide secondary containment for any hazardous materials temporarily stored onsite; • During routine maintenance of construction equipment, properly contain and remove grease and oils; • Perform regular inspections of construction equipment and materials storage areas for leaks and maintain records documenting compliance with the storage, handling and disposal of hazardous materials; and • Properly dispose of discarded containers of fuels and other chemicals	1. County shall review construction specifications to ensure that BMPs for handling hazardous materials are included. 2. Contractor implements required BMPs.	1. County review construction specifications and ensure consistency with Measure BIO-1. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction. 2. During construction.
HAZ-2	**Mitigation Measure HAZ-2:** The County shall require the construction contractor to follow the procedures below in the event contaminated soil or groundwater is encountered (either visually or through odor detection) during construction: • Stop work in the vicinity of the suspected material; • Secure the area of suspected contamination; • Notify the County and appropriate regulatory agencies; • Retain a qualified environmental specialist to identify the nature and extent of contamination; • Contain the areas of contamination; • Perform appropriate clean up procedures (such as segregate, profile, and dispose of all contaminated soil) in accordance with the overseeing agency requirements. Required disposal method will depend on the type and concentration of contamination identified; and • Any site investigation or remediation shall be performed in accordance with applicable regulations. Work shall not resume in the area(s) affected until the above measures have been implemented under the oversight of the County or regulatory agency, as appropriate.	1. County shall require construction specifications include protective measures. 2. Contractor implements required measures in the event contaminated soil or groundwater is encountered.	1. County review construction specifications. 2. County documents that measures are being implemented.	1. Construction contractor, County 2. County	1. Prior to construction. 2. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Hazards and Hazardous Materials (continued)					
HAZ-3	**Mitigation Measure HAZ-3:** The contractor(s) shall identify underground utility lines such as natural gas, electricity, sewer, telephone, fuel, and water lines that may be encountered during excavation work. Information regarding the size, color, and location of existing utilities will be confirmed by the utility service provider. A detailed engineering and construction plan that identifies construction methods and protective measures to minimize impacts on aboveground and belowground utilities shall be prepared. Construction shall be scheduled to minimize or avoid interruption of utility services to customers. The contractor(s) shall promptly reconnect any disconnected utility lines.	1. County shall require construction specifications include utility identification, preparation of an engineering and construction plan, protection and avoidance measures. 2. Contractor observes required restrictions.	1. County reviews construction specifications, Contractor to notify USA prior to digging. 2. County documents that measures are being implemented.	1. Construction contractor, County 2. County	1. Prior to, and during, construction 2. During construction
HAZ-4	**Mitigation Measure HAZ-4:** The County shall require the construction contractor to ensure that the following fire safety construction practices are implemented: • Earthmoving and portable equipment with internal combustion engines shall be equipped with a spark arrestor to reduce the potential for igniting a wildland fire; • Appropriate fire suppression equipment shall be maintained at the construction site; • Flammable materials shall be removed to a distance of 10 feet from any equipment that could produce a spark, fire, or flame; and Construction personnel shall be trained in fire safe work practices, use of fire suppression equipment, and procedures to follow in the event of a fire.	1. County shall require construction specifications include fire safety construction practices. 2. Contractor implements required fire hazard construction practices.	1. County review construction specifications. 2. County documents that measures are being implemented.	1. Construction contractor, County 2. County	1. Prior to construction. 2. During construction.
Hydrology and Water Quality					
HYD-1	**Mitigation Measure HYD-1:** The County's contractor shall prepare a comprehensive stormwater pollution and erosion control plan for the project. Erosion control measures shall be in place prior to the start of construction activities and remain in place throughout all phases of project construction. The plan must provide a BMP monitoring and maintenance schedule and identify parties responsible for monitoring and maintenance of construction-phase BMPs. Erosion and water quality control measures identified in the plan must comply with the County of San Mateo Department of Public Work's *Contract Requirements for Erosion and Sediment Control* and *Contract Requirements for Water Pollution Control for Construction in Sensitive Areas*, and at a minimum include, but not be limited to, the following measures (County of San Mateo 2013a; County of San Mateo, 2013b):	1. County shall require construction specifications include requirements regarding preparation and implementation of a comprehensive stormwater pollution and erosion control plan. 2. Contractor implements BMPs.	1. County reviews construction specifications and ensure consistency with Measure BIO-1. 2. County documents that BMPs are being implemented.	1. County 2. County	1. Prior to construction. 2. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Hydrology and Water Quality (continued)					
HYD-1 (cont.)	• Temporary erosion control measures (such as silt fences, staked straw bales, and temporary revegetation) shall be employed for disturbed areas. No disturbed surfaces will be left without erosion control measures in place. • Sediment shall be retained on-site by a system of sediment basins, traps, or other appropriate measures. • A spill prevention and countermeasure plan shall be developed that will identify proper storage, collection, and disposal measures for potential pollutants (such as fuel, fertilizers, pesticides, etc.) used on-site. The plan will also require the proper storage, handling, use, and disposal of petroleum products. • Construction activities shall be scheduled to minimize land disturbance during peak runoff periods and to the immediate area required for construction. Existing vegetation will be retained where possible. To the extent feasible, grading activities shall be limited to the immediate area required for construction. • Surface waters, including ponded waters, must be diverted away from areas undergoing grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. Diversion activities must not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any temporary dam or other artificial obstruction constructed must only be built from materials such as clean gravel which will cause little or no siltation. Normal flows must be restored to the affected stream immediately upon completion of work at that location. • Sediment shall be contained when conditions are too extreme for treatment by surface protection. Temporary sediment traps, filter fabric fences, inlet protectors, vegetative filters and buffers, or settling basins shall be used to detain runoff water long enough for sediment particles to settle out. Store, cover, and isolate construction materials, including topsoil and chemicals, to prevent runoff losses and contamination of groundwater. • Topsoil removed during construction shall be carefully stored and treated as an important resource. Berms shall be placed around topsoil stockpiles to prevent runoff during storm events. All removed topsoil shall be reused during construction to the extent feasible. Unused topsoil, if any, shall be broadly redistributed to the surrounding ruderal/developed areas in such a manner that topography and vegetation cover would not be adversely impacted. • Establish fuel and vehicle maintenance areas away from all drainage courses and design these areas to control runoff. • Disturbed areas will be re-vegetated after completion of construction activities. • All necessary permits and approvals shall be obtained. • Provide sanitary facilities for construction workers.				

