
CHAPTER 3: MITIGATION MONITORING AND REPORTING PROGRAM

3.1 INTRODUCTION

California Public Resources Code Section 21081.6 requires that a lead or responsible agency adopt a mitigation monitoring plan when approving or carrying out a project when an EIR identifies measures to reduce potentially adverse environmental impacts. As lead agency for the Proposed Project, the City of Riverside Department of Public Utilities (RPU) is responsible for adoption and implementation of the mitigation monitoring plan.

A Draft Environmental Impact Report (DEIR) for the Proposed Project has been prepared to address the potential environmental impacts and, where appropriate, recommend measures to mitigate these impacts. As such, a mitigation monitoring plan is required to ensure that the adopted mitigation measures are successfully implemented. This plan lists each mitigation measure, describes the methods for implementation and verification, and identifies the responsible party or parties.

3.2 MONITORING AND REPORTING PROCEDURES

The mitigation monitoring plan for the Proposed Project will be in place through all phases of the Proposed Project, including design, construction, operation, and maintenance. RPU will be responsible for administering the mitigation monitoring plan and ensuring that all parties comply with its provisions. RPU may delegate monitoring activities to staff, consultants, or contractors. RPU will also ensure that monitoring is documented through periodic reports and that deficiencies are promptly corrected. The designated environmental monitors will track and document compliance with mitigation measures, note any problems that may result, and take appropriate action to rectify problems.

3.3 MITIGATION MONITORING AND REPORTING PROGRAM IMPLEMENTATION

Table 4.3-1 lists each mitigation measure included in the DEIR. Certain inspections and reports may require preparation by qualified individuals; these are specified as needed. The timing and method of verification for each measure are also specified.

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TABLE 3.3-1. MITIGATION MONITORING AND REPORTING PROGRAM SUMMARY

MEASURE NUMBER	MITIGATION MEASURE	TIMING OF IMPLEMENTATION	METHOD OF IMPLEMENTATION	RESPONSIBLE PARTY
Agriculture and Forestry Resources				
AGR-01	Restore Soils to Pre-Project Conditions. Replace soils in a manner that shall minimize negative impacts on crop productivity by stockpiling surface and subsurface layers separately and returning those layers to their pre-construction locations in the soil profile. The top soil layers shall be ripped to restore compacted soils to their original density. Ripping may also be used in areas where vehicle and equipment traffic have compacted the top soil layers.	During construction	The measure will be included in construction specifications and verified by environmental compliance monitors. This measure will also be included in the Worker Environmental Awareness Program (WEAP) (see BIO-05) as an additional reminder to Project personnel. Soil ripping and restoration following completion of the project will be monitored and verified by environmental compliance monitors, and the results will be included in the final monitoring report submitted to the applicant.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
AGR-02	Maintain Irrigation Facilities. Project would be constructed to maintain existing drainage systems, existing irrigation systems and other ancillary farming systems that are needed for farming activities so that agricultural uses are not disrupted. Maintain existing levels of water available to farmers.	During construction and operation	The measure will be included in construction specifications. The contractor will designate an individual to monitor existing irrigation systems and water levels on a regular basis. Contractor project managers will provide verification of implementation, compliance, and completion to the applicant.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
Air Quality and Climate Change				
AQ-1	Use ultra-low sulfur diesel fuel (e.g., <15 ppm).	During construction and operation	The measure will be included in construction specifications. Contractor project managers will provide verification of use to the applicant.	RPU, Prime Contractor, Construction Subcontractor
AQ-2	Use of clean burning on- and off-road diesel engines. Heavy-duty diesel-powered construction equipment manufactured after 1996 (with federally mandated “clean” diesel engines) would be utilized.	During construction and operation.	The measure will be included in construction specifications. Contractor project managers will provide verification for each machine that will be utilized for this project to the applicant.	RPU, Prime Contractor, Construction Subcontractor
AQ-3	Construction workers shall carpool to construction sites.	During construction.	The measure will be included in contractor specifications. Contractor project managers will provide confirmation that this will be implemented, and how they intend to do it. This measure will also be included in the WEAP as an additional reminder to Project personnel.	RPU, Prime Contractor, Construction Subcontractor

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AQ-4	Restrict construction vehicle idling time to less than 5 minutes.	During construction.	The measure will be included in construction specifications, and will also be included in the WEAP as a reminder to Project personnel.	RPU, Prime Contractor, Construction Subcontractor
AQ-5	Properly maintain mechanical equipment.	During construction and operation.	The measure will be included in contractor specifications. Contractor project managers will provide confirmation that this will be implemented.	Prime Contractor, Construction Subcontractor
AQ-6	Use particle traps and other appropriate controls to reduce diesel particulate matter (DPM). Other control equipment includes devices such as specialized catalytic converters (oxidation catalysts) control approximately 20 percent of DPM, 40 percent of carbon monoxide, and 50 percent of hydrocarbon emissions.	During construction and operation.	The measure will be included in contractor specifications. Contractor project managers will provide information on each machine that will be utilized for this project to the applicant.	RPU, Prime Contractor, Construction Subcontractor
AQ-7	Limit vehicle speeds to 15 mph on unpaved surfaces.	During construction and operation.	The measure will be included in construction specifications, and will also be included in the WEAP as a reminder to Project personnel. The measure will be verified by environmental compliance monitors.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
AQ-8	On the last day of active operations prior to weekend or holiday, apply water or chemical stabilizer to maintain a stabilized surface.	During construction and operation.	The measure will be included in construction specifications, and will also be included in the WEAP as a reminder to Project personnel. The measure will be verified by environmental compliance monitors.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
AQ-9	Water excavated soil piles hourly or cover with temporary coverings.	During construction.	The measure will be included in construction specifications, and will also be included in the WEAP as a reminder to Project personnel. The measure will be verified by environmental compliance monitors.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor

