

Appendix C. General Biological Assessment



**GENERAL BIOLOGICAL ASSESSMENT
FOR THE
ACCESSOR'S PARCEL NUMBERS
0266-041-40 and 0266-041-22**

**CITY OF SAN BERNARDINO
SAN BERNARDINO COUNTY, CALIFORNIA**

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1.0 Introduction

Hernandez Environmental Services (HES) was contracted to prepare a general biological assessment (GBA) for the Industrial Way Logistics Facility project site. The project site consists of approximately 12.07 acres for Assessor's Parcel Numbers (APNs) 0266-041-22 and 0266-041-40, located in the city of San Bernardino, San Bernardino County, California.

1.1 Project Site Location

The approximate 12.07-acre project site is located south of the Interstate 215 and east of the intersection Palm Avenue and Cajon Boulevard. The project site consists of San Bernardino County APNs 0266-041-40 and 0266-041-22. Specifically, the project site is located within the Muscupiabe land grant, within in the *San Bernardino North* United States Geological Survey (USGS) 7.5' topographic quadrangle. The center point latitude and longitude for the project site are 34°11'13.7175" North and 117°21'44.1307" West (Figures 1 and 2).

1.2 Project Description

The project proposes the development of an approximately 52,160 square foot industrial development including terminal building, office building, and truck trailer parking stalls. In addition, the proposed project includes associated site access improvements, parking facilities, landscaping, and related infrastructure and utilities. Refer to Figure 3.

2.0 Methodology

2.1 Literature Review

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project site and surrounding areas. The *San Bernardino North 7.5'* USGS topographic quadrangle and eight surrounding quadrangles were used to identify sensitive species with the California Natural Diversity Data Base (CNDDB). Additional resources reviewed during the literature search included the United States 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.

2.2 Field Survey

On July 7, 2021, HES conducted a field survey of the project site. The ambient temperature at 8:00 a.m. was 75 degrees Fahrenheit, sunny, with winds ranging from zero to four miles per hour from the east. 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 site 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 site. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project site 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 site is located within the City of San Bernardino, San Bernardino County, California. The project site consists of disturbed and developed land. A palette yard exists on the eastern portion of the site and the western portion of the site appears to be continually disturbed for weed abatement purposes. The site is bordered by the Interstate 215 to the north, Cajon Boulevard and railroad tracks to the west, and industrial development to the east and south. The site is relatively flat with onsite elevations ranging from 1667 feet above mean sea-level (AMSL) to 1696 feet AMSL.

3.2 Soils

Two soil classifications have historically been mapped on the project site by the USDA Web Soil Survey (Appendix D). Onsite mapped soils are described in Table 1.

Table 1
Onsite Soil Types

Unit Name	Unit Symbol	Slope
Friant-Rock	Fr	0 percent slopes
Tujunga gravelly loamy sand	TvC	0 to 9 percent slopes

3.3 Plant and Habitat Communities

The project site contains three different habitat types: 6.85 acres of developed, 4.23 acres of ruderal, and 0.99 acre of disturbed areas (Figure 4).

Developed

The project site contains approximately 6.85-acre of developed areas. These areas consist of paved roads and a pallet yard with a large warehouse. The vegetation found in these areas was

predominantly ornamental trees and shrubs around the pallet yard. Plant species observed in the habitat type include pine trees (*Pinus* sp.), lemon scented eucalyptus (*Eucalyptus citriodora*), tamarisk pink (*Tamarix* sp.), deodar cedar (*Cedrus deodara*), and California buckwheat (*Eriogonum fasciculatum*).

Ruderal

The project site contains approximately 4.23 acres of ruderal habitat. These areas appear to be regularly disturbed for weed abatement purposes. This habitat type is dominated by non-native plant species with few native species. The dominant plant species found in these areas was short pod mustard (*Hirschfeldia incana*). Other plant species observed within this habitat type include telegraph weed (*Heterotheca grandiflora*), deer weed (*Acmispon glaber*), California croton (*Croton californicus*), doveweed (*Croton setigerus*) and California buckwheat (*Eriogonum fasciculatum*).

Disturbed

The project site contains approximately 0.99 acre of disturbed habitat. These areas have been previously graded and are covered with a fine gravel material. These areas contain litter and abandoned vehicles. The vegetation in these areas is sparse and predominantly non-native shortpod mustard.

3.4 Wildlife

General wildlife species documented on the project site or within the vicinity of the site include desert cottontail (*Sylvilagus audubonii*) and rock pigeon (*Columbidae livia*). The complete list of species observed is included in Appendix A.

3.5 Regional Connectivity/Wildlife Movement

Wildlife movement corridors can be local or regional in scale; their functions may vary temporally and spatially based on conditions and species present. Wildlife corridors represent areas where wildlife movement is concentrated due to natural or anthropogenic constraints. Local corridors provide access to resources such as food, water, and shelter. Animals use these corridors, which are often hillsides or riparian areas, to move between different habitats. Regional corridors provide these functions and link two or more large habitat areas. They provide avenues for wildlife dispersal, migration, and contact between otherwise distinct populations.

The project area was evaluated for its function as a wildlife corridor that species use to move between wildlife habitat zones. The project site consists of flat, developed, and disturbed land. Further, the project site is surrounded by urban development such as railroad tracks, busy roads, and industrial uses. No wildlife movement corridors were found to be present on the project site.

3.6 Sensitive Biological Resources

According to the CNDDDB, a total of 59 sensitive species of plants and 66 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. 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 13 plant species are listed as state and/or federal Threatened, Endangered, or Candidate species; are 1B.1 listed plants on the CNPS Rare Plant Inventory. No special-status plant species were detected on the site during the reconnaissance surveys and no special-status plant species are expected to occur on the site due to lack of suitable habitat. Based on current site conditions and continual anthropogenic disturbances, it was determined that the project site does not provide suitable habitat, and the 13 plant species are presumed absent. Below are descriptions of these species:

Marsh sandwort

Marsh sandwort (*Arenaria paludicola*) is a federally and state listed Endangered species and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found in freshwater marsh, wetland, and marsh and swamp habitats. No freshwater marsh, wetland, or marsh and swamp habitats occur on the site. No habitat for this species is present on the project site. **This species is not present.**

Horn's milk-vetch

Horn's milk-vetch is ranked 1B.1 in the CNPS Rare Plant inventory. Its habitats include alkali playa meadows, seeps, and wetlands. The project site consists of ruderal habitat, developed, and disturbed areas. No alkali playa meadows, seeps, or wetlands occur on the site. No habitat for this species is present on the project site. **This species is not present.**

Nevin's barberry

Nevin's barberry (*Berberis nevini*) is a federally and state Endangered species and is ranked 1B.1 in the CNPS Rare Plant inventory. It is typically found on steep, north facing slopes or in low grade sandy washes. Its habitat includes chaparral, cismontane woodland, coastal scrub, and riparian scrub. The project site consists of ruderal habitat, developed, and disturbed areas. No

slopes, sandy washes, chaparral, cismontane woodland, coastal scrub, or riparian scrub occur on the site. No habitat for this species is present on the project site. **This species is not present.**

Thread-leaved brodiaea

The thread-leaved brodiaea (*brodiaea filifolia*) is a federally Threatened, state Endangered and is ranked 1B.1 in the CNPS Rare Plant inventory. It is found in chaparral, cismontane woodlands, coastal sage scrub, valley and foothill grasslands, vernal pools and wetland. The project site consists of ruderal habitat, and developed and disturbed areas. No chaparral, cismontane woodland, coastal scrub, valley and foothill grasslands, vernal pools or wetlands occur on the site. No habitat for this species is present on the project site. **This species is not present.**

Smooth tarplant

Smooth tarplant (*Centromadia pungens ssp. laevis*) is ranked 1B.1 in the CNPS Rare Plant inventory. The species occurs in habitats that include alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, and valley and foothill grasslands. No alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, or valley and foothill grasslands occur on the site. No habitat for this species is present on the project site. **This species is not present.**

Salt marsh bird's-beak

Salt marsh bird's beak (*Chloropyron maritimum ssp. maritimum*) is a federally and state listed Endangered species and is ranked 1B.2 in the CNPS Rare Plant inventory. This species is limited to the higher zones of salt marsh habitat at elevations of less than ten meters. Its habitat includes coastal dunes, marsh and swamp, salt marsh, and wetland. The project site consists of ruderal habitat, and developed and disturbed areas. No coastal dunes, marsh and swamp, salt marsh, or wetlands occur on the site. No habitat for this species is present on the project site. **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. There is an occurrence recorded on CNDDDB of a parry's spineflower a mile north of the project site in an area that is now developed. The project site consists of ruderal habitat and developed and disturbed areas. The ruderal habitat on site appears to be frequently disturbed for weed abatement purposes. No coastal scrub, chaparral, cismontane woodland, or valley and foothill grasslands occur on the site. Habitat for this species is not present on the project site. **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 site. **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. Its habitat includes chaparral, cismontane woodland, and coastal scrub (alluvial fan sage scrub). The project site consists of ruderal habitat, and developed and disturbed areas. No chaparral, cismontane woodland, or coastal scrub occur on the site. No habitat for this species exists on the project site. **This species is not present.**

Santa Ana River woollystar

Santa Ana River woollystar (*Eriastrum densifolium ssp. sanctorum*) is a federally and state listed Endangered species and is ranked 1B.1 in the CNPS Rare Plant inventory. It is typically found in sandy soils on river floodplains or terraced fluvial deposits. Its habitat includes chaparral and coastal scrub. There is an occurrence of Santa Ana River woollystar recorded on CNDDDB approximately 1,296 feet north of the project site. However, the project site consists of ruderal habitat and developed and disturbed areas. No drainage features, chaparral or coastal scrub occur on the site. No habitat for this species is present on the project site. **This species is not present.**