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Land Use and Planning					
	None.				
Mineral Resources					
	None.				
Noise					
NOI-1	**Mitigation Measure NOI-1:** Signs shall be posted at the bank stabilization sites and each trail segment being repaved, for the duration of work at the respective sites or segments, that include permitted construction days and hours, a day and evening contact number for the job site, and a contact number with San Mateo County in the event of noise complaints. An onsite complaint and enforcement manager shall track and respond to noise complaints.	1. County shall require construction specifications include signage requirement. 2. Contractor posts signage with contact number and permitted construction days and hours.	1. County reviews construction specifications. 2. County documents that signage is posted and enforcement manager tracks and responds to noise complaints.	1. County 2. County	1. Prior to construction 2. During construction
NOI-2	**Mitigation Measure NOI-2:** Project construction shall minimize any unnecessary noise in the area including, but not limited to, the following measures: • No amplified sources (e.g., stereo "boom boxes") shall be used in the vicinity of residences during project construction. • Construction equipment noise shall be minimized during project construction by muffling and shielding intakes and exhaust on construction equipment (per the manufacturer's specifications) and by shrouding or shielding impact tools.	1. County shall require construction specifications include noise minimization measures. 2. Contractor observes these measures.	1. County reviews construction specifications. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction 2. During construction
NOI-3	**Mitigation Measure NOI-3:** The County shall prohibit construction contractors from using vibratory rollers within 25 feet from residences during project construction. Where trail rehabilitation work would occur within 25 feet from residences, the County may require the contractors to use walk-behind rollers when operating in close proximity to these homes.	1. County shall require construction specifications include restrictions on use of vibratory rollers. 2. Contractor observes required restrictions.	1. County reviews construction specifications. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction 2. During construction
Population and Housing					
	None.				

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Public Services					
	None.				
Recreation					
	None.				
Transportation/Traffic					
TRA-1	**Mitigation Measure TRA-1:** The County shall require the construction contractor(s) to prepare and implement a traffic control plan to reduce traffic impacts on the roadways at and near the work sites, as well as to reduce potential traffic safety hazards and ensure adequate access for emergency responders and construction vehicles, as appropriate. The County and construction contractor(s) shall coordinate development and implementation of this plan with the Town of Portola Valley, City of Menlo Park, and Caltrans, as appropriate. To the extent applicable, the traffic control plan shall conform to the California Manual on Uniform Traffic Control Devices (MUTCD), Part 6 (Temporary Traffic Control) (Caltrans, 2012b). The traffic control plan shall include, but not be limited to, the following elements: • Circulation and detour plans to minimize impacts on local road circulation during road and lane closures. Flaggers and/or signage shall be used to guide vehicles through and/or around the construction zone. • Identifying truck routes designated by the County. Haul routes that minimize truck traffic on local roadways shall be utilized to the extent possible. • Sufficient staging areas for trucks accessing construction zones to minimize disruption of access to adjacent public right-of-ways. • Controlling and monitoring construction vehicle movement through the enforcement of standard construction specifications by on-site inspectors. • Scheduling truck trips outside the peak morning and evening commute hours to the extent possible. • Limiting the duration of road and lane closures to the extent possible. • Construction activities that may encroach on bicycle routes or multi-use paths, advance warning signs (e.g., “Bicyclists Allowed Use of Full Lane” and/or “Share the Road”) shall be posted that indicate the presence of such users. • Implementing roadside safety protocols. Advance “Road Work Ahead” warning and speed control signs (including those informing drivers of State legislated double fines for speed infractions in a construction zone) shall be posted to reduce speeds and provide safe traffic flow through the work zone.	1. County shall require construction specifications include traffic control plan. 2. Contractor implements measures.	1. County reviews construction specifications. 2. County documents that traffic control plan measures are being implemented.	1. County 2. County	1. Prior to construction 2. During construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Transportation/Traffic (continued)					
TRA-1 (cont.)	• Coordinating construction administrators of police and fire stations (including all fire protection agencies), and recreational facility managers. Operators shall be notified in advance of the timing, location, and duration of construction activities and the locations of detours and lane closures, where applicable. Repairing and restoring affected roadway rights-of way to their original condition after construction is completed.	3.	3.	3.	3.
Utilities and Service Systems					
	None.				