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AQ-10	Moisten excavated soil prior to loading on haul trucks.	During construction.	The measure will be included in construction specifications, and will also be included in the WEAP as a reminder to Project personnel. The measure will be verified by environmental compliance monitors.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
AQ-11	Cover all loads of dirt leaving the site or leave at least two feet of freeboard capacity in haul truck to reduce fugitive dust emissions while en route to disposal site.	During construction.	The measure will be included in construction specifications, and will also be included in the WEAP as a reminder to Project personnel.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
AQ-12	Application of water to ground surfaces prior and during earthmoving activity.	During construction.	The measure will be included in construction specifications, and will also be included in the WEAP as a reminder to Project personnel. The measure will be verified by environmental compliance monitors.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
AQ-13	Implement fugitive dust control measures as provided in SCAQMD Rule 403	During construction.	The measure will be included in construction specifications. Contractor project managers will provide confirmation of implementation. The measure will be verified by environmental compliance monitors.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
AQ-14	Coordinate final construction schedules to prevent 230 kV transmission line conductor installation utilizing helicopter phase from overlapping with the 69 kV subtransmission line and substation grading and foundation installation phases	During final design and construction.	Confirmation required from responsible subcontractors that they understand and will implement this by contacting RPU a minimum of two weeks prior to any new phase or type of construction.	RPU, Prime Contractor, Construction Subcontractor
AQ-15	Provide temporary traffic controls, such as a flag person, during all phases of construction to maintain smooth traffic flow.	During construction.	The measure will be included in construction specifications and will be included in the Traffic Management Plan as approved by affected road management jurisdictions.	RPU, SCE, Prime Contractor, Construction Subcontractor

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AQ-16	Provide dedicated turn lanes for movement of construction trucks and equipment on- and off-site.	During construction.	The measure will be included in construction specifications and will be included in the Traffic Management Plan as approved by affected road management jurisdictions.	RPU, SCE, Prime Contractor, Construction Subcontractor
AQ-17	Reroute construction trucks away from congested streets or sensitive receptor areas.	During construction.	The measure will be included in construction specifications and will be included in the Traffic Management Plan as approved by affected road management jurisdictions. The Traffic Management Plan will include approved haul routes.	RPU, SCE, Prime Contractor, Construction Subcontractor
AQ-18	Appoint a construction relations officer to act as a community liaison concerning on-site construction activity, including resolution of issues related to PM ₁₀ generation.	During construction.	The measure will be included in construction specifications. The contractor designated liaison will coordinate with the RPU and SCE Air Quality compliance monitor or representative.	RPU, SCE, Prime Contractor, Construction Subcontractor
AQ-19	<p>During Project construction, all internal combustion engines/construction equipment operating on the Proposed Project site shall meet EPA-Certified Tier 3 emissions standards or higher, according to the following:</p> <ul style="list-style-type: none"> • January 1, 2012 to December 31, 2014: All off-road diesel-powered construction equipment greater than 50 horsepower (hp) shall meet Tier 3 off-road emissions standards. In addition, all construction equipment shall be outfitted with BACT devices certified by CARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations. • Post January 1, 2015: All off-road diesel-powered construction equipment greater than 50 hp shall meet the Tier 4 emission standards, where available. In addition, all construction equipment shall be outfitted with BACT devices 	During construction.	The measure will be included in construction specifications. The contractor designated liaison will coordinate with the RPU and SCE Air Quality compliance monitor or representative. Regulated engines will be identified by an individual identification number that is maintained on a tracking spreadsheet. Equipment on site for more than seven calendar days will be marked with a metal (e.g., brass) tag and metal fastener (non-corrosive, secured wire) with the compliance tracking number. The Air Quality compliance monitor will coordinate with the contractor for confirming compliance and documenting the contractor maintained spreadsheet.	RPU, Prime Contractor, Construction Subcontractor

