



**GENERAL BIOLOGICAL ASSESSMENT
AND
WESTERN RIVERSIDE COUNTY MSHCP
CONSISTENCY ANALYSIS
FOR
APNs 439-030-009 & 439-030-010
CITY OF HEMET
COUNTY OF RIVERSIDE, CALIFORNIA**

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Table of Contents

1.0	Introduction	3
1.1	Project Site Location	3
1.2	Project Description	3
2.0	Methodology	3
2.1	Literature Review	3
2.1.1	Western Riverside County MSHCP	3
2.1.2	Project Relationship to the Western Riverside County MSHCP	4
2.2	Field Survey	5
3.0	Existing Conditions and Results	5
3.1	Environmental Setting	5
3.2	Soils	5
3.3	Plant and Habitat Communities	6
3.4	Wildlife	6
3.5	Regional Connectivity/Wildlife Movement	6
3.6	Sensitive Biological Resources	6
3.6.1	Sensitive Plant Resources	7
3.6.2	Sensitive Animal Resources	10
3.6.3	Nesting Birds	10
3.7	Jurisdictional Waters	13
4.0	Project Impacts	14
4.1	Impacts to Habitats	14
4.2	Impacts to Sensitive Species	14
4.3	Impacts to Nesting Birds	14
4.4	Impacts to Critical Habitat	15
4.5	Impacts to Wildlife Movement Corridors	15
4.6	Conflict with Local Policies or Ordinances Protecting Biological Resources	15
4.7	Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation Plan	15
4.8	State and Federal Drainages	15
5.0	Western Riverside County MSHCP Consistency Analysis	15
5.1	MSHCP Requirements	15
6.0	Recommendations	16
7.0	Certification	18
8.0	References	19

FIGURES

Figure 1 – Location Map

Figure 2 – Vicinity Map

Figure 3 – Site Plans

Figure 4 – Habitat Map

APPENDICES

Appendix A – Species Observed

Appendix B – Species Presence/Absence List

Appendix C – Site Photographs

Appendix D – Soils Map

1.0 Introduction

HES was contracted to prepare a general biological assessment (GBA) and Western Riverside County MSHCP consistency analysis for Riverside County Assessor's Parcel Numbers (APNs) 439-030-009 and 439-030-010. The project area consists of approximately 26.22 acres located northwest of the intersection of North State Street and Crows Nest Place in the city of Hemet, Riverside County, California.

1.1 Project Site Location

The project area is located at the northwest corner of North State Street and Crows Nest Place at 1321 and 1255 North State Street in the city of Hemet, Riverside County, California. The project area consists of Riverside County APNs 439-030-009 and 439-030-010. Specifically, the project area is located within the San Jacinto Viejo Land Grant of the *San Jacinto* United States Geological Survey (USGS) 7.5' topographic quadrangle. The center point latitude and longitude for the project area are 33°46'09.70" North and 116°58'28.04" West (Figures 1 and 2).

1.2 Project Description

The proposed project includes the construction of the S²A Modular Manufacturing Plant including associated offices, parking areas, and walkways (Figure 3).

2.0 Methodology

2.1 Literature Review

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project sites and surrounding areas. A five-mile radius was used to identify sensitive species with the California Natural Diversity Data Base (CNDDDB), the U.S. Fish and Wildlife Service (USFWS) Endangered Species Lists, and the California Native Plant Society (CNPS) rare plant lists to obtain species information for the project area. The CNDDDB and USFWS critical habitat databases were utilized, together with Geographic Information System (GIS) software, to locate the previously recorded locations of sensitive plant and wildlife occurrences and designated critical habitat and determine the distance from the project sites. Additionally, the Western Riverside County MSHCP was reviewed for information on known occurrences of sensitive species within Riverside County.

2.1.1 Western Riverside County MSHCP

The Western Riverside County MSHCP is a comprehensive, multijurisdictional habitat conservation planning program for western Riverside County, California. The purpose of the Western Riverside County MSHCP is to preserve native habitats, and to this end, the plan focuses upon the habitat needs of multiple species rather than one species at a time. The Western

Riverside County MSHCP provides coverage/take authorization for some species listed under the federal or state Endangered Species Act (ESA) as well as non-listed special-status plant and wildlife species. It also provides mitigation for impacts to special-status species and their associated habitats.

Through agreements with the USFWS and California Department of Fish and Wildlife (CDFW), 146 listed and special-status plant and animal species receive some level of coverage under the Western Riverside County MSHCP. Of the 146 covered species, the majority have no additional survey needs or conservation requirements. Furthermore, the Western Riverside County MSHCP provides mitigation for project-specific impacts to these species, thereby reducing the degree of impact to below a level of significance, pursuant to the California Environmental Quality Act (CEQA).

Several of the species covered under the Western Riverside County MSHCP have additional survey requirements. These include the riparian communities and associated species addressed in Section 6.1.2 of the Western Riverside County MSHCP document (“Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools”), plants identified in Section 6.1.3 (“Narrow Endemic Plant Species”); and plants and animal species addressed in Section 6.3.2 (“Additional Survey Needs and Procedures”).

2.1.2 Project Relationship to the Western Riverside County MSHCP

The project area is located within the Western Riverside County MSHCP boundaries. The County of Riverside, acting as the lead agency for the proposed project, is a permittee under the Western Riverside County MSHCP and, therefore, is afforded coverage under the state or federal ESAs for impacts to listed species covered by the plan. The County is required to document consistency with the Western Riverside County MSHCP in conjunction with any discretionary approvals for the project. As such, this report was prepared to provide all necessary information required to determine project consistency with the Western Riverside County MSHCP.

The project area is located within Western Riverside County MSHCP San Jacinto Valley Area Plan and is not located within an Area Plan Subunit, Criteria Cell, or Cell Group. Further, the project area is not located within plan-defined areas requiring surveys for narrow endemic plant species, or criteria area plant species. However, the project area is located within plan defined-areas requiring surveys for burrowing owl (*Athene cunicularia*).

A habitat assessment conducted for burrowing owl determined that the project area provides suitable habitat for the species. Therefore, focused burrowing owl surveys were conducted for the project area. Although the project site supports fossorial mammal burrows, rock outcrops, and non-natural substrates capable of supporting BUOW, no BUOW or BUOW sign was observed at the entrance or adjacent to these burrows within the study area. Despite systematic searches of the project site and 150-meter buffer area, no BUOW or evidence (i.e., including

scat, pellets, feathers, tracks, and prey remains) were found which suggest recent or historical use of the study area by BUOW. Therefore, it can be concluded that BUOW are not currently present within the study area.

2.2 Field Survey

On March 20, 2019, HES biologist Juan Hernandez conducted a field survey of the entire 26.22-acre project area. The ambient temperature at 7:00 a.m. was 51 degrees Fahrenheit, sunny, with winds ranging from zero to three miles per hour from the southwest. The purpose of the field survey was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding land uses, assess the potential for state and federal waters, assess the potential for wildlife movement corridors, and assess the presence of constituent elements for critical habitat, if present.

Linear transects spaced approximately 50 to 100 feet apart were walked across the project area for 100 percent coverage. All species observed were recorded. Global Positioning System (GPS) waypoints were taken to delineate specific habitat types, species locations, state or federal waters, and any other information that would be useful for the assessment of the project area. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project area is included in Appendix A. Sensitive plant and wildlife species with the potential to occur within the project area are listed in Appendix B. Representative site photographs were taken and are included within Appendix C.

3.0 Existing Conditions and Results

3.1 Environmental Setting

The project area is located within the city of Hemet, Riverside County, California. The project area is undeveloped, relatively flat, and disturbed. Surrounding land uses include commercial developments and the San Jacinto Park to the north, undeveloped land to the east, commercial and residential developments to the south, and residential developments to the west. Elevations on the project area range from 1,536 feet above mean sea-level (AMSL) to 1,556 AMSL.

3.2 Soils

According to the United States Department of Agriculture (USDA) Web Soil Survey, six soil types occur on the project sites (Appendix G). The soils at the project sites are classified as:

- Chino silt loam (Cf), drained, saline-alkali;
- Grangeville fine sandy loam (GtA), drained, 0 to 2 percent slopes;
- Metz loamy fine sand (MhB), sandy loam substratum, 0 to 5 percent slopes;

- San Emigdio fine sandy loam (SeA), 0 to 2 percent slopes, occasional frost;
- San Emigdio fine sandy loam (SeD2), 8 to 15 percent slopes, eroded; and
- San Emigdio fine sandy loam (SfA), deep, 0 to 2 percent slopes.

