BIOLOGICAL TECHNICAL REPORT

FOR THE

PATTERSON AVENUE AND CAJALCO ROAD PROJECT

LOCATED IN THE COMMUNITY OF MEAD VALLEY, RIVERSIDE COUNTY, CALIFORNIA

Prepared For:

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November 4, 2022

INFORMATION SUMMARY

A. Report Date: November 4, 2022

B. Report Title: Biological Technical Report for the Patterson Avenue and Cajalco

Road Project, Riverside County, California

C. Project Site

Location: Community of Mead Valley, Riverside County, California.

Latitude 33.83520, longitude - 117.25608 (center reading).

D. Owner/Applicant: T&B Planning

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F. Report Summary:

This report describes the current biological conditions for the Patterson Avenue and Cajalco Road Project [Project] and evaluates impacts to biological resources from development of the Project.

The proposed 5.06-acre Project site is located within the Mead Valley Area Plan of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) but is not located within the MSHCP Criteria Area/Conservation Area. The proposed Project is located within the burrowing owl survey area but is not located within any other MSHCP species survey areas.

Glenn Lukos Associates (GLA) biologists/regulatory specialists conducted general biological and site-specific surveys (including burrowing owls surveys) on March 9, April 5 and 13, May 30, July 25, August 1 and 8, 2022, for the Project and conducted focused rare plant surveys on March 9, April 13, and May 30, 2022. Pursuant to MSHCP policies, biological surveys included habitat assessments for special status species and animal species. In addition, GLA conducted vegetation mapping, including of potential MSHCP riparian/riverine areas, and an evaluation of federal and state jurisdictional waters.

The proposed Project will not impact MSHCP riparian/riverine areas, or waters subject to the jurisdictions of the U.S. Army Corps of Engineers (Corps), Santa Ana Regional Water Quality Control Board (Regional Board), or the California Department of Fish and Wildlife (CDFW).

The proposed Project would be consistent with all applicable MSHCP policies, specifically pertaining to the Project's relationship to reserve assembly, *Section 6.1.2* (Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools), *Section 6.1.3* (Protection of Narrow Endemic Plant Species), *Section 6.1.4* (Guidelines Pertaining to the Urban/Wildlands Interface), and *Section 6.3.2* (Additional Survey Needs and Procedures).

G. Individuals Conducting Fieldwork:

Jillian Stephens and Joseph Vu

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1.0 INTRODUCTION

1.1 Background and Scope of Work

This document provides the results of general and focused biological surveys for the approximately 5.06-acre Patterson Avenue and Cajalco Road Project (Project) located in Mead Valley, Riverside County, California. This report identifies and evaluates impacts to biological resources associated with the proposed Project in the context of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP), the California Environmental Quality Act (CEQA), and State and federal regulations such as the Endangered Species Act (ESA), Clean Water Act (CWA), Clean Water Code (CWC), and the California Fish and Game Code.

The scope of this report includes a discussion of existing conditions for the approximately 5.06-acre Project site, all methods employed regarding the general and focused biological surveys, the documentation of botanical and wildlife resources identified (including special-status species), and an analysis of impacts to biological resources. Methods of the study include a review of relevant literature, field surveys, and a Geographical Information System (GIS)-based analysis of vegetation communities. As appropriate, this report is consistent with accepted scientific and technical standards and survey guideline requirements issued by the United States Fish and Wildlife Service (USFWS), the California Department of Fish and Wildlife (CDFW), the California Native Plant Society (CNPS), and other applicable agencies/organizations.

The field studies focused on a number of primary objectives that would comply with CEQA and MSHCP requirements, including (1) general reconnaissance survey and vegetation mapping; (2) general biological surveys; (3) habitat assessments for special-status plant species (including species with applicable MSHCP survey requirements); (4) habitat assessments for special-status wildlife species (including species with applicable MSHCP survey requirements); (5) focused burrowing owl (*Athene cunicularia*) surveys; (6) assessment for the presence of wildlife migration and colonial nursery sites; (7) assessments for MSHCP riparian/riverine areas and vernal pools; and (8) assessments for areas subject to the jurisdiction of the United States Army Corps of Engineers (Corps) pursuant to Section 404 of the CWA, the Regional Water Quality Control Board (Regional Board) pursuant to Section 401 of the CWA and Section 13260 of the CWC (the Porter-Cologne Act), and CDFW jurisdiction pursuant to Division 2, Chapter 6, Section 1600–1617 of the California Fish and Game Code. Observations of all plant and wildlife species were recorded during the biological studies are included as Appendix A: Floral Compendium and Appendix B: Faunal Compendium.

1.2 **Project Location**

The Project site comprises approximately 5.06 acres in the Community of Mead Valley, Riverside County, California [Exhibit 1 – Regional Map] and is located within Section 12 of Township 4 South, Range 4 West, of the Steele Peak, California United States Geological Survey (USGS) 7.5' topographic quadrangle map [Exhibit 2 – Vicinity Map]. The Project site is bordered by undeveloped land to the west and south, commercial/industrial development to the north, and Patterson Avenue to the east.

1.3 **Project Description**

The Project consists of an application for a Plot Plan (PPT 220024) to allow for development of the 5.06-acre Project site with a 107,968 square foot warehouse building. The Project also includes construction of a driveway leading into the Project site, parking spaces, and fire access lanes at the perimeter of the Project site.

1.4 Relationship of the Project Site to the MSHCP

1.4.1 MSHCP Background

The Western Riverside County MSHCP is a comprehensive habitat conservation/planning program for Western Riverside County. The intent of the MSHCP is to preserve native vegetation and meet the habitat needs of multiple species, rather than focusing preservation efforts on one species at a time. The MSHCP provides coverage (including take authorization for listed species) for special-status plant and animal species, as well as mitigation for impacts to special-status species and associated native habitats.

Through agreements with the USFWS and CDFW, the MSHCP designates 146 special-status animal and plant species as Covered Species, of which the majority have no project-specific survey/conservation requirements. The MSHCP provides mitigation for project-specific impacts to these species for projects that are compliant/consistent with MSHCP requirements, such that the impacts are reduced to below a level of significance pursuant to CEQA.

The Covered Species that are not yet adequately conserved have additional requirements in order for these species to ultimately be considered "adequately conserved". A number of these species have survey requirements based on a project's occurrence within a designated MSHCP survey area and/or based on the presence of suitable habitat. These include Narrow Endemic Plant Species (MSHCP *Volume I, Section 6.1.3*), as identified by the Narrow Endemic Plant Species Survey Areas (NEPSSA); Criteria Area Plant Species (MSHCP *Volume I, Section 6.3.2*) identified by the Criteria Area Plant Species Survey Areas (CAPSSA); animal species (burrowing owl, mammals, amphibians) identified by survey areas (MSHCP *Volume I, Section 6.3.2*); and species associated with riparian/riverine areas and vernal pool habitats, i.e., least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, and three species of listed fairy shrimp (MSHCP *Volume I, Section 6.1.2*). An additional 28 species (MSHCP *Volume I, Table 9.3*) not yet adequately conserved have species-specific objectives in order for the species to become adequately conserved. However, these species do not have project-specific survey requirements.

The goal of the MSHCP is to have a total Conservation Area in excess of 500,000 acres, including approximately 347,000 acres on existing Public/Quasi-Public Lands, and approximately 153,000 acres of Additional Reserve Lands targeted within the MSHCP Criteria Area. The MSHCP is divided into 16 separate Area Plans, each with its own conservation goals and objectives. Within each Area Plan, the Criteria Area is divided into Subunits, and further divided into Criteria Cells and Cell Groups (a group of criteria cells). Each Cell Group and ungrouped, independent Cell has designated "criteria" for the purpose of targeting additional

conservation lands for acquisition. Projects located within the Criteria Area are subject to the Habitat Evaluation and Acquisition Negotiation Strategy (HANS) process to determine if lands are targeted for inclusion in the MSHCP Reserve. In addition, all Projects located within the Criteria Area are subject to the Joint Project Review (JPR) process, where the Project is reviewed by the Regional Conservation Authority (RCA) to determine overall compliance/consistency with the biological requirements of the MSHCP.

1.4.2 Relationship of the Project Site to the MSHCP

The Project is located within the Mead Valley Area Plan of the MSHCP, but is not located within the MSHCP Criteria Area, and as such the Project does not require a JPR. The Project is located within the MSHCP Survey Area for the burrowing owl (*Athene cunicularia*) but is not located within the Mammal or Amphibian Survey Areas; NEPSSA; or CAPSSA [Exhibit 3 – MSHCP Overlay Map].

Within the designated Survey Areas, the MSHCP requires habitat assessments and focused surveys within areas of suitable habitat. For locations with positive survey results, the MSHCP requires that 90 percent of those portions of the property that provide for long-term conservation value for the identified species shall be avoided until it is demonstrated that conservation goals for the particular species have been met throughout the MSHCP. Findings of equivalency shall be made demonstrating that the 90-percent standard has been met, if applicable. If equivalency findings cannot be demonstrated, then "biologically equivalent or superior preservation" must be provided.

2.0 METHODOLOGY

In order to adequately identify biological resources in accordance with the requirements of CEQA, Glenn Lukos Associates (GLA) assembled biological data consisting of the following main components:

- Evaluation of aquatic resources (including wetlands and riparian habitat) subject to the jurisdiction of the Corps, Regional Board, CDFW, and the MSHCP riparian/riverine areas and vernal pools policy;
- Performance of vegetation mapping for the Project site;
- Performance of habitat assessments and site-specific biological surveys to evaluate the presence/absence of special-status species in accordance with the requirements of CEQA and the MSHCP; and
- Performance of a focused surveys for rare plants; and
- Performance of a focused surveys for the burrowing owl.

The focus of the biological surveys was determined through initial site reconnaissance, a review of the California Natural Diversity Database (CNDDB) (CDFW 2022), CNPS 9th edition online inventory (CNPS 2022), Natural Resource Conservation Service soil data (NRCS 2022), MSHCP species and habitat maps and sensitive soil maps (Dudek 2003), other pertinent literature, and knowledge of the region. Site-specific general surveys within the Project site were

conducted on foot in the proposed development areas for each target plant or animal species identified below. Table 2-1 provides a summary list of survey dates, survey types, and personnel.

Table 2-1. Summary of Biological Surveys for the Project Site

Survey Type	2022 Survey Dates	Biologist(s)
General Reconnaissance Survey	1/25	ZW
Focused Burrowing Owl Surveys	4/5, 7/25, 8/1, 8/8	JV
Focused Rare Plant Survey and Habitat Assessment	3/9, 4/13, 5/30	JS
General Biological Survey	3/9, 4/5	JS, JV
Evaluation of Potential Corps, CDFW, Regional Board, and MSHCP Riparian/Riverine/Vernal Pool Habitats	4/5	JV
Vegetation Mapping	4/5	JV

ZW = Zack West, JS = Jillian Stephens, JV = Joseph Vu

Individual plant and wildlife species were evaluated in this report based on their "special-status." For this report, plants were considered special-status based on one or more of the following criteria:

- Listing through the federal and/or State ESA; and/or
- CNPS Inventory California Rare Plant Rank 1A, 1B, 2A, 2B, 3, or 4.

Wildlife species were considered "special-status" based on one or more of the following criteria:

- Listing through the federal and/or State ESA; and/or
- Designation by the State as a Species of Special Concern (SSC) or California Fully Protected (CFP) species.

Vegetation communities and habitats were considered "special-status" based on one or more of the following criteria:

- Global (G) and/or State (S) ranking of category 3 or less based on CDFW (see Section 3.2.2 below for further explanation);
- Riparian/riverine habitat; and/or
- Wetland/vernal pool habitat.

2.1 <u>Botanical Resources</u>

A site-specific survey program was designed to accurately document the botanical resources within the Project site, and consisted of five components: (1) a literature search; (2) preparation of a list of target special-status plant species and sensitive vegetation communities that could occur within the Project site; (3) general field reconnaissance survey(s); (4) vegetation mapping according to Holland; and (5) habitat assessments for special-status plants (including those with MSHCP requirements).

2.1.1 Literature Search

Prior to conducting fieldwork, pertinent literature on the flora of the region was examined. A thorough archival review was conducted using available literature and other historical records. These resources included the following:

- CNPS, Rare Plant Program. 2022. Inventory of Rare and Endangered Plants of California (online edition, v9-01 1.5,CNPS 2022); and
- CNDDB for the USGS 7.5' quadrangle(s): Steele Peak and surrounding quadrangles (CDFW 2022).

2.1.2 Vegetation Mapping

Vegetation communities within the Project Site were mapped according to Holland (1986) when possible. Deviations in nomenclature were made when existing habitat descriptions did not accurately characterize the vegetation communities present. As such, certain vegetation communities were named based on the dominant plant species present. Plant communities were mapped in the field directly onto a 50-scale (1"=50") aerial photograph. A vegetation map is included as Exhibit 4. Representative site photographs are included as Exhibit 7.

2.1.3 Special-Status Plant Species and Habitats Evaluated for the Project Site

A literature search was conducted to obtain a list of special-status plants with the potential to occur within the Project site. The CNDDB was initially consulted to determine well-known occurrences of plants and habitats of special concern in the region. Other sources used to develop a list of target species for the survey program included the CNPS online inventory (2022) and the MSHCP (Dudek 2003).

Based on this information, vegetation profiles and a list of target sensitive plant species and habitats that could occur within the Project site were developed and incorporated into a mapping and survey program to achieve the following goals: (1) characterize the vegetation associations and land use; (2) prepare a detailed floristic compendium; (3) identify the potential for any special-status plants that may occur within the Project site; and (4) prepare a map showing the distribution of any sensitive botanical resources associated with the Project site, if applicable.

The Project site is not located within the NEPSSA or the CAPSSA; therefore, focused plant surveys are not required pursuant to the MSHCP. However, a rare plant habitat assessment was performed to evaluate potential impacts under CEQA.