Parish's daisy

Parish's daisy (*Erigeron parishii*) is a federally Threatened species and is ranked 1B.1 in the CNPS Rare Plant Inventory. This species is typically found on carbonate; limestone mountain slopes; often associated with drainages and sometimes on granite. Its habitat includes Mojavean desert scrub, pinyon and juniper woodland. The project site consists of ruderal habitat, and developed and disturbed areas. No habitat for this species exists on the project site. **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. The project site consists of ruderal habitat, and developed and disturbed areas. No chaparral, cismontane woodland, or coastal scrub occur on the site. No habitat for this species is present on the project site. **This species is not present.**

Gambel's water cress

Gambel's water cress (*Nasturtium gambelii*) is federally listed endangered species, a state listed threatened species, and is ranked 1B.1 in the CNPS Rare Plant inventory. It is found in freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, and wetland. The project site consists of ruderal habitat, and developed and disturbed areas. No brackish marsh, freshwater marsh, marsh and swamp, or wetlands occur on the site. No habitat for this species is present on the project site. **This species is not present.**

3.6.2 Sensitive Animal Resources

A total of 20 animal species are listed as state and/or federal Threatened, Endangered, Candidate will be reviewed in this section, as determined within Appendix B. Sensitive species which have a potential to occur will also be discussed in this section. All sensitive species within the San Bernardino North 7.5' USGS topographic quadrangle and eight surrounding quadrangles 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 state listed as candidate Endangered and listed by the CDFW as a species of special concern. The species occupies freshwater marshes with canopies of willows and other riparian trees. This species requires open accessible water and suitable foraging space. There is no habitat for this species on the project site. **The 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 site. **This species is not present.**

California glossy snake

California glossy snake (*Arizona elegans occidentalis*) is a CDFW Species of Special Concern. This species is 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. This species is found in a range of scrub and grassland habitats with loose or sandy soils. The project site consists of ruderal habitat, developed, and disturbed areas. The ruderal habitat appears to be frequently disturbed for weed abatement. Furthermore, the project site is separated from the

nearest occurrence of California glossy snake recorded on CNDDDB approximately 2,303 feet east of the project site by urbanization in the form of busy roads, the 215-Intersate, and industrial buildings. No suitable habitat for this species is present on the project site. **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 with sparse vegetation. It is also found in woodland and riparian areas. The project site consists of ruderal habitat and developed and disturbed areas. The ruderal habitat appears to be frequently disturbed for weed abatement. Furthermore, the project site is separated from the nearest occurrence of coastal whiptail recorded on CNDDDB approximately 1,276 feet west of the project site by urbanization in the form of railroad tracks, busy roads and industrial buildings. No suitable habitat for this species is present on the project site. **This species is not 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, Mojave 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. The project site is heavily disturbed and developed. The ruderal habitat appears to be frequently disturbed for weed abatement. The project site is surrounded by urbanization in the form of railroad tracks, busy roads and industrial buildings. Furthermore, The closest occurrence of burrowing owl recorded on CNDDDB is over four miles south of the project site. No suitable habitat for this species is present on the project site. **This species is not present.**

Crotch bumble bee

Crotch bumble bee (*Bombus crotchii*) is a state listed candidate Endangered species. This species typically lives in coastal California east to the Sierra Cascade crest and south into Mexico. Its food plant includes *Antirrhinum* sp., *Clarkia* sp., *Dendromecon* sp., *Eschscholzia* sp., and *Erigonum* sp. No habitat for this species is present on the project site. **This species is not present.**

Swainson's hawk

Swainson's hawk (*Buteo swainsoni*) is a state listed Threatened species. This species favors open grasslands for foraging but also occurs in agricultural settings. It relies on scattered stands of trees near agricultural fields and grasslands for nesting sites. Its habitats include great basin grassland, riparian forest, riparian woodland, and valley and foothill grassland. The project site does not contain suitable habitat for this species. **This species is not present.**

Santa Ana sucker

Santa Ana sucker (*Catostomus santaanae*) is a federally listed Threatened species. Its habitat includes aquatic and south coast flowing waters. This species prefers sand-rubble-boulder bottoms, cool and clear water, and algae. It is endemic to Los Angeles Basin south coastal streams. The project site does not contain suitable habitat for this species. **This species is not present**

Southern rubber boa

Southern-rubber boa (*Charina umbratica*) 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. The project site does not contain suitable habitat for this species. **This species is not present.**

Western yellow-billed cuckoo

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is federally listed Threatened, and state listed endangered species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape. It is found in riparian forest habitat. The project site does 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. Critical habitat for this species is located 0.35 mile to the west and 1 mile to the east. The site consists of developed and disturbed areas dominated by non-native plant species. San Bernardino Kangaroo rat prefers sparse scrub habitats such as alluvial scrub and coastal sage scrub habitats on gravelly and sandy soil adjoining river and stream terraces and on alluvial fans. No native scrub habitats are present on site. Furthermore, busy roads, railroad tracks, and industrial buildings separate the project site from critical habitat. The project site does 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 site does not contain suitable habitat for this species. **This species is not present.**

Southwestern willow flycatcher

Southwestern willow flycatcher (*Empidonax traillii extimus*) is on both the federal and state Endangered list. It is commonly found in riparian woodland habitats in southern California. The project site does not contain suitable habitat for this species. **This species is not 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 purpurescens*. The project site does not contain suitable habitat for this species. **This species is not present.**

Bald eagle

Bald eagle (*Haliaeetus leucocephalus*) is a state listed Endangered and CDFW Fully Protected Species. This species is found in lower montane coniferous forest and old-growth. They nest in large old-growth or tress with open branches, especially ponderosa pine. The project site does not contain suitable habitat for this species. **This species is not present.**

California black rail

California black rail (*Laterallus jamaicensis coturniculus*) is a state listed Threatened species and is a CDFW Fully Protected Species. It inhabits freshwater marshes, wet meadows, and shallow margins of saltwater marshes bordering larger bays. This species needs water depths of about one inch that do not fluctuate throughout the year and dense vegetation for nesting habitat. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, salt marsh, and wetland. The project site does not have suitable habitat for this species. **This species is not present**

Steelhead-southern California DPS

Steelhead-southern California DPS (*Oncorhynchus mykiss irideus pop. 10*) is a federally listed Endangered species. This species is likely to have greater physiological tolerances to warmer water and more variable conditions. Its habitats include aquatic and south coast flowing waters. The project site does not have suitable habitat for this species. **This species is not 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 site does not contain suitable habitat for this species. **This species is not present.**

California red-legged frog

California red-legged frog (*Rana draytonii*) is a federally listed Threatened species and a CDFW Species of Special Concern. Its habitat includes aquatic, artificial flowing waters, artificial standing waters, freshwater marsh, marsh and swamp, riparian forest, riparian scrub, riparian woodland, Sacramento and San Juaquin flowing and standing waters, and south coast. It requires 11 to 20 weeks for larval development and must have access to estivation habitat. It is most commonly found in lowlands and foothills, in or near permanent sources of deep water, with dense, shrubby, or emergent riparian vegetation. The project site does not contain 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 site does not contain suitable habitat for this species. **This species is not present.**

Delhi Sands flower-loving fly

Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*) is a federally listed Endangered species. It requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. It is found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside counties. This species is found in interior dune habitat. The project site does not have suitable habitat for this species. **This species is not present.**

Mohave Tui Chub

The Mohave tui chub (*Siphateles bicolor mohavensis*) is a federal and state listed Endangered species. It is found in aquatic, and artificial standing and flowing waters. This species is endemic to the Mojave River basin, adapted to alkline mineralized water. It needs deep pools, ponds, or slough-like areas and vegetation for spawning. There is no habitat for this species on the project site. **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. No suitable habitat for this species is present on the project site. **This species is not present**

3.7 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 site contains trees and shrubs that can be utilized by nesting birds and raptors during the nesting bird season of February 1 through September 15.

3.8 Jurisdictional Waters

The project site does not contain any drainage, riparian, or riverine features. There are no CDFW, United States Army Corps of Engineers (USACE), or Regional Water Quality Control Board (RWQCB) jurisdictional waters within the project site boundaries.

4.0 Project Impacts

4.1 Impacts to Habitats

Implementation of the proposed project will impact the entire 12.07-acre project site, including 6.85 acres of developed, 4.23 acres of ruderal, and 0.99 acre of disturbed areas (Figure 4).

4.2 Impacts to Sensitive Species

No sensitive species have the potential to occur on the project site. No impacts to sensitive species are expected.

4.3 Impacts to Nesting Birds

Potential impacts to nesting birds may occur if ground disturbing activities or vegetation removal occur during the bird nesting season of February 1 through September 15. Implementation of the measures identified in the Recommendations section (section 5) of this report will ensure that potential impacts to nesting birds are less than significant.

4.4 Impacts to Critical Habitat

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

4.5 Impacts to Wildlife Movement Corridors

No wildlife movement corridors were found to be present on the project site. No impacts are expected.

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 the City of San Bernardino's Municipal Code Chapter 15.34, Removal or Destruction of Trees. According to City Ordinance MC-1027, 9-09-98; and Ordinance MC-682, 11-09-89, it is unlawful to remove and/or destroy more than five (5) trees within thirty-six (36) months from a development site or parcel of property without a permit issued from the Development Services Department of the City of San Bernardino.

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

The Project would not be anticipated 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.

4.8 State and Federal Drainages

The project site does not contain any state or federal drainages, therefore no impacts to any jurisdictional drainages are expected.

5.0 Recommendations

Based upon the findings of this report, it is recommended that the following studies or surveys be performed as part of the project.