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources					
BIO-1	**Mitigation Measure BIO-1:** If surface water is present within the work area during construction, the County and/or contracted biologist shall implement the following: • Cofferdams, flow bypass pipes, or diversion dams shall be used to ensure continued flow around the work area. • Adequate sediment and turbidity control measures shall be implemented. One or more fences of filter fabric shall be constructed across stream channels downstream of the lowermost cofferdams to reduce turbidity and sedimentation downstream of the stream construction sites during removal of cofferdams and until water clarity is re-established once streamflow is re-introduced to the stream channel in the work area. • The presence of surface water, such as instream flow or pool habitat, would create the potential for salmonids to occur in the work area. To relocate salmonids from the work area following installation of a cofferdam or diversion dam/bypass pipes, a fish rescue and relocation effort shall be conducted by qualified biologists, with approval from NMFS, utilizing NMFS prescribed methods for the safe handling of salmonids. • The biologist shall monitor the construction sites during placement and removal of cofferdams or channel diversions to ensure that any adverse effects to salmonids are minimized. The biologist, following NMFS approval, shall be on site during all dewatering events to capture, handle, and safely relocate steelhead. • Consistent with Mitigation Measures HAZ-1 and HYD-1, contractors shall have a supply of erosion control materials, and fuel and hydraulic fluid spill containment supplies onsite to facilitate a quick response to unanticipated storm events, or fuel or hydraulic fluid spill emergencies. • Consistent with Mitigation Measure HYD-1, construction equipment used within the creek channel shall be checked each day prior to work within the creek channel (top of bank to top of bank) and, if necessary, action will be taken to prevent fluid leaks. If leaks occur during work in the channel (top of bank to top of bank), the County or its contractor shall contain the spill and remove the affected soils. • All pumps used to dewater work areas or divert live stream flow shall be screened and maintained throughout the construction period to avoid entrainment of steelhead and screens will comply with NMFS' Fish Screening Criteria for Anadromous Salmonids.	1. County shall include in the construction specifications requirements for installation of cofferdams for construction activities proposed at Sites 1 through 3. 2. County or County-approved biologist shall implement specified construction measures in the event that surface water is present during project construction.	1. County review construction specifications and ensure measures are consistent with those identified under Mitigation Measures HAZ-1 and HYD-1. 2. County documents that measures are being implemented	1. County, qualified biologist 2. County-approved biologist	1. Prior to construction 2. During construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-1 (cont.)	• Fill material for cofferdams shall be fully confined with the use of plastic sheeting, sheetpiles, sandbags, or with other non-porous containment methods, such that sediment does not come in contact with stream flow or in direct contact with the natural streambed. All loose fill material for cofferdams or access ramps shall be completely removed from the channel by October 15, and the creek must be returned to a natural grade and substrate condition. • Once construction is completed, all temporary, construction-related, project introduced material (pipe, gravel, cofferdam, bypass pipes, etc.) must be removed.				
BIO-2	**Mitigation Measure BIO-2:** Riparian zones impacted during construction shall be restored following construction. Temporarily and permanently impacted riparian areas shall be replaced at a ratio of 1:1 or as otherwise determined in coordination with the appropriate agencies (Corps, NMFS, USFWS, RWQCB, and CDFW). After construction is completed, riparian zones shall be replanted with an assemblage of native plants appropriate to the local watershed and for the growing conditions within Los Trancos Creek. Sites must receive supplemental irrigation if necessary and monitored annually for a period of at least three years. Mitigation and monitoring specifications will be detailed in a Riparian Restoration Plan submitted to the Corps, NMFS, USFWS, RWQCB, and CDFW prior to project completion. At a minimum, the plan shall establish photo points to document pre-project riparian stream conditions in the work area and restoration success over time, specify the native plants to be used for restoration and the replacement ratio, establish success criteria and a monitoring schedule, and develop a contingency plan if restoration goals are not met within three years. At a minimum, the site shall meet the following success criteria: • Temporarily impacted areas are returned to pre-project conditions or greater • No significant undercutting, scour or erosion is present within, upstream, or downstream of the work area. • Replacement trees have a minimum 70% survival rate • The project site is not dominated by invasive vegetation (defined as less than 20% cover of invasive species by Year 3).	1. County shall review construction specifications to ensure that replanting requirements are incorporated. 2. County shall replant affected riparian zones at a 1:1 ratio and shall submit Riparian Restoration Plan to CDFW for review. 3. County shall implement Riparian Restoration Plan.	1. County review construction specifications. 2. County prepare Riparian Restoration Plan and replant riparian zones. 3. County shall ensure that Riparian Restoration Plan is implemented.	1. County 2. County, CDFW 3. County	1. Prior to construction 2. Following construction 3. After construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-3	**Mitigation Measure BIO-3:** The County and/or contracted biologist shall implement the following measures to avoid and minimize impacts on California red-legged frog and western pond turtle: • Ground disturbance and construction footprints shall be minimized to the greatest degree feasible. • A qualified biological resource monitor shall conduct worker awareness training for construction personnel, addressing the species' basic biology and identifying characteristics, legal status, job-specific protection measures, and penalties for non-compliance. • A qualified biologist shall conduct pre-construction surveys for California red-legged frog and western pond turtle no more than 24 hours prior to construction at the three bank stabilization sites and provide full-time monitoring during any cofferdam installation or dewatering activities to determine if either of these species is present within the construction area. A qualified biologist shall conduct weekly construction monitoring and shall be the contact person if a frog or turtle is observed in the work area and further identification is required. Should a California red-legged frog or western pond turtle, or an unidentified frog or turtle, be observed in the work area then construction activities shall cease until the individual leaves the area. If necessary, a biologist could relocate the western pond turtle beyond the work area. The USFWS shall be notified if a California red-legged frog is identified. If necessary, a California red-legged frog could be relocated by a USFWS-approved biologist with express permission to relocate red-legged frogs for this project.	