

Draft

# CITY OF ESCONDIDO MFRO FACILITY PROJECT

Biological Resources Assessment Report

Prepared for  
City of Escondido

July 2015



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# **1. Introduction**

Environmental Science Associates (ESA) conducted an analysis of biological resources for the City of Escondido's (City) Membrane Filtration/Reverse Osmosis (MFRO) Facility Project (Project), which includes the construction of an MFRO facility to treat tertiary effluent from the existing Hale Avenue Resource Recovery Facility. The MFRO facility would remove salts from the effluent so that it may supply agricultural and landscape uses, thereby lowering overall water demand.

This Biological Resources Assessment Report documents sensitive biological resources that are present or have the potential to be present that could pose a construction or operational constraint to the implementation of the Project. The information used to support this report includes the results of a field reconnaissance at the Project site and research of available literature and databases. This report also provides a review of pertinent Federal and/or State regulation, and local laws, rules, and regulations, including the California Environmental Quality Act (CEQA) that could affect the implementation of the Project. Potential impacts to biological resources and identifies mitigation consistent with the City's standards and guidelines are also summarized. This report is aimed to comprehensively document existing biological resources within the Project site and surrounding lands in order to assist in project planning and permitting.

## **1.1 Project Description**

The proposed Project is a reverse osmosis (RO) facility where a portion of non-potable reuse (NPR) water would be sent through RO membranes to reduce salinity/chlorides in the water. The RO water will be blended with NPR water (non-RO) and sent to agricultural growers.

Pretreatment to the RO system would consist of microfiltration (MF) membranes, which contain tiny openings small enough to remove particles such as suspended solids, bacteria, and protozoa. The major components of the MFRO facility are:

- Partially buried concrete MF feed tank with vertical-turbine pumps.
- MF building. This building houses the major equipment related to the MF system, including strainers, membrane skids, filtrate storage tank, air compressors and receivers, clean-in-place system, and electrical/control room.
- RO building. This building houses the major equipment related to the RO system, including energy recovery devices, high –pressure feed pumps, cartridge filters, membrane skids, clean-in-place system, hot water tank, and permeate flush tank.
- Chemical storage and feed facilities. This area will be used for storage and dosing pump facilities.
- Finished water storage and pump station.
- Surge tank.

## **2. Methodology**

### **2.1 Database and Literature Review**

Prior to conducting the field survey, ESA biologists conducted a database search and review of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Data Base (CNDDB) (Attachment A) (CDFW, 2015) and California Native Plant Society (CNPS) Rare Plant Inventory (CNPS, 2015) (Attachment B) for recorded occurrences of special-status plant and wildlife species within the Valley Center USGS quadrangle and the eight surrounding USGS quadrangles, and the U.S. Fish and Wildlife Service (USFWS) IPaC Trust Resource Report for federally-sensitive biological resources known to occur in the vicinity of the Project site (Attachment C). In addition, regional floral and faunal field guides, such as *A Manual of California Vegetation* (2009) and *The Jepson Manual* (2012), were utilized in the identification of species and suitable habitats (see References Section). Combined, the sources reviewed provided a comprehensive baseline from which to inventory the biological resources potentially occurring on the Project site and within the general area.

### **2.2 Field Reconnaissance**

On February 26, 2015, ESA's senior biologist Rocky Brown conducted a field reconnaissance of the Project site to assess the potential for sensitive biological resources to be present. The entire site was assessed on foot and all vegetation communities were mapped on an aerial photograph, and the majority of plants and wildlife observed were noted.

## **3. Existing Conditions**

### **3.1 Regional Location**

The City is located approximately 12 miles from the coast in northern San Diego County. It is in a biologically unique area where inland flora and fauna integrate with more coastal forms. The majority of the City is developed with urban infrastructure; however, larger blocks of native habitat occur at its edges adjacent to unincorporated areas of San Diego County in which regionally important biological resources occur. These generally undeveloped areas include foothills, native scrub habitats, wetlands, and woodlands (City 2001).