2.1.4 Botanical Surveys

GLA biologist Jillian Stephens visited the site on March 9, April 13, and May 30, 2022, to conduct a habitat assessment for special-status plants and focused plant surveys. Surveys were conducted in accordance with accepted botanical survey guidelines (CDFG 2009, CNPS 2001, USFWS 2000). An aerial photograph, a soil map, and/or a topographic map were used to determine the community types and other physical features that may support sensitive and

uncommon taxa or communities within the Project site. The survey was conducted by following meandering transects within target areas of suitable habitat. All plant species encountered during the field survey(s) were identified and recorded following the above-referenced guidelines adopted by CNPS (2010) and CDFW (Nelson 1984). A complete list of the plant species observed is provided in Appendix A. Scientific nomenclature and common names used in this report follow Jepson Flora Project (2021) and Munz (1974) conventions.

2.2 Wildlife Resources

Wildlife species were evaluated and detected during the field survey(s) by sight, call, tracks, and scat. Site reconnaissance was conducted in such a manner as to allow inspection of the entire Project site by direct observation, including the use of binoculars. Observations of physical evidence and direct sightings of wildlife were recorded in field notes during the visit(s). A complete list of wildlife species observed within the Project site is provided in Appendix B. Scientific nomenclature and common names for vertebrate species referred to in this report follow the Complete List of Amphibian, Reptile, Bird, and Mammal Species in California (CDFW 2016), Standard Common and Scientific Names for North American Amphibians, Turtles, Reptiles, and Crocodilians 8th Edition, and the American Ornithological Society's Online Check-list of North American Birds (Chesser et al 2022) for birds. The methodology (including any applicable survey protocols) utilized to conduct general survey(s), habitat assessment(s), and/or focused surveys for special-status animals are included below.

2.2.1 General Surveys

Birds

During the general biological and reconnaissance survey(s) within the Project site, birds were identified incidentally within each habitat type. Birds were detected by both direct observation and by vocalizations and were recorded in field notes.

Mammals

During the general biological and reconnaissance survey(s) within the Project site, mammals were identified incidentally within each habitat type. Mammals were detected both by direct observations and by the presence of diagnostic sign (i.e. tracks, burrows, scat, etc.).

Reptiles and Amphibians

During the general biological and reconnaissance survey(s) within the Project site, reptiles and amphibians were identified incidentally within each habitat type. Habitats were examined for diagnostic reptile sign which includes shed skins, scat, tracks, snake prints, and lizard tail drag marks. All reptiles and amphibian species observed or detected via diagnostic sign were recorded in field notes.

2.2.2 Special-Status Animal Species Evaluated for the Project Site

A literature search was conducted to obtain a list of special-status wildlife species with the potential to occur within the Project site. Species were evaluated based on three factors, including: 1) species identified by the CNDDB as occurring (either currently or historically) on or in the vicinity of the Project site, (2) species survey areas as identified by the MSHCP for the Project site; and 3) any other special-status animals that are known to occur within the vicinity of the Project site, or for which potentially suitable habitat occurs on the Project site.

2.2.3 Habitat Assessment for Special-Status Animal Species

GLA biologist Joseph Vu conducted a habitat assessment for special-status animal species on April 5, 2022. An aerial photograph, soil map and/or topographic map were used to determine the community types and other physical features that may support special-status and uncommon taxa within the Project site.

2.2.4 Focused Surveys for Special-Status Animals Species

Burrowing Owl

The Project site is located within the MSHCP survey area for the burrowing owl (*Athene cunicularia*). GLA biologist Joseph Vu conducted focused surveys for the burrowing owl in 2022 within all suitable habitat areas within the Project site. Surveys were conducted in accordance with survey guidelines described in the 2006 MSHCP Burrowing Owl Survey Instructions, as well as being consistent with the 2012 CDFW Staff Report on Burrowing Owl Mitigation. The MSHCP guidelines stipulate that four focused survey visits be conducted on separate dates between March 1 and August 31. Within areas of suitable habitat, the MSHCP first requires a focused burrow survey to map all potentially suitable burrows. The focused burrow survey was conducted on April 5, 2022, and the focused burrowing owl surveys were conducted on April 5, July 25, August 1, and August 8, 2022.

Both the burrow and owl surveys were conducted during weather that was conducive to observing owls outside their burrows and detecting burrowing owl sign and not during rain, high winds (> 20 mph), dense fog, or temperatures over 90 °F. Additionally, all work was performed more than 5 days after a rain event. Refer to Table 2-1 in Section 2.0 for survey condition details.

The survey was conducted by walking meandering transects throughout areas of suitable habitat. Exhibit 5 – Burrowing Owl Survey Area Map identifies the burrowing owl survey area at the Project site. The MSHCP guidelines state that transects should not be spaced more than 30 meters apart, while the CDFW Staff Report is more stringent with a 7-meter to 20-meter spacing. Transects were spaced between 7 meters and 20 meters apart (22 feet and 65 feet) to be consistent with both guidelines, adjusting for vegetation height and density, in order to provide adequate visual coverage of the survey areas. At the start of each transect, and at least every 100 meters (320 feet) along transects, the survey area was scanned for burrowing owls using binoculars. All suitable burrows were inspected for diagnostic owl sign (e.g., pellets, prey remains, whitewash, feathers, bones, and/or decoration) in order to identify potentially occupied

burrows. In addition, where feasible areas within a 500-foot buffer around the site were scanned with binoculars to evaluate for the burrowing owl in adjacent (offsite) areas. Refer to Table 2-2 below for survey condition details. The results of the burrowing owl surveys are documented in Section 4.0 of this report.

Table 2-2. Summary of Burrowing Owl Surveys

Survey Date	Biologist(s)	Start/End Time	Start/End Temperature (°F)	Start/End Wind Speed (mph)	Cloud Cover (%)
4/5/2022	JV	0615/0815	53/56	0/1	0/0
7/25/2022	JV	0515/0730	63/68	0/1	50/50
8/1/2022	JV	0600/0745	60/63	2/4	0/0
8/8/2022	JV	0545/0745	58/64	0/0	0/0

 $\overline{JV = Joseph Vu}$

2.3 <u>Jurisdictional Waters</u>

The Project site was evaluated for the presence of jurisdictional waters, including waters of the U.S. (including wetlands) subject to the jurisdiction of the Corps and Regional Board, and waters of the State (including riparian vegetation) subject to the jurisdiction of CDFW.

2.4 MSHCP Riparian/Riverine Areas and Vernal Pools

Volume I, Section 6.1.2 of the MSHCP describes the process through which protection of riparian/riverine areas and vernal pools would occur within the MSHCP Plan Area. The purpose is to ensure that the biological functions and values of these areas throughout the MSHCP Plan Area are maintained such that habitat values for species inside the MSHCP Conservation Area are maintained. The MSHCP requires that as projects are proposed within the overall Plan Area, the effect of those projects on riparian/riverine areas and vernal pools must be addressed.

The MSHCP defines riparian/riverine areas as lands which contain Habitat dominated by trees, shrubs, persistent emergent mosses and lichens, which occur close to or which depend upon soils moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year.

The MSHCP defines vernal pools as seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetland indictors of hydrology and/or vegetation during the drier portion of the growing season.

With the exception of wetlands created for the purpose of providing wetlands habitat or resulting from human actions to create open waters, or from the alteration of natural stream courses, areas demonstrating characteristics as described above which are artificially created are not included in these definitions.

GLA surveyed the Project site on January 25 and April 5, 2022 for riparian/riverine areas and vernal pool/seasonal pool habitat, including features with the potential to support fairy shrimp. To assess for vernal/seasonal pools (including fairy shrimp habitat), GLA biologists evaluated the topography of the site including whether the site contained depressional features/topography with the potential to become inundated; whether the site contained soils associated with vernal/seasonal pools; and whether the site supported plants that suggested areas of localized ponding.

3.0 REGULATORY SETTING

The proposed Project is subject to State and federal laws and regulations associated with a number of regulatory programs. These programs often overlap and were developed to protect natural resources, including: State and federally listed plants and animals; aquatic resources including rivers and creeks, ephemeral streambeds, wetlands, and areas of riparian habitat; special-status species which are not listed as threatened or endangered by the State or federal governments; and special-status vegetation communities.

3.1 Endangered Species Acts

3.1.1 California Endangered Species Act

California's ESA (CESA) defines an endangered species as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease." The State defines a threatened species as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required by this chapter. Any animal determined by the commission as rare on or before January 1, 1985 is a threatened species." Candidate species are defined as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the commission has formally noticed as being under review by the department for addition to either the list of endangered species or the list of threatened species, or a species for which the commission has published a notice of proposed regulation to add the species to either list." Candidate species may be afforded temporary protection as though they were already listed as threatened or endangered at the discretion of the Fish and Game Commission. Unlike the Federal ESA (FESA), the CESA does not list invertebrate species.

Article 3, Sections 2080 through 2085 of the CESA addresses the taking of threatened, endangered, or candidate species by stating, "No person shall import into this state, export out of this state, or take, possess, purchase, or sell within this state, any species, or any part or product thereof, that the commission determines to be an endangered species or a threatened species, or attempt any of those acts, except as otherwise provided." Under the CESA, "take" is defined as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." Exceptions authorized by the state to allow "take" require permits or memoranda of

understanding and can be authorized for endangered species, threatened species, or candidate species for scientific, educational, or management purposes, and for take incidental to otherwise lawful activities. Sections 1901 and 1913 of the California Fish and Game Code provide that notification is required prior to disturbance.

3.1.2 Federal Endangered Species Act

The FESA of 1973 defines an endangered species as "any species that is in danger of extinction throughout all or a significant portion of its range." A threatened species is defined as "any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range." Under provisions of Section 9(a)(1)(B) of the FESA it is unlawful to "take" any listed species. "Take" is defined in Section 3(18) of FESA as follows: "...harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Further, the USFWS, through regulation, has interpreted the terms "harm" and "harass" to include certain types of habitat modification that result in injury to, or death of species as forms of "take". These interpretations, however, are generally considered and applied on a case-by-case basis and often vary from species to species. In a case where a property owner seeks permission from a federal agency for an action that could affect a federally listed plant and animal species, the property owner and agency are required to consult with USFWS. Section 9(a)(2)(b) of the FESA addresses the protections afforded to listed plants.

3.1.3 State and Federal Take Authorizations

Federal or State authorizations of impacts to or incidental take of a listed species by a private individual or other private entity would be granted in one of the following ways:

- Section 7 of the FESA stipulates that any federal action that may affect a species listed as threatened or endangered requires a formal consultation with USFWS to ensure that the action is not likely to jeopardize the continued existence of the listed species or result in destruction or adverse modification of designated critical habitat. 16 U.S.C. 1536(a)(2).
- In 1982, the FESA was amended to give private landowners the ability to develop a Habitat Conservation Plan (HCP) pursuant to Section 10(a) of the FESA. Upon development of an HCP, the USFWS can issue incidental take permits for listed species where the HCP specifies at minimum, the following: (1) the level of impact that will result from the taking, (2) steps that will minimize and mitigate the impacts, (3) funding necessary to implement the plan, (4) alternative actions to the taking considered by the applicant and the reasons why such alternatives were not chosen, and (5) such other measures that the Secretary of the Interior may require as being necessary or appropriate for the plan.
- In certain circumstances, Section 2080.1 of the California Fish and Game Code allows CDFW to adopt the federal incidental take statement or the 10(a) permit as its own based on its findings that the federal permit adequately protects the species under State law.

3.1.4 Take Authorizations Pursuant to the MSHCP

The Western Riverside County MSHCP was adopted on June 17, 2003, and an Implementing Agreement was executed between the federal and State wildlife agencies and participating

entities. The MSHCP is a comprehensive habitat conservation-planning program for western Riverside County. The intent of the MSHCP is to preserve native vegetation and meet the habitat needs of multiple species, rather than focusing preservation efforts on one species at a time. As such, the MSHCP is intended to streamline review of individual projects with respect to the species and habitats addressed in the MSHCP, and to provide for an overall Conservation Area that would be of greater benefit to biological resources than would result from a piecemeal regulatory approach. The MSHCP provides coverage (including take authorization for listed species) for special-status plant and animal species, as well as mitigation for impacts to sensitive species pursuant to Section 10(a) of the FESA.

Through agreements with USFWS and CDFW, the MSHCP designates 146 special-status animal and plant species that receive some level of coverage under the plan. Of the 146 "Covered Species" designated under the MSHCP, the majority of these species have no additional survey/conservation requirements. In addition, through project participation with the MSHCP, the MSHCP provides mitigation for project-specific impacts to Covered Species such that impacts are considered reduced to below a level of significance pursuant to CEQA. As noted above, project-specific survey requirements exist for species designated as "Covered Species not yet adequately conserved". These include Narrow Endemic Plant Species, as identified by the NEPSSA; Criteria Area Plant Species identified by the CAPSSA; animals species as identified by survey area; and plant and animal species associated with riparian/riverine areas and vernal pool habitats (*Volume I, Section 6.1.2* of the MSHCP document).

For projects that have a federal nexus such as through federal CWA 404 permitting, take authorization for federally listed covered species would occur under Section 7 (not Section 10) of FESA; USFWS would provide an MSHCP consistency review of the proposed project, resulting in a Biological Opinion (BO). The BO would require no more compensation than what is required to be consistent with the MSHCP.

3.2 <u>California Environmental Quality Act</u>

3.2.1 CEQA Guidelines Section 15380

CEQA requires evaluation of a project's impacts on biological resources and provides guidelines and thresholds for use by lead agencies for evaluating the significance of proposed impacts. Sections 5.1.1 and 5.2.2 below set forth these thresholds and guidelines. Furthermore, pursuant to the CEQA Guidelines Section 15380, CEQA provides protection for non-listed species that could potentially meet the criteria for state listing. For plants, CDFW recognizes that plants assigned a California Rare Plant Rank (CRPR) of 1A, 1B, or 2 in the CNPS *Inventory of Rare and Endangered Plants in California* may meet the criteria for listing and should be considered under CEQA. CDFW also recommends protection of plants, which are regionally important, such as locally rare species, disjunct populations of more common plants, or plants CRPR Ranked 3 or 4.

