

4.0 MITIGATION MONITORING AND REPORTING PROGRAM

The following mitigation measures shall apply to the Bowtie Parcel Demonstration Wetland Project to reduce identified impacts to less than significant levels.

Mitigation Measure	Monitoring Action	Required Time of Compliance	Implementation Responsibility	Verification Responsibility	Verification Method
BIO-1	<p>Wildlife Pre-Construction Clearance Surveys and Biological Monitoring: Prior to ground disturbance or vegetation clearing within the proposed Project site, a qualified biologist shall conduct pre-construction clearance surveys for wildlife (no more than 7 days prior to site disturbing activities) where suitable habitat is present and directly impacted by construction activities <u>within the Project site and a 500 foot buffer (where accessible)</u>. Wildlife found within the proposed Project site or in areas potentially affected by the proposed Project shall be relocated to the nearest suitable habitat that would not be affected by the proposed Project prior to the start of construction. Special-status species found within a proposed Project impact area shall be relocated by a qualified biologist to suitable habitat outside the impact area prior to the start of ground-disturbing activities that may impact those species; this activity may be subject to prior incidental take authorization if required. Nesting birds found within the proposed Project impact areas shall be subject to buffer requirements and additional conditions as detailed below in mitigation measure BIO-4.</p> <p>A qualified biologist shall be onsite during all ground disturbance and vegetation removal activities throughout the construction phase; <u>this qualified biologist shall have experience with special-status species known to occur in the region, including least Bell's vireo</u>. The qualified biologist(s) shall have the right to halt all activities</p>	Surveys (and relocations, if needed) prior to ground disturbance or vegetation clearing. Monitoring during construction ground disturbances and vegetation removals.	The Nature Conservancy	CDPR	Review and approval of pre-construction clearance biological survey reports and daily construction biological monitoring logs during ground disturbances and vegetation removals.

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	<p>that are in violation of the special-status species protection measures. Work shall proceed only after hazards to special-status species are removed, the species are allowed to leave, or are removed, and the species is no longer at risk. The qualified biologist(s) shall have a copy of all the compliance measures in their possession while work is being conducted onsite.</p> <p>If required during pre-construction clearance surveys or required monitoring efforts, the qualified biologist(s) shall relocate common and special-status species that enter the proposed Project site; some special-status species may require specific permits prior to handling or have established protocols for relocation. Records of all detection, capture, and release shall be reported to CDFW and/or USFWS as appropriate. Should a federally or State listed species be discovered onsite, at any time, then activities shall be suspended, and the USFWS and/or CDFW contacted, as appropriate. Work shall not resume until coordination/consultation with the USFWS and/or CDFW has been completed, and recommended measures/ requirements have been implemented to minimize harm/harassment to the species.</p>				
BIO-2	<p>Environmental Awareness Training: Prior to initial ground disturbance, the Applicant shall submit proof to CDPR that all proposed Project personnel have attended an environmental awareness and compliance training program. The training program shall present the environmental regulations and applicable permit conditions that the proposed Project team shall comply with. The training program shall include applicable measures established for the proposed Project to minimize impacts to water quality and avoid sensitive resources, habitats, and species. Subsequent training events shall be scheduled to support the training of new personnel. Dated sign-in sheets for</p>	Prior to initial ground disturbance.	The Nature Conservancy	CDPR	Review and approval of Environmental Awareness Training content and logs of personnel training.