The Project is situated within the Carlsbad Watershed, which encompasses approximately 210 square miles extending from the headwaters above Lake Wohlford to the east of the Project site to the Pacific Ocean in the west, and from the cities of Vista and Oceanside in the north to Solana Beach, Escondido, and the community of Rancho Santa Fe to the south. The cities of Carlsbad, San Marcos, and Encinitas occur entirely within this hydrologic unit, approximately 48 percent of which is urbanized. Important hydrologic features in the watershed include four coastal lagoons, three major creeks, and two large water storage reservoirs (Project Clean Water 2015).

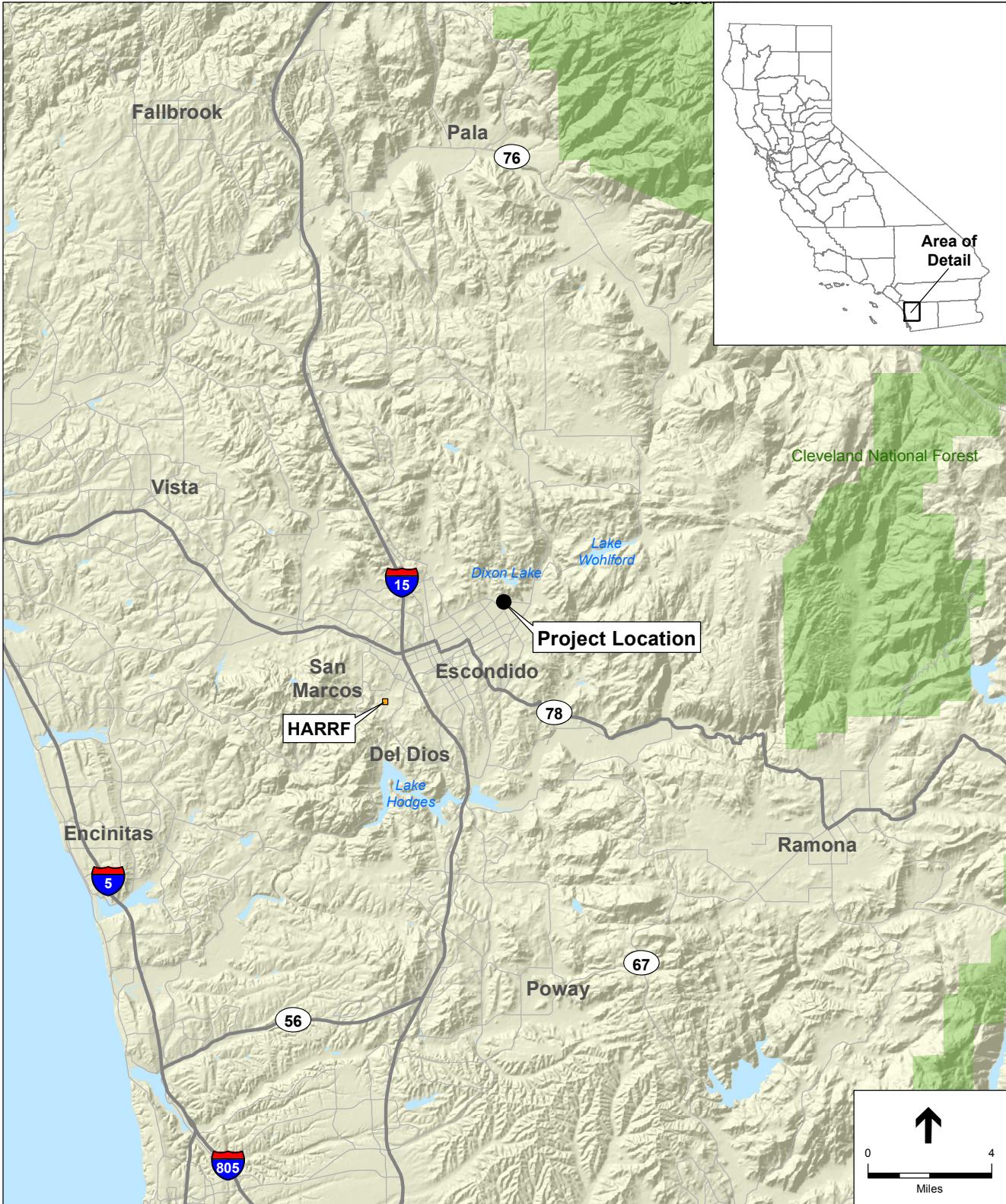
The Project parcel is within the area covered by the North County Multiple Habitat Conservation Program (MHCP), which is a comprehensive conservation planning process that addresses the needs of multiple plant and animal species in North Western San Diego County. The MHCP