3.2.2 Special-Status Plants, Wildlife and Vegetation Communities Evaluated Under CEQA

Federally Designated Special-Status Species

Within recent years, the USFWS instituted changes in the listing status of candidate species. Former C1 (candidate) species are now referred to simply as candidate species and represent the only candidates for listing. Former C2 species (for which the USFWS had insufficient evidence to warrant listing) and C3 species (either extinct, no longer a valid taxon, or more abundant than was formerly believed) are no longer considered as candidate species. Therefore, these species are no longer maintained in list form by the USFWS, nor are they formally protected. This term is employed in this document but carries no official protections. All references to federally protected species in this report (whether listed, proposed for listing, or candidate) include the most current published status or candidate category to which each species has been assigned by USFWS.

For this report the following acronyms are used for federal special-status species:

•	FE	Federally listed as Endangered
•	FT	Federally listed as Threatened
•	FPE	Federally proposed for listing as Endangered
•	FPT	Federally proposed for listing as Threatened
•	FC	Federal Candidate Species (former C1 species)

State-Designated Special-Status Species

Some mammals and birds are protected by the State as Fully Protected (SFP) Mammals or Fully Protected Birds, as described in the California Fish and Game Code, Sections 4700 and 3511, respectively. California SSC are designated as vulnerable to extinction due to declining population levels, limited ranges, and/or continuing threats. This list is primarily a working document for the CDFW's CNDDB project. Informally listed taxa are not protected but warrant consideration in the preparation of biotic assessments. For some species, the CNDDB is only concerned with specific portions of the life history, such as roosts, rookeries, or nest sites.

For this report the following acronyms are used for State special-status species:

•	SE	State-listed as Endangered
•	ST	State-listed as Threatened
•	SR	State-listed as Rare
•	SCE	State Candidate for listing as Endangered
•	SCT	State Candidate for listing as Threatened
•	SFP	State Fully Protected
•	SP	State Protected
•	SSC	State Species of Special Concern

CNDDB Global/State Rankings

The CNDDB provides global and state rankings for species and communities based on a system developed by The Nature Conservancy to measure rarity of a species. The ranking provides a shorthand formula about how rare a species/community is and is based on the best information available from multiple sources, including state and federal listings, and other groups that recognize species as sensitive (e.g., Bureau of Land Management, Audubon Society, etc.). State and global rankings are used to prioritize conservation and protection efforts so that the rarest species/communities receive immediate attention. In both cases, the lower ranking (i.e., G1 or S1) indicates extreme rarity. Rare species are given a ranking from 1 to 3. Species with a ranking of 4 or 5 is considered to be common. If the exact global/state ranking is undetermined, a range is generally provided. For example, a global ranking of "G1G3" indicates that a species/community global rarity is between G1 and G3. If the animal being considered is a subspecies of a broader species, a "T" ranking is attached to the global ranking. The following are descriptions of global and state rankings:

Global Rankings

- G1 Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or because of some factor(s) making it especially vulnerable to extinction.
- G2 Imperiled globally because of rarity (6-20 occurrences), or because of some other factor(s) making it very vulnerable to extinction throughout its range.
- G3 Either very rare and local throughout its range (21 to 100 occurrences) or found locally (even abundantly at some of its locations) in a restricted range (e.g., a physiographic region), or because of some other factor(s) making it vulnerable to extinction throughout its range.
- G4 Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 Common, widespread and abundant.

State Rankings

- S1 Extremely rare; typically 5 or fewer known occurrences in the state; or only a few remaining individuals; may be especially vulnerable to extirpation.
- S2 Very rare; typically between 6 and 20 known occurrences; may be susceptible to becoming extirpated.
- S3 Rare to uncommon; typically 21 to 50 known occurrences; S3 ranked species are not yet susceptible to becoming extirpated in the state but may be if additional populations are destroyed.
- S4 Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- S5 Common, widespread, and abundant in the state.

California Native Plant Society

CNPS is a private plant conservation organization dedicated to the monitoring and protection of sensitive species in California. The CNPS Ninth Edition of the *California Native Plant Society's Inventory of Rare and Endangered Plants of California* separates plants of interest into six California Rare Plant Ranks based on geographic distribution and potential threats to existing populations. The CNPS Inventory is used by CDFW as the candidate list for species that may be state listed as threatened and endangered. CNPS has developed five categories of rarity that are summarized in Table 3-1.

Table 3-1. CRPR Ranks 1, 2, 3, and 4, and Threat Code Extensions

CNPS Rank	Comments
Rank 1A – Plants Presumed	Thought to be extinct in California based on a lack of observation or
Extirpated in California and	detection for many years.
Either Rare or Extinct	
Elsewhere	
Rank 1B – Plants Rare,	Species, which are generally rare throughout their range that are also
Threatened, or Endangered in	judged to be vulnerable to other threats such as declining habitat.
California and Elsewhere	
Rank 2A – Plants presumed	Species that are presumed extinct in California but more common
Extirpated in California, But	outside of California
Common Elsewhere	
Rank 2B – Plants Rare,	Species that are rare in California but more common outside of
Threatened or Endangered in	California
California, But More Common	
Elsewhere	
Rank 3 – Plants About Which	Species that are thought to be rare or in decline but CNPS lacks the
More Information Is Needed	information needed to assign to the appropriate list. In most
(A Review List)	instances, the extent of surveys for these species is not sufficient to
	allow CNPS to accurately assess whether these species should be
	assigned to a specific rank. In addition, many of the Rank 3 species
	have associated taxonomic problems such that the validity of their
	current taxonomy is unclear.
Rank 4 – Plants of Limited	Species that are currently thought to be limited in distribution or
Distribution (A Watch List)	range whose vulnerability or susceptibility to threat is currently low.
	In some cases, as noted above for Rank 3 species, CNPS lacks survey
	data to accurately determine status in California. Many species have
	been placed on Rank 4 in previous editions of the "Inventory" and
	have been removed as survey data has indicated that the species are
	more common than previously thought. CNPS recommends that
	species currently included on this list should be monitored to ensure
	that future substantial declines are minimized.
Extension	Comments
.1 – Seriously endangered in	Species with over 80% of occurrences threatened and/or have a high
California	degree and immediacy of threat.
.2 – Fairly endangered in	Species with 20-80% of occurrences threatened.
California	

CNPS Rank	Comments
.3 – Not very endangered in	Species with <20% of occurrences threatened or with no current
California	threats known.

3.3 <u>Jurisdictional Waters</u>

3.3.1 Army Corps of Engineers

Pursuant to Section 404 of the Clean Water Act, the Corps regulates the discharge of dredged and/or fill material into waters of the United States. The term "waters of the United States" is defined in Corps regulations at 33 CFR Part 328.3(a) as:

- (1) All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- (2) All interstate waters including interstate wetlands;
- (3) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect foreign commerce including any such waters:
 - (i) Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
 - (ii) From which fish or shell fish are or could be taken and sold in interstate or foreign commerce; or
 - (iii) Which are used or could be used for industrial purpose by industries in interstate commerce...
- (4) All impoundments of waters otherwise defined as waters of the United States under the definition;
- (5) Tributaries of waters identified in paragraphs (a) (1)-(4) of this section;
- (6) The territorial seas;
- (7) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) (1)-(6) of this section.
- (8) Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with the EPA.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 123.11(m) which also meet the criteria of this definition) are not waters of the United States.

In the absence of wetlands, the limits of Corps jurisdiction in non-tidal waters, such as intermittent streams, extend to the OHWM which is defined at 33 CFR 328.3(e) as:

...that line on the shore established by the fluctuation of water and indicated by physical characteristics such as clear, natural line impressed on the bank,

shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

Wetland Definition Pursuant to Section 404 of the Clean Water Act

The term "wetlands" (a subset of "waters of the United States") is defined at 33 CFR 328.3(b) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support...a prevalence of vegetation typically adapted for life in saturated soil conditions." In 1987, the Corps published the Wetland Manual to guide its field personnel in determining jurisdictional wetland boundaries. The methodology set forth in the Wetland Manual and the Arid West Supplement generally require that, in order to be considered a wetland, the vegetation, soils, and hydrology of an area exhibit at least minimal hydric characteristics. While the Wetland Manual and Arid West Supplement provide great detail in methodology and allow for varying special conditions, a wetland should normally meet each of the following three criteria:

- More than 50 percent of the dominant plant species at the site must be typical of wetlands (i.e., rated as facultative or wetter in the Arid West 2016 Regional Wetland Plant List¹,²);
- Soils must exhibit physical and/or chemical characteristics indicative of permanent or periodic saturation (e.g., a gleyed color, or mottles with a matrix of low chroma indicating a relatively consistent fluctuation between aerobic and anaerobic conditions); and
- Whereas the Wetland Manual requires that hydrologic characteristics indicate that the ground is saturated to within 12 inches of the surface for at least five percent of the growing season during a normal rainfall year, the Arid West Supplement does not include a quantitative criteria with the exception for areas with "problematic hydrophytic vegetation", which require a minimum of 14 days of ponding to be considered a wetland.

Solid Waste Agency of Northern Cook County v. United States Army Corps of Engineers, et al.

Pursuant to Article I, Section 8 of the U.S. Constitution, federal regulatory authority extends only to activities that affect interstate commerce. In the early 1980s the Corps interpreted the interstate commerce requirement in a manner that restricted Corps jurisdiction on isolated (intrastate) waters. On September 12, 1985, the U.S. Environmental Protection Agency (EPA) asserted that Corps jurisdiction extended to isolated waters that are used or could be used by migratory birds or endangered species, and the definition of "waters of the United States" in Corps regulations was modified as quoted above from 33 CFR 328.3(a).

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¹ Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. Arid West 2016 Regional Wetland Plant List. Phytoneuron 2016-30: 1-17. Published 28 April 2016.

² Note the Corps also publishes a National List of Plant Species that Occur in Wetlands (Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. Phytoneuron 2016-30: 1-17. Published 28 April 2016.); however, the Regional Wetland Plant List should be used for wetland delineations within the Arid West Region.

On January 9, 2001, the Supreme Court of the United States issued a ruling on *Solid Waste Agency of Northern Cook County v. United States Army Corps of Engineers, et al.* (SWANCC). In this case the Court was asked whether use of an isolated, intrastate pond by migratory birds is a sufficient interstate commerce connection to bring the pond into federal jurisdiction of Section 404 of the Clean Water Act.

The written opinion notes that the court's previous support of the Corps' expansion of jurisdiction beyond navigable waters (*United States v. Riverside Bayview Homes, Inc.*) was for a wetland that <u>abutted</u> a navigable water and that the court did not express any opinion on the question of the authority of the Corps to regulate wetlands that are not adjacent to bodies of open water. The current opinion goes on to state:

In order to rule for the respondents here, we would have to hold that the jurisdiction of the Corps extends to ponds that are not adjacent to open water. We conclude that the text of the statute will not allow this.

Therefore, we believe that the court's opinion goes beyond the migratory bird issue and says that no isolated, intrastate water is subject to the provisions of Section 404(a) of the Clean Water Act (regardless of any interstate commerce connection). However, the Corps and EPA have issued a joint memorandum which states that they are interpreting the ruling to address only the migratory bird issue and leaving the other interstate commerce clause nexuses intact.

Rapanos v. United States and Carabell v. United States

On June 5, 2007, the EPA and Corps issued joint guidance that addresses the scope of jurisdiction pursuant to the Clean Water Act in light of the Supreme Court's decision in the consolidated cases *Rapanos v. United States* and *Carabell v. United States* ("Rapanos"). The chart below was provided in the joint EPA/Corps guidance.

For sites that include waters other than Traditional Navigable Waters (TNWs) and/or their adjacent wetlands or Relatively Permanent Waters (RPMs) tributary to TNWs and/or their adjacent wetlands, as set forth in the chart below, the Corps must apply the "significant nexus" standard.

For "isolated" waters or wetlands, the joint guidance also requires an evaluation by the Corps and EPA to determine whether other interstate commerce clause nexuses, not addressed in the SWANCC decision are associated with isolated features on project sites for which a jurisdictional determination is being sought from the Corps.

The Corps and EPA will assert jurisdiction over the following waters:

- Traditional navigable waters.
- Wetlands adjacent to traditional navigable waters.
- Non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months).

• Wetlands that directly abut such tributaries.

The Corps and EPA will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a significant nexus with a TNW:

- Non-navigable tributaries that are not relatively permanent.
- Wetlands adjacent to non-navigable tributaries that are not relatively permanent.
- Wetlands adjacent to but that do not directly abut a relatively permanent non-navigable tributary.

The agencies generally will not assert jurisdiction over the following features:

- Swales or erosional features (e.g., gullies, small washes characterized by low volume, infrequent or short duration flow).
- Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

The agencies will apply the significant nexus standard as follows:

- A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters.
- Significant nexus includes consideration of hydrologic and ecologic factors.

3.3.2 Regional Water Quality Control Board

The State Water Resource Control Board and each of its nine Regional Boards regulate the discharge of waste (dredged or fill material) into waters of the United States³ and waters of the State. Waters of the United States are defined above and waters of the state are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state" (California Water Code 13050[e]).

Section 401 of the CWA requires certification for any federal permit or license authorizing impacts to waters of the United States (i.e., waters that are within federal jurisdiction), such as Section 404 of the CWA and Section 10 of the Safe Rivers and Harbors Act, to ensure that the impacts do not violate state water quality standards. When a project could impact waters outside

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³ Therefore, wetlands that meet the current definition, or any historic definition, of waters of the U.S. are waters of the state. In 2000, the State Water Resources Control Board determined that all waters of the U.S. are also waters of the state by regulation, prior to any regulatory or judicial limitations on the federal definition of waters of the U.S. (California Code or Regulations title 23, section 3831(w)). This regulation has remained in effect despite subsequent changes to the federal definition. Therefore, waters of the state includes features that have been determined by the U.S. Environmental Protection Agency (U.S. EPA) or the U.S. Army Corps of Engineers (Corps) to be "waters of the U.S." in an approved jurisdictional determination; "waters of the U.S." identified in an aquatic resource report verified by the Corps upon which a permitting decision was based; and features that are consistent with any current or historic final judicial interpretation of "waters of the U.S." or any current or historic federal regulation defining "waters of the U.S." under the federal Clean Water Act.

of federal jurisdiction, the Regional Board has the authority under the Porter-Cologne Water Quality Control Act to issue Waste Discharge Requirements (WDRs) to ensure that impacts do not violate state water quality standards. CWA Section 401 Water Quality Certifications, WDRs, and waivers of WDRs are also referred to as orders or permits.