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	<p>attendees at these meetings shall be maintained and submitted to CDPR. Copies of all training materials shall be maintained at the site for workers to reference and shall be provided in Spanish, as needed. A qualified biologist shall provide and document all trainings.</p>				
<p>BIO-3</p>	<p>Implement Best Management Practices: Implement Best Management Practices: Prior to initial ground disturbance, the Applicant shall submit grading plans and specifications to CDPR CDPR, which indicate that the proposed Project shall implement the following BMPs:</p> <ul style="list-style-type: none"> • Restrict non-essential equipment to the existing roadways and/or ruderal areas to avoid disturbance to native vegetation. • All excavation, steep-walled holes or trenches in excess of 6 inches in depth shall be covered at the close of each working day by plywood or similar materials or provided with one or more escape ramps constructed of earth dirt fill or wooden planks; escape ramps should be placed at an angle no greater than 30 degrees. Trenches shall also be inspected for entrapped wildlife each morning prior to onset of construction activities and immediately prior to covering with plywood at the end of each working day. Before such holes or trenches are filled, they shall be thoroughly inspected for entrapped wildlife. Any wildlife discovered shall be allowed to escape before construction activities are allowed to resume or removed from the trench or hole by a qualified biologist holding the appropriate permits (if required). • All staged equipment, staged materials (e.g., pipe) or any other construction products that could shelter small animals overnight or during periods of work inactivity, shall be inspected for wildlife prior to moving. All 	<p>Prior to initial ground disturbance.</p>	<p>The Nature Conservancy</p>	<p>CDPR</p>	<p>Review and approval of plans and specifications that include required BMPs.</p>

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	<p>sections of pipe shall be visually checked for the presence of wildlife prior to being removed from the Project site. If any sections of pipes are being stored onsite for any length of time, they shall be visually checked to ensure wildlife is absent and then all ends capped to prevent wildlife entry.</p> <ul style="list-style-type: none"> • Minimize mechanical disturbance of soils to reduce impact of habitat manipulation on small mammals, reptiles, and amphibians. • Removal or disturbance of vegetation shall be minimized to the greatest extent feasible. • Installation and maintenance of appropriate erosion and sediment control measures as needed throughout the duration of work activities. • Implementation of a 15 miles per hour (MPH) speed limit within all proposed Project areas. • No vehicles or equipment shall be refueled, cleaned, or maintained (e.g., oil changed), nor shall other actions (e.g., washing of tools used for painting) that could result in the release of a hazardous substance, occur within 100 feet of a drainage or wetland unless a bermed and lined refueling area is constructed that would prevent the accidental spill of fuel, oil, or chemicals. Approved/designated areas should be in a location where a spill would not drain directly toward aquatic habitat (e.g., on a slope that drains away from the water), unless a requested exception is granted or prior written approval obtained. Spill kits shall be maintained onsite in sufficient quantity to accommodate at least three complete vehicle tank failures of 50 gallons each; any spills or discharges shall be immediately contained, cleaned up, and properly disposed. 				

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	<ul style="list-style-type: none"> • The proposed Project area shall be kept clear of trash to avoid attracting scavengers/predators. All food and garbage shall be placed in sealed containers and regularly removed from the site. Following construction, any trash, debris, or rubbish remaining within the work limits shall be collected and hauled off to an appropriate facility. • No rodent poisons or rodenticide shall be used to control rodents. These products, even used properly, can lead to secondary exposure to wildlife. • All work shall be performed during daylight hours. No nighttime operations (including lighting) shall be authorized to complete the Project. • Work limits, as defined on Project plans, shall be clearly delineated onsite (e.g., using orange snow fence, silt fence, lath and survey tape, etc.) prior to the start of any construction activities. No work shall occur outside of the approved work limits. • Work shall be limited to the construction footprint, as outlined in the Project plans. Access routes, staging areas, and the total footprint of disturbance shall be limited to the minimum number/size necessary to complete the Project and avoid resource impacts. All routes of travel and work boundaries shall be configured to avoid unnecessary intrusions into surrounding habitat. • Conditions set forth in any Project-related permits/approvals shall be observed and implemented as part of construction. • No erosion control materials potentially harmful to fish and wildlife species, such as plastic mesh, mono-filament netting, or 				