encompasses the cities of Carlsbad, Encinitas, Escondido, Oceanside, San Marcos, Solana Beach, and Vista, each of which (except Solana Beach) is responsible for preparing its own subarea plan. The goal of the MHCP is to conserve approximately 19,000 acres of habitat, of which roughly 8,800 acres are already in public ownership and contribute toward the habitat preserve system for the protection of more than 80 rare, threatened, or endangered species (SANDAG 2003).

The City has prepared a draft subarea plan, which encompasses the entire City boundary and approximately 3,000 acres of unincorporated areas of San Diego County land within the City's sphere of influence. A public review draft of the subarea plan was released in 2001, but has not been adopted. The Project site is not located within any of the City's MHCP focused planning areas, in which some lands are proposed to be dedicated for open space and habitat conservation.

## 3.2 Project Location

As depicted on **Figures 1 - Regional Location Map** and **Figure 2 - Study Area Map**, the MFRO facility is proposed to be constructed on a 3.23 acre parcel of land owned by the City of Escondido, northwest of East Washington Avenue between North Citrus Avenue and East El Norte Parkway and within the United States Geological Survey (USGS) Valley Center 7.5-minute topographic quadrangle. The Project site is relatively flat and is at approximately 720 feet above mean sea level (amsl), and adjacent land uses include residential and light commercial.