1. County shall include avoidance and minimization measures in the construction specifications. 2. County-approved biologist shall conduct worker awareness training. 3. Qualified biologist shall conduct weekly construction monitoring and in the event that a California red-legged frog or western pond turtle is observed, shall contact the USFWS.	1. County to review construction specifications. 2. County ensures that biologist conducts worker awareness training. 3. Qualified biologist documents that measures are being implemented.	1. County 2. Onsite foreman, County 3. Qualified biologist, County	1. Prior to construction 2. No more than 2 weeks prior to construction 3. During construction
BIO-4	**Mitigation Measure BIO-4:** No more than two weeks prior to commencement of construction activities, including but not limited to surveying, grading, tree-trimming, and tree-felling, a biologist approved by the County shall conduct a nesting bird survey to determine whether nesting birds occur within 250 feet of the project area or nesting raptors occur within 500 feet of the project area. If nesting birds and raptors do not occur within 250 and 500 feet of the project area, respectively, then no further action is required. Should any active nests be discovered in or near proposed construction zones, the surveying biologist shall, based upon site conditions and type of species, determine in consultation with CDFW an appropriate construction buffer to be implemented as part of the project. Buffers are typically 500 feet for raptors and 250 feet for non-raptors but may be decreased or increased based upon species-specific, site-specific, activity-specific considerations including the nesting species in question, baseline noise levels, type and decibel output of construction equipment to be used, and whether disturbance would occur within line-of-sight of the nest. Reduced buffers may be allowed if a full-time biologist is present to monitor the nest and has authority to halt construction if bird behavior indicates continued activities could lead to nest failure.	1. County-approved biologist shall conduct nesting bird survey. 2. In the event that any active nests are discovered near the construction zone, biologist shall contact CDFW to establish buffer. 3. County shall include in its construction specifications that buffer zones shall be avoided during construction	1. County obtains appropriate biologist to conduct survey. 2. County consults with CDFW. 3. County documents that measures are being implemented.	1. Qualified biologist, County 2. County, CDFW 3. County	1. No more than 2 weeks prior to construction, and prior to vegetation and tree removal 2. Prior to construction 3. During construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-5	**Mitigation Measure BIO-5:** Prior to construction activities at each of the three proposed bank stabilization sites, a biologist approved by the County shall survey the work area to identify if woodrat nests are present and occupied. Occupied nests shall be avoided, if possible, and the avoidance area clearly understood by the construction team through the use of maps, flagging, or exclusion fencing. If avoidance is not feasible, and if approved by CDFW, the nest shall be disassembled by hand and relocated beyond the work area.	1. County-approved biologist shall conduct survey. 2. If occupied nests are discovered, County biologist shall establish avoidance area. If avoidance is not feasible, biologist shall disassemble by hand and relocate outside of work area.	1. County obtains appropriate biologist to conduct survey. 2. County documents that measures are being implemented.	1. Qualified biologist, County 2. County	1. Prior to construction 2. Prior to construction
BIO-6	**Mitigation Measure BIO-6** A pre-construction survey for special-status bats shall be conducted by a qualified wildlife biologist in advance of tree trimming, topping or removal, to characterize potential bat habitat and identify active roost sites. Should potential roosting habitat or active bat roosts be found in trees, the following measures shall be implemented: 1. Trimming, topping or removal of trees, shall occur when bats are active, approximately between the periods of March 1 to April 15 and August 15 to October 15; outside of bat maternity roosting season (approximately April 15 to August 15) and outside of months of winter torpor (approximately October 15 to February 28), to the extent feasible. 2. If trimming, topping, or removal of trees during the periods when bats are active is not feasible and bat roosts being used for maternity or hibernation purposes are found on or in the immediate vicinity of the project site where these activities are planned, a no-disturbance buffer of 100 feet shall be established around these roost sites until they are determined inactive by a qualified wildlife biologist. A 100-foot no disturbance buffer is a typical protective buffer distance; however, it may be modified by the qualified wildlife biologist depending on existing screening around the roost site (such as dense vegetation or a large rock formation) as well as the type of construction activity which would occur around the roost site. 3. The qualified wildlife biologist shall be present during tree trimming if bat roosting habitat or active non-maternity or hibernation bat roosts are present (e.g. daytime bachelor roosts). Trees with roosts shall be disturbed only when no rain is occurring or is forecast to occur for 3 days and when daytime temperatures are at least 50 degrees Fahrenheit (°F). Trimming, topping or removal of trees, containing or suspected to contain non-maternity or hibernation bat roost sites shall be done under supervision of the qualified biologist and follow a two-step removal process:	1. County shall contract with a qualified biologist to conduct pre-construction surveys for bat surveys. 2. Biologist shall perform a Habitat Potential Screening, make recommendations as necessary, and County implements appropriate measures.	1. County executes contract. 2. County documents that appropriate recommendations are implemented.	1. Qualified biologist, County 2. County	1. Prior to construction 2. Prior to construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Biological Resources (continued)					
BIO-6 (cont.)	a. On the first day of tree trimming, topping or removal and under supervision of the qualified wildlife biologist, branches and limbs not containing cavities or fissures in which bats could roost, shall be cut only using chainsaws. b. On the following day and under the supervision of the qualified wildlife biologist, the remainder of the tree or structure may be removed, either using chainsaws or other equipment (e.g. excavator or backhoe).				