3.3 Plant and Habitat Communities

The project area is undeveloped, relatively flat, and heavily disturbed. The area is characterized by one habitat type: ruderal.

Ruderal/Disturbed

The project area contains approximately 26.22 acres of ruderal/disturbed habitat. The ruderal areas on the area are dominated by non-native plant species. Dominant vegetation observed in this habitat type includes ripgut brome (*Bromus diandrus*), foxtail chess (*Bromus madritensis*), black mustard (*Brassica nigra*), Russian thistle (*Salsola tragus*), London rocket (*Sisymbrium irio*), and filaree (*Erodium sp.*).

3.4 Wildlife

General wildlife species documented on the project areas or within the vicinity include, red-tailed hawk (*Buteo jamaicensis*), house finch (*Carpodacus mexicanus*), American crow (*Corvus brachyrhynchos*), western fence lizard (*Sceloporus occidentalis*), common raven (*Corvus corax*), California ground squirrel (*Otospermophilus beecheyi*), and western kingbird (*Tyrannus verticalis*). The complete list of species observed is included as Appendix A.

3.5 Regional Connectivity/Wildlife Movement

Wildlife movement corridors link together areas of suitable habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbances. The project area was evaluated for its function as a wildlife corridor that species would use to move between wildlife habitat zones. The project area is relatively flat and surrounded by commercial and residential structures. No wildlife movement corridors were found to be present on the project sites.

3.6 Sensitive Biological Resources

According to the CNDDB, a total of 43 sensitive species of plants, 7 sensitive habitats, and 55 sensitive species of animals have the potential to occur on or within the vicinity of the project area. These include those species listed or candidates for listing by the U. S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW) and California Native Plant Society (CNPS). All habitats with the potential to be used by sensitive species were evaluated during the site visit and a determination has been made for the presence or probability of presence within this report. This section will address those species listed as Candidate, Rare,

Threatened, or Endangered under the state and federal endangered species laws or directed to be evaluated under the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP). Sensitive species which have a potential to occur will also be discussed in this section. Other special status species are addressed within Appendix B.

3.6.1 Sensitive Plant Resources

A total of 15 plant species are listed as state and/or federal Threatened, Endangered, or Candidate species; are required to be reviewed under the Narrow Endemic Plant section of the Western Riverside MSHCP; are 1B.1 listed plants on the CNPS Rare Plant Inventory; or have been found to have a potential to exist on the project sites. A total of seven sensitive habitats have the potential to exist on the project sites. Below are descriptions of these species, followed by these habitats:

Chaparral sand-verbena

Chaparral sand-verbena (*Abronia villosa* var. *aurita*) is ranked 1B.1 in the CNPS rare plant inventory. It is found in sandy areas of chaparral, coastal scrub, and desert dunes habitats. No habitat for this species is present on the project sites. **This species is not present.**

Munz's onion

Munz's onion (*Allium munzii*) is a federally endangered, state threatened, and CNPS 1B.1 listed plant. It is found in chaparral, coastal scrub, valley and foothill grasslands, cismontane woodland, and pinyon and juniper woodland. It is commonly found in heavy clay soils. No habitat for this species is present on the project sites. **This species is not present.**

Coachella Valley milk-vetch

Coachella Valley milk-vetch (*Astragalus lentiginosus* var. *coachellae*) is a federally listed endangered species and is ranked 1B.2 in the CNPS rare plant inventory. It is typically found in sandy flats, washes, outwash fans, and on dunes. Its habitat includes desert dunes and Sonoran desert scrub. No habitat for this species is present on the project sites. **This species is not present.**

Jaeger's milk-vetch

Jaeger's milk-vetch (*Astragalus pachypus* var. *jaegeri*) is ranked 1B.1 in the CNPS rare plant inventory. It is often found in dry ridges and valleys, and open sandy slopes. Its habitat includes coastal scrub, chaparral, valley and foothill grassland, and cismontane woodland. No habitat for this species is present on the project sites. **This species is not present.**

San Jacinto Valley crownscale

San Jacinto Valley crownscale (*Atriplex coronata* var. *notatior*) is a federally listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes playas, valley and foothill grassland, and vernal pools. It is commonly found in the alkaline areas in the San Jacinto River Valley. No habitat for this species is present on the project sites. **This species is not present.**

Parish's brittlescale

Parish's brittlescale (*Atriplex parishii*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes shadescale scrub, alkali sink, riparian, playas, vernal pools and wetland. It is usually found on drying alkali flats with fine soils. No habitat for this species is present on the project sites. **This species is not present.**

Thread-leaved brodiaea

The thread-leaved brodiaea (*Brodiaea filifolia*) is a federally threatened, state endangered, and a CNPS 1B.1 listed plant. This species is usually associated with annual grassland and vernal pools and is often surrounded by shrubland habitats. Its habitats include chaparral, cismontane woodlands, coastal sage scrub, valley and foothill grasslands, vernal pools and wetland. No habitat for this species is present on the project sites. **This species is not present.**

Smooth tarplant

Smooth tarplant (*Centromadia pungens* ssp. *laevis*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, and valley and foothill grasslands. It is most commonly found in alkali meadow, alkali scrub, and disturbed habitat. No habitat for this species is present on the project sites. **This species is not present.**

Parry's spineflower

Parry's spineflower (*Chorizanthe parryi* var. *parryi*) is ranked 1B.1 in the CNPS rare plant inventory. The species occurs in dry, sandy soils on dry slopes and flats, sometimes at the interface of two vegetations types, such as chaparral and oak woodland. Its habitat includes coastal scrub, chaparral, cismontane woodland, valley and foothill grassland. No habitat for this species is present on the project sites. **This species is not present.**

Mojave tarplant

Mojave tarplant (*Deinandra mohavensis*) is a state listed endangered species and is ranked 1B.3 in the CNPS rare plant inventory. This species is typically found in low sand bars in river beds and most commonly in riparian or ephemeral grassy areas. Its habitat includes chaparral, coastal scrub, and riparian scrub. No habitat for this species is present on the project sites. **This species is not present.**

Slender-horned spineflower

Slender-horned spineflower (*Dodecahema leptoceras*) is a federally and state listed endangered species and is ranked 1B.1 in the CNPS rare plant inventory. This species is typically found near flood deposited terraces and washes. Its habitat includes chaparral, cismontane woodland, and coastal scrub (alluvial fan sage scrub). No habitat for this species is present on the project sites. **This species is not present.**

Mesa horkelia

Mesa horkelia (*Horkelia cuneate var. puberula*) is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in sandy or gravelly sites. Its habitat includes chaparral, cismontane woodland, and coastal scrub. No habitat for this species is present on the project sites. **This species is not present.**

Coulter's goldfields

Coulter's goldfields (*Lasthenia glabrata ssp. coulteri*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes alkali playatas, marsh, swamp, salt marsh, vernal pool, and wetland. It is usually found on alkaline soils in playatas, sinks, and grasslands. No habitat for this species is present on the project sites. **This species is not present.**

Spreading navarretia

Spreading navarretia (*Navarretia fossalis*) is a federally listed threatened species and is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes alkali playa, chenopod scrub, marsh and swamp, vernal pools, and wetlands. This species is typically found in swales and vernal pools, often surrounded by other habitat types. No habitat for this species is present on the project sites. **This species is not present.**

California Orcutt grass

California Orcutt grass (*Orcuttia californica*) is a federal and state endangered species. It is ranked 1B.1 in the CNPS rare plant inventory. It is found in vernal pools. No habitat for this species is present on the project sites. **This species is not present.**

Sensitive Habitats

A total of 7 sensitive habitats have the potential to occur including Canyon Live Oak Ravine Forest, Desert Fan Palm Oasis Woodland, Southern Coast Live Oak Riparian Forest, Southern Cottonwood Willow Riparian Forest, Southern Mixed Riparian Forest, Southern Riparian Scrub, and Southern Sycamore Alder Riparian Woodland. None of these sensitive habitats were found to occur within the project area.