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	<p>similar material shall be used. Erosion and sediment control devices, such as erosion control blankets, erosion control netting, and fiber rolls, shall be made of biodegradable loose-weave mesh that is not fused at the intersections of the weave (i.e., jute, coir/coconut fiber, or other natural fiber products without welded weaves) to avoid creating a wildlife entanglement hazard. In addition, weed-free products shall be used to minimize the spread of exotics.</p> <ul style="list-style-type: none"> • All equipment shall be cleaned of dirt and vegetative material prior to arrival at and departure from the Project site to minimize the opportunity for the spread of non-native species, including noxious weeds. All imported fill shall be clean/certified free of invasive species • Any non-native, weedy vegetation removed during the clearing and grading activities shall be collected, treated, and disposed of as recommended by the qualified biologist. 				
<p>BIO-4</p>	<p>Nesting Bird Surveys and Avoidance Measures: <u>To avoid impacts to or take of both common and/or special-status birds (e.g., least Bell's vireo), nestlings, or their eggs, and to the extent feasible, no ground-disturbing activities, including staging, as well as disturbances to native and nonnative vegetation should not occur during the recognized breeding season from Feb 15 through September 15 (January 1 through August 15 for raptors) to avoid impacts to or take of common and/or special-status birds, nestlings, or their eggs.</u></p> <p><u>If construction can't avoid the nesting season, then a temporary sound attenuation barrier shall be placed along the western limits of construction to reduce potential construction noise levels in the bed of the adjacent Los Angeles River. The</u></p>	<p><u>Prior to initial ground disturbance and during construction if during avian nesting season; and during construction if nesting birds observed within buffer distances.</u></p>	<p>The Nature Conservancy</p>	<p>CDPR</p>	<p>Review and approval of pre-ground disturbance nesting bird survey reports and daily construction monitoring logs if nesting birds within buffer distances. <u>Review and approval of contractor work plan for temporary sound attenuation barrier demonstrating minimum 15 decibel design reduction.</u></p>

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	<p><u>construction contractor shall be responsible for demonstrating the design of the temporary sound attenuation barrier achieves a minimum of a 15 decibel reduction in noise levels.</u></p> <p>Prior to initial ground disturbance or vegetation removal (including construction of the sound attenuation barrier), the Applicant shall provide evidence to CDPR of the following. If initial site disturbance is scheduled to begin during the avian nesting season (February 15 through September 15; January 1 through August 15 for raptors), breeding and nesting bird surveys shall be conducted by a qualified biologist no more than 3 days prior to the start of site disturbance. Should work be suspended or delayed for a period of greater than seven 7 days (during the nesting season), then the qualified biologist, at their discretion, shall complete an additional nesting bird survey to ensure that no additional nesting has occurred within or adjacent to the Project area. If construction activities carry over into a second nesting season(s), the surveys shall be completed annually until the proposed Project is complete. Surveys shall be conducted within 500 feet of all proposed Project activities.</p> <p>The Applicant shall coordinate with <u>notify</u> USFWS and/or CDFW if endangered or threatened species are observed. If breeding birds with active nests are found prior to or during construction, a qualified biological monitor shall establish a 300-foot buffer around the nest, and no activities shall be allowed within the buffer(s) until the young have fledged from the nest or the nest fails; initial buffers for nesting raptors shall be 500 feet; a <u>A</u> buffer of 0.25 mile shall be used for nesting peregrine falcon unless the line-of-sight from the edge of development is obscured as determined by a qualified ornithologist. The prescribed buffers for</p>				