BIO-7	**Mitigation Measure BIO-7:** A qualified botanist shall survey the project area during the blooming period for western leatherwood (January through April) to identify any individuals within the project boundary. If western leatherwood is identified within the project boundary, it shall be avoided to the extent feasible. If it cannot be avoided, the County shall consult with CDFW to coordinate relocation. To the extent feasible, special-status plants that would be impacted by the project shall be relocated within local suitable habitat. This can be done either through salvage and transplanting or by collection and propagation of seeds or other vegetative material. Any plant relocation shall be done under the supervision of a qualified biologist. The transplanted or replacement plantings shall be monitored for a minimum of three years to ensure no net loss of individuals.	1. County conducts preconstruction surveys. 2. Incorporate survey results and avoidance recommendations into construction specifications. 3. Avoid buffer zones during construction and/or transplant leatherwood, as necessary.	1. County-approved biologist conducts survey and documents findings. 2. County reviews construction specifications for inclusion of recommendations. 3. County documents that measures are being implemented	1. County-approved biologist. 2. County. 3. County.	1. Prior to construction. 2. Prior to construction. 3. Prior to and during construction.
BIO-8	**Mitigation Measure BIO-8:** Project materials shall be placed in locations and manners that would not impair surface water flow into or out of any water of the United States. If surface flow is present during construction, dewatering would ensure that near-normal downstream flows are maintained. Fill shall consist of suitable material and placement such that it would not be eroded by future high flows. Following completion of construction, temporary fill shall be removed to upland areas, dredged material shall be returned to its original location, and the affected areas shall be restored to preconstruction elevations as appropriate. The area upstream and downstream of the project reach shall be monitored annually for a three year period post construction to qualitatively assess channel conditions. Temporarily and permanently impacted waters of the United States shall be replaced at a ratio of 1:1, or as otherwise determined in coordination with the RWQCB and Corps.	1. County shall ensure that construction specifications include appropriate measures. 2. Contractor shall implement construction measures. 3. County shall qualitatively monitor bank stabilization sites	1. County review construction specifications. 2. County monitor to ensure compliance. 3. County documents that measures are being implemented for up to 5 years.	1. County 2. County 3. County	1. Prior to construction 2. During construction 3. After construction (up to 5 years)

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Cultural Resources					
CUL-1	**Mitigation Measure CUL-1: Preconstruction Training and Cultural Resources Monitoring.** Prior to project construction, on-site personnel shall attend a mandatory pre-project training led by a Secretary of the Interior-qualified archaeologist. The training will outline the general archaeological sensitivity of the area (without providing site specifics) and the procedures to follow in the event an archaeological resource and/or human remains are inadvertently discovered. Prior to trail improvements, a Secretary of the Interior-qualified archaeologist shall establish an Archaeologically Sensitive Area (ASA) that shall remain in place during construction activities within and adjacent to the ASA. The ASA will include the known site boundaries and a 50-foot buffer to the north and south along the trail alignment. No personnel associated with project activities would be allowed access within the ASA outside of the immediate area (the trail itself and a 3-foot-wide buffer) of trail restoration work. The archaeologist shall also monitor any trail improvements within the ASA to ensure that ground disturbing activities do not adversely affect the site. Monitoring will occur according to the procedures outlined below. ***Cultural Resources Monitoring.*** Prior to authorization to proceed, a Secretary of the Interior-qualified archaeologist shall prepare a cultural resources monitoring plan. The County of San Mateo shall review and approve the plan. • Monitoring shall be required within the established ASA (known site boundaries of CA-SMA-292 and a 50-foot buffer to the north and south and along the Alpine Road Trail) as well as for excavation greater than 2 feet deep within 100 feet of Los Trancos Creek. The plan shall include (but not be limited to) the following issues: • Training program for all construction and field workers involved in site disturbance; • Person(s) responsible for conducting monitoring activities, including Native American monitors; • Person(s) responsible for overseeing and directing the monitors; • How the monitoring shall be conducted and the required format and content of monitoring reports; • Schedule for submittal of monitoring reports and person(s) responsible for review and approval of monitoring reports; • Protocol for notifications in case of encountering of cultural resources, as well as methods of dealing with the encountered resources (e.g., collection, identification, curation); • Methods to ensure security of cultural resources sites;	1. County shall contract with an archaeologist who meets the Secretary of the Interior's Standards for professional archaeology to monitor ground-disturbing activities. In the event subsurface cultural resources are discovered, construction within 100 feet of the find shall be halted and the archeologist shall notify the County. 2. The archaeologist shall prepare an ARDTP.	1. County executes contract. 2. Archaeological monitor shall notify the County of the discovery. 3. Archaeologist prepares ARDTP, County reviews	1. County, qualified archaeologist. 2. Archaeological monitor, County. 3. Qualified archaeologist, County.	1. Prior to and during construction 2. During construction 3. Following construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Cultural Resources (continued)					
CUL-1 (cont.)	• Protocol for notifying local authorities (i.e. Sheriff, Police) should site looting and other illegal activities occur during construction. During the course of the construction monitoring, the archaeologist may adjust the frequency—from continuous to intermittent—of the monitoring based on the conditions and professional judgment regarding the potential to impact resources. If archaeological materials are encountered, all soil disturbing activities within 50 feet in all directions of the find shall cease until the resource is evaluated. The archaeological monitor shall immediately notify the County of San Mateo of the encountered archaeological resource. The archaeological monitor shall also notify the Caltrans Cultural Resources Studies Office (District 4) at (510) 286-6336 if archaeological resources are encountered within the Caltrans right-of-way. The monitor shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological resource, present the findings of this assessment to the County. In the event archaeological resources qualifying as either historical resources pursuant to CEQA Section 15064.5 or as unique archaeological resources as defined by Public Resources Code 21083.2 are encountered preservation in place shall be the preferred manner of mitigation. If preservation in place is not feasible, the County of San Mateo shall implement an Archaeological Research Design and Treatment Plan (ARDTP). The project archaeologist and the County of San Mateo shall meet to determine the scope of the ARDTP. The ARDTP shall identify how the proposed data recovery program would preserve the significant information the archaeological resource contains. The ARDTP shall identify the scientific/historic research questions applicable to the expected resource, the data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. The results of the investigation shall be documented in a technical report that provides a full artifact catalog, analysis of items collected, results of any special studies conducted, and interpretations of the resource within a regional and local context. The County of San Mateo shall submit all technical documents to the Northwest Information Center of the California Historical Resources Information System.				