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	<p>certified by CARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations (i.e., if Project construction goes beyond the anticipated schedule).</p> <ul style="list-style-type: none"> A copy of each unit's certified tier specification, BACT documentation, and CARB or SCAQMD operating permit shall be provided at the time of mobilization for each applicable unit of equipment. 			
Biological Resources				
<p>BIO-01</p>	<p>Habitat Conservation and MSHCP Compliance – The Project Proponent (RPU) shall pay the MSHCP fees in compliance with the MSHCP. Fees will be based on design footprint and confirmed by as-built data as available and applicable to confirm mitigation compliance and as negotiated with RCA for the public facility. The Proposed Project (responsibility of RPU and SCE) shall also comply with all other applicable MSHCP and SKRHCP requirements. The Proposed Project shall also implement the urban/wildlands interface requirements of the MSHCP for all areas adjacent to conservation areas.</p>	<p>During final design, construction, and operation.</p>	<p>The applicant will pay the fees levied under the MSHCP to the County. Confirmation of payment will be submitted by the applicant to confirm compliance. The applicant and subcontractors will remain in compliance with all applicable MSHCP, SKRHCP, and urban/wildlands interface requirements and as described in the MSHCP Consistency Analysis and supporting DBESP.</p>	<p>RPU, Prime Contractor, SCE, Subcontractors</p>
<p>BIO-02</p>	<p>Transmission lines: Structures and Avian Protection - All transmission structures (TSPs and LSTs) would be designed to be avian-safe in accordance with "Suggested Practices for Raptor Protection on Power Lines: the State of the Art in 2006" (Avian Power Line Interaction Committee, 2006). This will include, but is not limited to, the following: conductors will be spaced to an acceptable distance of raptors such as red-tailed hawk and golden eagle to avoid potential electrocution risk;</p> <ul style="list-style-type: none"> bus bars or other points of electrocution shall 	<p>During final design and construction.</p>	<p>The applicant will provide a memo outlining the review and approval of the avian protection designs by SCE and any pertinent agency. Contractors will provide confirmation of implementation of the designs incorporated as indicated.</p>	<p>RPU, SCE, Prime Contractor, Project Engineer, Construction Subcontractors</p>

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	<p>be covered with non-conductive caps;</p> <ul style="list-style-type: none"> • aerial span of the Santa Ana River will be marked with best available UV reflectors (bird diverters) every 100 feet and staggered along the conductors; • nest deterrents will be implemented <p>The Proposed Project shall implement APLIC guidelines (current guidelines as of 2011). Designs for APLIC compliance will be reviewed and approved by SCE, RPU and the Project Biologist (69 kV section will not include SCE approval).</p>			
BIO-03	<p>Preconstruction Surveys for Sensitive Species and MSHCP Compliance</p> <p><u>Western burrowing owl (BUOW):</u> 1) Conduct focused surveys to determine active or potential nest sites during the breeding season prior to initiation of field construction disturbance. Use observed active burrow location data to schedule construction activity in the area of the active burrows to occur between September 1 and February 1. Adjust pole location or potential access roads to avoid active burrows. 2) Conduct pre-construction surveys for BUOW between 14 and 30 days prior to field construction disturbance. Owls located during the pre-construction survey shall be reported to the RCA. 3) Avoidance and minimization measures, including installation of fencing and/or screening appropriate to clearly mark work restriction limits and, as practical, screening line of sight to active, occupied burrows, shall be installed and also reported to the RCA. Avoidance and minimization of indirect impacts to BUOW will be in accordance with the CDFG Staff Report on Burrowing Owl Mitigation, dated March 7, 2012. A biological monitor shall also be placed where avoidance and minimization measure have been installed to monitor owl activity and to</p>	Prior to construction.	<p>Qualified biologists will perform required surveys prior to the onset of construction. Confirmation of survey completion and findings will be provided to the applicant. Work restriction areas, if any, will be established by the Project Biologist following the conclusion of the surveys and prior to the onset of construction.</p> <p>Botanical surveys would be conducted during suitable plant growing seasons in identified survey areas for narrow endemic species. The Project Biologist will determine survey requirements in coordination with RPU. The Project Biologist will identify if seed collection is required prior to construction. A qualified seed collection contractor will be utilized. Any collected seed will be provided to restoration contractors for inclusion in final restoration seeding mix following the completion of the project. Confirmation of seed use will be submitted to the applicant.</p> <p>Qualified biologists will survey the ROW and access roads prior to the start of construction activity within 1,000 feet of a new area of disturbance during the nesting season. Survey is</p>	RPU, Prime Contractor, Project Biologist

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	<p>ensure barriers are suitable in accordance with MM BIO-06.</p> <p><u>Narrow endemic plants:</u> For the MSHCP narrow endemic plant species determined to have the potential to occur but not detected during design surveys, conduct preconstruction sensitive plant surveys within suitable habitat within the ROW and Work Limits during the Spring bloom season within one year prior to construction. If sensitive plant species are encountered and cannot be avoided then seed will be salvaged. Salvaged seed will be stored and used for restoration of temporarily disturbed suitable soils and site conditions.</p> <p><u>Bats:</u> Conduct sensitive bat species (western mastiff bat and western yellow bat) roost emergence surveys at appropriate times of the year (year-round survey is satisfactory) in areas of suitable roost habitat that has the potential to be affected by construction. Active roost would be avoided until the roost is determined to be no longer active (as determined by the Project biologist). Western mastiff bat roost sites are associated with rock faces and possibly taller buildings; no suitable roost habitat is identified within the Project work limits. Western yellow bat roost sites are associated with palm tree and the lower hanging palm tree skirt; palm trees are within or adjacent to the Project work limits. Palm trimming or removal would occur after preconstruction survey and to extent possible between August 1 and December 30 to avoid potential breeding or lower winter time activity window). If active roost is unavoidable, RPU and SCE would consult with RCA and CDFG and implement their recommendations.</p>		<p>expected to be conducted after seven days if work has not been initiated. The Project Biologist may implement shorter or longer survey frequency during the appropriate time of the nesting season.</p>	