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	<p>common species may be adjusted by the qualified biologist based on existing conditions around the nest, planned construction activities, tolerance of the species, <u>location of nest in relation to the sound attenuation barrier</u>, and other pertinent factors; for example, buffers for common passerines, often found to be habituated to human activity, may be adjusted down to 25 - 50 feet depending on the disturbance tolerance of each specific species. Buffer adjustments for listed and/or other special-status species shall be done in coordination with the USFWS and CDFW as applicable; <u>nest locations within the areas protected by the sound attenuation barrier will only require notification to the USFWS and CDFW</u>. The qualified biologist shall conduct regular monitoring of the nest to determine success or failure and to ensure that proposed Project activities are not conducted within the buffer(s) until the nesting cycle is complete or the nest fails.</p>				
CR-1	<p>Worker Environmental Awareness Program: Prior to construction activities, a qualified archaeologists meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (qualified archaeologist) shall conduct cultural resources Worker environmental Awareness Program (WEAP) training for all construction personnel. Construction personnel shall be informed of the proposer procedures for treating cultural resources that may be encountered during construction activities.</p>	<p>Prior to initial ground disturbance.</p>	<p>The Nature Conservancy</p>	<p>CDPR</p>	<p>Review and approval of Environmental Awareness Training content and logs of personnel training.</p>
CR-2	<p>Archaeological Monitoring During Construction: A qualified archeological monitor (working under the direct supervision of a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology) shall be present to monitor all ground-disturbing activities associated with the Project.</p>	<p>Monitoring during construction ground disturbances.</p>	<p>The Nature Conservancy</p>	<p>CDPR</p>	<p>Review and approval of daily construction archaeological monitoring logs during construction ground disturbances.</p>

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	<p>The archaeological monitor shall be empowered to redirect construction activity in the event that archaeological resources are encountered, for the purposes of documenting the resource for evaluation by a qualified archaeologist. The archaeological monitor shall keep daily logs and provide updates to TNC upon request. After monitoring has been completed, the qualified archaeologist shall prepare a monitoring report that details the results of monitoring, which shall be submitted to TNC and to the South Central Coastal Information Center at California State University, Fullerton.</p>				
CR-3	<p>Protection of Encountered Archaeological Resources: If a potentially significant archaeological resource is encountered, it shall be evaluated by a qualified archaeologist in coordination with a CDPR cultural resources specialist. If the resource is determined to be significant, appropriate avoidance, site capping (burial), creation of conservation easements, and/or data recovery shall be implemented in accordance with Secretary of the Interior's Standards to bring the potential impact to that resource to levels less than significant.</p>	During construction.	The Nature Conservancy	CDPR	Coordination, review and approval of evaluation and protection measures, if warranted.
GEO-1	<p>Paleontological Monitoring and Mitigation Plan: A paleontologist meeting professional standards of the Society of Vertebrate Paleontology (2010) shall be retained as the Project paleontologist to oversee all aspects of paleontological mitigation, including the development and implementation of a Paleontological Monitoring and Mitigation Plan (PMMP) tailored to the Project plans that provides for paleontological monitoring of earthwork and ground disturbing activities into undisturbed geologic units with high paleontological potential to be conducted by a paleontological monitor meeting industry standards (Murphey et al. 2019). The PMMP should also include provisions for a Workers' Environmental Awareness Program</p>	Prior to Project construction activities.	The Nature Conservancy	CDPR	Review and approval of Paleontological Monitoring and Mitigation Plan and verification of content in Environmental Awareness Training.

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	training that communicates requirements and procedures for the inadvertent discovery of paleontological resources during construction, to be delivered by the paleontological monitor to the construction crew prior to the onset of ground disturbance. As the Project is on CDPR lands, a permit shall be required from CDPR for this work.				
GEO-2	Paleontological Monitoring During Construction: Paleontological monitoring shall be conducted by a qualified paleontological monitor for ground disturbance that exceeds 10 feet in depth across the Project area. The Project paleontologist may reduce the frequency of monitoring should subsurface conditions indicate low paleontological potential.	During ground disturbance that exceeds 10 feet in depth across the Project area.	The Nature Conservancy	CDPR	Review of daily construction paleontological monitoring logs during ground disturbances that exceed 10 feet.
GEO-3	Management of Paleontological Resources: Should a potential paleontological resource be identified in the Project area, whether by the monitor or a member of the construction crew, work shall halt in a safe radius around the find (usually 50 feet) until the Project paleontologist can assess the find and, if significant, salvage the fossil for laboratory preparation and curation at the Natural History Museum of Los Angeles County.	During construction.	CDPR	CDPR	Preparation and approval of documentation demonstrating work pause, assessment, and salvage/curation in collaboration with Natural History Museum of Los Angeles County (if necessary).
TCR-1	Tribal Cultural Resources Monitoring During Construction: The Project Proponent shall obtain the services of a qualified Native American Monitor(s) during construction-related ground disturbance activities. Ground disturbance is defined by the Tribal Representatives from the Gabrieleno Band of Mission Indians Kizh Nation as activities that include, but are not limited to, pavement removal, pot-holing or auguring, grubbing, weed abatement, boring, grading, excavation, drilling, and trenching, within the project area. The monitor(s) must be approved by the Tribal Representatives and will be present on-site during	During construction-related ground disturbance activities.	The Nature Conservancy	CDPR	Retention of a qualified Native American Monitor(s) and review of daily monitoring records.