3.6.2 Sensitive Animal Resources

A total of 18 animal species listed as state and/or federal Threatened, Endangered, Candidate will be reviewed in this section. Sensitive species which have a potential to occur will also be discussed in this section. All sensitive species within a 5-mile radius of project area were reviewed and a complete list of those species are discussed within Appendix B. Below are descriptions of these species:

Tricolored blackbird

Tricolored blackbird (*Agelaius tricolor*) is a state listed candidate endangered species and listed by the CDFW as a species of special concern. Its habitat includes freshwater marsh, marsh and swamp, swamp, and wetland. This species is largely endemic to California and is most numerous in and around Central Valley. This species requires open accessible water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony. There is no habitat for this species on the project sites. **This species is not present.**

Arroyo Toad

Arroyo Toad (*Anaxyrus californicus*) is a federally listed endangered species and a CDFW Species of Special Concern. The most favorable breeding habitat for this species consists of slow-moving shallow pools, nearby sandbars, and adjacent stream terraces. Its habitat includes desert wash, riparian scrub, riparian woodland, south coast flowing waters, and south coast standing waters. There is no habitat for this species on the project sites. **This species is not present.**

Coastal whiptail

The coastal whiptail (*Aspidoscelis tigris stejnegeri*) is a CDFW Species of Special Concern. It is typically found in hot, dry, flat open spaces in deserts or semi-arid areas where the ground is sandy, rocky, or firm soil. There is potential habitat for this species to be present on the project sites. **Potential to be present.**

Burrowing owl

Burrowing owl (*Athene cunicularia*) is a CDFW Species of Special Concern. Its habitat includes coastal prairie, coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, and valley and foothill grassland. This species is typically found in open and dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. It is a subterranean nester and is dependent upon burrowing mammals, most notably the California ground squirrel. There is potential habitat for this species to be present on the project site. However, based on focused burrowing owl surveys, **this species is not present.**

Vernal pool fairy shrimp

Vernal pool fairy shrimp (*Branchinecta lynchi*) is a federally listed threatened species. This species is found in seasonal pools of water in valley and foothill grasslands. This species typically inhabits small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools. The project sites do not contain suitable habitat for this species.

This species is not present.

Southern rubber boa

Southern-rubber boa (*Charina umbratical*) is a state listed threatened species. Its habitat includes meadow and seep, riparian forest, riparian woodland, upper montane coniferous forest, and wetland. This species is typically found near streams or wet meadows, and requires loose, moist soil for burrowing. It seeks cover in rotting logs, rock outcrops, and under surface litter. It is known to be found in the San Bernardino and San Jacinto mountains and has been reported to be found in other areas, but further research is required. The project sites do not contain suitable habitat for this species. **This species is not present.**

Western yellow-billed cuckoo

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is a federally listed threatened and state listed endangered species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with a lower story of blackberry, nettles, or wild grape. It is found in riparian forest habitat. The project sites do not contain suitable habitat for this species.

This species is not present.

San Bernardino kangaroo rat

San Bernardino kangaroo rat (*Dipodomys merriami parvus*) is a federally listed endangered species and a CDFW Species of Special Concern. It is found in coastal scrub habitat. This species is found in alluvial scrub vegetation on sandy loam substrates, characteristic of alluvial fans and flood plains. It needs early to intermediate seral stages. The project sites do not contain suitable habitat for this species. **This species is not present.**

Stephen's kangaroo rat

Stephens' kangaroo rat (*Dipodomys stephensi*) is a federally listed endangered and state listed threatened species. This species is found in coastal sage scrub with sparse vegetation cover, and in valley and foothill grasslands. This species prefers buckwheat, chamise, brome grass, and filaree, and will burrow into firm soil. The project sites do not contain suitable habitat for this species. **This species is not present.**

Southwestern willow flycatcher

Southwestern willow flycatcher (*Empidonax traillii extimus*) is a federally and state listed endangered species. It is found in riparian woodland habitat in southern California. The project sites do not contain suitable habitat for this species. **This species is not present.**

California horned lark

California horned lark (*Eremophila alpestris actia*) is listed on the CDFW Watch List. It is found in coastal regions, chiefly from Sonoma County to San Diego County, as well as in parts of the San Joaquin Valley and east to foothills. This species is found in areas with short-grass prairie, “bald” hills, mountain meadows, open coastal plains, fallow grain fields, and/or alkali flats. Its habitat includes marine intertidal and splash zone communities, and meadow and seep. There is potential habitat for this species to be present on the project sites. **Potential to be present.**

Quino checkerspot butterfly

Quino checkerspot butterfly (*Euphydryas editha quino*) is a federally listed endangered species. It is found in chaparral and coastal sage scrub. This species requires high densities of food plants, including *Plantago erecta*, *P. insularis*, and *Orthocarpus purpureus*. The project sites do not have suitable habitat for this species. **This species is not present.**

Los Angeles pocket mouse

Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) is a CDFW Species of Special Concern. This species is typically found on open ground with fine, sandy soils and may not dig extensive burrows, hiding under weeds and dead leaves instead. Its habitat includes lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin. There is potential habitat for this species to be present on the project sites. **Potential to be present.**

Coast horned lizard

Coast horned lizard (*Phrynosoma blainvillii*) is a CDFW Species of Special Concern. This species is found in coastal sage scrub, coastal bluff scrub, chaparral, cismontane woodland, desert wash, pinon and juniper woodlands, riparian scrub, riparian woodland, and valley and foothill grassland. This species thrives in open areas for sunning, bushes for cover, patches of loose soil for burial, and an abundant supply of ants and other insects. There is potential habitat for this species to be present on the project sites. **Potential to be present.**

Coastal California gnatcatcher

Coastal California gnatcatcher (*Polioptila californica californica*) is a federally listed threatened species and CDFW Species of Special Concern. This species is found in coastal bluff scrub and coastal scrub habitat. This species is typically found in low, coastal sage scrub in arid washes, on

mesas and slopes. The project sites do not have suitable habitat for this species. **This species is not present.**

Southern mountain yellow-legged frog

Southern mountain yellow-legged frog (*Rana muscosa*) is a federally and state listed endangered species. It is found in aquatic habitat. This species is always encountered within a few feet of water. Tadpoles may require two to four years to complete their aquatic development. The project sites do not contain suitable habitat for this species. **This species is not present.**

Riverside fairy shrimp

Riverside fairy shrimp (*Streptocephalus woottoni*) is a federally listed endangered species. This species is found in coastal scrub, valley and foothill grassland, vernal pool, and wetland habitat. This species typically inhabits seasonally astatic pools filled by winter/spring rains. It is endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales, or earth slump basins in grassland and coastal sage scrub habitat. The project sites do not contain suitable habitat for this species. **This species is not present.**

Least Bell's vireo

Least Bell's vireo (*Vireo bellii pusillus*) is a federal and state listed endangered species. This species is found in riparian forest, riparian scrub, and riparian woodland. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams. The project sites do not contain suitable habitat for this species. **This species is not present.**

3.6.3 Nesting Birds

Migratory non-game native bird species are protected under the federal Migratory Bird Treaty Act. Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests. The project sites contain shrubs and trees that can support nesting song birds or raptors during the nesting bird season of February 1 through September 15.

3.7 Jurisdictional Waters

The project area does not contain any drainage features or associated riparian habitat that would be regulated under Section 1602 of the Fish and Game Code. Further, the project area does not contain any "waters of the United States" (WUS) that would be under the jurisdiction of the Federal CWA or riparian/wetland habitat that would be considered Western Riverside MSHCP riparian/riverine resources. No vernal pools are located within the project area.

4.0 Project Impacts

4.1 Impacts to Habitats

Construction of the proposed S2A Modular Manufacturing Plant will impact the entire 26.22-acre project area consisting of ruderal habitat.

4.2 Impacts to Sensitive Species

The species discussed below have the potential to occur on site. Project activities were evaluated to determine the potential for impacts to these species.

Coastal whiptail

The coastal whiptail (*Aspidoscelis tigris stejnegeri*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project sites, therefore the project has the potential to result in impacts to this species. However, this species is covered by the Western Riverside MSHCP and is considered adequately conserved.