CUL-2	**Mitigation Measure CUL-2: Inadvertent Discovery of Cultural Resources.** If prehistoric or historic-period archaeological resources are encountered, all construction activities within 50 feet in all directions shall halt and the County of San Mateo shall be notified. Prehistoric archaeological materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; and stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); and battered stone tools, such as hammerstones and pitted stones. Historic-period materials might include stone,	1. County shall review construction specifications to ensure procedures for inadvertent discovery of cultural resources are included.	1. County review construction specifications. 2. The contractor shall notify the County of the discovery.	1. County 2. County 3. County and qualified archaeologist.	1. Prior to construction. 2. During construction. 3. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Cultural Resources (continued)					
CUL-2 (cont.)	concrete, or adobe footings and walls; filled wells or privies; and deposits of metal, glass, and/or ceramic refuse. A Secretary of the Interior-qualified archaeologist shall inspect the findings within 24 hours of discovery. If the archaeologist determines that the project could damage a historical resource or a unique archaeological resource (as defined pursuant to the CEQA Guidelines), mitigation shall be implemented in accordance with PRC Section 21083.2 and Section 15126.4 of the CEQA Guidelines, with a preference for preservation in place. Consistent with Section 15126.4(b)(3), preservation in place may be accomplished through planning construction to avoid the resource; incorporating the resource within open space; capping and covering the resource; or deeding the site into a permanent conservation easement. If avoidance is not feasible, a qualified archaeologist shall prepare and implement a detailed treatment plan in consultation with the County of San Mateo and the affiliated Native American tribe(s), if applicable. Treatment of unique archaeological resources shall follow the applicable requirements of PRC Section 21083.2. Treatment for most resources would consist of (but would not be not limited to) sample excavation, artifact collection, site documentation, and historical research, with the aim to target the recovery of important scientific data contained in the portion(s) of the significant resource to be impacted by the project. The treatment plan shall include provisions for analysis of data in a regional context, reporting of results within a timely manner, curation of artifacts and data at an approved facility, and dissemination of reports to local and state repositories, libraries, and interested professionals.	2. In the event of a historic-period archaeological resource discovery, construction in the area shall be halted and the contractor shall notify the County. 3. Qualified archaeologist shall be contacted and inspect the findings to determine appropriate mitigation and feasibility of preservation.	3. Qualified archaeologist shall inspect the findings and determine appropriate next steps, consistent with PRC Section 21083.2 and Section 15126.4 of the CEQA Guidelines.		
CUL-3	**Mitigation Measure CUL-3: Inadvertent Discovery of Human Remains.** If human remains are encountered during ground disturbing activities, State Health and Safety Code Section 7050.5 requires that no further disturbance will occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission. The Native American Heritage Commission will then identify the person(s) thought to be the Most Likely Descendent of the deceased Native American, who will make recommendations for the treatment of any human remains.	1. County shall review construction specifications to ensure procedures for human remains discovery are included. 2. In the event human remains are discovered, construction in the area shall be halted and the contractor shall notify the County Coroner.	1. County review construction specifications. 2. The contractor shall notify County of the discovery.	1. County 2. County	1. Prior to construction. 2. During construction.
Geology and Soils					
	None.				

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Climate Change					
	None.				
Hazards and Hazardous Materials					
HAZ-1	**Mitigation Measure HAZ-1:** The County shall require the construction contractor to use the following best management practices (BMPs) to minimize potential adverse effects of the project to groundwater and soils from chemicals used during construction activities: • Follow manufacturer's recommendations on use, storage and disposal of chemical products used in construction; • Avoid overtopping construction equipment fuel gas tanks; • Provide secondary containment for any hazardous materials temporarily stored onsite; • During routine maintenance of construction equipment, properly contain and remove grease and oils; • Perform regular inspections of construction equipment and materials storage areas for leaks and maintain records documenting compliance with the storage, handling and disposal of hazardous materials; and • Properly dispose of discarded containers of fuels and other chemicals	1. County shall review construction specifications to ensure that BMPs for handling hazardous materials are included. 2. Contractor implements required BMPs.	1. County review construction specifications and ensure consistency with Measure BIO-1. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction. 2. During construction.