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	<p>the construction phases that involve any ground disturbing activities. The Native American Monitor(s) will complete monitoring logs on a daily basis. The logs will provide descriptions of the daily activities, including construction activities, locations, soil, and any cultural materials identified. The monitor(s) shall possess Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. In addition, the monitor(s) will be required to provide insurance certificates, including liability insurance, for any archaeological resource(s) encountered during grading and excavation activities pertinent to the provisions outlined in the California Environmental Quality Act, California Public Resources Code Division 13, Section 21083.2 (a) through (k). The on-site monitoring shall end when the Project site grading and excavation activities are completed, or when the Tribal Representatives and monitor have indicated that the site has a low potential for archeological resources.</p> <p><u>Based on the results of tribal consultation conducted for the Project pursuant to California Public Resources Code Section 21080.3.1 (d), the Project Proponent shall obtain the services of a qualified Tribal Monitor(s) representing the Gabrieleño Band of Mission Indians-Kizh Nation during construction-related ground disturbance activities. Ground disturbance is defined by the Tribal Representatives from the Gabrieleño Band of Mission Indians-Kizh Nation as activities that include, but are not limited to, pavement removal, pot-holing or auguring, grubbing, weed abatement, boring, grading, excavation, drilling, and trenching, within the Project area.</u></p> <p><u>The monitor(s) must be approved by the Tribal Representatives from the Gabrieleño Band of Mission Indians-Kizh Nation to identify their tribal</u></p>				

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	<p><u>cultural resources and will be present on-site during the construction phases that involve any ground disturbing activities. The Tribal Monitor(s) will complete monitoring logs on a daily basis. The logs will provide descriptions of the daily activities, including construction activities, locations, soil, and any cultural materials identified. The monitor(s) shall possess Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. In addition, the monitor(s) will be required to provide insurance certificates, including liability insurance, for work conducted during grading and excavation activities pertinent to the provisions outlined in the California Environmental Quality Act, California Public Resources Code Division 13, Section 21084.3 (a) through (b). The on-site monitoring shall end when the Project site grading and excavation activities are completed, or when the Tribal Representatives and monitor have indicated that the site has a low potential for tribal cultural resources.</u></p>				
TCR-2	<p>Unanticipated Discovery of Tribal Cultural Resources: All archaeological resources unearthed by Project construction activities shall be evaluated by the Qualified Archaeologist and Native Monitor. If the resources are Native American in origin, the Tribe shall coordinate with the landowner regarding treatment and curation of these resources. Typically, the Tribe will request reburial or preservation for educational purposes. If a resource is determined by the Qualified Archaeologist to constitute a “historical resource” pursuant to CEQA Guidelines Section 15064.5(a) or has a “unique archaeological resource” pursuant to Public Resources Code Section 21083.2(g), the Qualified Archaeologist shall coordinate with the applicant and the City to develop a formal treatment plan that would serve to reduce impacts to the resources. The treatment plan established for the resources shall be in accordance with</p>	During Project construction.	The Nature Conservancy	CDPR	Retention of a qualified Native American Monitor(s) and review of daily monitoring records.

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	<p>CEQA Guidelines Section 15064.5(f) for historical resources and Public Resources Code Sections 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavations to remove the resource along with subsequent laboratory processing and analysis. Any historic archaeological material that is not Native American in origin shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be donated to a local school or historical society in the area for educational purposes.</p>				