California horned lark

California horned lark (*Eremophila alpestris actia*) is listed on the CDFW Watch List. There is potential habitat for this species to be present on the project sites, therefore the project has the potential to result in impacts to this species. However, this species is covered by the Western Riverside MSHCP and is considered adequately conserved.

Los Angeles pocket mouse

Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project sites, therefore the project has the potential to result in impacts to this species. However, this species is covered by the Western Riverside MSHCP and is considered adequately conserved.

Coast horned lizard

Coast horned lizard (*Phrynosoma blainvillii*) is a CDFW Species of Special Concern. There is potential habitat for this species to be present on the project sites, therefore the project has the potential to result in impacts to this species. However, this species is covered by the Western Riverside MSHCP and is considered adequately conserved.

4.3 Impacts to Nesting Birds

If the project will remove shrubs or trees between February 1 and September 15, the project will have a potential to impact nesting birds.

4.4 Impacts to Critical Habitat

The project is not located within designated federal critical habitat. No impact to critical habitat would occur.

4.5 Impacts to Wildlife Movement Corridors

The project sites do not contain mountain canyons or riparian corridors between major wildlife habitats. The project area is surrounded by commercial and residential structures. No wildlife movement corridors were found to be present on the project sites.

4.6 Conflict with Local Policies or Ordinances Protecting Biological Resources

Should the proposed project result in the removal of trees, it will be required to comply with County of Riverside Ordinance No. 559.

4.7 Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation Plan

No impacts to adopted habitat conservation plans, natural community conservation plans, or other approved local, regional or state habitat conservation plans are expected.

4.8 State and Federal Drainages

The project sites do not contain any state or federal jurisdictional drainages, streams, or lakes.

5.0 Western Riverside County MSHCP Consistency Analysis

5.1 MSHCP Requirements

The project area is located within the Western Riverside County MSHCP San Jacinto Valley Area Plan. However, the project area is not located within a Sub Area Plan, Criteria Cell, or Cell Group. A discussion of the applicable Western Riverside County MSHCP requirements follows:

Section 6.1.2 Species Associated with Riparian/Riverine Habitat and Vernal Pools

The proposed project sites do not contain any drainage features or associated riparian/wetland habitat that would be considered Western Riverside MSHCP riparian/riverine resources. Further, the sites do not contain any depressions or areas where water could pool. No vernal pools or suitable habitat for fairy shrimp occur on the sites.

Section 6.1.4 Urban/Wildlands Interface Guidelines

The project area is not located within or adjacent to a Western Riverside County MSHCP Conservation Area; therefore, the project is not required to address Section 6.1.4 of the Western Riverside County MSHCP.

Section 6.3.2 Additional Surveys and Procedures

The project area is not located within plan-defined areas requiring surveys for narrow endemic plant species, or criteria area plant species. However, the project area is located within plan defined-areas requiring surveys for burrowing owl (*Athene cunicularia*). A habitat assessment conducted for burrowing owl determined that the project area provides suitable habitat for the species. Therefore, focused burrowing owl surveys were conducted for the project area.

Focused burrowing owl surveys found that although the project site supports fossorial mammal burrows and non-natural substrates capable of supporting BUOW, no BUOW or BUOW sign was observed at the entrance or adjacent to the burrows located within the study area. Despite systematic searches of the project site and 150-meter buffer area, no BUOW or evidence (i.e., including scat, pellets, feathers, tracks, and prey remains) were found which suggest recent or historical use of the study area by BUOW. Therefore, it can be concluded that BUOW are not currently present within the project area and will not be impacted as a result of this project.

6.0 Recommendations

Based upon the findings of this report, it is recommended that the following studies or surveys be performed as part of the project, as required by the Western Riverside County MSHCP:

Sensitive Species

- Coastal whiptail, California horned lark, Los Angeles pocket mouse, and coast horned lizard have the potential to occur on the project sites and are adequately covered under the MSHCP. The proposed project must be consistent with the Western Riverside MSHCP. Payment of the appropriate development mitigation fees will mitigate any impacts to these species. A fee schedule can be found in the Local Development Mitigation Fee Schedule for Fiscal Year.
- Three days prior to any ground disturbing activities or vegetation removal, a qualified biological monitor should conduct a preconstruction survey to identify any sensitive biological resources to flag for avoidance. Any reptile species that may be present within the project area shall be relocated outside of the impact areas.

Burrowing Owl

- A habitat assessment has determined that the area provides suitable habitat for burrowing owl. Although the project site supports fossorial mammal burrows, rock outcrops, and non-natural substrates capable of supporting BUOW, no BUOW or BUOW sign was observed at the entrance or adjacent to these burrows within the study area. Despite systematic searches of the project site and 150-meter buffer area, no BUOW or evidence (i.e., including scat, pellets, feathers, tracks, and prey remains) were found which suggest recent or historical use of the study area by BUOW. Therefore, it can be concluded that BUOW are not currently present within the study area and will not be impacted as a result of this project.
- However, because the project area is located within the Western Riverside County MSHCP burrowing owl survey area, it is recommended that a preconstruction survey be performed prior to the commencement of project activities.

Nesting Birds

- It is recommended that vegetation removal be conducted during the non-nesting season for migratory birds to avoid direct impacts. The nesting season is between February 1 and September 15.
- If vegetation removal will occur during the migratory bird nesting season, between February 1 and September 15, it is recommended that pre-construction nesting bird surveys be performed within three days prior to vegetation removal.
- If active nests are found during nesting bird surveys, they shall be flagged, and a 200-foot buffer shall be fenced around the nests.
- A biological monitor shall visit the site once a week during ground disturbing activities to ensure all fencing is in place and no sensitive species are being impacted.

7.0 Certification

I hereby certify that the statements furnished above and in the attached exhibits present the 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.



Date 06/06/19 Signed _____

PROJECT MANAGER

Fieldwork Performed By:

Juan Jose Hernandez

PRINCIPAL BIOLOGIST

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FIGURES



Figure 1
 Location Map
 APNs 439-030-009 and 439-030-010
 Riverside County, California

Legend



Project Site Boundary





Figure 2
 Vicinity Map
 APNs 439-030-009 and 439-030-010
 Riverside County, California

Legend



Project Site Boundary





Figure 4
 Habitat Map
 APNs 439-030-009 and 439-030-010
 Riverside County, California

Legend



Project Site Boundary

26.22 acres Ruderal/Disturbed Habitat



APPENDIX A

Appendix A Species List

Plant List

<i>Ambrosia psilostachya</i>	Western ragweed
<i>Avena sp.</i>	Oats
<i>Brassica nigra</i>	Black mustard
<i>Brassica tournefortii</i>	Common mustard
<i>Bromis diandrus</i>	Ripgut brome
<i>Bromus sp.</i>	Bromus
<i>Bromis madritensis</i>	Foxtail chess
<i>Erodium sp</i>	Filaree
<i>Helianthus petiolaris</i>	Sunflower
<i>Heterpthea grandiflora</i>	Telegraph weed
<i>Hirschfeldia incana</i>	Mustard
<i>Hordeum sp</i>	Barley
<i>Lupinus succulentus</i>	Arroyo lupine
<i>Marrubium vulgare</i>	Horehound
<i>Nicotina glauca</i>	Tree tobacco
<i>Ricinus communis</i>	Castor bean
<i>Salsola tragus</i>	Russian Thistle
<i>Sisymbrium irio</i>	London rocket

Animal List

<i>Accipiter striatus</i>	Cooper's hawk
<i>Buteo jamaicensis</i>	Red-tailed Hawk
<i>Calypte anna</i>	Anna's hummingbird
<i>Canis latrans</i>	Coyote
<i>Carpodacus mexicanus</i>	House finch
<i>Corvus corax</i>	Raven
<i>Corvus brachyrhynchos</i>	Crow
<i>Melospiza melodia</i>	Song sparrow
<i>Mimus polyglottos</i>	Mocking bird
<i>Passer domesticus</i>	House Sparrow
<i>Pipilo crissalis</i>	California towhee
<i>Procyon lotor</i>	Northern racoon
<i>Sayornis saya</i>	Say's phoebe
<i>Sceloporus occidentalis</i>	Western fence lizard
<i>Spermophilus beecheyi</i>	California ground squirrel
<i>Streptopelia decaocto</i>	Euroasian collard dove
<i>Sturnella neglecta</i>	Western meadowlark
<i>Sturnus vulgaris</i>	European starling
<i>Sylvilagus audubonii</i>	Desert cottontail
<i>Thomomys bottae</i>	Botha's pocket gopher
<i>Tyrannus verticalis</i>	Western kingbird
<i>Zenaida macroura</i>	Mourning dove