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	<p>All surveys would be conducted by qualified biologists approved by USFWS, CDFG, and RCA.</p> <p>If any listed or sensitive species are detected during pre-construction surveys, final structure locations, access and spur roads, and associated temporary ground disturbance areas would be adjusted or completely relocated to avoid direct impacts to these species or their habitat or as allowed by the MSHCP and State and federal permits.</p>			
BIO-04	<p>Nocturnal Lighting Minimization and Prevention – Nocturnal lighting during construction and normal operation would be minimized at the substation sites by using directional lighting (shielded and positioned downward) to minimize indirect impact by stray light on the surrounding habitat. All external building or permanent structure lighting (except FAA warning lights) shall be shielded and light canopy contained to the facility substation footprint. Minimize stray and extraneous lighting. Lighting plans will be reviewed and approved by the Project Biologist and RPU prior to construction, and any further recommendations from the Project Biologist regarding lighting shall be implemented.</p>	During construction and operation.	The Project Engineer will provide a memorandum documenting design compliance with this measure. The measure will be included in construction specifications. Contractor project managers will provide confirmation of implementation. The measure will be verified by environmental compliance monitors.	RPU, Prime Contractor, Project Biologist
BIO-05	<p>Worker Environmental Awareness Program (WEAP) Design and Implementation – A WEAP shall be prepared. Field construction project personnel including construction management, construction crews and contractors shall be required to participate in WEAP training prior to starting work on the project. WEAP will be presented as a PowerPoint presentation or through a manual or handbook. Include discussion of sensitive species, habitat, water quality protection, hazardous material spill prevention and cleanup, and minimizing impact to wildlife and adjacent vegetation. The Project Biologist will determine any exemption</p>	Prior to construction and during construction.	The WEAP will be presented to all Project personnel with management, Project site work, or construction responsibility. WEAP attendance will be completed before beginning work on the Project. The WEAP may be presented as visual media during ongoing safety training to accommodate different crews that will begin work at different phases of construction. The Project Biologist will coordinate with RPU and the prime contractor to determine presentation and documentation of attendance methods. The sign-in sheet with the names of workers that have received the WEAP	RPU, Prime Contractor, SCE, Project Biologist

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	<p>from the training requirement (i.e., vendors, subcontractor truck drivers, delivery drivers).</p>		<p>training will be submitted to the applicant on a monthly basis. Workers that receive WEAP training will be given a sticker to place on their hardhat to indicate training completion. Weatherproof, Project-specific hardhat stickers will be provided by the applicant, in coordination with the Project Biologist.</p> <p>Escorted visitors and short-term visiting subcontractors and vendors are not required to attend the WEAP. The Project Biologist will review and confirm those not required to attend the WEAP due to specific Project work constraints and limited potential to affect sensitive resources.</p>	
<p>BIO-06</p>	<p>Environmental Compliance Monitoring During Construction – Environmental Compliance Monitors would be present during construction activity with the potential to affect biological sensitive resources, and periodically during other construction activity. Monitoring will be required for vegetation clearing and when construction occurs in the vicinity of sensitive biological resources. Monitoring will be conducted periodically as determined by the Project Biologist during remaining project construction to confirm work limits are maintained and protected resources are avoided.</p>	<p>During construction.</p>	<p>Environmental compliance monitors will be present onsite as required, and will verify the compliance of the various applicable measures. A record of activities monitored will be maintained for each day monitored, and submitted to the applicant on a weekly basis. A monthly monitoring summary report will be provided to RPU to document monitoring effort, compliance issues identified, and implemented resolutions.</p>	<p>RPU, Prime Contractor, Project Biologist</p>
<p>BIO-07</p>	<p>Minimize Amount of Vegetation Removal and Permanent Loss of Habitat – Vegetation clearing or removal would be restricted to surveyed and approved limits of the ROW, Substation footprint, Access Roads, and Staging Areas. Vegetation removal would be limited in sensitive habitats (the intent is to disturb less than the approved project work limits). The contractor would use overland access that crushes vegetation to maintain root structure and enable resprouting and faster restoration, use existing roads or jeep trails, and minimizes disturbance of new areas and removal of</p>	<p>During construction.</p>	<p>The measure will be included in construction specifications and will also be included in the WEAP as a reminder to Project personnel. Vegetation removal and protection will be monitored and verified by environmental compliance monitors. Topsoil will be inspected by the Project Biologist or environmental compliance monitor. The results of the suitability of topsoil for salvage and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.</p>	<p>RPU, Prime Contractor, Project Biologist, Construction Subcontractor</p>