State Wetland Definition

The State Board Wetland Definition and Procedures define an area as wetland as follows: An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

The following wetlands are waters of the state:

- 1. Natural wetlands;
- 2. Wetlands created by modification of a surface water of the state;⁴ and
- 3. Artificial wetlands⁵ that meet any of the following criteria:
 - a. Approved by an agency as compensatory mitigation for impacts to other waters of the state, except where the approving agency explicitly identifies the mitigation as being of limited duration;
 - b. Specifically identified in a water quality control plan as a wetland or other water of the state;
 - c. Resulted from historic human activity, is not subject to ongoing operation and maintenance, and has become a relatively permanent part of the natural landscape; or
 - d. Greater than or equal to one acre in size, unless the artificial wetland was constructed, and is currently used and maintained, primarily for one or more of the following purposes (i.e., the following artificial wetlands are not waters of the state unless they also satisfy the criteria set forth in 2, 3a, or 3b):
 - i. Industrial or municipal wastewater treatment or disposal,
 - ii. Settling of sediment,
 - iii. Detention, retention, infiltration, or treatment of stormwater runoff and other pollutants or runoff subject to regulation under a municipal, construction, or industrial stormwater permitting program,
 - iv. Treatment of surface waters,
 - v. Agricultural crop irrigation or stock watering,
 - vi. Fire suppression,

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⁴ "Created by modification of a surface water of the state" means that the wetland that is being evaluated was created by modifying an area that was a surface water of the state at the time of such modification. It does not include a wetland that is created in a location where a water of the state had existed historically, but had already been completely eliminated at some time prior to the creation of the wetland. The wetland being evaluated does not become a water of the state due solely to a diversion of water from a different water of the state.

⁵ Artificial wetlands are wetlands that result from human activity.

viii. Active surface mining – even if the site is managed for interim wetlands functions and values, ix. Log storage, x. Treatment, storage, or distribution of recycled water, or xi. Maximizing groundwater recharge (this does not include wetlands that have incidental groundwater recharge benefits); or xii. Fields flooded for rice growing.⁶

All artificial wetlands that are less than an acre in size and do not satisfy the criteria set forth in 2, 3.a, 3.b, or 3.c are not waters of the state. If an aquatic feature meets the wetland definition, the burden is on the applicant to demonstrate that the wetland is not a water of the state.

vii. Industrial processing or cooling,

3.3.3 California Department of Fish and Wildlife

Pursuant to Division 2, Chapter 6, Sections 1600-1603 of the California Fish and Game Code, the CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife.

CDFW defines a stream (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation." CDFW's definition of "lake" includes "natural lakes or manmade reservoirs." CDFW also defines a stream as "a body of water that flows, or has flowed, over a given course during the historic hydrologic regime, and where the width of its course can reasonably be identified by physical or biological indicators."

It is important to note that the Fish and Game Code defines fish and wildlife to include: all wild animals, birds, plants, fish, amphibians, invertebrates, reptiles, and related ecological communities including the habitat upon which they depend for continued viability (FGC Division 5, Chapter 1, section 45 and Division 2, Chapter 1 section 711.2(a) respectively). Furthermore, Division 2, Chapter 5, Article 6, Section 1600 et seq. of the California Fish and Game Code does not limit jurisdiction to areas defined by specific flow events, seasonal changes in water flow, or presence/absence of vegetation types or communities.

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⁶ Fields used for the cultivation of rice (including wild rice) that have not been abandoned due to five consecutive years of non-use for the cultivation of rice (including wild rice) that are determined to be a water of the state in accordance with these Procedures shall not have beneficial use designations applied to them through the Water Quality Control Plan for the Sacramento and San Joaquin River Basins, except as otherwise required by federal law for fields that are considered to be waters of the United States. Further, agricultural inputs legally applied to fields used for the cultivation of rice (including wild rice) shall not constitute a discharge of waste to a water of the state. Agricultural inputs that migrate to a surface water or groundwater may be considered a discharge of waste and are subject to waste discharge requirements or waivers of such requirements pursuant to the Water Board's authority to issue or waive waste discharge requirements or take other actions as applicable.

3.4 Local Policies or Ordinances

County of Riverside General Plan Mead Valley Area Plan

The Mead Valley Area Plan includes several policies relating to biological resources including:

Policy MVAP 15.1: Protect the Santa Ana River watershed, its tributaries, and surrounding habitats, and provide flood protection through adherence to the Watershed Management Section of Multipurpose Open Space Element.

Policy MVAP 16.1: Protect viable oak woodlands through adherence to the Oak Tree Management Guidelines adopted by Riverside County.

Policy MVAP 17.1: Conserve existing intact upland habitat blocks between the Steele Peak Reserve and a portion of the Lake Mathews/Estelle Mountain Reserve located in the Lake Mathews/Woodcrest Area Plan to the west, and between Motte-Rimrock Reserve and Bureau of Land Management (BLM) lands north/northeast of the Steele Peak Reserve, focusing on conservation of coastal sage scrub and annual grassland habitat.

Policy MVAP 17.2: Conserve clay soils in southern needlegrass grasslands and sandy-granitic soils within chaparral and coastal sage scrub habitats capable of supporting Payson's jewelflower and long-spined spineflower, known to exist within the planning area.

Policy MVAP 17.3: Conserve existing populations of the California gnatcatcher and Bell's sage sparrow in the Mead Valley planning area, including locations at Steele Peak Reserve and undeveloped lands to the north of this reserve and along its eastern fringes.

Policy MVAP 17.4: Provide for a connection of intact habitat between the North Peak Conservation Bank (located within the Elsinore planning area), the Steele Peak Reserve, and the Lake Mathews/Estelle Mountain Reserve (located within the Lake Mathews/Woodcrest Area Plan).

Policy MVAP 17.5: Conserve vernal pool complexes supporting thread-leaved brodiaea known to exist within Mead Valley.

4.0 RESULTS

This section provides the results of general biological surveys, vegetation mapping, habitat assessments and/or focused surveys for special-status plants and animals, an assessment for MSHCP riparian/riverine areas and vernal pools, and an assessment for jurisdictional waters and wetlands.

4.1 **Existing Conditions**

The Project site consists of an active trucking yard, much of which is comprised of previously graded and highly compacted soils. The Project site is relatively flat and occurs at an elevation ranging from approximately 1,511 feet to 1,524 feet above mean sea level.

The National Cooperative Soil Survey has mapped the following soil types as occurring in association with the Project site: Hanford Coarse Sandy Loam, 2 to 8 Percent Slopes; Hanford Fine Sandy Loam, 0 to 2 Percent Slopes; Monserate Sandy Loam, 5 to 8 Percent Slopes, Eroded; Monserate Sandy Loam, 8 to 15 Percent Slopes, Eroded; and Ramona Sandy Loam, 2 to 5 Percent Slopes, Eroded. A soil map is attached as Exhibit 6.

4.2 <u>Vegetation/Land Use Mapping</u>

The Project site contains the following vegetation/land use types: Developed and Ruderal. Table 4-1 provides a summary of the vegetation types and their corresponding acreages. A Vegetation/Land Use Map is attached as Exhibit 4. Photographs depicting the Project site are shown in Exhibit 7.

Table 4-1. Summary of Vegetation/Land Use Types for the Project Site

Vegetation/Land Use Type	Project Site (Acres)
Developed	4.84
Ruderal	0.22
Total	5.06

4.2.1 Developed

The Project site contains approximately 4.84 acres of developed lands consisting of a primarily unvegetated trucking yard, much of which is comprised of previously graded and highly compacted soils.

4.2.2 Ruderal

The Project site contains approximately 0.22 acre of ruderal areas consisting of a soil/debris pile vegetated with mostly weedy disturbance-tolerant herbaceous species. Dominant non-native species include stinknet (*Oncosiphon piluliferum*), tree tobacco (*Nicotiana glauca*), and several species of non-native grasses.

4.3 Special-Status Vegetation Communities

The CNDDB identifies the following seven special-status vegetation communities for the Steele Peak and surrounding quadrangle maps: Canyon Live Oak Ravine Forest, Southern California Arroyo Chub/Santa Ana Sucker Stream, Southern Coast Live Oak Riparian Forest, Southern Cottonwood Willow Riparian Forest, Southern Riparian Forest, Southern Sycamore Alder Riparian Woodland, and Southern Willow Scrub. The Project site does not contain any special-status habitats, including those identified in the CNDDB.

4.4 Special-Status Plants

No special-status plants were detected at the Project site and none are expected to occur due to the disturbed nature of the Project site and the lack of suitable habitat. Table 4-2 provides a list of special-status plants evaluated for the Project site through general biological surveys, habitat assessments, and focused surveys. Species were evaluated based on the following factors: 1) species identified by the CNDDB and CNPS as occurring (either currently or historically) on or in the vicinity of the Project site, and 2) any other special-status plants that are known to occur within the vicinity of the Project site, or for which potentially suitable habitat occurs within the site.