APPENDIX B

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Accipiter cooperii	Cooper's hawk	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Cismontane woodland Riparian forest Riparian woodland Upper montane coniferous forest	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	No habitat for this species. Not present.
Agelaius tricolor	tricolored blackbird	None	Candidate Endangered	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	Freshwater marsh Marsh & swamp Swamp Wetland	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	No habitat for this species. Not present.
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	None	None	CDFW_WL-Watch List	Chaparral Coastal scrub	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass and forb patches.	No habitat for this species. Not present.
Anaxyrus californicus	arroyo toad	Endangered	None	CDFW_SSC-Species of Special Concern IUCN_EN-Endangered	Desert wash Riparian scrub Riparian woodland South coast flowing waters South coast standing waters	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	No habitat for this species. Not present.
Anniella stebbinsi	southern California legless lizard	None	None	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	Broadleaved upland forest Chaparral Coastal dunes Coastal scrub	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.	Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Antrozous pallidus</i>	pallid bat	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive WBWG_H-High Priority	Chaparral Coastal scrub Desert wash Great Basin grassland Great Basin scrub Mojavean desert scrub Riparian woodland Sonoran desert scrub Upper montane coniferous forest Valley & foothill grassland	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting.	Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	No habitat for this species. Not present.
<i>Aquila chrysaetos</i>	golden eagle	None	None	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected CDFW_WL-Watch List IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest Cismontane woodland Coastal prairie Great Basin grassland Great Basin scrub Lower montane coniferous forest Pinon & juniper woodlands Upper montane coniferous forest Valley & foothill grassland	Rolling foothills, mountain areas, sage-juniper flats, and desert.	Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	No habitat for this species. Not present.
<i>Arizona elegans occidentalis</i>	California glossy snake	None	None	CDFW_SSC-Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	No habitat for this species. Not present.
<i>Artemisiospiza belli belli</i>	Bell's sage sparrow	None	None	CDFW_WL-Watch List USFWS_BCC-Birds of Conservation Concern	Chaparral Coastal scrub	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	No habitat for this species. Not present.
<i>Aspidoscelis hyperythra</i>	orange-throated whiptail	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern USFS_S-Sensitive	Chaparral Cismontane woodland Coastal scrub	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Aspidoscelis tigris stejnegeri</i>	coastal whiptail	None	None	CDFW_SSC-Species of Special Concern		Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland & riparian areas.	Ground may be firm soil, sandy, or rocky.	Habitat is present for this species. Potential to be present.
<i>Athene cunicularia</i>	burrowing owl	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Coastal prairie Coastal scrub Great Basin grassland Great Basin scrub Mojavean desert scrub Sonoran desert scrub Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Habitat is present for this species. Potential to be present.
<i>Bombus crotchii</i>	Crotch bumble bee	None	None			Coastal California east to the Sierra-Cascade crest and south into Mexico.	Food plant genera include <i>Antirrhinum</i> , <i>Phacelia</i> , <i>Clarkia</i> , <i>Dendromecon</i> , <i>Eschscholzia</i> , and <i>Eriogonum</i> .	No habitat for this species. Not present.
<i>Branchinecta lynchi</i>	vernal pool fairy shrimp	Threatened	None	IUCN_VU-Vulnerable	Valley & foothill grassland Vernal pool Wetland	Endemic to the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains, in astatic rain-filled pools.	Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	No habitat for this species. Not present.
<i>Buteo regalis</i>	ferruginous hawk	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Great Basin grassland Great Basin scrub Pinon & juniper woodlands Valley & foothill grassland	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats.	Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	No habitat for this species. Not present.
<i>Campylorhynchus brunneicapillus sandiegensis</i>	coastal cactus wren	None	None	CDFW_SSC-Species of Special Concern USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	Coastal scrub	Southern California coastal sage scrub.	Wrens require tall opuntia cactus for nesting and roosting.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Chaetodipus californicus femoralis	Dulzura pocket mouse	None	None	CDFW_SSC-Species of Special Concern	Chaparral Coastal scrub Valley & foothill grassland	Variety of habitats including coastal scrub, chaparral & grassland in San Diego County.	Attracted to grass-chaparral edges.	No habitat for this species. Not present.
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	None	None	CDFW_SSC-Species of Special Concern	Chaparral Coastal scrub	Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	No habitat for this species. Not present.
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	None	None	CDFW_SSC-Species of Special Concern	Desert wash Pinon & juniper woodlands Sonoran desert scrub	Desert border areas in eastern San Diego County in desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	No habitat for this species. Not present.
Charina umbratica	southern rubber boa	None	Threatened	USFS_S-Sensitive	Meadow & seep Riparian forest Riparian woodland Upper montane coniferous forest Wetland	Known from the San Bernardino and San Jacinto mtns; found in a variety of montane forest habitats. Snakes resembling C. umbratica reported from Mt. Pinos and Tehachapi mtns group with C. bottae based on mtDNA. Further research needed.	Found in vicinity of streams or wet meadows; requires loose, moist soil for burrowing; seeks cover in rotting logs, rock outcrops, and under surface litter.	No habitat for this species. Not present.
Circus hudsonius	northern harrier	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Coastal scrub Great Basin grassland Marsh & swamp Riparian scrub Valley & foothill grassland Wetland	Coastal salt & freshwater marsh. Nest and forage in grasslands, from salt grass in desert sink to mountain cienagas.	Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	No habitat for this species. Not present.
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Threatened	Endangered	BLM_S-Sensitive NABCI_RWL-Red Watch List USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	No habitat for this species. Not present.
Coleonyx variegatus abbotti	San Diego banded gecko	None	None	CDFW_SSC-Species of Special Concern	Chaparral Coastal scrub	Coastal & cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Corynorhinus townsendii	Townsend's big-eared bat	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive WBWG_H-High Priority	Broadleaved upland forest Chaparral Chenopod scrub Great Basin grassland Great Basin scrub Joshua tree woodland Lower montane coniferous forest Meadow & seep Mojavean desert scrub Riparian forest Riparian woodland Sonoran desert scrub Sonoran thorn woodland Upper montane coniferous forest Valley & foothill grassland	Throughout California in a wide variety of habitats. Most common in mesic sites.	Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	No habitat for this species. Not present.
Crotalus ruber	red-diamond rattlesnake	None	None	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	Chaparral Mojavean desert scrub Sonoran desert scrub	Chaparral, woodland, grassland, & desert areas from coastal San Diego County to the eastern slopes of the mountains.	Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	No habitat for this species. Not present.
Cypseloides niger	black swift	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern NABCI_YWL-Yellow Watch List USFWS_BCC-Birds of Conservation Concern		Coastal belt of Santa Cruz and Monterey counties; central & southern Sierra Nevada; San Bernardino & San Jacinto mountains.	Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely.	No habitat for this species. Not present.
Dipodomys merriami parvus	San Bernardino kangaroo rat	Endangered	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	No habitat for this species. Not present.
Dipodomys stephensi	Stephens' kangaroo rat	Endangered	Threatened	IUCN_EN-Endangered	Coastal scrub Valley & foothill grassland	Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover.	Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Elanus leucurus</i>	white-tailed kite	None	None	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern	Cismontane woodland Marsh & swamp Riparian woodland Valley & foothill grassland Wetland	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland.	Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	No habitat for this species. Not present.
<i>Empidonax traillii extimus</i>	southwestern willow flycatcher	Endangered	Endangered	NABCI_RWL-Red Watch List	Riparian woodland	Riparian woodlands in Southern California.		No habitat for this species. Not present.
<i>Eremophila alpestris actia</i>	California horned lark	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Marine intertidal & splash zone communities Meadow & seep	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills.	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Habitat is present for this species. Potential to be present.
<i>Euphydryas editha quino</i>	quino checkerspot butterfly	Endangered	None	XERCES_CI-Critically Imperiled	Chaparral Coastal scrub	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties.	Hills and mesas near the coast. Need high densities of food plants <i>Plantago erecta</i> , <i>P. insularis</i> , and <i>Orthocarpus purpureus</i> .	No habitat for this species. Not present.
<i>Icteria virens</i>	yellow-breasted chat	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Riparian forest Riparian scrub Riparian woodland	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	No habitat for this species. Not present.
<i>Lampropeltis zonata (parvirubra)</i>	California mountain kingsnake (San Bernardino population)	None	None	BLM_S-Sensitive CDFW_WL-Watch List IUCN_LC-Least Concern USFS_S-Sensitive	Chaparral Lower montane coniferous forest Talus slope	Bigcone spruce & chaparral at lower elevations. Black oak, incense cedar, Jeffrey pine & ponderosa pine at higher elevations.	Well-lit canyons with rocky outcrops or rocky talus.	No habitat for this species. Not present.
<i>Lanius ludovicianus</i>	loggerhead shrike	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest Desert wash Joshua tree woodland Mojavean desert scrub Pinon & juniper woodlands Riparian woodland Sonoran desert scrub	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub & washes.	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Lasiurus xanthinus	western yellow bat	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern WBWG_H-High Priority	Desert wash	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	No habitat for this species. Not present.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	No habitat for this species. Not present.
Neotoma lepida intermedia	San Diego desert woodrat	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	No habitat for this species. Not present.
Onychomys torridus ramona	southern grasshopper mouse	None	None	CDFW_SSC-Species of Special Concern	Chenopod scrub	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover.	Feeds almost exclusively on arthropods, especially scorpions and orthopteran insects.	No habitat for this species. Not present.
Perognathus longimembris brevinasus	Los Angeles pocket mouse	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	Habitat is present for this species. Potential to be present.
Phrynosoma blainvillii	coast horned lizard	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Chaparral Cismontane woodland Coastal bluff scrub Coastal scrub Desert wash Pinon & juniper woodlands Riparian scrub Riparian woodland Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Habitat is present for this species. Potential to be present.
Plegadis chihi	white-faced ibis	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Marsh & swamp Wetland	Shallow freshwater marsh.	Dense tule thickets for nesting, interspersed with areas of shallow water for foraging.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	CDFW_SSC-Species of Special Concern NABCI_YWL-Yellow Watch List	Coastal bluff scrub Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	No habitat for this species. Not present.
<i>Progne subis</i>	purple martin	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Broadleaved upland forest Lower montane coniferous forest	Inhabits woodlands, low elevation coniferous forest of Douglas-fir, ponderosa pine, and Monterey pine.	Nests in old woodpecker cavities mostly; also in human-made structures. Nest often located in tall, isolated tree/snag.	No habitat for this species. Not present.
<i>Rana muscosa</i>	southern mountain yellow-legged frog	Endangered	Endangered	CDFW_WL-Watch List IUCN_EN-Endangered USFS_S-Sensitive	Aquatic	Federal listing refers to populations in the San Gabriel, San Jacinto and San Bernardino mountains (southern DPS). Northern DPS was determined to warrant listing as endangered, Apr 2014, effective Jun 30, 2014.	Always encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development.	No habitat for this species. Not present.
<i>Setophaga petechia</i>	yellow warbler	None	None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation Concern	Riparian forest Riparian scrub Riparian woodland	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada.	Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	No habitat for this species. Not present.
<i>Socalchemmis icenoglei</i>	Icenogle's socialchemmis spider	None	None		Coastal scrub	Known only from the type locality in the vicinity of Winchester, Riverside County.		No habitat for this species. Not present.
<i>Spea hammondi</i>	western spadefoot	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	No habitat for this species. Not present.
<i>Stenopelmatus cahuilensis</i>	Coachella Valley jerusalem cricket	None	None	IUCN_VU-Vulnerable	Desert dunes	Inhabits a small segment of the sand and dune areas of the Coachella Valley, in the vicinity of Palm Springs.	Found in the large, undulating dunes piled up at the north base of Mt San Jacinto.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Streptocephalus woottoni	Riverside fairy shrimp	Endangered	None	IUCN_EN-Endangered	Coastal scrub Valley & foothill grassland Vernal pool Wetland	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub.	Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	No habitat for this species. Not present.