Nesting Birds

- It is recommended that vegetation removal be conducted outside of the nesting season for migratory birds to avoid direct impacts.
- If vegetation removal will occur during the migratory bird nesting season, between February 1 and September 15, pre-construction nesting bird surveys shall be performed within three days prior to vegetation removal.
- If active nests are found during nesting bird surveys, they shall be flagged. A 250-foot buffer shall be fenced around song bird nests and a 500-foot buffer shall be fenced around raptor nests.

6.0 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 11/03/2021

Signed _____

PROJECT MANAGER

Fieldwork Performed By:

Elizabeth Gonzalez

Associate Biologist

7.0 References

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FIGURES



Figure 1
 Location Map
 APNs 0266-041-22 and -40
 San Bernardino, California



Legend
 Project Location



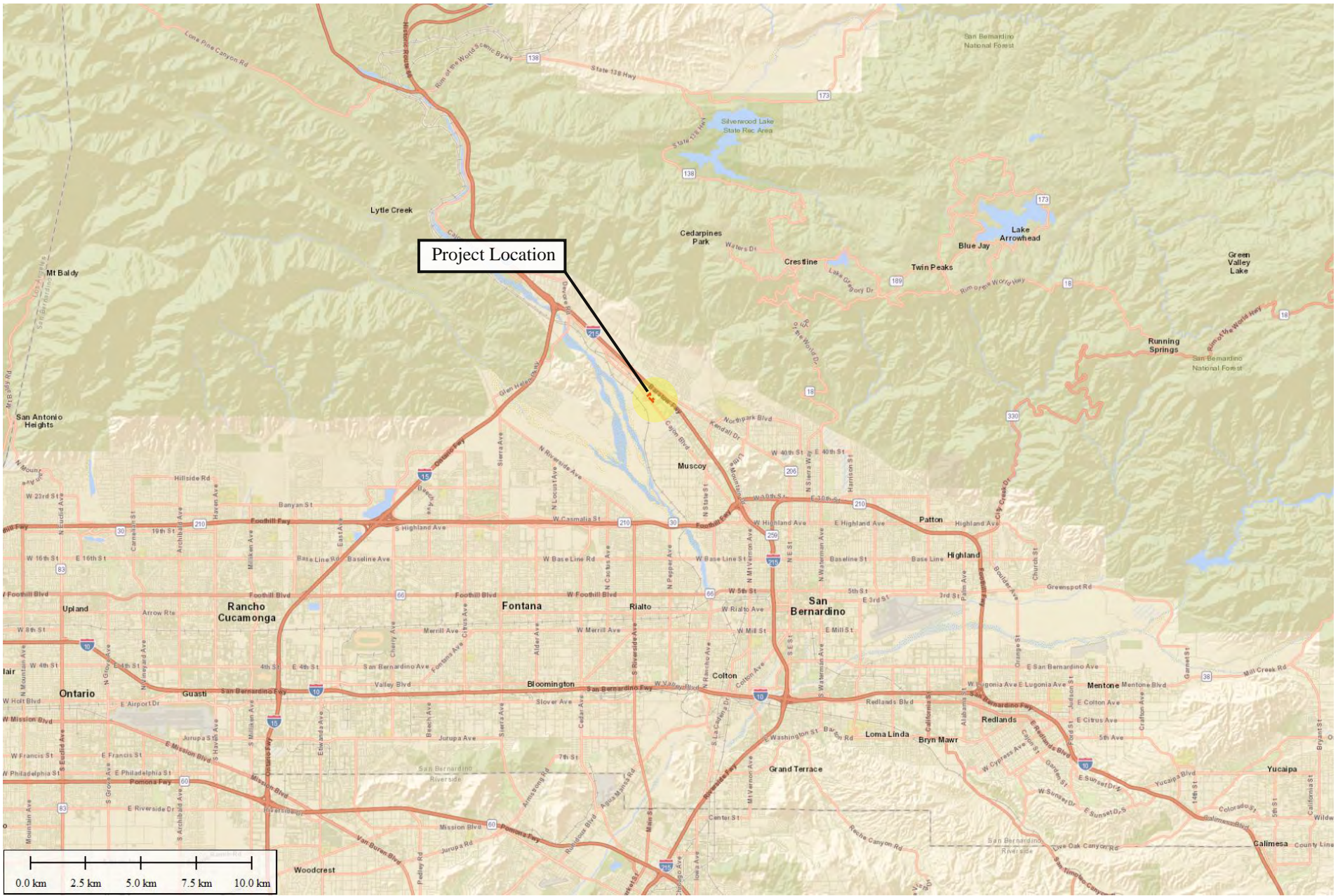



Figure 2
 Vicinity Map
 APNs 0266-041-22 and -40
 San Bernardino, California

Legend
 Project Location



SITE AREA		
Gross	482,152	11.07
Street Dedication	0	0.00
NET SITE AREA	482,152	11.07
BUILDING AREA		
Ground Floor Office	3,000	
Warehouse	46,160	
Total Building Footprint	49,160	
Mezzanine	3,000	
TOTAL BUILDING AREA	52,160	
COVERAGE (75% max)	10.2%	
FAR	10.8%	
PARKING REQUIRED		
Office		
0 - 2,000 sf	1/200	0
2,001 - 7,500 sf	1/250	24
Industrial / Warehousing		
0 - 3,000 sf	1/250	0
3,001 - 5,000 sf	1/500	0
5,001 - 10,000 sf	1/750	0
10,001 - 50,000 sf	1/1000	47
50,001 sf +	1/1250	0
TOTAL PARKING REQUIRED		71
PARKING PROVIDED		
Standard Stalls	9x19'	52
Parallel Stalls	9x23'	16
Electric Vehicle / Clean Air / Car Pool	9x19'	12
Total Stalls		80
PARKING RATIO		1.53/1000
Electric Vehicle Charging Stations		9
Tractor Charging Stations		4
DOCK DOORS		
GRADE DOORS		100
TRAILER STALLS		1
TOTAL DOCK DOORS		101
LANDSCAPE		
Paved Surface Area	%	Area (S.F.)
Required (15% of paved surface)	15.0%	42,929
Provided	15.1%	43,139

SITE INFORMATION

A.P.N.: 0266-041-40 AND 0266-041-22

LEGAL DESCRIPTION: REFER TO CIVIL

LAND USE / ZONING:
 EXISTING/PROPOSED GENERAL PLAN: SP SPECIFIC PLAN - UNIVERSITY DISTRICT
 EXISTING/PROPOSED ZONING: CG-COMMERCIAL GENERAL INDUSTRIAL HEAVY INDUSTRIAL 6TH WARD

UTILITIES:
 WATER: MUNICIPAL UTILITIES COMPANY
 SEWER: MUNICIPAL UTILITIES COMPANY
 GAS: SOUTHERN CALIFORNIA GAS COMPANY
 ELECTRIC: SOUTHERN CALIFORNIA EDISON
 PHONE: VERIZON AT&T
 T.V.: TIME WARNER CABLE, FRONTIER COMMUNICATIONS, DISH

SCHOOL DISTRICT:
 MOUNTAIN VIEW SCHOOL DISTRICT
 CREEK VIEW ELEMENTARY SCHOOL
 GRACE YOKLEY MIDDLE SCHOOL
 COLONY HIGH SCHOOL (UNDER CHAFFET JOINT UNION HIGH SCHOOL DISTRICT)

CODE ANALYSIS:
 2019 CBC CODE - WAREHOUSE
 BUILDING OCCUPANCY: B, S III-B
 CONSTRUCTION TYPE: YES
 FIRE SPRINKLERS (AUTOMATIC): YES
 STORIES: 1

ZONING ANALYSIS:
 MAX COVERAGE/FAR: 75%
 REG. LANDSCAPING: 15% OF PAVED SURFACE
 MAX. BLDG HEIGHT: NONE

PARKING/LOADING:
 STANDARD STALL: 9'x19' (2.5' STALL OVERHANG ALLOWED)
 COMPACT STALL: NOT ALLOWED
 MIN. AISLE: 24'; 30' FIRE DEPARTMENT ACCESS LANES

SITE PLAN & CITY NOTES

- NOTES:**
- THE PROPERTY IS WITHIN A SPECIFIC PLAN.
 - THIS AREA IS NOT SUBJECT TO LIQUEFACTION OR OTHER GEOLOGIC HAZARDS WITHIN A SPECIAL STUDIES ZONE.
 - THIS PROPERTY IS NOT SUBJECT TO OVERFLOW, INUNDATION, OR FLOOD HAZARD.
 - SUBSURFACE SEPTIC SEWAGE IS NOT INTENDED FOR THIS SITE.
 - THE PROPERTY DOES NOT CONTAIN ANY FLAMMABLE/COMBUSTIBLE MATERIALS OR WASTE.
 - THE PROPERTY'S WATER QUALITY FEATURES ARE SHOWN AS PART OF THE CIVIL PACKAGE.
 - LOADING SPACES WILL BE PAVED WITH CONCRETE.
 - SERVICE GATES WILL BE MANUALLY OPERATED W/ KNOX PAD LOCK.
 - SIGN PROGRAM WILL BE UNDER SEPARATED PERMIT.
 - NO ABOVE/GROUND TANKS ARE PROVIDED.
 - SITE PLAN SHALL MEET ALL ENGINEERING & NPDES REQUIREMENTS.

FIRE DEPARTMENT NOTES:

- FIRE DEPARTMENT ACCESS SHALL COMPLY WITH SAN BERNARDINO COUNTY FIRE DEPARTMENT FIRE PROTECTION STANDARDS.