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	<p>mature tree, cactus or woody shrub vegetation. Prior to clearing, conduct topsoil salvage evaluation to determine if soil is suitable for salvage, in which case it would be used for restoration on-site, by being generally free of non-native weed species, trash, or other contaminants that would limit usefulness during restoration and revegetation. Topsoil found not suitable for salvage will not need to be segregated from subsoils.</p>			
<p>BIO-08</p>	<p>Migratory Bird Treaty Act Compliance: Avoidance of Active Nests – All observed active nests detected during pre-construction surveys would be avoided in compliance with the Migratory Bird Treaty Act (this excludes European starling, house sparrow, rock pigeon), unless approval is obtained from the USFWS.</p> <p>All surveys would be conducted by qualified biologists approved, as applicable, by USFWS, CDFG, and RCA.</p> <p>Raptors: Conduct raptor nest surveys beginning in the middle of January within six months prior to construction to determine presence of active raptor nests within 500 feet of the work limits, laydown yard, or other active Project locations where work may disturb an active nest. Establish work restriction areas for active nests. Coordinate with CDFG for potential to deter nesting (e.g., temporarily cover stick nest).</p> <p>From February 15 through August 15, conduct pre-construction nest surveys no more than two to three days prior to vegetation clearing or ground disturbance in order to identify active nests and avoid direct or indirect impact in accordance with MBTA. Timing would be dependent on nesting conditions and proposed construction activity.</p>	<p>During construction.</p>	<p>Nesting bird protection will be monitored and verified by environmental compliance monitors. The measure will be included in the WEAP as a reminder to Project personnel. At a minimum, the results of monitoring of any active bird nests and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.</p>	<p>RPU, SCE, Prime Contractor, Project Biologist, Construction Subcontractor</p>

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	<p>If active nests are unavoidable, RPU and SCE would consult with the appropriate agencies (USFWS and CDFG) and implement their recommendations. Unless otherwise approved by the regulatory agencies, work will be restricted within 500 feet (line of sight) for raptors or sensitive species and 100 feet for other passerines. Work will be restricted around any observed active nest of a bird covered by the MBTA until the Project Biologist determines the nest has naturally failed, been lost to predation, or chicks are fledged and satisfactorily independent of nest or roost tree. Work restriction limit will be reviewed by the Project Biologist with the ability to stop work to avoid impact to active nest. Nest is identified as active during incubation through fledging when chicks are independent of nest or nest tree in respect to raptors. Nests observed in areas of active construction would be avoided and monitored per the Project Biologist and in consultation with CDFG or USFWS.¹</p>			
<p>BIO-09</p>	<p>Invasive Species Management – The project biologist would prepare measures to avoid or minimize the introduction of invasive plant, invertebrate, and vertebrate species into the project area during construction activities. Construction equipment being brought to the Project limits will be free of accumulated mud and debris. Equipment will be washed prior to project delivery to remove dirt from tracks, body, and attachments. Equipment with accumulated mud or debris will not be allowed to work within the project right-of-way until it is sufficiently clean (cleaning can be completed in a wash station at the laydown yard or offsite at another location not associated with the Project). Areas disturbed by construction will be maintained to control non-native invasive weed species and areas not designed to be bare for fire safety or have other soil stabilization (e.g., gravel,</p>	<p>During construction.</p>	<p>The measure will be included in construction specifications and will also be included in the WEAP as a reminder to Project personnel. Contractors will provide verification to the applicant of compliance with this measure for each machine brought onto the project site. Soil stabilization and revegetation by the contractor will be monitored and verified by environmental compliance monitors. Restoration following completion of the project will be monitored and verified by environmental compliance monitors, and the results will be included in the final monitoring report submitted to the applicant.</p>	<p>RPU, Prime Contractor, Project Biologist, Construction Subcontractor</p>

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	<p>asphalt) will be revegetated and established to be less than 10-percent coverage by non-native weed species (goal will be to establish native cover equal or exceeding adjacent habitat) or have coverage of density and diversity equal to or exceeding 70 percent of adjacent native habitat. (It is expected that adjacent habitat may include non-native grassland. In these areas, the goal will be to establish cover consistent with adjacent areas, with an equal to or less than cover and density as found adjacent).</p>			
<p>BIO-10</p>	<p>Avoid Impacts to Federal and State Jurisdictional Wetlands – Construction crews would not fill or dredge streambeds and banks of streams or delineated wetlands (jurisdictional, vernal pool, or otherwise regulated) along the route. If it is determined during final design of the Project that impacts to wetlands or riparian habitat may occur, a habitat assessment and, if necessary, a formal wetland delineation, will be conducted. If it is determined that impacts to wetlands and/or jurisdictional waters cannot be avoided, authorization from the U.S. Army Corps of Engineers, California Department of Fish and Game (CDFG), and/or Regional Water Quality Control Board will be obtained after appropriate environmental review. A Lake or Streambed Alteration Agreement if applicable would be secured from CDFG. All permit conditions will be followed to ensure that impacts remain less than significant.</p>	<p>During construction.</p>	<p>The measure will be included in construction specifications and will also be included in the WEAP as a reminder to Project personnel. Wetlands avoidance will be monitored and verified by environmental compliance monitors. Any issues pertaining to wetlands avoidance and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.</p>	<p>RPU, Prime Contractor, Project Biologist, Construction Subcontractor</p>
<p>BIO-11</p>	<p>Refueling – Streambed Protection – Avoid the fueling of equipment adjacent to drainages, tributaries, or wetlands and associated plant communities to preclude water quality impacts. Associated plant communities should be designated on construction maps and will be situated a minimum distance of 10 meters from drainages, wetlands and storm drain inlets. Contractor equipment shall be checked for leaks</p>	<p>During construction and operation.</p>	<p>The measure will be included in construction specifications. The measure will also be included in the WEAP as a reminder to Project personnel. The environmental monitor will coordinate with RPU and the Prime Contractor to identify fueling and maintenance restriction areas along the ROW. The contractor will designate an individual to inspect machinery for leaks on a daily basis when working</p>	<p>RPU, Prime Contractor, Project Biologist, Construction Subcontractor</p>