Taxidea taxus	American badger	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Alkali marsh Alkali playa Alpine Alpine dwarf scrub Bog & fen Brackish marsh Broadleaved upland forest Chaparral Chenopod scrub Cismontane woodland Closed-cone coniferous forest Coastal bluff scrub Coastal dunes Coastal prairie Coastal scrub Desert dunes Desert wash Freshwater marsh Great Basin grassland Great Basin scrub Interior dunes lone formation Joshua tree woodland Limestone Lower montane coniferous forest Marsh & swamp Meadow & seep Mojavean desert scrub Montane dwarf scrub North coast coniferous forest Oldgrowth Pavement plain Redwood Riparian forest	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	No habitat for this species. Not present.
Toxostoma lecontei	Le Conte's thrasher	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	Desert wash Mojavean desert scrub Sonoran desert scrub	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats.	Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Vireo bellii pusillus	least Bell's vireo	Endangered	Endangered	IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List	Riparian forest Riparian scrub Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	No habitat for this species. Not present.
Xanthocephalus xanthocephalus	yellow-headed blackbird	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Marsh & swamp Wetland	Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds.	Nests only where large insects such as Odonata are abundant, nesting timed with maximum emergence of aquatic insects.	No habitat for this species. Not present.
Xerospermophilus tereticaudus chlorus	Palm Springs round-tailed ground squirrel	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern	Chenopod scrub Sonoran desert scrub	Restricted to the Coachella Valley. Prefers desert succulent scrub, desert wash, desert scrub, alkali scrub, and levees.	Prefers open, flat, grassy areas in fine-textured, sandy soil. Density correlated with winter rainfall.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Rare Plant Rank	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand-verbena	None	None	1B.1	BLM_S-Sensitive USFS_S-Sensitive	Chaparral Coastal scrub Desert dunes	Chaparral, coastal scrub, desert dunes.	Sandy areas. -60-1570 m.	No habitat for this species. Not present.
<i>Allium marvinii</i>	Yucaipa onion	None	None	1B.2	USFS_S-Sensitive	Chaparral	Chaparral.	In openings on clay soils. 850-1070 m.	No habitat for this species. Not present.
<i>Allium munzii</i>	Munz's onion	Endangered	Threatened	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral Cismontane woodland Coastal scrub Pinon & juniper woodlands Valley & foothill grassland	Chaparral, coastal scrub, cismontane woodland, pinyon and juniper woodland, valley and foothill grassland.	Heavy clay soils; grows in grasslands & openings within shrublands or woodlands. 375-1040 m.	No habitat for this species. Not present.
<i>Astragalus lentiginosus</i> var. <i>coachellae</i>	Coachella Valley milk-vetch	Endangered	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden SB_USDA-US Dept of Agriculture	Desert dunes Sonoran desert scrub	Sonoran desert scrub, desert dunes.	Sandy flats, washes, outwash fans, sometimes on dunes. 35-695 m.	No habitat for this species. Not present.
<i>Astragalus pachypus</i> var. <i>jaegeri</i>	Jaeger's milk-vetch	None	None	1B.1	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland.	Dry ridges and valleys and open sandy slopes; often in grassland and oak-chaparral. 365-1040 m.	No habitat for this species. Not present.
<i>Atriplex coronata</i> var. <i>notatior</i>	San Jacinto Valley crownscale	Endangered	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa Valley & foothill grassland Vernal pool Wetland	Playas, valley and foothill grassland, vernal pools.	Alkaline areas in the San Jacinto River Valley. 35-460 m.	No habitat for this species. Not present.
<i>Atriplex parishii</i>	Parish's brittlescale	None	None	1B.1	USFS_S-Sensitive	Alkali playa Chenopod scrub Meadow & seep Vernal pool Wetland	Vernal pools, chenopod scrub, playas.	Usually on drying alkali flats with fine soils. 4-1420 m.	No habitat for this species. Not present.
<i>Atriplex serenana</i> var. <i>davidsonii</i>	Davidson's saltscale	None	None	1B.2		Coastal bluff scrub Coastal scrub	Coastal bluff scrub, coastal scrub.	Alkaline soil. 0-480 m.	No habitat for this species. Not present.
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	Threatened	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland	Chaparral (openings), cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools.	Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Occurs in openings on clay soils. 15-1030 m.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Rare Plant Rank	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Calochortus palmeri var. munzii	San Jacinto mariposa-lily	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Chaparral Lower montane coniferous forest Meadow & seep	Lower montane coniferous forest, chaparral, meadows and seeps.	Seen in open Jeffrey pine forest as well as in chaparral. 940-1815 m.	No habitat for this species. Not present.
Calochortus palmeri var. palmeri	Palmer's mariposa-lily	None	None	1B.2	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Chaparral Lower montane coniferous forest Meadow & seep	Meadows and seeps, chaparral, lower montane coniferous forest.	Vernally moist places in yellow-pine forest, chaparral. 195-2530 m.	No habitat for this species. Not present.
Calochortus plummerae	Plummer's mariposa-lily	None	None	4.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral Cismontane woodland Coastal scrub Lower montane coniferous forest Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	No habitat for this species. Not present.
Calochortus weedii var. intermedius	intermediate mariposa-lily	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Chaparral Coastal scrub Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland.	Dry, rocky calcareous slopes and rock outcrops. 60-1575 m.	No habitat for this species. Not present.
Caulanthus simulans	Payson's jewelflower	None	None	4.2	USFS_S-Sensitive	Chaparral Coastal scrub	Chaparral, coastal scrub.	Frequently in burned areas, or in disturbed sites such as streambeds; also on rocky, steep slopes. Sandy, granitic soils. 90-2200 m.	No habitat for this species. Not present.
Centromadia pungens ssp. laevis	smooth tarplant	None	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa Chenopod scrub Meadow & seep Riparian woodland Valley & foothill grassland Wetland	Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland.	Alkali meadow, alkali scrub; also in disturbed places. 5-1170 m.	No habitat for this species. Not present.
Chorizanthe parryi var. parryi	Parry's spineflower	None	None	1B.1	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland	Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Rare Plant Rank	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Chorizanthe polygonoides</i> var. <i>longispina</i>	long-spined spineflower	None	None	1B.2	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral Coastal scrub Meadow & seep Ultramafic Valley & foothill grassland Vernal pool	Chaparral, coastal scrub, meadows and seeps, valley and foothill grassland, vernal pools.	Gabbroic clay. 30-1630 m.	No habitat for this species. Not present.
<i>Chorizanthe xanti</i> var. <i>leucotheca</i>	white-bracted spineflower	None	None	1B.2	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden SB_USDA-US Dept of Agriculture USFS_S-Sensitive	Coastal scrub Mojavean desert scrub Pinon & juniper woodlands	Mojavean desert scrub, pinyon and juniper woodland, coastal scrub (alluvial fans).	Sandy or gravelly places. 365-1830 m.	No habitat for this species. Not present.
<i>Deinandra mohavensis</i>	Mojave tarplant	None	Endangered	1B.3	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Chaparral Coastal scrub Riparian scrub	Riparian scrub, coastal scrub, chaparral.	Low sand bars in river bed; mostly in riparian areas or in ephemeral grassy areas. 640-1600 m.	No habitat for this species. Not present.
<i>Dodecahema leptoceras</i>	slender-horned spineflower	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include <i>Encelia</i> , <i>Dalea</i> , <i>Lepidospartum</i> , etc. Sandy soils. 200-765 m.	No habitat for this species. Not present.
<i>Galium angustifolium</i> ssp. <i>jacinticum</i>	San Jacinto Mountains bedstraw	None	None	1B.3	USFS_S-Sensitive	Lower montane coniferous forest	Lower montane coniferous forest.	Open mixed forest. 1190-2440 m.	No habitat for this species. Not present.
<i>Galium californicum</i> ssp. <i>primum</i>	Alvin Meadow bedstraw	None	None	1B.2	BLM_S-Sensitive USFS_S-Sensitive	Chaparral Lower montane coniferous forest	Chaparral, lower montane coniferous forest.	Grows in shade of trees and shrubs at the lower edge of the pine belt, in pine forest-chaparral ecotone. Granitic, sandy soils. 1460-1830 m.	No habitat for this species. Not present.
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia	None	None	1B.1	USFS_S-Sensitive	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Rare Plant Rank	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Imperata brevifolia</i>	California satintail	None	None	2B.1	SB_SBBG-Santa Barbara Botanic Garden USFS_S-Sensitive	Chaparral Coastal scrub Meadow & seep Mojavean desert scrub Riparian scrub Wetland	Coastal scrub, chaparral, riparian scrub, mojavean desert scrub, meadows and seeps (alkali), riparian scrub.	Mesic sites, alkali seeps, riparian areas. 3-1495 m.	No habitat for this species. Not present.
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's goldfields	None	None	1B.1	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa Marsh & swamp Salt marsh Vernal pool Wetland	Coastal salt marshes, playas, vernal pools.	Usually found on alkaline soils in playas, sinks, and grasslands. 1-1375 m.	No habitat for this species. Not present.
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper-grass	None	None	4.3		Chaparral Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4-1435 m.	No habitat for this species. Not present.
<i>Lilium parryi</i>	lemon lily	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Lower montane coniferous forest Meadow & seep Riparian forest Upper montane coniferous forest Wetland	Lower montane coniferous forest, meadows and seeps, riparian forest, upper montane coniferous forest.	Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows & seeps. 625-2930 m.	No habitat for this species. Not present.
<i>Mentzelia tricuspis</i>	spiny-hair blazing star	None	None	2B.1		Mojavean desert scrub	Mojavean desert scrub.	Sandy or gravelly slopes and washes. 150-1280 m.	No habitat for this species. Not present.
<i>Monardella nana</i> ssp. <i>leptosiphon</i>	San Felipe monardella	None	None	1B.2	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden USFS_S-Sensitive	Chaparral Lower montane coniferous forest	Chaparral, lower montane coniferous forest.	Sometimes in openings and fuelbreaks or in the understory of forest or chaparral. 850-2425 m.	No habitat for this species. Not present.
<i>Myosurus minimus</i> ssp. <i>apus</i>	little mousetail	None	None	3.1		Valley & foothill grassland Vernal pool Wetland	Vernal pools, valley and foothill grassland.	Alkaline soils. 20-640 m.	No habitat for this species. Not present.
<i>Nama stenocarpa</i>	mud nama	None	None	2B.2		Marsh & swamp Wetland	Marshes and swamps.	Lake shores, river banks, intermittently wet areas. 5-500 m.	No habitat for this species. Not present.
<i>Navarretia fossalis</i>	spreading navarretia	Threatened	None	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa Chenopod scrub Marsh & swamp Vernal pool Wetland	Vernal pools, chenopod scrub, marshes and swamps, playas.	San Diego hardpan and San Diego claypan vernal pools; in swales & vernal pools, often surrounded by other habitat types. 15-850 m.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Rare Plant Rank	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
Orcuttia californica	California Orcutt grass	Endangered	Endangered	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Vernal pool Wetland	Vernal pools.	10-660 m.	No habitat for this species. Not present.
Penstemon californicus	California beardtongue	None	None	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden SB_USDA-US Dept of Agriculture USFS_S-Sensitive	Chaparral Lower montane coniferous forest Pinon & juniper woodlands	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.	Stony slopes and shrubby openings; sandy or granitic soils. 1170-2300 m.	No habitat for this species. Not present.
Petalonyx linearis	narrow-leaf sandpaper-plant	None	None	2B.3		Mojavean desert scrub Sonoran desert scrub	Mojavean desert scrub, Sonoran desert scrub.	Sandy or rocky canyons. -30-1090 m.	No habitat for this species. Not present.
Pseudognaphalium leucocephalum	white rabbit-tobacco	None	None	2B.2		Chaparral Cismontane woodland Coastal scrub Riparian woodland	Riparian woodland, cismontane woodland, coastal scrub, chaparral.	Sandy, gravelly sites. 35-515 m.	No habitat for this species. Not present.
Saltugilia latimeri	Latimer's woodland-gilia	None	None	1B.2	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden SB_USDA-US Dept of Agriculture USFS_S-Sensitive	Chaparral Limestone Mojavean desert scrub Pinon & juniper woodlands	Chaparral, Mojavean desert scrub, pinyon and juniper woodland.	Rocky or sandy substrate; sometimes in washes, sometimes limestone. 120-2200 m.	No habitat for this species. Not present.
Scutellaria bolanderi ssp. austromontana	southern mountains skullcap	None	None	1B.2	USFS_S-Sensitive	Chaparral Cismontane woodland Lower montane coniferous forest	Chaparral, cismontane woodland, lower montane coniferous forest.	In gravelly soils on streambanks or in mesic sites in oak or pine woodland. 425-2000 m.	No habitat for this species. Not present.
Sidalcea neomexicana	salt spring checkerbloom	None	None	2B.2	USFS_S-Sensitive	Alkali playa Chaparral Coastal scrub Lower montane coniferous forest Mojavean desert scrub Wetland	Playas, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.	Alkali springs and marshes. 3-2380 m.	No habitat for this species. Not present.
Streptanthus bernardinus	Laguna Mountains jewelflower	None	None	4.3	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral Lower montane coniferous forest Upper montane coniferous forest	Chaparral, lower montane coniferous forest.	Clay or decomposed granite soils; sometimes in disturbed areas such as streambanks or roadcuts. 1440-2500 m.	No habitat for this species. Not present.