- CALGREEN NOTES:**
- PROJECT SITE IS SMALLER THAN ONE ACRE - STORM WATER POLLUTION PREVENTION IS REQUIRED IN COMPLIANCE WITH BEST MANAGEMENT PRACTICES AND / OR LOCAL ORDINANCES FOR STORM WATER MANAGEMENT AND / OR EROSION CONTROL (SEE CG 5.106.1).
 - VISITOR BICYCLE PARKING RACKS SHALL BE PROVIDED WITHIN 200 FEET OF BUILDING ENTRANCES, FOR A MINIMUM OF 5% NEW VISITOR VEHICULAR PARKING (CG 5.106.4.1).
 - IN BUILDINGS WITH OVER TEN TENANT-OCCUPANTS, SECURE, LONG-TERM BICYCLE ENCLOSURES OR LOCKERS SHALL BE PROVIDED ON-SITE, FOR A MINIMUM OF 5% NEW TENANT VEHICULAR PARKING (CG 5.106.5.1). COMPLIANCE WITH THIS SECTION WILL BE PROVIDED IN EACH PERMIT FOR TENANT IMPROVEMENT INDOORS IN AMOUNTS PROPORTIONAL TO THE PARKING REQUIRED FOR EACH TENANT IMPROVEMENT.
 - 'CLEAN AIR' PARKING SPACES SHALL BE PROVIDED ON SITE FOR CARPOOLS & FUEL-EFFICIENT VEHICLES, FOR A MINIMUM NUMBER OF SPACES PROPORTIONAL TO REQUIRED VEHICLE PARKING PER CALGREEN TABLE (CGS.106.5.2).
 - LIGHTING DESIGN SHALL LIMIT GLARE AND UPLIGHT AND COMPLY WITH LOCAL CODES AND CALGREEN (CG 5.106.8).
 - THIS PROJECT'S PLUMBING FIXTURES SHALL BE 20% WATER-CONSERVING (CG 5.303.2). BEING A SHELL BUILDING, COMPLIANCE WITH THIS SECTION WILL BE PROVIDED IN EACH PERMIT FOR TENANT IMPROVEMENT.
 - FOR PROJECTS WITH OVER 1,000 S.F. OF LANDSCAPING, SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR OUTDOOR POTABLE WATER USE, AND IRRIGATION SYSTEM SHALL HAVE WEATHER- OR SOIL MOISTURE-BASED AUTOMATIC CONTROLLERS (CG 5.304.2&3).
 - A CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE DEVELOPED, DEMONSTRATING A MINIMUM OF 50% RECYCLING AND/OR SALVAGING OF NON-HAZARDOUS CONSTRUCTION WASTE AND COMPLYING WITH CALGREEN REQUIREMENTS (CG 5.408.1).
 - 100% OF LAND-CLEARED SOILS AND VEGETATION SHALL BE REUSED OR RECYCLED (CG 5.408.3).
 - PER SECTION 5.410.2, EXCEPTIONS 1 & 2, COMMISSIONING IS NOT REQUIRED FOR DRY STORAGE WAREHOUSES OR AREAS USED FOR OFFICES LESS THAN 10,000 SF IN DRY STORAGE WAREHOUSES. (CG 5.410.2).
 - ALL CONSTRUCTION MATERIALS TO COMPLY WITH THE VOC AND TOXIN LIMITS LISTED (CG 5.504).
 - SMOKING SHALL BE PROHIBITED WITHIN 25 FEET OF BUILDING ENTRIES, AIR INTAKES, AND OPERABLE WINDOWS (CG 5.504.7).

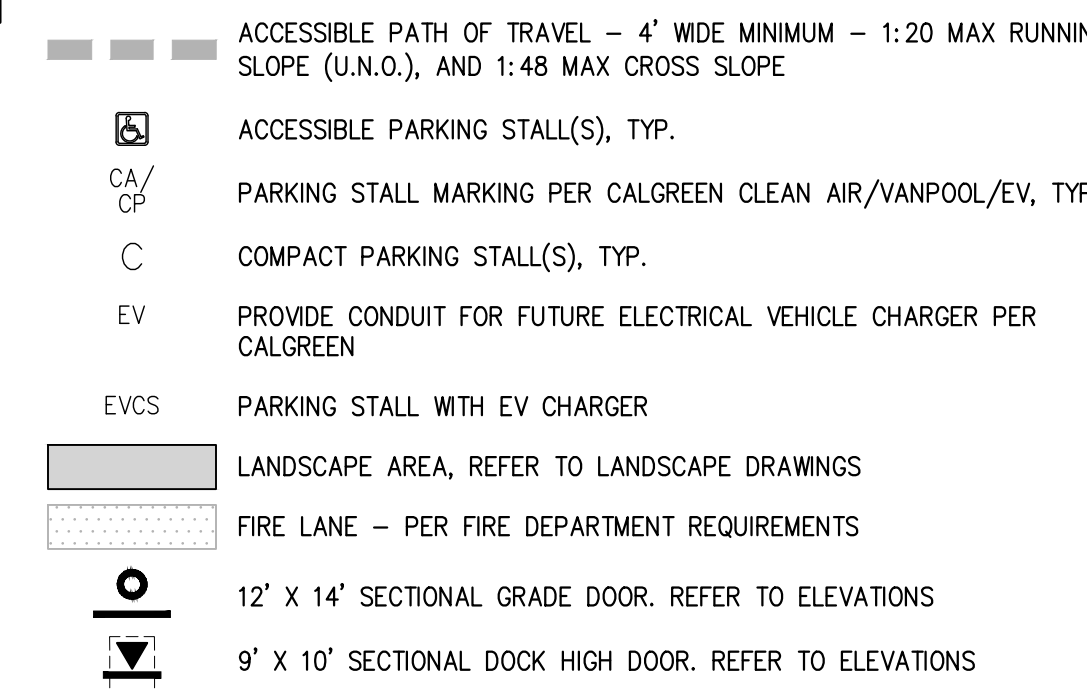
KEYNOTES

- 1.0 GENERAL
- 1.1 PROPERTY LINE/ R.O.W. - REFER TO CIVIL DRAWINGS
 - 1.2 EASEMENT - REFER TO CIVIL DRAWINGS
 - 1.3 STANDARD PARKING STALL(S) - TYP.
 - 1.4 ADA-ACCESSIBLE PARKING STALL(S)
 - 1.5 CLEAN AIR/ VAN POOL/ EV PARKING STALL(S) PER CALGREEN 5.106.5.2
 - 1.6 PREFAB GUARD SHACK BY OTHERS
 - 1.7 2-WAY DRIVE AISLE: 24' MIN.
 - 1.8 FIRE DEPT. ACCESS DRIVE: 30' W. MIN.
- 3.0 CONCRETE
- 3.1 TILT-UP CONCRETE BUILDING WALL
 - 3.2 CONCRETE STAIR W/ HANDRAIL & 42" GUARDRAIL
 - 3.3 CONCRETE STAIR W/ HANDRAIL
 - 3.4 TILT-UP CONCRETE SCREEN WALL, PTD.
 - 3.5 TILT-UP CONCRETE TRASH ENCLOSURE, 6' TALL TYP.
 - 3.6 TILT-UP CONCRETE GUARDRAIL T.O.W. 42" ABOVE HIGH SIDE
 - 3.7 CONCRETE RETAINING WALL - SEE CIVIL
 - 3.8 CONCRETE RAMP W/ HANDRAIL & GUARDRAIL
- 5.0 METAL FABRICATIONS
- 5.1 STEEL PIPE BOLLARD, REFER TO 1/A.02
- 12.0 FURNISHINGS
- 12.1 BICYCLE RACK PER CAL GREEN; LONG-TERM 5% OF EMPLOYEE PARKING - REFER TO TABULATIONS
 - 12.2 BICYCLE RACK PER CAL GREEN; SHORT-TERM 5% OF VISITOR PARKING - REFER TO TABULATIONS
- 21.0 FIRE SUPPRESSION - REFER TO FIRE PROTECTION DRAWINGS
- 21.1 FUTURE FIRE PUMP HOUSE.
- 32.0 EXTERIOR IMPROVEMENT - REFER TO CIVIL AND LANDSCAPE U.N.O.
- 32.1 LANDSCAPE PLANTING AREA
 - 32.2 CONCRETE WALKWAY
 - 32.3 CONCRETE CURB, TYP.
 - 32.4 PRECAST CONCRETE WHEEL STOP
 - 32.5 VEHICULAR PAVING
 - 32.6 CONCRETE COMMERCIAL DRIVEWAY
 - 32.7 CONCRETE TRUCK DOCK APRON
 - 32.8 WROUGHT GATE W/ MOTOR & KNOX PADLOCK - 8' TALL
 - 32.9 TUBE STEEL FENCE, TYP. - 8' TALL
 - 32.10 CHAIN LINK FENCE TYP. - 8' TALL
 - 32.11 DECORATIVE CONC. PAD FOR EMPLOYEE BREAK AREA
- 33.0 UTILITIES - REFER TO CIVIL AND ELECTRICAL
- 33.1 BIO-SWALE
 - 33.2 ELECTRICAL TRANSFORMER
 - 33.3 (E) POWER POLE
 - 33.4 (E) FIRE HYDRANT
 - 33.5 DETENTION BASIN