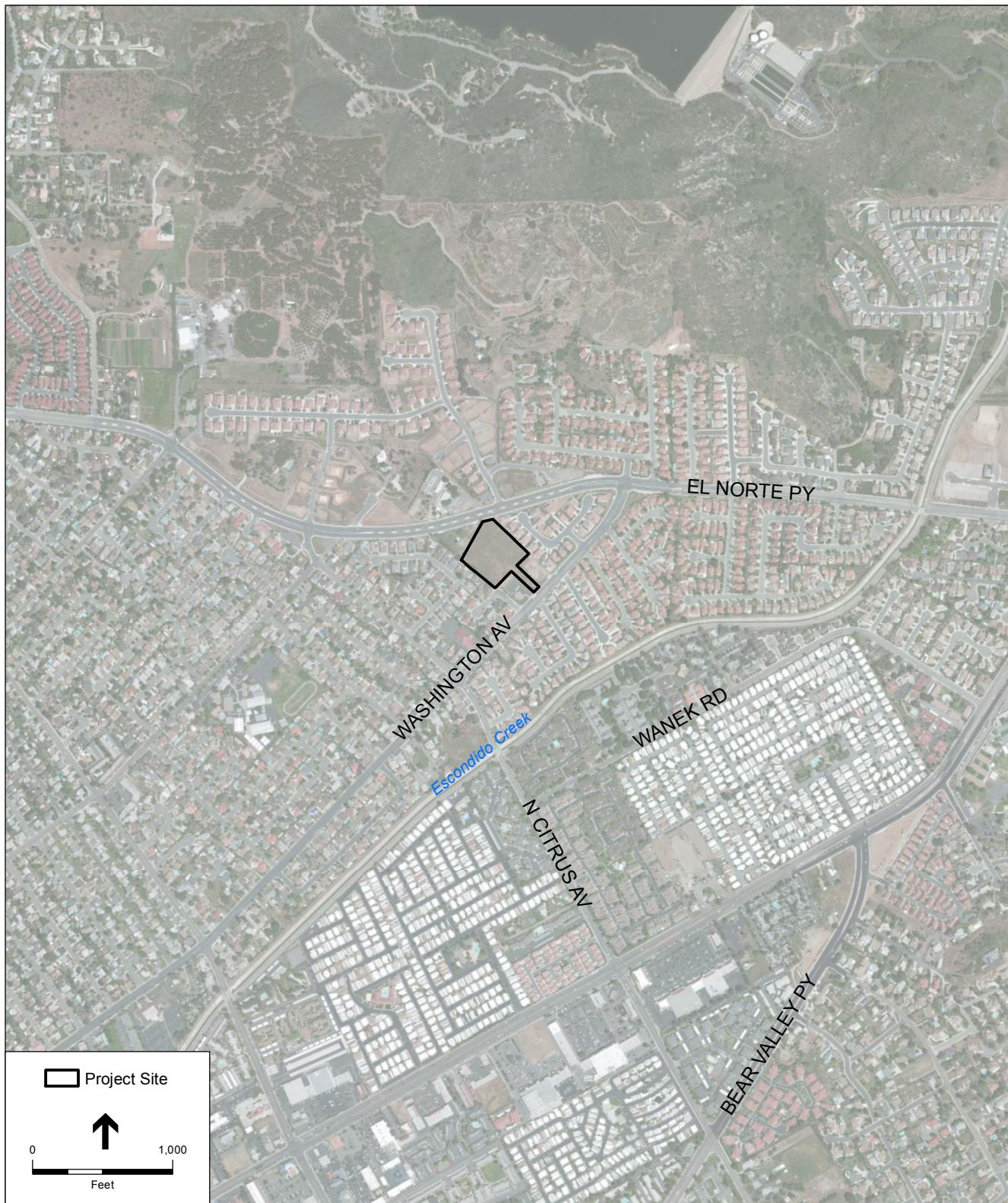


SOURCE: ESRI.

Escondido MFRO Facility Project . 140480.02

**Figure 1**

Regional Location Map



SOURCE: ESRI.

Escondido MFRO Facility Project . 140480.02

**Figure 2**  
Study Area Map

### **3.3 Soils**

According to the U.S Department of Agriculture, Natural Resources Conservation Service maps (NRCS, 2015), there are two soil types present on the Project site – Ramona sandy loam and Greenfield sandy loam. As shown on **Figure 3 – Soil Associations Map**, the majority of the site is comprised of the Ramona sandy loam unit. These soil types are described below.

#### **Ramona Sandy Loam**

The Ramona association occurs from 250 to 3,500 feet amsl on 0 to 2 percent slopes. This map unit is comprised of a combination of Ramona family and similar soils (85 percent) and other minor components (15 percent). These soils are associated with terraces and are formed from alluvium derived from granite. They are relatively deep and well drained with low runoff. This soil association occupies the southeastern three-quarters of the Project parcel.

#### **Greenfield Sandy Loam**

The Greenfield association occurs from 100 to 1,500 feet amsl on 2 to 5 percent slopes. This map unit is comprised of a combination of Greenfield family and similar soils (85 percent) and other minor components (15 percent). These soils are associated with alluvial fans and are formed from alluvium derived from granite. They are relatively deep and well drained with very low runoff. This soil association occupies the northwestern quarter of the Project parcel.

### **3.4 Vegetation Communities**

#### **Annual Brome Grassland**

The Project site is situated within an urban environment and appears to be highly disturbed from ongoing weed control activities, such as disking. The habitat type present on the Project site is characterized as Annual Brome Grassland. Typically, this habitat type is comprised of at least 60 percent cover of non-native brome grasses often interspersed with other non-native species, which is evident on the Project site. The non-native grasses that are dominant include ripgut brome (*Bromus diandrus*), as well as false barley (*Hordeum murinum*) and wild oat (*Avena fatua*). Other herbaceous non-native species that were observed include cheeseweed (*Malva parviflora*), red-stem filaree (*Erodium cicutarium*), Russian thistle (*Salsola* sp.), and field mustard (*Brassica rapa*). This community was characterized in accordance with *A Manual of California Vegetation*, Second Edition (Sawyer et al, 2009). Common plant names were taken from J.C. Hickman (1993).