Table 4-2. Special-Status Plants Evaluated for the Project Site

Species Name	Status	Habitat Requirements	Occurrence
Brand's star phacelia Phacelia stellaris	Federal: None State: None CRPR: Rank 1B.1 MSHCP(b)	Coastal dunes and coastal sage scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Buxbaum's sedge Carex buxbaumii	Federal: None State: None CRPR: Rank 4.2	Bogs and fens, Meadows and seeps (mesic) and marshes and swamps.	Does not occur on the Project site due to a lack of suitable habitat.
California Orcutt grass Orcuttia californica	Federal: FE State: SE CRPR: Rank 1B.1 MSHCP(b)	Vernal pools.	Does not occur on the Project site due to a lack of suitable habitat.
California screw moss Tortula californica	Federal: None State: None CRPR: Rank 1B.2	Sandy soil in chenopod scrub, and valley and foothill grassland.	Does not occur on the Project site due to a lack of suitable habitat.
Chaparral ragwort Senecio aphanactis	Federal: None State: None CRPR: Rank 2B.2	Chaparral, cismontane woodland, coastal scrub. Sometimes associated with alkaline soils.	Does not occur on the Project site due to a lack of suitable habitat.
Chaparral sand-verbena Abronia villosa var. aurita	Federal: None State: None CRPR: Rank 1B.1	Sandy soils in chaparral, coastal sage scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Cleveland's bush monkeyflower Diplacus (Mimulus) clevelandii	Federal: None State: None CRPR: Rank 4.2 MSHCP(f)	Gabbroic soils, often in disturbed areas, openings, rocky. Chaparral, cismontane woodland, lower montane coniferous forest.	Does not occur on the Project site due to a lack of suitable habitat.
Coulter's goldfields Lasthenia glabrata ssp. coulteri	Federal: None State: None CRPR: Rank 1B.1 MSHCP(d)	Playas, vernal pools, marshes and swamps (coastal salt).	Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Coulter's matilija poppy Romneya coulteri	Federal: None State: None CRPR: Rank 4.2 MSHCP	Often in burns in chaparral and coastal scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Davidson's saltscale Atriplex serenana var. davidsonii	Federal: None State: None CRPR: Rank 1B.2 MSHCP(d)	Alkaline soils in coastal sage scrub, coastal bluff scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Engelmann oak Quercus engelmannii	Federal: None State: None CRPR: Rank 4.2 MSHCP	Chaparral, cismontane woodland, riparian woodland, valley and foothill grassland.	Does not occur on the Project site due to a lack of suitable habitat.
Fish's milkwort Polygala cornuta var. fishiae	Federal: None State: None CRPR: Rank 4.3 MSHCP	Chaparral, cismontane woodland, riparian woodland.	Does not occur on the Project site due to a lack of suitable habitat.
Hall's monardella Monardella macrantha ssp. hallii	Federal: None State: None CRPR: Rank 1B.3 MSHCP	1 0	Does not occur on the Project site due to a lack of suitable habitat.
Heart-leaved pitcher sage Lepechinia cardiophylla	Federal: None State: None CRPR: Rank 1B.2 MSHCP(d)	Closed-cone coniferous forest, chaparral, and cismontane woodland.	Does not occur on the Project site due to a lack of suitable habitat.
Intermediate mariposa-lily Calochortus weedii var. intermedius	Federal: None State: None CRPR: Rank 1B.2 MSHCP	Rocky soils in chaparral, coastal sage scrub, valley and foothill grassland.	Does not occur on the Project site due to a lack of suitable habitat.
Intermediate monardella Monardella hypoleuca ssp.intermedia	Federal: None State: None CRPR: Rank 1B.3	•	Does not occur on the Project site due to a lack of suitable habitat.
Little mousetail Myosurus minimus ssp. apus	Federal: None State: None CRPR: Rank 3.1 MSHCP(d)	Valley and foothill grassland, vernal pools (alkaline soils).	Does not occur on the Project site due to a lack of suitable habitat.
Long-spined spineflower Chorizanthe polygonoides var. longispina		Clay soils in chaparral, coastal sage scrub, meadows and seeps, and valley and foothill grasslands.	Does not occur on the Project site due to a lack of suitable habitat.
Many-stemmed dudleya Dudleya multicaulis	Federal: None State: None CRPR: Rank 1B.2		Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Marsh sandwort Arenaria paludicola	Federal: FE State: SE CRPR: Rank 1B.1	,	Does not occur on the Project site due to a lack of suitable habitat.
Mesa horkelia Horkelia cuneata var. puberula	Federal: None State: None CRPR: Rank 1B.1	chaparral (maritime),	Does not occur on the Project site due to a lack of suitable habitat.
Munz's onion Allium munzii	Federal: FE State: ST CRPR: Rank 1B.1 MSHCP(b)	sage scrub, and valley and	Does not occur on the Project site due to a lack of suitable habitat.
Nevin's barberry Berberis nevinii	Federal: FE State: SE CRPR: Rank 1B.1 MSHCP(d)		Does not occur on the Project site due to a lack of suitable habitat.
Ocellated humboldt lily Lilium humboldtii ssp. ocellatum	Federal: None State: None CRPR: Rank 4.2 MSHCP(f)	woodland, coastal sage scrub, lower montane coniferous	Does not occur on the Project site due to a lack of suitable habitat.
Palmer's grapplinghook Harpagonella palmeri	Federal: None State: None CRPR: Rank 4.2 MSHCP	Occurring in clay soils.	Does not occur on the Project site due to a lack of suitable habitat.
Paniculate tarplant Deinandra paniculata	Federal: None State: None CRPR: Rank 4.2	sometimes sandy soils in coastal scrub, valley and foothill grassland, and vernal	Confirmed present within the Project site. Refer below for additional information.
Parish's brittlescale Atriplex parishii	Federal: None State: None CRPR: Rank 1B.1 MSHCP(d)	pools.	Does not occur on the Project site due to a lack of suitable habitat.
Parry's spineflower Chorizanthe parryi var. parryi	Federal: None State: None CRPR: Rank 1B.1	Sandy or rocky soils in open habitats of chaparral and coastal sage scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Payson's jewelflower Caulanthus simulans	Federal: None State: None CRPR: Rank 4.2	chaparral and coastal scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Peninsular spineflower Chorizanthe leptotheca	Federal: None State: None CRPR: Rank 4.2 MSHCP	Chaparral, coastal scrub, lower	Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Plummer's mariposa lily Calochortus plummerae	Federal: None State: None CRPR: Rank 4.2 MSHCP	woodland, coastal sage scrub, lower montane coniferous forest, valley and foothill grassland.	Does not occur on the Project site due to a lack of suitable habitat.
Robinson's pepper grass Lepidium virginicum var. robinsonii	Federal: None State: None CRPR: Rank 4.3	coastal sage scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Salt marsh bird's-beak Chloropyron maritimum ssp. maritimum	Federal: FE State: SE CRPR: Rank 1B.2	_	Does not occur on the Project site due to a lack of suitable habitat.
San Bernardino aster Symphyotrichum defoliatum	Federal: None State: None CRPR: Rank 1B.2	,	Does not occur on the Project site due to a lack of suitable habitat.
San Diego ambrosia Ambrosia pumila	Federal: FE State: None CRPR: Rank 1B.1 MSHCP(b)	Chaparral, coastal sage scrub, valley and foothill grassland, vernal pools. Often in disturbed habitats.	Does not occur on the Project site due to a lack of suitable habitat.
San Diego sagewort Artemisia palmeri	Federal: None State: None CRPR: Rank 4.2	riparian forest, riparian scrub,	Does not occur on the Project site due to a lack of suitable habitat.
San Jacinto Valley crownscale Atriplex coronata var. notatior		Alkaline soils in chenopod scrub, valley and foothill	Does not occur on the Project site due to a lack of suitable habitat.
San Miguel savory Clinopodium chandleri	Federal: None State: None CRPR: Rank 1B.2 MSHCP(b)	metavolcanic soils in chaparral,	Does not occur on the Project site due to a lack of suitable habitat.
Santa Ana River woolly star Eriastrum densifolium ssp. sanctorum	Federal: FE State: SE CRPR: Rank 1B.1	chaparral. Occurring on sandy or rocky soils.	Does not occur on the Project site due to a lack of suitable habitat.
Santiago Peak phacelia Phacelia keckii	Federal: None State: None CRPR: Rank 1B.3 MSHCP	Closed-cone coniferous forest, chaparral.	Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Slender-horned spineflower Dodecahema leptoceras	Federal: FE State: SE CRPR: Rank 1B.1 MSHCP(b)	Sandy soils in alluvial scrub, chaparral, cismontane woodland.	Does not occur on the Project site due to a lack of suitable habitat.
Small-flowered microseris Microseris douglasii ssp. platycarpha	Federal: None State: None CRPR: Rank 4.2 MSHCP	Cismontane woodland, coastal sage scrub, valley and foothill grassland, vernal pools. Occurring on clay soils.	Does not occur on the Project site due to a lack of suitable habitat.
Small-flowered morning-glory Convolvulus simulans	Federal: None State: None CRPR: Rank 4.2 MSHCP	Chaparral (openings), coastal sage scrub, valley and foothill grassland. Occurring on clay soils and serpentinite seeps.	Does not occur on the Project site due to a lack of suitable habitat.
Smooth tarplant Centromadia pungens ssp. laevis	Federal: None State: None CRPR: Rank 1B.1 MSHCP(d)	Alkaline soils in chenopod scrub, meadows and seeps, playas, riparian woodland, valley and foothill grasslands, disturbed habitats.	Does not occur on the Project site due to a lack of suitable habitat.
Southern California black walnut Juglans californica	Federal: None State: None CRPR: Rank 4.2 MSHCP	Chaparral, cismontane woodland, coastal sage scrub, alluvial surfaces.	Does not occur on the Project site due to a lack of suitable habitat.
Spreading navarretia Navarretia fossalis	Federal: FT State: None CRPR: Rank 1B.1 MSHCP(b)	Vernal pools, playas, chenopod scrub, marshes and swamps (assorted shallow freshwater).	Does not occur on the Project site due to a lack of suitable habitat.
Sticky dudleya Dudleya viscida	Federal: None State: None CRPR: Rank 1B.2 MSHCP(f)	Coastal bluff scrub, chaparral, coastal sage scrub. Occurring on rocky soils.	Does not occur on the Project site due to a lack of suitable habitat.
Tecate cypress Hesperocyparis forbesii	Federal: None State: None CRPR: Rank 1B.1		Does not occur on the Project site due to a lack of suitable habitat.
Thread-leaved brodiaea Brodiaea filifolia	Federal: FT State: SE CRPR: Rank 1B.1	Clay soils in chaparral (openings), cismontane woodland, coastal sage scrub, playas, valley and foothill grassland, vernal pools.	Does not occur on the Project site due to a lack of suitable habitat.
Vernal barley Hordeum intercedens	Federal: None State: None CRPR: Rank 3.2 MSHCP	Coastal dunes, coastal sage	Does not occur on the Project site due to a lack of suitable habitat.
Western spleenwort Asplenium vespertinum	Federal: None State: None CRPR: Rank 4.2	Rocky soils in chaparral, cismontane woodland, and	Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
White rabbit-tobacco Pseudognaphalium leucocephalum	Federal: None State: None CRPR: Rank 2B.2	Sandy or gravelly soils in chaparral, cismontane woodland, coastal scrub, and riparian woodland.	Does not occur on the Project site due to a lack of suitable habitat.
White-bracted spineflower Chorizanthe xanti var. leucotheca	Federal: None State: None CRPR: Rank 1B.2	Sandy or gravelly soils in Mojavean desert scrub and pinyon and juniper woodland.	Does not occur on the Project site due to a lack of suitable habitat.
Woven-spored lichen Texosporium sancti-jacobi	Federal: None State: None CRPR: Rank 3	On soil, small mammal pellets, dead twigs, and on <i>Selaginella</i> spp. Chaparral (openings).	Does not occur on the Project site due to a lack of suitable habitat.
Wright's trichocoronis Trichocoronis wrightii var. wrightii	Federal: None State: None CRPR: Rank 2B.1 MSHCP(b)	Alkaline soils in meadows and seeps, marshes and swamps, riparian scrub, vernal pools.	Does not occur on the Project site due to a lack of suitable habitat.
Yucaipa onion Allium marvinii	Federal: None State: None CRPR: Rank 1B.2	Chaparral (clay, openings).	Does not occur on the Project site due to a lack of suitable habitat.

STATUS

Federal State

 $\begin{array}{ll} FE-Federally\ Endangered & SE-State\ Endangered \\ FT-Federally\ Threatened & ST-State\ Threatened \end{array}$

FC - Federal Candidate

CRPR

Rank 1A – Plants presumed extirpated in California and either rare or extinct elsewhere.

Rank 1B – Plants rare, threatened, or endangered in California and elsewhere.

Rank 2A – Plants presumed extirpated in California, but common elsewhere.

Rank 2B – Plants rare, threatened, or endangered in California, but more common elsewhere.

Rank 3 – Plants about which more information is needed (a review list).

Rank 4 – Plants of limited distribution (a watch list).

Threat Code extension

- .1 Seriously endangered in California (over 80% occurrences threatened)
- .2 Fairly endangered in California (20-80% occurrences threatened)
- .3 Not very endangered in California (<20% of occurrences threatened or no current threats known)

MSHCP

MSHCP = No additional action necessary

MSHCP(a) = Surveys may be required as part of wetlands mapping

MSHCP(b) = Surveys may be required within the Narrow Endemic Plant Species survey area

MSHCP(c) = Surveys may be required within locations shown on survey maps

MSHCP(d) = Surveys may be required within Criteria Area

MSHCP(e) = Conservation requirements identified in species-specific conservation objectives need to be met before classified as a Covered Species

MSHCP(f) = Covered species when a Memorandum of Understanding is executed with the Forest Service Land

OCCURRENCE

- Does not occur The site does not contain habitat for the species and/or the site does not occur within the geographic range of the species.
- Confirmed absent The site contains suitable habitat for the species, but the species has been confirmed absent through focused surveys.
- Not expected to occur The species is not expected to occur onsite due to low habitat quality, however absence cannot be ruled out.
- Potential to occur The species has a potential to occur based on suitable habitat, however its presence/absence
 has not been confirmed.
- Confirmed present The species was detected onsite incidentally or through focused surveys.

4.5 **Special-Status Animals**

No special-status animals were detected at the Project site and none are expected due to the disturbed nature of the Project site and the lack of suitable habitat. Table 4-3 provides a list of special-status animals evaluated for the Project site through general biological surveys, habitat assessments, and focused surveys. Species were evaluated based on the following factors, including: 1) species identified by the CNDDB as occurring (either currently or historically) on or in the vicinity of the Project site, 2) applicable MSHCP survey areas, and 3) any other special-status animals that are known to occur within the vicinity of the Project site or for which potentially suitable habitat occurs on the site.