GENERAL NOTES

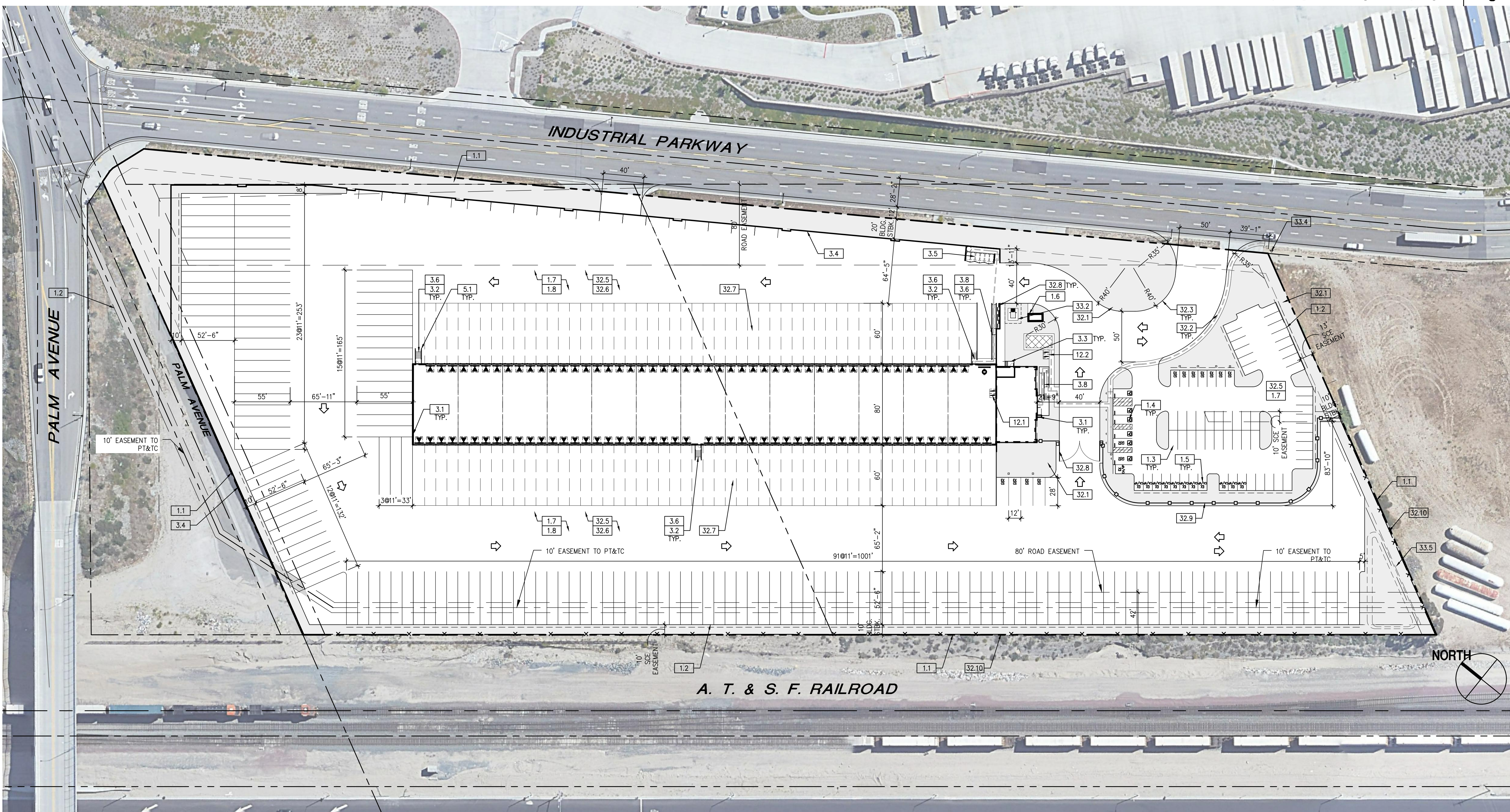
- GUARDS SHALL BE LOCATED ALONG OPEN SIDE OF WALKING SURFACES, STAIRS, RAMP AND LANDINGS THAT ARE LOCATED MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. GUARDS ARE NOT REQUIRED ON THE LOADING SIDE OF LOADING DOCKS (CG 101.3.2).
- THE RUNNING SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2.083%).
- THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM.
- THE WASTE STORAGE AREA SHALL BE GRADED SO THAT STORAGE CONTAINERS REMAIN AT REST WITHOUT AUXILIARY RESTRAINING DEVICES.

SITE PLAN - LEGEND

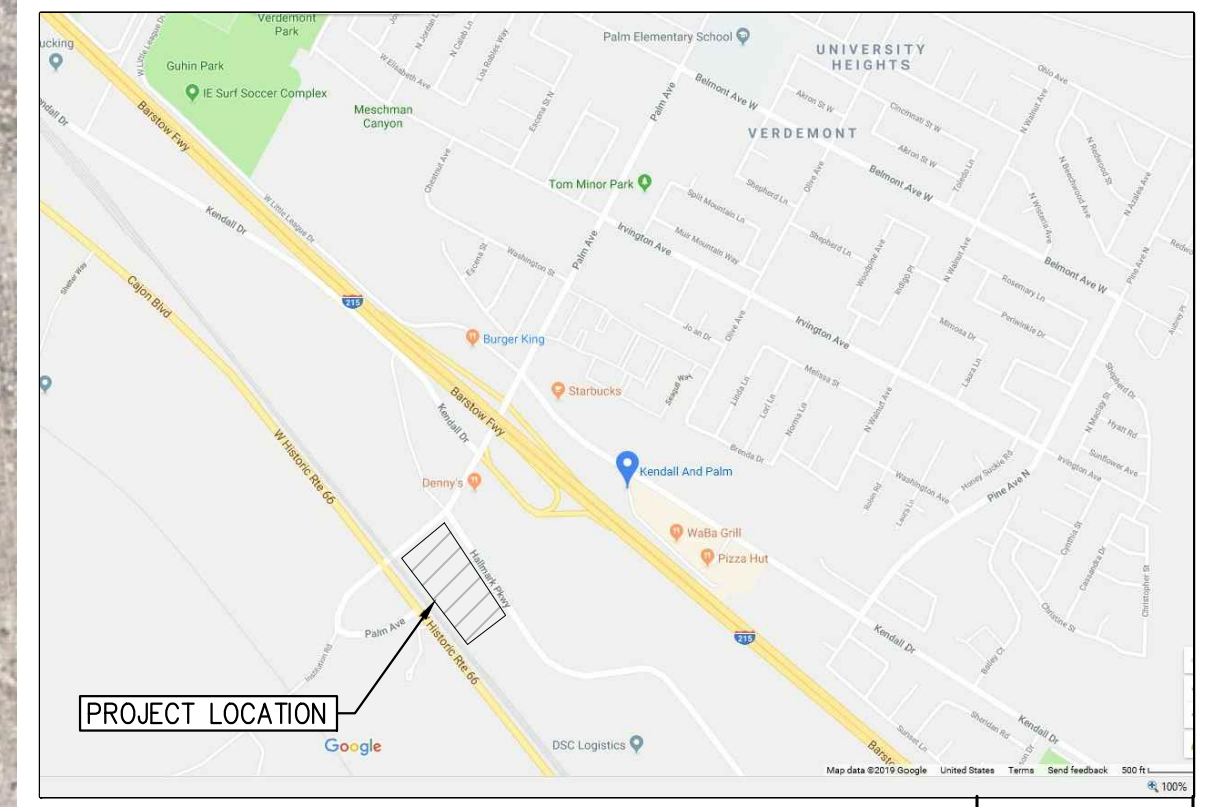


PROJECT TABULATIONS | 5

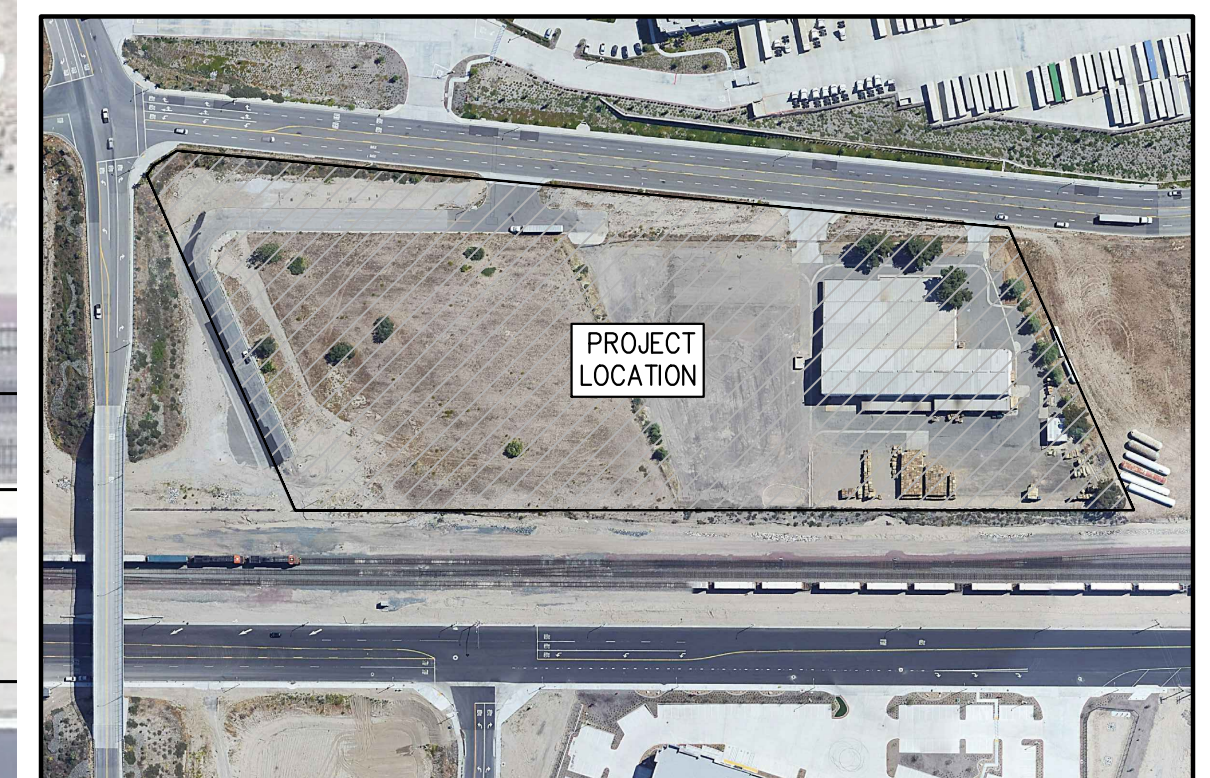
KEYNOTES | 3



OVERALL SITE PLAN | 1"=50' | 4



VICINITY MAP | 2



AERIAL MAP | 1

NO.	DESCRIPTION	DATE
1	1ST DESIGN REVIEW SUBMITTAL	08/20/21

SITE PLAN AND PROJECT TABULATIONS

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JOB NO.: DDP037.01	SHEET NO.: A11
DATE: 8/20/21	
DRAWN: GAA	
FILE NAME: DDP037_A1_1	