#### **Various Trees**

Several trees are distributed around the edges of the parcel. These include non-native and landscaping trees such as Peruvian pepper (*Schinus molle*), Brazilian pepper (*S. terebinthifolius*), Mexican fan palm (*Washingtonia robusta*), eucalyptus (*Eucalyptus* sp.), and coast live oak (*Quercus agrifolia*). The majority of the trees located on the Project site occur along the southwestern fence line.



SOURCE: ESRI, USDA Natural Resources Conservation Service

Escondido MFRO Facility Project . 140480.02

**Figure 3**  
Soil Associations Map

## 3.5 Common Wildlife

While the Project site is located in an urban area and is surrounded by development, and the vegetation present is almost exclusively non-native, the area may provide habitat for a variety of native and non-native plants and animals that are tolerant of an urban environment. Wildlife observed during the field reconnaissance included a western fence lizard (*Sceloporus occidentalis*) and Anna's hummingbird (*Calypte anna*). Several small- to medium-sized (1-3 inches in diameter) burrows were also observed on the site with rodent scat in the vicinity, indicating rodents such as common field mice are present on the site.

Other common species that may occur include species that are tolerant of disturbed conditions, such as resident and migratory birds including mourning dove (*Zenaida macroura*), western scrub-jay (*Aphelocoma californica*), common raven (*Corvus corax*), northern mockingbird (*Mimus polyglottos*), California towhee (*Pipilo crissalis*), spotted towhee (*Pipilo maculatus*), white-crowned sparrow (*Zonotrichia leucophrys*), house finch (*Carpodacus mexicanus*), and lesser goldfinch (*Carduelis psaltria*). Grasslands also serve as habitat for other small mammals such as the pocket gopher (*Geomysidae*), California vole (*Microtus californicus*), and California ground squirrel (*Spermophilus beecheyi*) that in turn provide a prey base for foraging raptors.

## 3.6 Special-Status Biological Resources

Special-status species are plants and animals that are legally protected under the CESA/FESA or other regulations and species that are considered sufficiently rare or sensitive by the scientific community to qualify for such listing. These species are categorized as follows:

- Plants or animals listed or proposed for listing as threatened or endangered under the FESA (50 Code of Federal regulations [CFR] 17.12 [listed plants], 17.11 [listed animals]);
- Plants or animals that are candidates for possible future listing as threatened or endangered under the FESA (61 FR 40, February 28, 1996);
- Plants or animals listed or proposed for listing by the State of California as threatened or endangered under the CESA (14 California Code of Regulations [CCR] 670.5);
- Plants listed as rare or endangered under the California Native Plant Protection Act (California Fish and Game Code, Section 1900 et seq.);
- Plants that meet the definitions of rare and endangered under CEQA (State CEQA Guidelines, Section 15380);
- Plants considered by CNPS to be “rare, threatened or endangered in California” (Lists 1A, 1B, and 2 in CNPS Inventory 2015);
- Plants listed by CNPS as plants about which more information is needed to determine their status and plants of limited distribution (Lists 3 and 4 in CNPS 2015), which may be included as special-status species on the basis of local significance or recent biological information; and
- Animals fully protected in California (California Fish and Game Code, Sections 3511 [birds], 4700 [mammals], and 5050 [reptiles and amphibians]).

Based on a review of the CNDDDB and CNPS and IPaC databases, a number of special-status species are known to occur in the region, which includes, 83 plants, 5 invertebrates, one fish, 3 amphibians, 9 reptiles, 21 birds, and 19 mammals. **Table 1** lists these special-status species and summarizes their potential to occur on the Project site based on the suitability of the habitat (i.e., plants, soils, level of disturbance, adjacent land uses, etc) and known distributions in the area. The potential for a species or sensitive natural community to occur on the project site is included, based on the definitions indicated below. Species with a moderate or higher potential to occur on the site are further discussed after Table 1.