Scientific Name	Common Name	Federal Listing	State Listing	Rare Plant Rank	Other Status	Habitat	General Habitat	Micro Habitat	Presence/Absence
<i>Symphotrichum defoliatum</i>	San Bernardino aster	None	None	1B.2	BLM_S-Sensitive USFS_S-Sensitive	Cismontane woodland Coastal scrub Lower montane coniferous forest Marsh & swamp Meadow & seep Valley & foothill grassland	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland.	Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 3-2045 m.	No habitat for this species. Not present.
<i>Tortula californica</i>	California screw moss	None	None	1B.2	BLM_S-Sensitive	Chenopod scrub Valley & foothill grassland	Chenopod scrub, valley and foothill grassland.	Moss growing on sandy soil. 10-1460 m.	No habitat for this species. Not present.
<i>Trichocoronis wrightii</i> var. <i>wrightii</i>	Wright's trichocoronis	None	None	2B.1		Marsh & swamp Meadow & seep Riparian forest Vernal pool Wetland	Marshes and swamps, riparian forest, meadows and seeps, vernal pools.	Mud flats of vernal lakes, drying river beds, alkali meadows. 5-435 m.	No habitat for this species. Not present.
Canyon Live Oak Ravine Forest	Canyon Live Oak Ravine Forest	None	None			Riparian forest			Not present.
Desert Fan Palm Oasis Woodland	Desert Fan Palm Oasis Woodland	None	None			Riparian woodland			Not present.
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	None	None			Riparian forest			Not present.
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	None	None			Riparian forest			Not present.
Southern Mixed Riparian Forest	Southern Mixed Riparian Forest	None	None			Riparian forest			Not present.
Southern Riparian Scrub	Southern Riparian Scrub	None	None			Riparian scrub			Not present.
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	None	None			Riparian woodland			Not present.