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 SAN BERNARDINO, CA 92407

DEVELOPED FOR: DEDEAUX PROPERTIES



Figure 4
 Habitat Map
 APNs 0266-041-22 and -40
 San Bernardino, California

- Legend**
- Project Location
 - Developed Areas (6.85 acres)
 - Ruderal Habitat (4.23)
 - Disturbed Habitat (0.99 acre)



APPENDIX A

Observed Species List

Plant List

Scientific Name	Common Name
<i>Acmispon glaber</i>	Deerweed
<i>Ambrosia acanthicarpa</i>	Annual bursage
<i>Artemisia dracunculus</i>	Tarragon
<i>Baileya multiradiata</i>	Desert marigold
<i>Cedrus deodara</i>	Deodar cedar
<i>Croton californicus</i>	California croton
<i>Croton setigerus</i>	Doveweed
<i>Eriogonum fasciculatum</i>	California buckwheat
<i>Eucalyptus citriodora</i>	Lemon scented eucalyptus
<i>Helianthus</i>	Sunflower
<i>Heterotheca grandiflora</i>	Telegraph weed
<i>Hirschfeldia incana</i>	Shortpod mustard
<i>Lepidospartum squamatum</i>	California broomsage/scalebroom
<i>Pinus sp.</i>	Pine trees
<i>Ricinus communis</i>	Castor bean
<i>Senecio flaccidus</i>	Threadleaf ragwort
<i>Tamarix</i>	Tamarisk pink
<i>Verbesina encelioides</i>	Golden crownbeard

Animal List

Scientific Name	Common Name
<i>Columbidae livia</i>	Rock pigeon
<i>Sylvilagus audubonii</i>	Cottontail rabbit