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	prior to operation near riparian areas in coordination with the project biologist.		in or near riparian areas. Any issues pertaining to wetlands avoidance and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.	
BIO-12	Wildlife Protection – Excavations deeper than 0.3 m (1.0 ft) will be covered overnight to minimize the potential for vertebrates becoming trapped. Prior to backfilling, excavations will be inspected and observed, trapped wildlife species will be safely removed and released in an adjacent non-construction area.	Prior to and during construction.	This measure will be included in the construction specification. The requirement will be included in the WEAP presentation to remind Project personnel. The Project Biologist will coordinate with RPU and the Prime Contractor to implement this measure.	RPU, Prime Contractor, Project Biologist, Construction Subcontractor
BIO-13	MSHCP – Public / Quasi-Public (PQP) Land Conservation – RPU would replace permanent footprint impacts to identified MSHCP PQP Conserved Lands at a ratio of 1:1. Replacement land would be of suitable habitat value to provide a wildlife resource for foraging or breeding. Land would not be required to support or have the potential to support a sensitive plant or animal species. As approved by RCA and responsible Regulatory Agencies, lands purchased for replacement of Land and Water Conservation Fund land conversion may also be used as the PQP replacement lands.	Prior to construction.	The applicant will pay the fees levied. Confirmation of payment will be submitted by the applicant to confirm compliance.	RPU, Prime Contractor
Cultural Resources				
CUL-01	A cultural resource inventory will be conducted of any changes to the Proposed Project area or of any properties for which right of entry was not granted prior to any disturbance. All surveys shall be conducted and documented as per applicable laws, regulations, and guidelines. The surveys will be completed to identify any previously unidentified cultural resources. Any discovered resources would be avoided through Project features (EPEs) or mitigated through CUL-02.	Prior to construction.	Qualified cultural resource specialists will perform required surveys prior to the onset of construction. Confirmation of survey completion and findings will be provided to the applicant. Work restriction areas, if any, will be established by the Project Cultural Resource Specialist following the conclusion of the surveys and prior to the onset of construction.	RPU, Prime Contractor, Project Cultural Resource Specialist

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CUL-02	<p>To avoid and/or minimize impacts to significant cultural resources, a qualified archaeologist will monitor ground disturbing activities near previously identified cultural resources. If a newly identified cultural resource or an unknown component of a previously identified resource is discovered during construction, the monitor will follow the Unanticipated Discovery Plan identified in EPE CUL-05. The monitor will have the authority to stop or redirect work, as required to fulfill mitigation measure CUL-02. In addition, any human remains discovered during Project activities will be protected in accordance with current state law as detailed in California Health and Safety Code 7050.5 and California Public Resources Code Sections 5097.91 and 5097.98, as amended.</p>	During construction.	The measure will be included in construction specifications and will also be included in the WEAP as a reminder to Project personnel. Cultural Resource monitoring and protection will be performed and verified by cultural resource monitors. The results of cultural resource monitoring and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.	RPU, Prime Contractor, Project Cultural Resource Specialist, Construction Subcontractor
CUL-03	<p>A qualified paleontological monitor shall attend any pre-construction meetings at locations that have high potential for containing intact paleontological resources to consult with grading and excavation contractors concerning excavation schedules, paleontological field techniques, and safety issues. A paleontological monitor is defined as an individual who has experience in the collection and salvage of fossil materials. The paleontological monitor shall work under the direction of a qualified paleontologist. A qualified paleontologist is defined as an individual with an M.S. or PhD in paleontology or geology, or closely related field, who is experienced with paleontological procedures and techniques, who is knowledgeable in the geology and paleontology of Southern California, and who has worked as a paleontological mitigation project supervisor in the region for at least one year.</p>	Prior to construction.	The measure will be included in construction specifications and will also be included in the WEAP as a reminder to Project personnel. Paleontological resource monitoring and protection will be performed and verified by paleontological monitors. The results of paleontological monitoring and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.	RPU, Prime Contractor, Project Cultural Resource Specialist, Construction Subcontractor