Table 4-3. Special-Status Animals Evaluated for the Project Site

Species Name	Status	Habitat Requirements	Occurrence
Invertebrates	•		
Crotch bumble bee	Federal: None	Relatively warm and dry sites,	Does not occur on
Bombus crotchii	State: SCE	including the inner Coast Range of	the Project site due
		California and margins of the	to a lack of
		Mojave Desert.	suitable habitat.
Vernal pool fairy shrimp	Federal: FT	Seasonal vernal pools	Does not occur on
Branchinecta lynchi	State: None		the Project site due
	MSHCP(a)		to a lack of
			suitable habitat.
San Diego fairy shrimp	Federal: FE	Seasonal vernal pools	Does not occur on
Branchinecta	State: None		the Project site due
sandiegonensis			to a lack of
			suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Quino checkerspot butterfly Euphydryas editha quino	Federal: FE State: None MSHCP	Larval and adult phases each have distinct habitat requirements tied to host plant species and topography. Larval host plants include <i>Plantago erecta</i> and <i>Castilleja exserta</i> . Adults occur on sparsely vegetated rounded hilltops and ridgelines, and are known to disperse through disturbed habitats to reach suitable nectar plants.	Does not occur on the Project site due to a lack of suitable habitat.
Riverside fairy shrimp Streptocephalus woottoni	Federal: FE State: None MSHCP(a)		Does not occur on the Project site due to a lack of suitable habitat.
Fish	1		
Arroyo chub Gila orcutti	Federal: None State: SSC MSHCP	Slow-moving or backwater sections of warm to cool streams with substrates of sand or mud.	Does not occur on the Project site due to a lack of suitable habitat.
Santa Ana speckled dace Rhinichthys osculus ssp. 3	Federal: None State: SSC	Occurs in the headwaters of the Santa Ana and San Gabriel Rivers. May be extirpated from the Los Angeles River system. Requires permanent flowing streams with summer water temperatures of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	Does not occur on the Project site due to a lack of suitable habitat.
Santa Ana sucker Catostomus santaanae	Federal: FT State: None MSHCP	Small, shallow streams, less than 7 meters in width, with currents ranging from swift in the canyons to sluggish in the bottom lands. Preferred substrates are generally coarse and consist of gravel, rubble, and boulders with growths of filamentous algae, but occasionally they are found on sand/mud substrates.	Does not occur on the Project site due to a lack of suitable habitat.
Southern steelhead - southern California DPS Oncorhynchus mykiss irideus	Federal: FE State: None		Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Amphibians			
Western spadefoot Spea hammondii	Federal: None State: SSC MSHCP	Seasonal pools in coastal sage scrub, chaparral, and grassland habitats.	Does not occur on the Project site due to a lack of suitable habitat.
Reptiles	T		1
California glossy snake Arizona elegans occidentalis	Federal: None State: SSC	Inhabits arid scrub, rocky washes, grasslands, chaparral.	Does not occur on the Project site due to a lack of suitable habitat.
Coast horned lizard Phrynosoma blainvillii	Federal: None State: SSC MSHCP	Occurs in a variety of vegetation types including coastal sage scrub, chaparral, annual grassland, oak woodland, and riparian woodlands.	to a lack of
Coast patch-nosed snake Salvadora hexalepis virgultea	Federal: None State: SSC	Occurs in coastal chaparral, desert scrub, washes, sandy flats, and rocky areas.	Does not occur on the Project site due to a lack of suitable habitat.
Coastal whiptail Aspidoscelis tigris stejnegeri (multiscutatus)	Federal: None State: SSC MSHCP	Open, often rocky areas with little vegetation, or sunny microhabitats within shrub or grassland associations.	Does not occur on the Project site due to a lack of suitable habitat
Orangethroat whiptail Aspidoscelis hyperythra	Federal: None State: WL MSHCP	Coastal sage scrub, chaparral, non- native grassland, oak woodland, and juniper woodland.	Does not occur on the Project site due to a lack of suitable habitat
Red-diamond rattlesnake Crotalus ruber	Federal: None State: SSC MSHCP	Habitats with heavy brush and rock outcrops, including coastal sage scrub and chaparral.	Does not occur on the Project site due to a lack of suitable habitat.
Southern California legless lizard Anniella stebbinsi	Federal: None State: SSC	Broadleaved upland forest, chaparral, coastal dunes, coastal scrub; found in a broader range of habitats that any of the other species in the genus. Often locally abundant, specimens are found in coastal sand dunes and a variety of interior habitats, including sandy washes and alluvial fans	suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Western pond turtle Emys marmorata	Federal: None State: SSC MSHCP	intermittent streams, small ponds	Does not occur on the Project site due to a lack of suitable habitat.
Birds	•		
Bald eagle (nesting & wintering) Haliaeetus leucocephalus	Federal: BGEPA State: SE, CFP MSHCP	1	Does not occur on the Project site due to a lack of suitable habitat.
Bell's sage sparrow Artemisiospiza belli belli	Federal: BCC State: WL MSHCP	Chaparral and coastal sage scrub along the coastal lowlands, inland	Does not occur on the Project site due to a lack of suitable habitat.
Burrowing owl (burrow sites & some wintering sites) Athene cunicularia	Federal: None State: SSC MSHCP(c)	lowland scrub, agricultural lands (particularly rangelands), coastal	
California black rail Laterallus jamaicensis coturniculus	Federal: None State: ST, CFP	Nests in high portions of salt marshes, shallow freshwater marshes, wet meadows, and flooded grassy vegetation.	Does not occur on the Project site due to a lack of suitable habitat.
California horned lark Eremophila alpestris actia	Federal: None State: WL MSHCP	Occupies a variety of open habitats, usually where trees and	Does not occur on the Project site due to a lack of suitable habitat.
Coastal California gnatcatcher Polioptila californica californica	Federal: FT State: SSC MSHCP	and coastal bluff scrub.	Does not occur on the Project site due to a lack of suitable habitat.
Golden eagle (nesting & wintering) Aquila chrysaetos	Federal: BGEPA State: CFP MSHCP	grasslands, brushlands, deserts,	Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Least Bell's vireo (nesting) Vireo bellii pusillus	Federal: FE State: SE MSHCP(a)	stratified canopy, including southern willow scrub, mule fat	Does not occur on the Project site due to a lack of suitable habitat.
Loggerhead shrike (nesting) Lanius ludovicianus	Federal: None State: SSC MSHCP	Forages over open ground within areas of short vegetation, pastures	Does not occur on the Project site due to a lack of
Long-eared owl (nesting) Asio otus	Federal: None State: SSC	the long-eared owl, but it also uses live-oak thickets and other dense	Does not occur on the Project site due to a lack of suitable habitat.
Southern California rufous- crowned sparrow Aimophila ruficeps canescens	Federal: None State: WL MSHCP	sage scrub, and chaparral.	Does not occur on the Project site due to a lack of suitable habitat.
Swainson's hawk (nesting) Buteo swainsoni	Federal: None State: ST MSHCP	the American West. Nest in grasslands, but can use sage flats	Does not occur on the Project site due to a lack of suitable habitat.
Tricolored blackbird (nesting colony) Agelaius tricolor	Federal: None State: SCE, SSC MSHCP	water, a suitable nesting substrate, and open-range foraging habitat of	
Western snowy plover (nesting) Charadrius alexandrinus nivosus	Federal: FT State: SSC	the coast, estuarine salt ponds, alkali lakes, and at the Salton Sea.	Does not occur on the Project site due to a lack of suitable habitat.
Western yellow-billed cuckoo (nesting) Coccyzus americanus occidentalis	Federal: FT State: SE MSHCP(a)	with well-developed understories.	Does not occur on the Project site due to a lack of suitable habitat.
White-tailed kite (nesting) Elanus leucurus	Federal: None State: CFP MSHCP	savannah-like habitats, agricultural areas, wetlands, and oak	Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
Yellow rail Coturnicops noveboracensis	Federal: None State: SSC		Does not occur on the Project site due to a lack of suitable habitat.
Yellow-breasted chat (nesting) Icteria virens	Federal: None State: SSC MSHCP	Dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush with well-developed understories.	Does not occur on the Project site due to a lack of suitable habitat.
Yellow warbler (nesting) Setophaga petechia	Federal: BCC State: SSC MSHCP	Breed in lowland and foothill riparian woodlands dominated by cottonwoods, alders, or willows and other small trees and shrubs typical of low, open-canopy riparian woodland. During migration, forages in woodland, forest, and shrub habitats.	Does not occur on the Project site due to a lack of suitable habitat.
Mammals			
American badger Taxidea taxus	Federal: None State: SSC	Most abundant in drier open stages of most scrub, forest, and herbaceous habitats, with friable soils.	Does not occur on the Project site due to a lack of suitable habitat.
Dulzura pocket mouse Chaetodipus califronicus femoralis	Federal: None State: SSC	Coastal scrub, grassland, and chaparral, especially at grass-chaparral edges	Does not occur on the Project site due to a lack of suitable habitat.
Los Angeles pocket mouse Perognathus longimembris brevinasus	Federal: None State: SSC MSHCP(c)	Fine, sandy soils in coastal sage scrub and grasslands.	Does not occur on the Project site due to a lack of suitable habitat.
Northwestern San Diego pocket mouse Chaetodipus fallax fallax	Federal: None State: SSC MSHCP	Coastal sage scrub, sage scrub/grassland ecotones, and chaparral.	Does not occur on the Project site due to a lack of suitable habitat.
Pocketed free-tailed bat Nyctinomops femorosaccus	Federal: None State: SSC WBWG: M	Rocky areas with high cliffs in pine-juniper woodlands, desert scrub, palm oasis, desert wash, and desert riparian.	Does not occur on the Project site due to a lack of suitable habitat.
San Bernardino kangaroo rat Dipodomys merriami parvus		•	Does not occur on the Project site due to a lack of suitable habitat.
San Diego black-tailed jackrabbit Lepus californicus bennettii	Federal: None State: None MSHCP	Occupies a variety of habitats, but is most common among shortgrass habitats. Also occurs in sage scrub, but needs open habitats.	Does not occur on the Project site due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Occurrence
San Diego desert woodrat Neotoma lepida intermedia	Federal: None State: SSC MSHCP	desert habitats, primarily associated with rock outcrops,	Does not occur on the Project site due to a lack of suitable habitat.
Southern grasshopper mouse Onychomys torridus ramona		habitats with friable soils for digging. Prefers low to moderate	Does not occur on the Project site due to a lack of suitable habitat.
Stephens' kangaroo rat Dipodomys stephensi	Federal: FE State: ST MSHCP	shrublands with less than 50% vegetation cover during the	Does not occur on the Project site due to a lack of suitable habitat.
Western mastiff bat Eumops perotis californicus	Federal: None State: SSC WBWG: H		
Western yellow bat Lasiurus xanthinus	Federal: None State: SSC WBWG: H	desert riparian, desert wash, and palm oasis habitats. Roosts in	Does not occur on the Project site due to a lack of suitable habitat.
Yuma myotis Myotis yumanensis	Federal: None State: None WBWG: LM	and woodlands with sources of water over which to feed.	Does not occur on the Project site due to a lack of suitable habitat.

STATUS

Federal State

FE – Federally Endangered
FT – Federally Threatened
FPT – Federally Proposed Threatened
SC – State Endangered
ST – State Threatened
SC – State Candidate

FC – Federal Candidate CFP – California Fully-Protected Species BGEPA– Bald and Golden Eagle Protection Act SSC – Species of Special Concern

MSHCP

MSHCP = No additional action necessary

MSHCP(a) = Surveys may be required as part of wetlands mapping

MSHCP(b) = Surveys may be required within the Narrow Endemic Plant Species survey area

MSHCP(c) = Surveys may be required within locations shown on survey maps

MSHCP(d) = Surveys may be required within Criteria Area

MSHCP(e) = Conservation requirements identified in species-specific conservation objectives need to be met before classified as a Covered Species

MSHCP(f) = Covered species when a Memorandum of Understanding is executed with the Forest Service Land

Western Bat Working Group (WBWG)

H – High Priority LM – Low-Medium Priority M – Medium Priority MH – Medium-High Priority

OCCURRENCE

- Does not occur The site does not contain habitat for the species and/or the site does not occur within the geographic range of the species.
- Confirmed absent The site contains suitable habitat for the species, but the species has been confirmed absent through focused surveys.
- Not expected to occur The species is not expected to occur onsite due to low habitat quality, however absence cannot be ruled out.
- Potential to occur The species has a potential to occur based on suitable habitat, however its presence/absence
 has not been confirmed.
- Confirmed present The species was detected onsite incidentally or through focused surveys

4.5.3 Special-Status Wildlife Species Confirmed Absent Through Focused Surveys at the Project Site

Burrowing Owl

The burrowing owl is State SSC species. This species is a covered species not adequately conserved under the MSHCP, which means that projects located within the burrowing owl survey area may have to evaluate avoidance measures if burrowing owls are present. The Project site is located within the MSHCP burrowing owl survey area. The Project site and lands bordering the Project site contain suitable habitat for the burrowing owl. As such, burrowing owl surveys were performed in accordance with the MSHCP Guidelines to show consistency with the MSHCP and to evaluate impacts under CEQA.

This species occurs in shortgrass prairies, grasslands, lowland scrub, agricultural lands (particularly rangelands), prairies, coastal dunes, desert floors, and some artificial, open areas as a year-long resident. They require large open expanses of sparsely vegetated areas on gently rolling or level terrain with an abundance of active small mammal burrows. As a habitat feature need, they require the use of rodent or other burrows for roosting and nesting cover.

GLA biologists did not observe burrowing owls, or evidence of burrowing owls (e.g., cast pellets, preened feathers, or whitewash clustered at a burrow) during the focused burrowing owl surveys conducted in 2022; therefore, the species was confirmed absent. In order to be consistent with the MSHCP burrowing owl survey guidelines (*Additional Survey Needs and Procedures, Section 6.3.2*), a pre-construction survey will occur within 30-days prior to ground disturbance within all areas of the Project site suitable for burrowing owl.

4.6 Raptor Use

The Project site is completely developed and disturbed and does not provide suitable foraging habitat for a number of raptor species, including special-status raptors as discussed above.

4.7 **Nesting Birds**

The Project site contains shrubs and ground cover that could provide suitable habitat for nesting migratory birds. Mortality of migratory birds (including eggs) is prohibited under California Fish and Game Code.⁷

Birds anticipated to nest on the Project site would be those that are common to disturbed areas and include species such as killdeer (*Charadrius vociferus*) and mourning dove (*Zenaida macroura*).

4.8 Wildlife Linkages/ Corridors and Nursery Sites

Habitat linkages are areas which provide a connection between two or more other habitat areas which are often larger or superior in quality to the linkage. Such linkage sites can be quite small or constricted but can be vital to the long-term health of connected habitats. Linkage values are often addressed in terms of "gene flow" between populations, with movement potentially taking many generations.

Corridors are similar to linkages but provide specific opportunities for individual animals to disperse or migrate between generally extensive but otherwise partially or wholly separated regions. Adequate cover and tolerably low levels of disturbance are common requirements for corridors. Habitat in corridors may be quite different from habitat(s) in the connected areas but if used by the wildlife species of interest, the corridor will still function as desired.

Wildlife nurseries are sites where wildlife concentrate for hatching and/or raising young, such as rookeries, spawning areas, and bat colonies. Nurseries can be important to both special-status species as well as commonly occurring species.

The Project site is not located within areas identified by the MSCHP as important for wildlife movement, including existing or proposed Linkages or Constrained Linkages. The Project site is highly disturbed and is surrounded by a chain linked fence that would prevent medium to large mammals would from moving through the Project site or using it for live in habitat, and therefore the Project site would not support migratory wildlife corridors and/or wildlife nursery sites.

4.8 Critical Habitat

The Project site does not occur within any lands mapped as Critical Habitat by the USFWS.

4.9 Jurisdictional Waters

The Project site does not contain jurisdictional waters that could be regulated by the Corps, Regional Board, or CDFW.

⁷ Sections 3505, 3503.5, and 3800 of the California Department of Fish and Game Code prohibit the take, possession, or destruction of birds, their nests or eggs.

4.10 MSHCP Riparian/Riverine Areas and Vernal Pools

The Project site does not contain any riparian/riverine areas or vernal pools. No ponding was observed at the site during biological surveys, including those that occurred following periods of substantial rainfall. The site lacks the suitable topography (including localized depressions) to support prolonged inundation necessary to support fairy shrimp. The site slopes slightly from west to east. As a result of the sloping topography, there is no opportunity for water to pond at the site. Furthermore, the site does not contain any artificial depressional features, including tire tracks and stock ponds, that could support prolonged inundation. In addition, the site is mapped as containing sandy loam soils, which are generally not associated with vernal pools. Observations of the soils at the site showed a lack of clay soil components. Lastly, no plants were observed at the site that are associated with vernal pools and similar habitats that experience prolonged inundation.

5.0 IMPACT ANALYSIS

The following discussion examines the potential impacts to plant and wildlife resources that would occur as a result of the proposed project. Impacts (or effects) can occur in two forms, direct and indirect. Direct impacts are considered those that involve the loss, modification or disturbance of plant communities, which in turn directly affect the flora and fauna of those habitats. Direct impacts also include the destruction of individual plants or animals, which may also directly affect regional population numbers of a species or result in the physical isolation of populations, thereby reducing genetic diversity and population stability.

Indirect (or secondary) impacts pertain to those impacts that result in a change to the physical environment, but which is not immediately related to a project. Indirect impacts are those that are reasonably foreseeable and caused by a project but occur at a different time or place. Indirect impacts can occur at the urban/wildland interface of projects and can affect biological resources located downstream from projects and other offsite areas.

Examples of indirect impacts include the effects of increases in ambient levels of noise or light; predation by domestic pets; competition with exotic plants and animals; introduction of toxics including pesticides; and other human disturbances such as hiking, off-road vehicle use, unauthorized dumping, etc. Indirect impacts are often attributed to the subsequent day-to-day activities associated with project build-out such as increased noise, the use of artificial light sources, and invasive ornamental plantings that may encroach into native areas. Indirect effects may be both short-term and long-term in their duration. These impacts are commonly referred to as "edge effects" and may result in a slow replacement of native plants by non-native invasives, changes in the behavioral patterns of wildlife, and reduced wildlife diversity and abundance in habitats adjacent to project sites.

Cumulative impacts refer to two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. A cumulative impact can occur from multiple individual effects from the same project, or from several projects. The cumulative impact from several projects is the change in the environment resulting from the

incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time.