APPENDIX B

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Allium howellii</i> var. <i>clokeyi</i>	Mt. Pinos onion	Monocots	None	None	1B.3	Great Basin scrub Meadow & seep Pinon & juniper woodlands	Great Basin scrub, pinyon and juniper woodland, meadows and seeps (edges).	1385-1800 m.	No suitable habitat is present on site. This species is not present.
<i>Ambrosia monogyra</i>	singlewhorl burrobrush	Dicots	None	None	2B.2	Chaparral Sonoran desert scrub	Chaparral, Sonoran desert scrub.	Sandy soils. 5-475 m.	No suitable habitat is present on site. This species is not present.
<i>Arenaria paludicola</i>	marsh sandwort	Dicots	Endangered	Endangered	1B.1	Freshwater marsh Marsh & swamp Wetland	Marshes and swamps.	Growing up through dense mats of Typha, Juncus, Scirpus, etc. in freshwater marsh. Sandy soil. 3-170 m.	No suitable habitat is present on site. This species is not present.
<i>Asclepias nyctaginifolia</i>	Mojave milkweed	Dicots	None	None	2B.1	Mojavean desert scrub Pinon & juniper woodlands	Mojavean desert scrub, pinyon and juniper woodland.	775-1605 m.	No suitable habitat is present on site. This species is not present.
<i>Astragalus hornii</i> var. <i>hornii</i>	Horn's milk-vetch	Dicots	None	None	1B.1	Alkali playa Meadow & seep Wetland	Meadows and seeps, playas.	Lake margins, alkaline sites. 75-350 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Berberis nevinii</i>	Nevin's barberry	Dicots	Endangered	Endangered	1B.1	Chaparral Cismontane woodland Coastal scrub Riparian scrub	Chaparral, cismontane woodland, coastal scrub, riparian scrub.	On steep, N-facing slopes or in low grade sandy washes. 90-1590 m.	No suitable habitat is present on site. This species is not present.
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	Monocots	Threatened	Endangered	1B.1	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 suitable habitat is present on site. This species is not present.
<i>Calochortus palmeri</i> var. <i>palmeri</i>	Palmer's mariposa-lily	Monocots	None	None	1B.2	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 suitable habitat is present on site. This species is not present.
<i>Calochortus plummerae</i>	Plummer's mariposa-lily	Monocots	None	None	4.2	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Canbya candida	white pygmy-poppy	Dicots	None	None	4.2	Joshua tree woodland Mojavean desert scrub Pinon & juniper woodlands	Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Gravelly, sandy, granitic places. 600-1460 m.	No suitable habitat is present on site. This species is not present.
Carex comosa	bristly sedge	Monocots	None	None	2B.1	Coastal prairie Freshwater marsh Marsh & swamp Valley & foothill grassland Wetland	Marshes and swamps, coastal prairie, valley and foothill grassland.	Lake margins, wet places; site below sea level is on a Delta island. -5-1010 m.	No suitable habitat is present on site. This species is not present.
Castilleja lasiorhyncha	San Bernardino Mountains owl's-clover	Dicots	None	None	1B.2	Chaparral Meadow & seep Pavement plain Riparian woodland Upper montane coniferous forest Wetland	Meadows and seeps, pebble plain, upper montane coniferous forest, chaparral, riparian woodland.	Mesic to drying soils in open areas of stream and meadow margins or in vernal wet areas. 1140-2320 m.	No suitable habitat is present on site. This species is not present.
Centromadia pungens ssp. laevis	smooth tarplant	Dicots	None	None	1B.1	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Chloropyron maritimum</i> ssp. <i>maritimum</i>	salt marsh bird's-beak	Dicots	Endangered	Endangered	1B.2	Coastal dunes Marsh & swamp Salt marsh Wetland	Marshes and swamps, coastal dunes.	Limited to the higher zones of salt marsh habitat. 0-10 m.	No suitable habitat is present on site. This species is not present.
<i>Chorizanthe parryi</i> var. <i>parryi</i>	Parry's spineflower	Dicots	None	None	1B.1	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 suitable habitat is present on site. This species is not present.
<i>Chorizanthe xanti</i> var. <i>leucotheca</i>	white-bracted spineflower	Dicots	None	None	1B.2	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 suitable habitat is present on site. This species is not present.
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>	Peruvian dodder	Dicots	None	None	2B.2	Marsh & swamp Wetland	Marshes and swamps (freshwater).	Freshwater marsh. 15-280 m.	No suitable habitat is present on site. This species is not present.
<i>Deinandra mohavensis</i>	Mojave tarplant	Dicots	None	Endangered	1B.3	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. 640-1645 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Dodecahema leptoceras	slender-horned spineflower	Dicots	Endangered	Endangered	1B.1	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	No suitable habitat is present on site. This species is not present.
Dudleya abramsii ssp. affinis	San Bernardino Mountains dudleya	Dicots	None	None	1B.2	Limestone Pavement plain Pinon & juniper woodlands Upper montane coniferous forest	Pebble (pavement) plain, upper montane coniferous forest, pinyon and juniper woodland.	Outcrops, granite or quartzite, rarely limestone. 1200-2425 m.	No suitable habitat is present on site. This species is not present.
Eremothera boothii ssp. boothii	Booth's evening-primrose	Dicots	None	None	2B.3	Joshua tree woodland Pinon & juniper woodlands	Joshua tree woodland, pinyon and juniper woodland.	285-2290 m.	No suitable habitat is present on site. This species is not present.
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Dicots	Endangered	Endangered	1B.1	Chaparral Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180-705 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Erigeron parishii</i>	Parish's daisy	Dicots	Threatened	None	1B.1	Limestone Mojavean desert scrub Pinon & juniper woodlands	Mojavean desert scrub, pinyon and juniper woodland.	Often on carbonate; limestone mountain slopes; often associated with drainages. Sometimes on grainite. 1050-2245 m.	No suitable habitat is present on site. This species is not present.
<i>Fimbristylis thermalis</i>	hot springs fimbristylis	Monocots	None	None	2B.2	Meadow & seep Wetland	Meadows and seeps (alkaline).	Near hot springs. 115-1585 m.	No suitable habitat is present on site. This species is not present.
<i>Galium californicum</i> ssp. <i>primum</i>	Alvin Meadow bedstraw	Dicots	None	None	1B.2	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 suitable habitat is present on site. This species is not present.
<i>Helianthus nuttallii</i> ssp. <i>parishii</i>	Los Angeles sunflower	Dicots	None	None	1A	Freshwater marsh Marsh & swamp Salt marsh Wetland	Marshes and swamps (coastal salt and freshwater).	35-1525 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Heuchera parishii</i>	Parish's alumroot	Dicots	None	None	1B.3	Alpine boulder & rock field Limestone Lower montane coniferous forest Subalpine coniferous forest Upper montane coniferous forest	Lower montane coniferous forest, subalpine coniferous forest, upper montane coniferous forest, alpine boulder and rock field.	Rocky places. Sometimes on carbonate. 1340-3505 m.	No suitable habitat is present on site. This species is not present.
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia	Dicots	None	None	1B.1	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	No suitable habitat is present on site. This species is not present.
<i>Imperata brevifolia</i>	California satintail	Monocots	None	None	2B.1	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 suitable habitat is present on site. This species is not present.
<i>Ivesia argyrocoma</i> var. <i>argyrocoma</i>	silver-haired ivesia	Dicots	None	None	1B.2	Meadow & seep Pavement plain Upper montane coniferous forest	Meadows and seeps, pebble plains, upper montane coniferous forest.	In pebble plains and meadows with other rare plants. 1490-2960 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper-grass	Dicots	None	None	4.3	Chaparral Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4-1435 m.	No suitable habitat is present on site. This species is not present.
<i>Lilium parryi</i>	lemon lily	Monocots	None	None	1B.2	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 suitable habitat is present on site. This species is not present.
<i>Lycium parishii</i>	Parish's desert-thorn	Dicots	None	None	2B.3	Coastal scrub Sonoran desert scrub	Coastal scrub, Sonoran desert scrub.	-3-570 m.	No suitable habitat is present on site. This species is not present.
<i>Malacothamnus parishii</i>	Parish's bush-mallow	Dicots	None	None	1A	Chaparral Coastal scrub	Chaparral, coastal sage scrub.	In a wash. 305-455 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Monardella macrantha</i> ssp. <i>hallii</i>	Hall's monardella	Dicots	None	None	1B.3	Broadleaved upland forest Chaparral Cismontane woodland Lower montane coniferous forest Valley & foothill grassland	Broadleaved upland forest, chaparral, lower montane coniferous forest, cismontane woodland, valley and foothill grassland.	Dry slopes and ridges in openings. 700-1800 m.	No suitable habitat is present on site. This species is not present.
<i>Monardella pringlei</i>	Pringle's monardella	Dicots	None	None	1A	Coastal scrub	Coastal scrub.	Sandy hills. 300-400 m.	No suitable habitat is present on site. This species is not present.
<i>Nasturtium gambelii</i>	Gambel's water cress	Dicots	Endangered	Threatened	1B.1	Brackish marsh Freshwater marsh Marsh & swamp Wetland	Marshes and swamps.	Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5-305 m.	No suitable habitat is present on site. This species is not present.
<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	Dicots	None	None	1B.2	Chaparral Joshua tree woodland Mojavean desert scrub Pinon & juniper woodlands	Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Sandy soil or coarse, granitic loam. 425-2015 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Pediomelum castoreum	Beaver Dam breadroot	Dicots	None	None	1B.2	Desert wash Joshua tree woodland Mojavean desert scrub	Joshua tree woodland, Mojavean desert scrub.	Sandy soils; washes and roadcuts. 605-1485 m.	No suitable habitat is present on site. This species is not present.
Perideridia parishii ssp. parishii	Parish's yampah	Dicots	None	None	2B.2	Lower montane coniferous forest Meadow & seep Upper montane coniferous forest	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest.	Damp meadows or along streambeds-prefers an open pine canopy. 1470-2530 m.	No suitable habitat is present on site. This species is not present.
Ribes divaricatum var. parishii	Parish's gooseberry	Dicots	None	None	1A	Riparian woodland	Riparian woodland.	Salix swales in riparian habitats. 65-300 m.	No suitable habitat is present on site. This species is not present.
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	None	None		Coastal scrub			Not present.
Schoenus nigricans	black bog-rush	Monocots	None	None	2B.2	Marsh & swamp Wetland	Marshes and swamps.	Often in alkaline marshes. 120-1525 m.	No suitable habitat is present on site. This species is not present.
Scutellaria bolanderi ssp. austromontana	southern mountains skullcap	Dicots	None	None	1B.2	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Senecio aphanactis	chaparral ragwort	Dicots	None	None	2B.2	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Drying alkaline flats. 20-1020 m.	No suitable habitat is present on site. This species is not present.
Sidalcea malviflora ssp. dolosa	Bear Valley checkerbloom	Dicots	None	None	1B.2	Lower montane coniferous forest Meadow & seep Riparian woodland Upper montane coniferous forest Wetland	Meadows and seeps, riparian woodland, lower montane coniferous forest, upper montane coniferous forest.	Known from wet areas within forested habitats. Affected by hydrological changes. 1575-2590 m.	No suitable habitat is present on site. This species is not present.
Sidalcea neomexicana	salt spring checkerbloom	Dicots	None	None	2B.2	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 suitable habitat is present on site. This species is not present.
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	None	None		Riparian forest			Not present.
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	None	None		Riparian forest			Not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Southern Mixed Riparian Forest	Southern Mixed Riparian Forest	Riparian	None	None		Riparian forest			Not present.
Southern Riparian Forest	Southern Riparian Forest	Riparian	None	None		Riparian forest			Not present.
Southern Riparian Scrub	Southern Riparian Scrub	Riparian	None	None		Riparian scrub			Not present.
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	None	None		Riparian woodland			Not present.
Sphenopholis obtusata	prairie wedge grass	Monocots	None	None	2B.2	Cismontane woodland Meadow & seep Wetland	Cismontane woodland, meadows and seeps.	Open moist sites, along rivers and springs, alkaline desert seeps. 15-2625 m.	No suitable habitat is present on site. This species is not present.
Streptanthus bernardinus	Laguna Mountains jewelflower	Dicots	None	None	4.3	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 streamsides or roadcuts. 1440-2500 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Streptanthus campestris</i>	southern jewelflower	Dicots	None	None	1B.3	Chaparral Lower montane coniferous forest Pinon & juniper woodlands	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.	Open, rocky areas. 605-2590 m.	No suitable habitat is present on site. This species is not present.
<i>Symphotrichum defoliatum</i>	San Bernardino aster	Dicots	None	None	1B.2	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 suitable habitat is present on site. This species is not present.
<i>Symphotrichum greatae</i>	Greata's aster	Dicots	None	None	1B.3	Broadleaved upland forest Chaparral Cismontane woodland Lower montane coniferous forest Riparian woodland	Chaparral, cismontane woodland, broadleaved upland forest, lower montane coniferous forest, riparian woodland.	Mesic canyons. 335-2015 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Thelypteris puberula</i> var. <i>sonorensis</i>	Sonoran maiden fern	Ferns	None	None	2B.2	Meadow & seep Wetland	Meadows and seeps.	Along streams, seepage areas. 60-930 m.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Accipiter cooperii	Cooper's hawk	Birds	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 suitable habitat is present on site. This species is not present.
Agelaius tricolor	tricolored blackbird	Birds	None	Threatened	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 suitable habitat is present on site. This species is not present.
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Anaxyrus californicus	arroyo toad	Amphibians	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 suitable habitat is present on site. This species is not present.
Anniella stebbinsi	Southern California legless lizard	Reptiles	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 suitable habitat is present on site. The soils on site are dry and This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Antrozous pallidus</i>	pallid bat	Mammals	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 suitable habitat is present on site. This species is not present.
<i>Arizona elegans occidentalis</i>	California glossy snake	Reptiles	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Artemisiospiza belli belli	Bell's sage sparrow	Birds	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 suitable habitat is present on site. This species is not present.
Asio otus	long-eared owl	Birds	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Cismontane woodland Great Basin scrub Riparian forest Riparian woodland Upper montane coniferous forest	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses.	Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	No suitable habitat is present on site. This species is not present.
Aspidoscelis hyperythra	orange-throated whiptail	Reptiles	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Aspidoscelis tigris stejnegeri</i>	coastal whiptail	Reptiles	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.	No suitable habitat is present on site. This species is not present.
<i>Athene cucularia</i>	burrowing owl	Birds	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.	No suitable habitat is present on site. This species is not present.
<i>Batrachoseps gabrieli</i>	San Gabriel slender salamander	Amphibians	None	None	IUCN_DD-Data Deficient USFS_S-Sensitive	Talus slope	Known only from the San Gabriel Mtns. Found under rocks, wood, and fern fronds, and on soil at the base of talus slopes.	Most active on the surface in winter and early spring.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Bombus crotchii	Crotch bumble bee	Insects	None	Candidate Endangered			Coastal California east to the Sierra-Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	No suitable habitat is present on site. This species is not present.
Bombus morrisoni	Morrison bumble bee	Insects	None	None	IUCN_VU-Vulnerable		From the Sierra-Cascade ranges eastward across the intermountain west.	Food plant genera include Cirsium, Cleome, Helianthus, Lupinus, Chrysothamnus, and Melilotus.	No suitable habitat is present on site. This species is not present.
Buteo swainsoni	Swainson's hawk	Birds	None	Threatened	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Great Basin grassland Riparian forest Riparian woodland Valley & foothill grassland	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Catostomus santaanae	Santa Ana sucker	Fish	Threatened	None	AFS_TH-Threatened IUCN_VU-Vulnerable	Aquatic South coast flowing waters	Endemic to Los Angeles Basin south coastal streams.	Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	No suitable habitat is present on site. This species is not present.
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	Mammals	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 suitable habitat is present on site. This species is not present.
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	Mammals	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Charina umbratica	southern rubber boa	Reptiles	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 suitable habitat is present on site. This species is not present.
Cicindela tranquebarica viridissima	greenest tiger beetle	Insects	None	None		Riparian woodland	Inhabits the woodlands adjacent to the Santa Ana River basin.	Usually found in open spots between trees.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	Birds	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 suitable habitat is present on site. This species is not present.
<i>Coleonyx variegatus abbotti</i>	San Diego banded gecko	Reptiles	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 suitable habitat is present on site. This species is not present.
<i>Crotalus ruber</i>	red-diamond rattlesnake	Reptiles	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Diadophis punctatus modestus	San Bernardino ringneck snake	Reptiles	None	None	USFS_S-Sensitive		Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams.	Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.	No suitable habitat is present on site. This species is not present.
Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	Endangered	Candidate Endangered	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 suitable habitat is present on site. This species is not present.
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	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 suitable habitat is present on site. This species is not present.
Empidonax traillii extimus	southwestern willow flycatcher	Birds	Endangered	Endangered	NABCI_RWL-Red Watch List	Riparian woodland	Riparian woodlands in Southern California.		No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Emys marmorata</i>	western pond turtle	Reptiles	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	Aquatic Artificial flowing waters Klamath/North coast flowing waters Klamath/North coast standing waters Marsh & swamp Sacramento/San Joaquin flowing waters Sacramento/San Joaquin standing waters South coast flowing waters South coast stan	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	No suitable habitat is present on site. This species is not present.
<i>Eremophila alpestris actia</i>	California horned lark	Birds	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.	