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CUL-04	<p>A qualified paleontological monitor shall spot-check the original cutting of previously undisturbed deposits of high paleontological resource sensitivity (e.g., Older Quaternary Alluvium). The paleontological monitor shall work under the direction of a qualified paleontologist.</p>	During construction.	<p>The measure will be included in construction specifications and will also be included in the WEAP as a reminder to Project personnel. Paleontological resource monitoring and protection will be performed and verified by paleontological monitors. The results of paleontological monitoring and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.</p>	RPU, Prime Contractor, Project Cultural Resource Specialist, Construction Subcontractor
CUL-05	<p>When significant fossils are discovered, the paleontologist (or paleontological monitor) shall recover them. In most cases, this fossil salvage can be completed in a short period of time. Because of the potential for the recovering of small fossil remains, such as isolated mammal teeth, it may be necessary to recover bulk sedimentary matrix samples for off-site wet screening. However, some fossil specimens (such as complete large mammal skeletons) may require an extended salvage period. In these instances, the paleontologist (or paleontological monitor) should be allowed to temporarily direct, divert, or halt earthwork activities to allow recovery of fossil remains in a timely manner.</p>	During construction.	<p>The measure will be included in construction specifications and will also be included in the WEAP as a reminder to Project personnel. Paleontological resource monitoring, salvage, and protection will be performed and verified by paleontological monitors. The results of paleontological monitoring and any ensuing actions will be included in the weekly monitoring update submitted to the applicant.</p>	RPU, Prime Contractor, Project Cultural Resource Specialist, Construction Subcontractor
CUL-06	<p>Fossil remains collected during monitoring and salvage shall be cleaned, repaired, sorted, and cataloged as part of the mitigation program.</p>	During construction.	<p>If fossil remains collection is required, a qualified individual will be collect the specimen, and perform necessary steps, per industry standards. All data will be submitted to the applicant in weekly updates and a final monitoring report.</p>	RPU, Prime Contractor, Project Cultural Resource Specialist
CUL-07	<p>Prepared fossils, along with copies of all pertinent field notes, photos, maps, and measured stratigraphic sections, shall be deposited (as a donation) in a scientific institution with permanent paleontological collections, such as the Western Center for Archaeology and Paleontology, the San Bernardino County Museum, or the San Diego</p>	During construction.	<p>Any collected fossils will be provided to an appropriate institution. The applicant will coordinate with the Project Cultural Resource Specialist for the donation of the fossils to the appropriate institution, and the applicant will pay the associated donation fees. The results and data associated with the collection and donation of any fossils will be</p>	RPU, Prime Contractor, Project Cultural Resource Specialist

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	<p>Natural History Museum. Donation of the fossils shall be accompanied by financial support for initial specimen cataloguing and storage.</p>		<p>submitted to the applicant in a final monitoring report.</p>	
<p>CUL-08</p>	<p>A final summary report shall be completed that outlines the results of the paleontological mitigation program. This report shall be prepared under the supervision of a qualified paleontologist. The report will include a description and maps of the Project area; descriptions of paleontologically sensitive or fossiliferous sediments in the Project vicinity; discussions of the methods used during monitoring and during fossil recovery; descriptions and illustrations of the stratigraphic section(s) exposed, fossils collected, including taxonomic data; photographs of the locations of recovered fossils; an assessment of the significance of the recovered fossils; complete contextual data from the fossil locality, including sedimentology and taphonomy; and a record of accession of the fossils to the selected repository, including specimen numbers.</p>	<p>Following completion of construction.</p>	<p>A final report will be submitted to the applicant.</p>	<p>RPU, Prime Contractor, Project Cultural Resource Specialist</p>
<p>Hazards and Hazardous Materials</p>				
<p>HAZ-01</p>	<p>Appoint trained personnel for sampling, data review, and regulatory coordination. If potentially contaminated soil, water or groundwater is encountered during Project construction, construction activities shall stop in the area of the discovery and an OSHA-trained individual with a minimum of 40-hours of Hazardous Waste Operations and Emergency Response (HAZWOPER) worker training shall be responsible for collecting a sample of the suspected material(s). An SCE/RPU approved Health and Safety Officer shall review the laboratory data results from suspected contaminated material(s) and, if contamination is confirmed, that individual shall coordinate with the appropriate regulatory agency</p>	<p>During construction.</p>	<p>The measure will be included in construction specifications. The contractor will designate personnel to inspect pertinent areas and provide verification of implementation and completion to the applicant.</p>	<p>RPU, Prime Contractor, Construction Subcontractor</p>

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	(Santa Ana RWQCB or local CUPA) to determine the level of worker protection and protocol for handling/disposal of specific hazardous materials. If it is determined that no contamination is present the Health and Safety Officer shall notify the construction contractor to resume construction in the area.			
HAZ-02	Document compliance with measures for encountering unknown contamination. If evidence of soil or groundwater contamination is detectable by visual and/or olfactory observation during Project construction, a report documenting the exact contamination location, laboratory test results, actions taken, and recommended protection measures (if applicable) shall be submitted to SCE, RPU, and the CPUC for each incident. This report shall be submitted within 30 days of SCE's/RPU's receipt of laboratory results.	During construction.	The measure will be included in construction specifications. Contractor project managers will provide verification of implementation and completion to the applicant. Environmental compliance monitors and Cultural Resource monitors will notify construction leads if obvious unknown contaminant is observed, and will notify the applicant.	RPU, Prime Contractor, Construction Subcontractor, Project Biologist, Project Cultural Resource Specialist
HAZ-03	Fire Prevention and Management Plan. A fire prevention and management plan shall be developed and applicable fire laws and regulations would be observed during the construction period. All construction personnel would be advised of their responsibilities under the applicable fire laws and regulations. The Fire Prevention and Management Plan would ensure uniform guidelines for prevention, control, and extinguishment of fires that could potentially occur during transmission line construction. It would identify firefighting and reporting tools and equipment for construction-related use of diesel and gasoline operated engines, welders, heavy construction operating equipment, and tractor dozers. It would identify Proposed Project-specific fire prevention measures, such as permits required, smoking and fire rules, storage and parking areas, welding, and emergency measures.	Prior to and during construction.	The measure will be included in construction specifications. A Fire Prevention and Management Plan will be developed prior to the beginning of construction. Copies will be made available to all personnel working on the project site. This measure will also be included in the WEAP as a reminder to Project personnel. Environmental compliance monitors and Cultural Resource monitors will notify construction leads if obvious fire hazards are observed, and will notify the applicant.	RPU, Prime Contractor, Construction Subcontractor, Project Biologist, Project Cultural Resource Specialist