APPENDIX C



Disturbed/ruderal habitat on the project site.



Disturbed/ruderal habitat on the project site.



Disturbed/ruderal habitat on the project site.



Disturbed/ruderal habitat with cement Drainage.



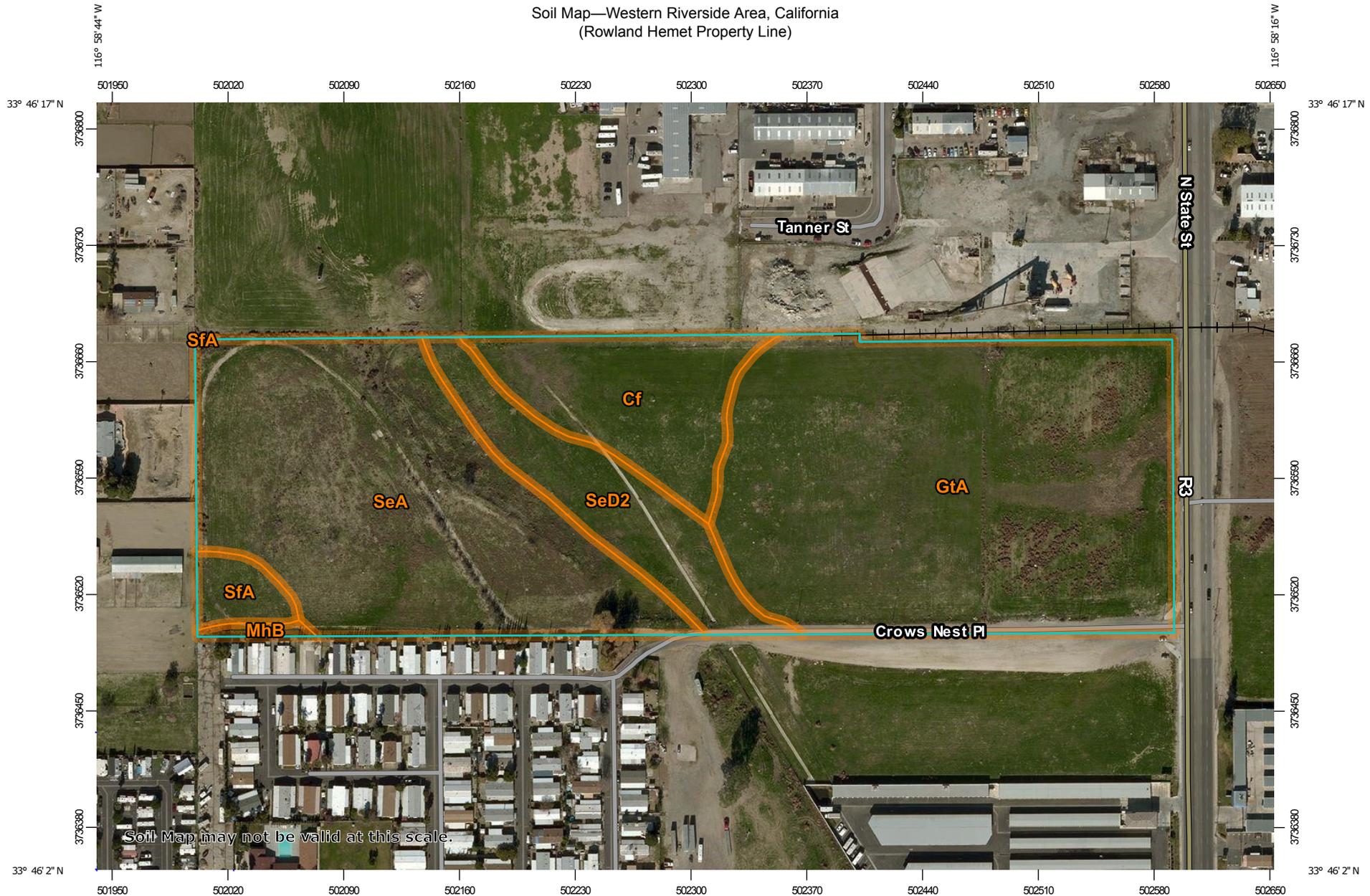
Disturbed/ruderal habitat on the project site with cement drainage.



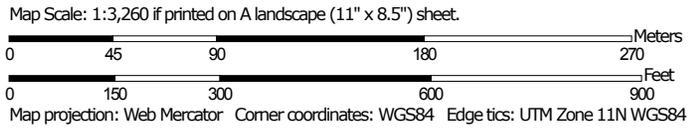
Disturbed/ruderal habitat on the project site.

APPENDIX D

Soil Map—Western Riverside Area, California
(Rowland Hemet Property Line)



Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Western Riverside Area, California
Survey Area Data: Version 11, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 5, 2015—Feb 4, 2015

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cf	Chino silt loam, drained, saline-alkali	2.7	10.3%
GtA	Grangeville fine sandy loam, drained, 0 to 2 percent slopes	11.7	44.7%
MhB	Metz loamy fine sand, sandy loam substratum, 0 to 5 percent slopes	0.1	0.5%
SeA	San Emigdio fine sandy loam, 0 to 2 percent slopes, occasional frost	8.7	33.2%
SeD2	San Emigdio fine sandy loam, 8 to 15 percent slopes, eroded	2.4	9.3%
SfA	San Emigdio fine sandy loam, deep, 0 to 2 percent slopes	0.5	2.1%
Totals for Area of Interest		26.2	100.0%