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Euchloe hyantis andrewsi</i>	Andrew's marble butterfly	Insects	None	None		Lower montane coniferous forest	Inhabits yellow pine forest near Lake Arrowhead and Big Bear Lake, San Bernardino Mtns, San Bernardino Co, 5000-6000 ft.	Hostplants are <i>Streptanthus bernardinus</i> & <i>Arabis holboellii</i> var <i>pinetorum</i> ; larval foodplant is <i>Descurainia richardsonii</i> .	No suitable habitat is present on site. This species is not present.
<i>Eugnosta busckana</i>	Busck's gallmoth	Insects	None	None		Coastal dunes Coastal scrub			No suitable habitat is present on site. This species is not present.
<i>Eumops perotis californicus</i>	western mastiff bat	Mammals	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern WBWG_H-High Priority	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral, etc.	Roosts in crevices in cliff faces, high buildings, trees and tunnels.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Euphydryas editha quino</i>	quino checkerspot butterfly	Insects	Endangered	None		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 suitable habitat is present on site. This species is not present.
<i>Falco columbarius</i>	merlin	Birds	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Estuary Great Basin grassland Valley & foothill grassland	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches.	Clumps of trees or windbreaks are required for roosting in open country.	No suitable habitat is present on site. This species is not present.
<i>Gila orcuttii</i>	arroyo chub	Fish	None	None	AFS_VU-Vulnerable CDFW_SSC-Species of Special Concern USFS_S-Sensitive	Aquatic South coast flowing waters	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave & San Diego river basins.	Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Glaucomys oregonensis californicus</i>	San Bernardino flying squirrel	Mammals	None	None	CDFW_SSC-Species of Special Concern USFS_S Sensitive	Broadleaved upland forest Lower montane coniferous forest	Known from black oak or white fir dominated woodlands between 5200 - 8500 ft in the San Bernardino and San Jacinto ranges. May be extirpated from San Jacinto range.	Needs cavities in trees/snags for nests and cover. Needs nearby water.	No suitable habitat is present on site. This species is not present.
<i>Haliaeetus leucocephalus</i>	bald eagle	Birds	Delisted	Endangered	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern USFS_S Sensitive USFWS_BCC-Birds of Conservation Concern	Lower montane coniferous forest Oldgrowth	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water.	Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Helminthoglypta taylori	westfork shoulderband	Mollusks	None	None		Riparian woodland	Vicinity of the Mojave River.	Under logs and leaves.	No suitable habitat is present on site. This species is not present.
Icteria virens	yellow-breasted chat	Birds	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 suitable habitat is present on site. This species is not present.
Lanius ludovicianus	loggerhead shrike	Birds	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Lasiurus xanthinus	western yellow bat	Mammals	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 suitable habitat is present on site. This species is not present.
Laterallus jamaicensis coturniculus	California black rail	Birds	None	Threatened	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_NT-Near Threatened NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	Brackish marsh Freshwater marsh Marsh & swamp Salt marsh Wetland	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays.	Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	No suitable habitat is present on site. This species is not present.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	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 suitable habitat is present on site. This species is not present.
Neolarra alba	white cuckoo bee	Insects	None	None			Known only from localities in Southern California.	Cleptoparasitic in the nests of perdita bees.	

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Neotamias speciosus speciosus	lodgpole chipmunk	Mammals	None	None		Chaparral Upper montane coniferous forest	Summits of isolated Piute, San Bernardino, & San Jacinto mountains. Usually found in open-canopy forests.	Habitat is usually lodgepole pine forests in the San Bernardino Mts & chinquapin slopes in the San Jacinto Mts.	No suitable habitat is present on site. This species is not present.
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	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 suitable habitat is present on site. This species is not present.
Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern WBWG_M-Medium Priority	Joshua tree woodland Pinon & juniper woodlands Riparian scrub Sonoran desert scrub	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Oncorhynchus mykiss irideus</i> pop. 10	steelhead - southern California DPS	Fish	Endangered	None	AFS_EN-Endangered	Aquatic South coast flowing waters	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County).	Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	No suitable habitat is present on site. This species is not present.
<i>Onychomys torridus ramona</i>	southern grasshopper mouse	Mammals	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 suitable habitat is present on site. This species is not present.
<i>Palaeoxenus dohrni</i>	Dohrn's elegant eucnemid beetle	Insects	None	None					No suitable habitat is present on site. This species is not present.
<i>Pandion haliaetus</i>	osprey	Birds	None	None	CDF_S-Sensitive CDFW_WL-Watch List IUCN_LC-Least Concern	Riparian forest	Ocean shore, bays, freshwater lakes, and larger streams.	Large nests built in tree-tops within 15 miles of a good fish-producing body of water.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Perognathus alticola alticola</i>	white-eared pocket mouse	Mammals	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFS_S-Sensitive	Lower montane coniferous forest Mojavean desert scrub Pinon & juniper woodlands	Ponderosa and Jeffrey pine habitats; also in mixed chaparral and sagebrush habitats in the San Bernardino Mountains.	Burrows are constructed in loose soil.	No suitable habitat is present on site. This species is not present.
<i>Perognathus longimembris brevinasus</i>	Los Angeles pocket mouse	Mammals	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.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Phrynosoma blainvillii	coast horned lizard	Reptiles	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.	No suitable habitat is present on site. This species is not present.
Polioptila californica californica	coastal California gnatcatcher	Birds	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Rana draytonii	California red-legged frog	Amphibians	Threatened	None	CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable	Aquatic Artificial flowing waters Artificial standing waters Freshwater marsh Marsh & swamp Riparian forest Riparian scrub Riparian woodland Sacramento/San Joaquin flowing waters Sacramento/San Joaquin standing waters South coast flowi	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Rana muscosa	southern mountain yellow-legged frog	Amphibians	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 suitable habitat is present on site. This species is not present.
Rhaphiomidas terminatus abdominalis	Delhi Sands flower-loving fly	Insects	Endangered	None		Interior dunes	Found only in areas of the Delhi Sands formation in southwestern San Bernardino & northwestern Riverside counties.	Requires fine, sandy soils, often with wholly or partly consolidated dunes & sparse vegetation. Oviposition req. shade.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Rhinichthys osculus ssp. 8	Santa Ana speckled dace	Fish	None	None	AFS_TH- Threatened CDFW_SSC- Species of Special Concern USFS_S- Sensitive	Aquatic South coast flowing waters	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 temps of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	No suitable habitat is present on site. This species is not present.
Setophaga petechia	yellow warbler	Birds	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 suitable habitat is present on site. This species is not present.
Siphateles bicolor mohavensis	Mohave tui chub	Fish	Endangered	Endangered	AFS_EN- Endangered CDFW_FP- Fully Protected	Aquatic Artificial flowing waters Artificial standing waters	Endemic to the Mojave River basin, adapted to alkaline, mineralized waters.	Needs deep pools, ponds, or slough-like areas. Needs vegetation for spawning.	No suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Spea hammondii	western spadefoot	Amphibians	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 suitable habitat is present on site. This species is not present.
Taxidea taxus	American badger	Mammals	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	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 suitable habitat is present on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Thamnophis hammondi	two-striped gartersnake	Reptiles	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	Marsh & swamp Riparian scrub Riparian woodland Wetland	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation.	Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	No suitable habitat is present on site. This species is not present.
Vireo bellii pusillus	least Bell's vireo	Birds	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 suitable habitat is present on site. This species is not present.

APPENDIX C



View of ornamental pine trees in the developed area on the southeast portion of the site.



View of the developed areas on the southern portion of site.



View of the developed areas on the southern portion of the site.



View of ornamental trees and shrubs near the center of the between the developed areas and ruderal habitat on site.



View of ruderal habitat on the northern portion of the site.



View of ruderal habitat on the northern portion of the site.



View of ruderal habitat and disturbed areas at the northwest corner of the site.



View of ruderal habitat along the northern border of the site.



View of disturbed and developed areas northern border of the site.

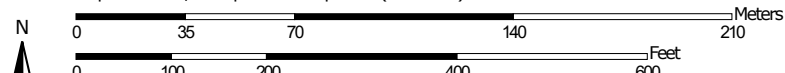
APPENDIX D

Soil Map—San Bernardino County Southwestern Part, California
(EPD Industrial Pkwy Project line)



Soil Map may not be valid at this scale.

Map Scale: 1:2,420 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84



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 1:24,000.

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: San Bernardino County Southwestern Part, California

Survey Area Data: Version 12, May 27, 2020

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

Date(s) aerial images were photographed: Apr 1, 2018—Jun 30, 2018

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
Fr	Friant-Rock outcrop complex	1.1	9.0%
TvC	Tujunga gravelly loamy sand, 0 to 9 percent slopes	11.2	91.0%
Totals for Area of Interest		12.3	100.0%