HAZ-2	**Mitigation Measure HAZ-2:** The County shall require the construction contractor to follow the procedures below in the event contaminated soil or groundwater is encountered (either visually or through odor detection) during construction: • Stop work in the vicinity of the suspected material; • Secure the area of suspected contamination; • Notify the County and appropriate regulatory agencies; • Retain a qualified environmental specialist to identify the nature and extent of contamination; • Contain the areas of contamination; • Perform appropriate clean up procedures (such as segregate, profile, and dispose of all contaminated soil) in accordance with the overseeing agency requirements. Required disposal method will depend on the type and concentration of contamination identified; and • Any site investigation or remediation shall be performed in accordance with applicable regulations. Work shall not resume in the area(s) affected until the above measures have been implemented under the oversight of the County or regulatory agency, as appropriate.	1. County shall require construction specifications include protective measures. 2. Contractor implements required measures in the event contaminated soil or groundwater is encountered.	1. County review construction specifications. 2. County documents that measures are being implemented.	1. Construction contractor, County 2. County	1. Prior to construction. 2. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Hazards and Hazardous Materials (continued)					
HAZ-3	**Mitigation Measure HAZ-3:** The contractor(s) shall identify underground utility lines such as natural gas, electricity, sewer, telephone, fuel, and water lines that may be encountered during excavation work. Information regarding the size, color, and location of existing utilities will be confirmed by the utility service provider. A detailed engineering and construction plan that identifies construction methods and protective measures to minimize impacts on aboveground and belowground utilities shall be prepared. Construction shall be scheduled to minimize or avoid interruption of utility services to customers. The contractor(s) shall promptly reconnect any disconnected utility lines.	1. County shall require construction specifications include utility identification, preparation of an engineering and construction plan, protection and avoidance measures. 2. Contractor observes required restrictions.	1. County reviews construction specifications, Contractor to notify USA prior to digging. 2. County documents that measures are being implemented.	1. Construction contractor, County 2. County	1. Prior to, and during, construction 2. During construction
HAZ-4	**Mitigation Measure HAZ-4:** The County shall require the construction contractor to ensure that the following fire safety construction practices are implemented: • Earthmoving and portable equipment with internal combustion engines shall be equipped with a spark arrestor to reduce the potential for igniting a wildland fire; • Appropriate fire suppression equipment shall be maintained at the construction site; • Flammable materials shall be removed to a distance of 10 feet from any equipment that could produce a spark, fire, or flame; and Construction personnel shall be trained in fire safe work practices, use of fire suppression equipment, and procedures to follow in the event of a fire.	1. County shall require construction specifications include fire safety construction practices. 2. Contractor implements required fire hazard construction practices.	1. County review construction specifications. 2. County documents that measures are being implemented.	1. Construction contractor, County 2. County	1. Prior to construction. 2. During construction.
Hydrology and Water Quality					
HYD-1	**Mitigation Measure HYD-1:** The County's contractor shall prepare a comprehensive stormwater pollution and erosion control plan for the project. Erosion control measures shall be in place prior to the start of construction activities and remain in place throughout all phases of project construction. The plan must provide a BMP monitoring and maintenance schedule and identify parties responsible for monitoring and maintenance of construction-phase BMPs. Erosion and water quality control measures identified in the plan must comply with the County of San Mateo Department of Public Work's *Contract Requirements for Erosion and Sediment Control* and *Contract Requirements for Water Pollution Control for Construction in Sensitive Areas*. The plan shall be developed in coordination with the Santa Clara Valley Urban Runoff Pollution Prevention Program staff, as applicable. At a minimum, the plan shall include, but not be limited to, the following measures (County of San Mateo 2013a; County of San Mateo, 2013b):	1. County shall require construction specifications include requirements regarding preparation and implementation of a comprehensive stormwater pollution and erosion control plan. 2. Contractor implements BMPs.	1. County reviews construction specifications and ensure consistency with Measure BIO-1. 2. County documents that BMPs are being implemented.	1. County 2. County	1. Prior to construction. 2. During construction.

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Hydrology and Water Quality (continued)					
HYD-1 (cont.)	• Temporary erosion control measures (such as silt fences, staked straw bales, and temporary revegetation) shall be employed for disturbed areas. No disturbed surfaces will be left without erosion control measures in place. • Sediment shall be retained on-site by a system of sediment basins, traps, or other appropriate measures. • A spill prevention and countermeasure plan shall be developed that will identify proper storage, collection, and disposal measures for potential pollutants (such as fuel, fertilizers, pesticides, etc.) used on-site. The plan will also require the proper storage, handling, use, and disposal of petroleum products. • Construction activities shall be scheduled to minimize land disturbance during peak runoff periods and to the immediate area required for construction. Existing vegetation will be retained where possible. To the extent feasible, grading activities shall be limited to the immediate area required for construction. • Surface waters, including ponded waters, must be diverted away from areas undergoing grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. Diversion activities must not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any temporary dam or other artificial obstruction constructed must only be built from materials such as clean gravel which will cause little or no siltation. Normal flows must be restored to the affected stream immediately upon completion of work at that location. • Sediment shall be contained when conditions are too extreme for treatment by surface protection. Temporary sediment traps, filter fabric fences, inlet protectors, vegetative filters and buffers, or settling basins shall be used to detain runoff water long enough for sediment particles to settle out. Store, cover, and isolate construction materials, including topsoil and chemicals, to prevent runoff losses and contamination of groundwater. • Topsoil removed during construction shall be carefully stored and treated as an important resource. Berms shall be placed around topsoil stockpiles to prevent runoff during storm events. All removed topsoil shall be reused during construction to the extent feasible. Unused topsoil, if any, shall be broadly redistributed to the surrounding ruderal/developed areas in such a manner that topography and vegetation cover would not be adversely impacted. • Establish fuel and vehicle maintenance areas away from all drainage courses and design these areas to control runoff. • Disturbed areas will be re-vegetated after completion of construction activities. • All necessary permits and approvals shall be obtained. • Provide sanitary facilities for construction workers.				