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Recreation				
REC-01	Recreation Area Closures. When temporary short-term closures to recreational areas are necessary for construction activities, closures would be coordinated with recreational facility owners. Schedule construction activities to avoid heavy recreational use periods (e.g., holidays or tournaments). Post notices prior to the closure.	Prior to and during construction.	The applicant will coordinate with pertinent land owners, land managers, and construction contractors to ensure that closures are performed, as required, in advance of construction activities.	RPU, Prime Contractor, Construction Subcontractor
REC-02	Conversion of Land and Water Conservation Fund (LWCF) Property [Section 6(f)]. Where a conversion of LWCF property would occur, coordinate with the National Park Service, California State Parks- Office of Grants and Local Services, and the grantee to replace the property used by the Proposed Project in size, value and function through a conversion process.	Prior to construction.	The applicant will pay the fees levied. Confirmation of payment will be submitted by the applicant to confirm compliance.	RPU, Prime Contractor
Traffic and Transportation				
TRANS-01	Arterials, straight alignments; residential streets, roadway with specific access need (fire station, hospital/medical facility, school bus) – Provide construction closures that keep at least one lane of traffic open in each direction of travel at all times, or provide adequate lane capacity to generally provide a good level of service (maintain within bounds of current level of service) in traffic operations.	During construction and operation.	Prepare a Traffic Management Plan for responsible agencies for review and, as appropriate, approval. Traffic control measures, such as flag persons, warning signs, lights, barricades, cones, and other necessary measures that are typical inclusions in a traffic management plan, will be used. Police departments, fire departments, schools, ambulance services, and paramedic services shall be notified at least one month in advance of each closure by RPU and SCE. Information on road closures will be provided to motorists, transit operators, and school transportation departments through meetings, press releases to media outlets, posting roadway closure information on the City of Riverside and Riverside County websites, and by use of digital display signs to notify motorists in advance of changing traffic patterns.	RPU (Public Works Department-Traffic Engineering Section); Prime Contractor, SCE

MEASURE NUMBER	MITIGATION MEASURE	TIMING OF IMPLEMENTATION	METHOD OF IMPLEMENTATION	RESPONSIBLE PARTY
TRANS-02	<p>Avoid Peak-Period Construction: To minimize traffic congestion and delays during construction, RPU and SCE shall restrict all necessary lane closures or obstructions on major roadways (i.e., Congestion Management Plan roadways) associated with project construction activities to off-peak periods. Lane closures shall be avoided during the 6:00 a.m. to 9:00 a.m. timeframe and the 3:30 to 6:30 p.m. timeframe, or as otherwise defined within the TMPs.</p>	During construction.	Lane closures during peak travel period, as defined in the mitigation measure, will be avoided. Prepare a Traffic Management Plan for responsible agencies for review, and as appropriate, approval.	RPU (Public Works Department-Traffic Engineering Section); Prime Contractor, SCE
TRANS-03	<p>Minimize Roadway Closures: Construction activities shall be designed to minimize work on, or use of, roadways crossed by the project corridor(s). This would be accomplished through limiting construction vehicle and equipment operations to identified disturbance sites (pad areas, access roads and staging areas) and by maintaining sock lines and conductors well above roadways during stringing operations.</p>	During construction and operation.	Construction vehicle and equipment operations will be limited to identified disturbance sites (i.e., pad areas, access roads and staging areas) and by maintaining sock lines and conductors well above roadways during stringing operations. Prepare a Traffic Management Plan for responsible agencies for review and, as appropriate, approval.	RPU (Public Works Department-Traffic Engineering Section); Prime Contractor, SCE
TRANS-04	<p>Bus transit route: Provide construction closures that keep at least one lane of traffic open with reversible flow (via flagmen) during times of transit line operation, unless an adequate detour route can be found within 0.25 mile of the closure point.</p>	During construction.	Prepare a Traffic Management Plan for responsible agencies for review and, as appropriate, approval.	RPU (Public Works Department-Traffic Engineering Section); Prime Contractor, SCE
TRANS-05	<p>Roadway with Class I or Class II Bicycle Facility: Provide construction closures that allow for continued bicycle access within the existing facilities during all times, or provide a safe diversion of the bicycle facility around the construction zone.</p>	During construction.	Prepare a Traffic Management Plan for responsible agencies for review and, as appropriate, approval.	RPU (Public Works Department-Traffic Engineering Section); Prime Contractor, SCE

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