- **Low Potential:** The project area and/or immediate vicinity provides low quality habitat for a particular species, such as improper soils, disturbed or otherwise degraded habitat, improper assemblage of desired vegetation, and/or the site is outside of the known elevation range of the species..
- **Moderate Potential:** The project area and/or immediate vicinity provides decent habitat for a particular species. For example, proper soils may be present, but the desired vegetation assemblage or density is less than ideal; or soils and vegetation are suitable, but the site is outside of the known elevation range of the species.
- **High Potential:** The project area and/or immediate vicinity provide excellent habitat (i.e., soils, vegetation assemblage, and topography) for a particular species and/or there are known occurrences in the general vicinity of the project area.
- **Present:** The species (or natural vegetation community) was observed within the project area and/or immediate vicinity during surveys, or the species has been previously reported within the project area.

**TABLE 1**  
**SPECIAL-STATUS SPECIES POTENTIALLY OCCURRING OR DOCUMENTED IN THE VICINITY OF THE PROJECT SITE**

Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
<b>PLANTS</b>			
San Diego thorn-mint <i>Acanthomintha ilicifolia</i>	FT, SE, CRPR 1B.1	Clay soils within chaparral, coastal scrub, valley and foothill grassland and vernal pools. 10-960 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
California adolphia <i>Adolphia californica</i>	CRPR 2B.1	Clay soils within chaparral, coastal scrub and valley and foothill grassland. 45-740 meters.	<b>Low.</b> Suitable habitat for this perennial deciduous shrub is not present within the project site.
San Diego ambrosia <i>Ambrosia pumila</i>	FE, CRPR 1B.1	Sandy loam or clay soils within chaparral, coastal scrub, valley and foothill grassland and vernal pools. This species is commonly found in disturbed areas. 20-415 m elevation.	<b>Moderate.</b> Chaparral and scrub habitat is present less than one mile from the project site and this species is known to occur in disturbed areas. This species may occur in the ruderal vegetation within the project site.
Del Mar manzanita <i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>	FE, CRPR 1B.1	Sandy substrate within chaparral. 0-365 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present within the project site.
Rainbow manzanita <i>Arctostaphylos rainbowensis</i>	CRPR 1B.1	Chaparral. 205-670 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present within the project site.
San Diego sagewort <i>Artemisia palmeri</i>	CRPR 4.2	Sandy substrate within chaparral, coastal scrub, riparian forest, scrub and woodland.	<b>Low.</b> Suitable habitat for this perennial deciduous shrub is not present within the project site.
Western spleenwort <i>Asplenium vespertinum</i>	CRPR 4.2	Rocky substrate within chaparral, cismontane woodland and coastal scrub. 180-1,000 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present within the project site.
San Diego milk-vetch <i>Astragalus oocarpus</i>	CRPR 1B.1	Chaparral and cismontane woodland. 305-1,524 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present and the project site is located outside of the elevation range for the species.
Coulter's saltbush <i>Atriplex coulteri</i>	CRPR 1B.2	Alkaline or clay soils within coastal bluff scrub, dunes, coastal scrub and valley and foothill grassland. 3-460 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
South Coast saltscale <i>Atriplex pacifica</i>	CRPR 1B.2	Coastal bluff scrub, dunes, coastal scrub and playas. 0-140 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.