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Land Use and Planning					
	None.				
Mineral Resources					
	None.				
Noise					
NOI-1	**Mitigation Measure NOI-1:** Signs shall be posted at the bank stabilization sites and each trail segment being repaved, for the duration of work at the respective sites or segments, that include permitted construction days and hours, a day and evening contact number for the job site, and a contact number with San Mateo County in the event of noise complaints. An onsite complaint and enforcement manager shall track and respond to noise complaints.	1. County shall require construction specifications include signage requirement. 2. Contractor posts signage with contact number and permitted construction days and hours.	1. County reviews construction specifications. 2. County documents that signage is posted and enforcement manager tracks and responds to noise complaints.	1. County 2. County	1. Prior to construction 2. During construction
NOI-2	**Mitigation Measure NOI-2:** Project construction shall minimize any unnecessary noise in the area including, but not limited to, the following measures: • No amplified sources (e.g., stereo "boom boxes") shall be used in the vicinity of residences during project construction. • Construction equipment noise shall be minimized during project construction by muffling and shielding intakes and exhaust on construction equipment (per the manufacturer's specifications) and by shrouding or shielding impact tools.	1. County shall require construction specifications include noise minimization measures. 2. Contractor observes these measures.	1. County reviews construction specifications. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction 2. During construction
NOI-3	**Mitigation Measure NOI-3:** The County shall prohibit construction contractors from using vibratory rollers within 25 feet from residences during project construction. Where trail rehabilitation work would occur within 25 feet from residences, the County may require the contractors to use walk-behind rollers when operating in close proximity to these homes.	1. County shall require construction specifications include restrictions on use of vibratory rollers. 2. Contractor observes required restrictions.	1. County reviews construction specifications. 2. County documents that measures are being implemented.	1. County 2. County	1. Prior to construction 2. During construction
Population and Housing					
	None.				

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Public Services					
	None.				
Recreation					
	None.				
Transportation/Traffic					
TRA-1	**Mitigation Measure TRA-1:** The County shall require the construction contractor(s) to prepare and implement a traffic control plan to reduce traffic impacts on the roadways at and near the work sites, as well as to reduce potential traffic safety hazards and ensure adequate access for emergency responders and construction vehicles, as appropriate. The County and construction contractor(s) shall coordinate development and implementation of this plan with the Town of Portola Valley, City of Menlo Park, and Caltrans, as appropriate. To the extent applicable, the traffic control plan shall conform to the California Manual on Uniform Traffic Control Devices (MUTCD), Part 6 (Temporary Traffic Control) (Caltrans, 2012b). The traffic control plan shall include, but not be limited to, the following elements: • Circulation and detour plans to minimize impacts on local road circulation during road and lane closures. Flaggers and/or signage shall be used to guide vehicles through and/or around the construction zone. • Identifying truck routes designated by the County. Haul routes that minimize truck traffic on local roadways shall be utilized to the extent possible. • Sufficient staging areas for trucks accessing construction zones to minimize disruption of access to adjacent public right-of-ways. • Controlling and monitoring construction vehicle movement through the enforcement of standard construction specifications by on-site inspectors. • Scheduling truck trips outside the peak morning and evening commute hours to the extent possible. • Limiting the duration of road and lane closures to the extent possible. • Construction activities that may encroach on bicycle routes or multi-use paths, advance warning signs (e.g., “Bicycles May Use Full Lane,” Sign R4-11 of the 2012 California Manual on Uniform Traffic Control Devices) shall be posted that indicate the presence of such users. • Implementing roadside safety protocols. Advance “Road Work Ahead” warning and speed control signs (including those informing drivers of State legislated double fines for speed infractions in a construction zone) shall be posted to reduce speeds and provide safe traffic flow through the work zone.	1. County shall require construction specifications include traffic control plan. 2. Contractor implements measures.	1. County reviews construction specifications. 2. County documents that traffic control plan measures are being implemented.	1. County 2. County	1. Prior to construction 2. During construction

Summary of Mitigation Measures

Mitigation No.	Mitigation Measure	Implementation Procedure	Monitoring and Reporting Actions	Monitoring Responsibility	Monitoring Schedule
Transportation/Traffic (continued)					
TRA-1 (cont.)	• Coordinating construction administrators of police and fire stations (including all fire protection agencies), and recreational facility managers. Operators shall be notified in advance of the timing, location, and duration of construction activities and the locations of detours and lane closures, where applicable. Repairing and restoring affected roadway rights-of way to their original condition after construction is completed.	3.	3.	3.	3.
Utilities and Service Systems					
	None.				