5.1 California Environmental Quality Act (CEQA)

5.1.1 Thresholds of Significance

Environmental impacts to biological resources are assessed using impact significance threshold criteria, which reflect the policy statement contained in CEQA, Section 21001(c) of the California Public Resources Code. Accordingly, the State Legislature has established it to be the policy of the State of California:

"Prevent the elimination of fish or wildlife species due to man's activities, ensure that fish and wildlife populations do not drop below self-perpetuating levels, and preserve for future generations representations of all plant and animal communities..."

Determining whether a project may have a significant effect, or impact, plays a critical role in the CEQA process. According to CEQA, Section 15064.7 (Thresholds of Significance), each public agency is encouraged to develop and adopt (by ordinance, resolution, rule, or regulation) thresholds of significance that the agency uses in the determination of the significance of environmental effects. A threshold of significance is an identifiable quantitative, qualitative or performance level of a particular environmental effect, non-compliance with which means the effect will normally be determined to be significant by the agency and compliance with which means the effect normally will be determined to be less than significant. In the development of thresholds of significance for impacts to biological resources CEQA provides guidance primarily in Section 15065, Mandatory Findings of Significance, and the CEQA Guidelines, Appendix G, Environmental Checklist Form. Section 15065(a) states that a project may have a significant effect where:

"The project has the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or wildlife community, reduce the number or restrict the range of an endangered, rare, or threatened species, ..."

Therefore, for the purpose of this analysis, impacts to biological resources are considered potentially significant (before considering offsetting mitigation measures) if one or more of the following criteria discussed below would result from implementation of the proposed project.

5.1.2 Criteria for Determining Significance Pursuant to CEQA

Appendix G of the 2022 State CEQA guidelines indicate that a project may be deemed to have a significant effect on the environment if the project is likely to:

- a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.
- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.
- c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.
- e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.
- f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

5.2 **Special-Status Species**

Appendix G(a) of the CEQA guidelines asks if a project is likely to "have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service."

5.2.1 Special-Status Plants

No special-status plants were detected at the Project site, and none are expected to occur onsite due to the lack of suitable habitat and level of disturbance. Therefore, the proposed Project would have no impacts on special-status plants.

5.2.2 Special-Status Animals

No special-status animals were detected at the Project site and none are expected to occur onsite due to the lack of suitable habitat and level of disturbance. Therefore, the proposed Project would have no impacts on special-status animals.

5.3 Sensitive Vegetation Communities

Appendix G(b) of the CEQA guidelines asks if a project is likely to "have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service."

The Project site does not contain any native vegetation communities, including special-status vegetation communities. As noted above, the entire property is disturbed, with vegetated areas dominated by non-native, ruderal species. Therefore, the proposed Project would have no impacts on special-status vegetation communities.

Table 5-1. Summary of Vegetation/Land Use Impacts

Vegetation/Land Use Type	Total Acreage
Developed	4.84
Ruderal	0.22
Total	5.06

5.4 Wetlands

Appendix G(c) of the State CEQA guidelines asks if a project is likely to "have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means."

The Project site does not contain any state or federally protected wetlands; therefore no impacts to state or federally protected wetlands would occur as a result of construction of the proposed Project.

5.5 Wildlife Movement and Native Wildlife Nursery Sites

Appendix G (d) of the State CEQA guidelines asks if a project is likely to "interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites."

The Project site lacks migratory wildlife corridors and/or wildlife nursery sites and does not occur within any MSHCP Cores or Linkages. The proposed Project would not interfere with or impact (1) the movement of native resident or migratory fish or wildlife species, (2) established native resident or migratory wildlife corridors, or (3) the use of native wildlife nursery sites.

Any impacts to local wildlife movement occurring as a result of the proposed Project would be minor and would not rise to the level of significant pursuant to CEQA. The project has the potential to impact active bird nests if vegetation is removed during the nesting season (February 1 to September 25). Impacts to nesting birds are prohibited by the California Fish and Game Code.

Although impacts to migratory birds are prohibited by California Fish and Game Code, impacts to migratory birds by the proposed Project would not be a significant impact under CEQA. The migratory birds with potential to nest on the Project site would be those that are extremely common to the region and highly adapted to human landscapes (e.g., killdeer, mourning dove). The number of individuals potentially affected by the Project would not significantly affect regional or local, populations of such species. A measure is identified in Section 6.0 of this report to avoid impacts to nesting birds.

5.6 Local Policies or Ordinances Plans

Appendix G(e) of the State CEQA guidelines asks if a project is likely to "conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance."

The Mead Valley Area Plan includes policies to address relating to biological resources including watersheds, floodplains, watercourses, oak tree preservation, and other habitat requirements for sensitive and listed species.

As noted above, the entire property is disturbed with areas dominated by non-native, ruderal species. There are no trees, native vegetation communities, watercourses, or habitat for special status species within the Project site. Therefore, there are no protected biological resources on the Project site and the Project would not conflict with local policies or ordinances protecting biological resources.

5.7 Habitat Conservation Plans

Appendix G(f) of the State CEQA guidelines asks if a project is likely to "conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan."

As discussed throughout this report, the Project is within the Western Riverside County MSHCP. Section 7.0 of this report analyzes compliance of the Project with the Reserve Assembly and species/habitat requirements of the MSHCP. Through compliance with the applicable requirements, the Project will not conflict with the provisions of the MSHCP.

5.8 Jurisdictional Waters

The Project site does not contain jurisdictional waters. Therefore, the proposed Project would have no impacts to jurisdictional waters.

5.9 <u>Indirect Impacts to Biological Resources</u>

In the context of biological resources, indirect effects are those effects associated with developing areas adjacent to adjacent native open space. Potential indirect effects associated with development include water quality impacts from associated with drainage into adjacent open space/downstream aquatic resources; lighting effects; noise effects; invasive plant species

from landscaping; and effects from human access into adjacent open space, such as recreational activities (including off-road vehicles and hiking), pets, dumping, etc. Temporary, indirect effects may also occur as a result of construction-related activities.

Volume I, Section 6.1.4 of the MSHCP (Urban/Wildland Interface Guidelines) identifies guidelines that are intended to address indirect effects associated with locating projects (particularly development) in proximity to the MSHCP Conservation Area. To minimize potential edge effects, the guidelines are to be implemented in conjunction with review of individual public and private development projects in proximity to the MSHCP Conservation Area. The proposed Project is not located in proximity to the MSHCP Conservation Area or other native habitats. As such, the Project will not result in significant indirect effects to biological resources. Furthermore, the Urban/Wildland Interface Guidelines do not apply to the proposed Project.

5.10 Cumulative Impacts to Biological Resources

Cumulative impacts are defined as the direct and indirect effects of a proposed project which, when considered alone, would not be deemed a substantial impact, but when considered in addition to the impacts of related projects in the area, would be considered potentially significant. "Related projects" refers to past, present, and reasonably foreseeable probable future projects which would have similar impacts as the proposed project.

Given the small size and highly disturbed nature of the Project site, the Project is not expected to result in cumulative impacts that would rise to a level of significance under CEQA. Additionally, any potentially significant cumulative impacts occurring as a result of the proposed Project will be considered fully mitigated through participation in the MSHCP and therefore consistent with the MSHCP.

6.0 MINIMIZATION/AVOIDANCE MEASURES

The following discussion provides project-specific minimization/avoidance measures for actual or potential impacts to special-status resources.

6.1 Burrowing Owl

The Project site and lands adjacent contains suitable habitat for burrowing owls; however, burrowing owls were not detected onsite during focused surveys. MSHCP Objective 6 for burrowing owls requires that pre-construction surveys be performed prior to site grading. As such, the following measure is recommended to avoid direct impacts to burrowing owls and to ensure consistency with the MSHCP.

• **Pre-Construction Survey.** A 30-day pre-construction survey for burrowing owls is required prior to future ground-disturbing activities (e.g., vegetation clearing, clearing and grubbing, tree removal, site watering, equipment staging, etc.) to ensure that no owls have colonized the site in the days or weeks preceding the ground-disturbing activities. If

burrowing owls have colonized the Project site prior to the initiation of ground-disturbing activities, the project proponent will immediately inform the Regional Conservation Authority (RCA) and the Wildlife Agencies and will need to coordinate in the future with the RCA and the Wildlife Agencies, including the possibility of preparing a Burrowing Owl Protection and Relocation Plan, prior to initiating ground disturbance. If ground-disturbing activities occur, but the site is left undisturbed for more than 30 days, a preconstruction survey will again be necessary to ensure that burrowing owl have not colonized the site since it was last disturbed. If burrowing owls are found, the same coordination described above will be necessary.

Nesting Birds

The Project site contains vegetation with the potential to support native nesting birds. As discussed above, the California Fish and Game Code prohibits mortality of native birds, including eggs. The following measure is recommended to avoid take of nesting birds. Potential impacts to native birds was not considered a biologically significant impact under CEQA; however, to comply with state law, the following is recommended:

• As feasible, vegetation clearing should be conducted outside of the nesting season, which is generally identified as February 1 through September 15. If avoidance of the nesting season is not feasible, then a qualified biologist shall conduct a nesting bird survey within three days prior to any disturbance of the site, including disking, demolition activities, and grading. If active nests are identified, the biologist shall establish suitable buffers around the nests (typically 300 feet for passerine birds and 500 feet for raptors). A smaller buffer may be established if the project biologist deems it suitable. The buffer areas shall be avoided until the nests are no longer occupied and the juvenile birds can survive independently from the nests.

7.0 MSHCP CONSISTENCY ANALYSIS

The purpose of this section is to provide an analysis of the proposed Project with respect to compliance with biological aspects of the Western Riverside County MSHCP. Specifically, this analysis evaluates the proposed Project with respect to the Project's consistency with MSHCP Reserve assembly requirements, *Section 6.1.2* (Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools), *Section 6.1.3* (Protection of Narrow Endemic Plant Species), *Section 6.1.4* (Guidelines Pertaining to the Urban/Wildlands Interface), and *Section 6.3.2* (Additional Survey Needs and Procedures).

7.1 Project Relationship to Reserve Assembly

The Project site does not occur within the MSHCP Criteria Area. Therefore, the proposed Project will not be subject to the HANS and JPR processes, the site is not described for conservation, and the Project would be consistent with MSHCP policies, specifically pertaining to the Project's relationship to the MSHCP reserve assembly.

7.2 Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools

The Project does not contain any riparian/riverine areas or vernal pools. Therefore, the Project will not impact any riparian/riverine areas or vernal pools, or any species associated with such features. The Project will be consistent with *Volume I, Section 6.1.2* of the MSHCP.

7.3 <u>Protection of Narrow Endemic Plants</u>

Volume I, Section 6.1.3 of the MSHCP requires that within identified NEPSSA, site-specific focused surveys for Narrow Endemic Plants Species will be required for all public and private projects where appropriate soils and habitat are present.

However, the Project site does not occur within NEPSSA; therefore, the Project is not subject to any additional NEPSSA requirements pursuant to the MSHCP and would be consistent with the biological requirements of the MSHCP, specifically pertaining to Section 6.1.3 (Protection of Narrow Endemic Plant Species).

7.4 Guidelines Pertaining to the Urban/Wildland Interface

The MSHCP Urban/Wildland Interface Guidelines are intended to address indirect effects associated with locating development in proximity to the MSHCP Conservation Area. As the MSHCP Conservation Area is assembled, development is expected to occur adjacent to the Conservation Area. Future development in proximity to the MSHCP Conservation Area may result in edge effects with the potential to adversely affect biological resources within the Conservation Area. To minimize such edge effects, the guidelines shall be implemented in conjunction with review of individual public and private development projects in proximity to the MSHCP Conservation Area and address the following:

- Drainage;
- Toxics;
- Lighting;
- Noise;
- Invasive species;
- Barriers;
- Grading/Land Development.

The Project site does not occur in proximity to the MSHCP Conservation Area; therefore, the MSHCP Urban/Wildlands Interface Guidelines (*Volume I, Section 6.1.4* of the MSHCP) do not apply to the Project. As such, the proposed Project will be consistent with the biological requirements of the MSHCP, specifically pertaining to the MSHCP Urban/Wildlands Interface Guidelines.

7.5 Additional Survey Needs and Procedures

Focused burrowing owl surveys were conducted for the Project site and no burrowing owls were detected; refer to Section 6.1 regarding additional information pertaining to burrowing owl

procedures. As the Project site does not occur within amphibian and/or mammal survey areas, no amphibian and/or mammal surveys are required. As the Project site does not occur within the CAPSSA, mammal survey areas or amphibian survey areas, no surveys were required for these species.

7.6 <u>Conclusion of MSHCP Consistency</u>

As outlined above, the proposed Project will be consistent with the biological requirements of the MSHCP; specifically pertaining to the Project's relationship to reserve assembly, *Section 6.1.2* (Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools), *Section 6.1.3* (Protection of Narrow Endemic Plant Species), *Section 6.1.4* (Guidelines Pertaining to the Urban/Wildlands Interface), and *Section 6.3.2* (Additional Survey Needs and Procedures).

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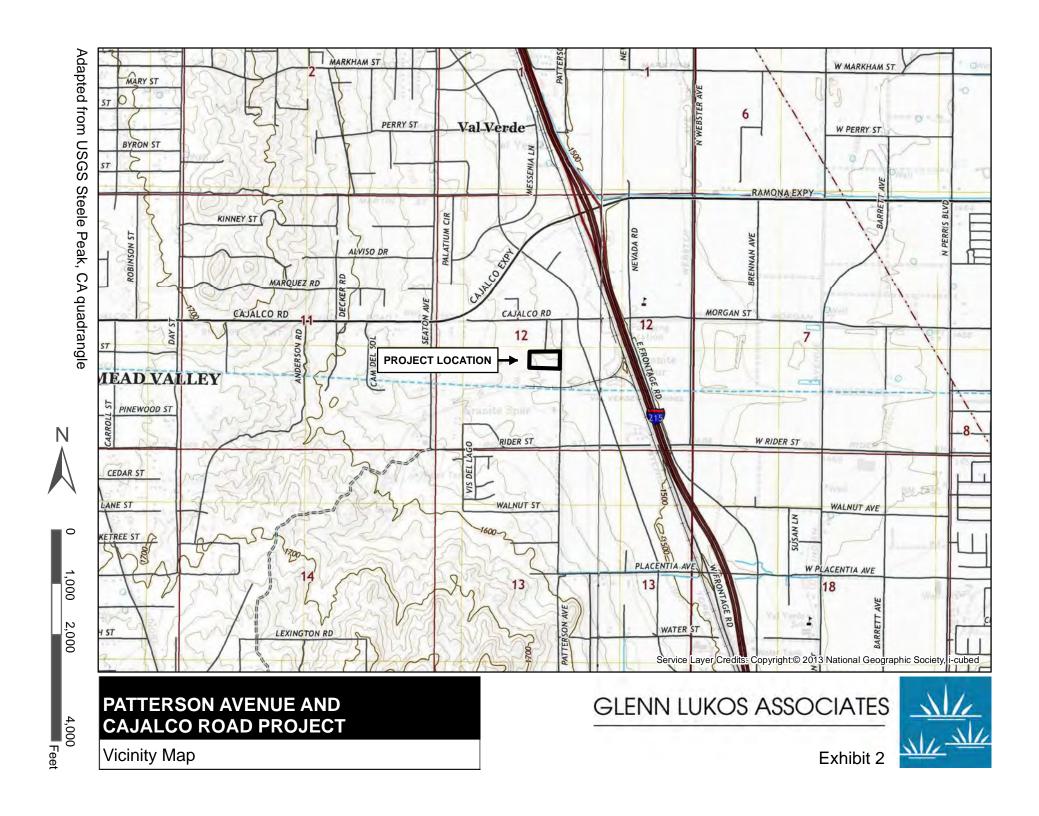
9.0 CERTIFICATION

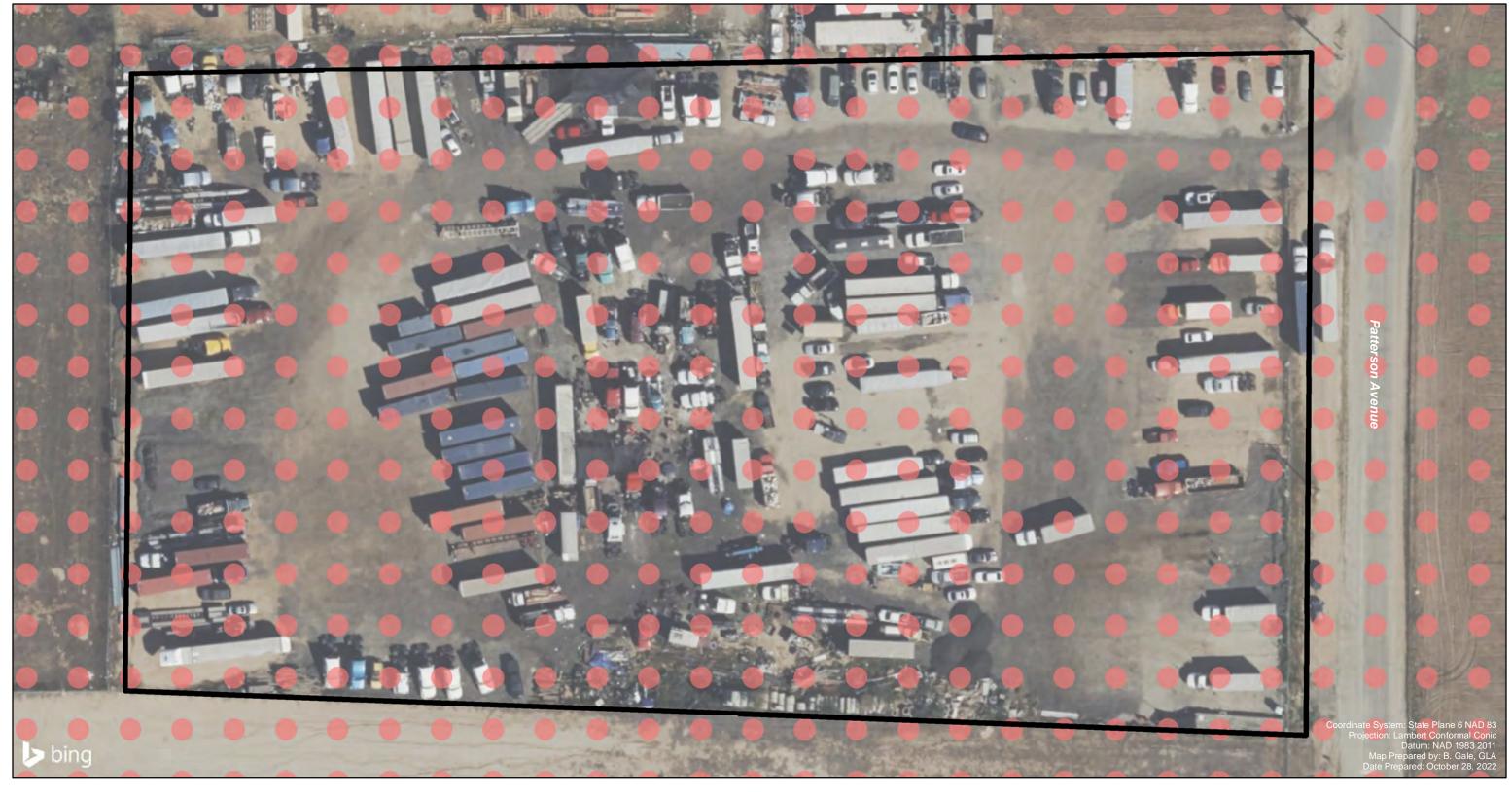
I hereby certify that the statements furnished above and in the attached exhibits present data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Signed: Date: November 4, 2022

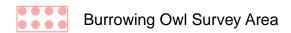
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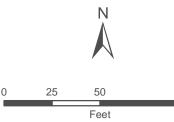
Exhibit 1











1 inch = 50 feet

100

PATTERSON AVENUE AND CAJALCO ROAD PROJECT

MSHCP Overlay Map



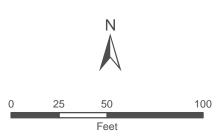






Ruderal

Disturbed

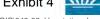


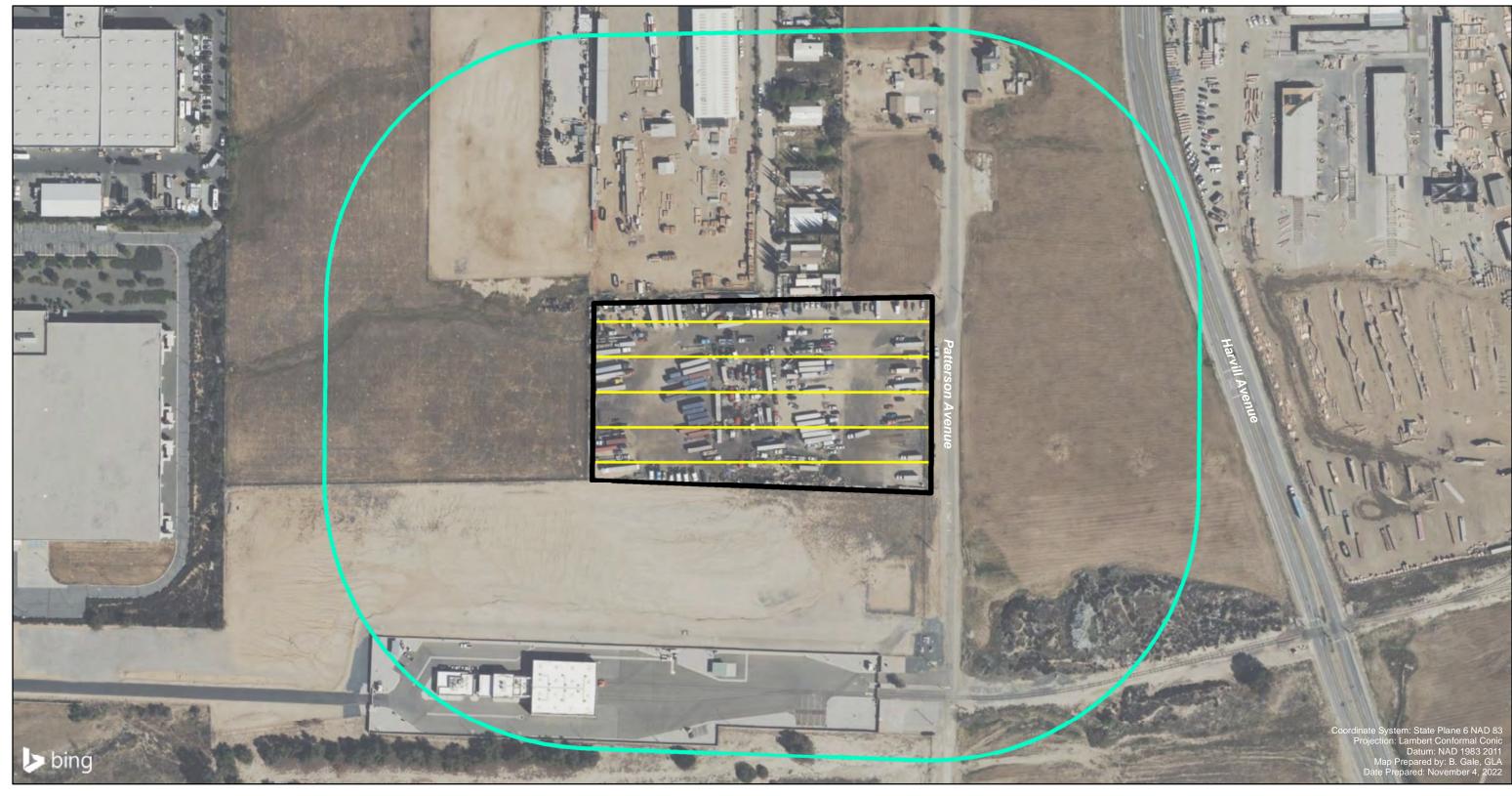
PATTERSON AVENUE AND **CAJALCO ROAD PROJECT**

Vegetation/Land Use Map

GLENN LUKOS ASSOCIATES









500' Visual Survey Area

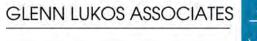


0 87.5 175 350 Feet

Transect 1 inch = 175 feet

PATTERSON AVENUE AND CAJALCO ROAD PROJECT

Burrowing Owl Transect Map





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Greenfield sandy loam, 2 to 8 percent slopes, eroded

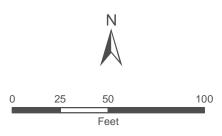
Hanford coarse sandy loam, 2 to 8 percent slopes

HgA Hanford fine sandy loam, 0 to 2 percent slopes

Monserate sandy loam, 5 to 8 percent slopes, eroded

Monserate sandy loam, 8 to 15 percent slopes, eroded

Ramona sandy loam, 2 to 5 percent slopes, eroded



1 inch = 50 feet

PATTERSON AVENUE AND CAJALCO ROAD PROJECT

Soils Map

GLENN LUKOS ASSOCIATES





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Photograph 1: Representative photo of the Developed area of the Project site.



Photograph 3: Representative photo of small patch of ruderal vegetation within the Project site.



Photograph 2: Representative photo of the Patterson Avenue adjacent to the Project site.



Photograph 4: Representative photo of small patch of ruderal vegetation within the Project site.

APPENDIX A FLORAL COMPENDIUM

The floral compendium lists species identified on the project site. Taxonomy follows the Jepson Manual (Baldwin et al 2012) and, for sensitive species, the California Native Plant Society's Rare Plant Inventory (Tibor 2001). Common plant names are taken from Hickman (1993), Munz (1974), and Roberts et al (2004). An asterisk (*) denotes a non-native species. A cross (†) denotes special-status species

Scien	tific	Name

Common Name

ANGIOSPERMOPHYTA

FLOWERING PLANTS

MONOCOTYLEDONS

MONOCOTS

Poaceae

- *Avena barbata
- *Bromus madritensis ssp. rubens
- *Bromus diandrus
- *Hordeum murinum
- *Schismus barbatus

Grass Family

wild oats red brome

ripgut brome

foxtail barley

common Mediterranean grass

EUDICOTYLEDONS

EUDICOTS

Adoxaceae

Sambucus nigra ssp. caerulea

Muskroot Family

blue elderberry

Asteraceae

Erigeron canadensis

- *Hypochaeris glabra
- *Lactuca serriola
- * Oncosiphon pilulifer

Sunflower Family

Canada horseweed smooth cat's ear prickly lettuce

Brassicaceae

- *Hirschfeldia incana
- *Raphanus sativus
- *Sisymbrium irio

Mustard Family

stinknet

summer mustard wild radish london rocket

Chenopodiaceae

*Salsola tragus

Goosefoot Family

Russian thistle

Euphorbiaceae

Croton setiger

Geraniaceae

*Erodium cicutarium

Malvaceae

*Malva parviflora

Solanaceae

Datura wrightii *Nicotiana glauca

Spurge Family

doveweed

Geranium Family

coastal heron's bill

Mallow Family

cheeseweed

Nightshade Family

Jimsonweed tree tobacco

APPENDIX B FAUNAL COMPENDIUM

The faunal compendium lists species that were either observed within or adjacent to the Study Area (denoted by a '*'), or that have some potential to occur within or adjacent to the Study Area (denoted by a '+'). Taxonomy and common names are taken from the California Wildlife Habitat Relationships System (CDFW 2016); Chesser et al. (2022) and CDFW (2016) for birds; Stebbins (1985), Collins (1990), Jones et al. (1992), and CDFW (2016) for reptiles and amphibians; and CDFW (2016) for mammals.

AVES

COLUMBIDAE

Zenaida macroura

TROCHILIDAE

Calypte anna

TYRANNIDAE

Sayornis nigricans Sayornis saya

CORVIDAE

Corvus brachyrhynchos Corvus corax

EMBERIZIDAE

Melospiza melodia

FRINGILLIDAE

Carpodacus mexicanus Spinus psaltria **BIRDS**

Pigeons and Doves

mourning dove

Hummingbirds

Anna's hummingbird

Tyrant Flycatchers

black phoebe Say's phoebe

Crows and Jays

American crow common raven

Emberizids

song sparrow

Fringilline and Cardueline Finches and

Allies

house finch lesser goldfinch