**TABLE 1**  
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Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
Parish's brittlescale <i>Atriplex parishii</i>	CRPR 1B.1	Alkaline soils within chenopod scrub, playas and vernal pools. 25-1,900 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Encinitas Baccharis <i>Baccharis vanessae</i>	FT, SE, CRPR 1B.1	Sandstone soils within chaparral and cismontane woodland. 60-720 m elevation.	<b>Low.</b> Suitable habitat for this perennial deciduous shrub is not present within the project site.
Nevin's barberry <i>Berberis nevinii</i>	FE, SE, CRPR 1B.1	Sandy or gravelly substrate within chaparral, cismontane woodland and coastal and riparian scrub. 274-825 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present and the project site is located outside of the elevation range for the species.
San Diego goldenstar <i>Bloomeria clevelandii</i>	CRPR 1B.1	Clay soils within chaparral, coastal scrub, valley and foothill grassland and vernal pools. 50-465 m elevation.	<b>Low.</b> Suitable habitat for this perennial bulbiferous herb is not present within the project site.
Thread-leaved brodiaea <i>Brodiaea filifolia</i>	FT, SE, CRPR 1B.1	Often clay soils within chaparral, cismontane woodland, coastal scrub, playas, valley and foothill grassland and vernal pools. 25-1,120 m elevation.	<b>Low.</b> Suitable habitat for this perennial bulbiferous herb is not present within the project site.
Orcutt's brodiaea <i>Brodiaea orcutti</i>	CRPR 1B.1	Often clay, sometimes serpentinite soils within closed-cone coniferous forest, chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland and vernal pools.	<b>Low.</b> Suitable habitat for this perennial bulbiferous herb is not present within the project site.
Round-leaved filaree <i>Californica macrophylla</i>	CRPR 1B.1	Clay soils within cismontane woodland and valley and foothill grassland. 15-1200 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Dunn's mariposa lily <i>Calochortus dunnii</i>	SR, CRPR 1B.2	Rocky substrate within closed-cone coniferous forest, chaparral and valley and foothill grassland. 185-1,830 m elevation.	<b>Low.</b> Suitable habitat for this perennial bulbiferous herb is not present within the project site.
Lewis' evening primrose <i>Camissoniopsis lewisii</i>	CRPR 3	Sandy or clay soils within coastal bluff scrub, cismontane woodland, coastal dunes, coastal scrub and valley and foothill grassland. 0-300 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.

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Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
Payson's jewelflower <i>Caulanthus simulans</i>	CRPR 4.2	Sandy or granitic substrate within chaparral and coastal scrub. 90-2,200 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Wart-stemmed ceanothus <i>Ceanothus verrucosus</i>	CRPR 2B.2	Chaparral. 1-380 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Southern tarplant <i>Centromadia parryi</i> ssp. <i>australis</i>	CRPR 1B.1	Disturbed areas along the margins of marshes and swamps and within chaparral, coastal scrub, valley and foothill grassland and vernal pools. 0-480 m elevation.	<b>Moderate.</b> Chaparral and scrub habitat is present less than one mile from the project site and this species is known to occur in disturbed areas. This species may occur in the ruderal vegetation within the project site.
Smooth tarplant <i>Centromadia pungens</i> ssp. <i>laevis</i>	CRPR 1B.1	Alkaline soils within chenopod scrub, meadows and seeps, playas, riparian woodland and valley and foothill grassland. 0-640 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Orcutt's pincushion <i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>	CRPR 1B.1	Coastal bluff scrub and coastal dunes. 0-100 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Southern mountain misery <i>Chamaebatia australis</i>	CRPR 4.2	Gabbroic or metavolcanic chaparral. 300-1020 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present and the project site is located outside of the elevation range for the species.
Peninsular spineflower <i>Chorizanthe leptotheca</i>	CRPR 4.2	Granitic substrate in alluvial fans within chaparral, coastal scrub and lower montane coniferous forest. 300-1,900 m elevations.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Orcutt's spineflower <i>Chorizanthe orcuttiana</i>	FE, SE, CRPR 1B.1	Sandy openings within closed-cone coniferous forest, chaparral and coastal scrub. 3-125 m elevations.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Delicate clarkia <i>Clarkia delicata</i>	CRPR 1B.2	Gabbroic substrate within chaparral and cismontane woodland. 235-1,000 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.

**TABLE 1**  
**SPECIAL-STATUS SPECIES POTENTIALLY OCCURRING OR DOCUMENTED IN THE VICINITY OF THE PROJECT SITE**

Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
Summer holly <i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i>	CRPR 1B.2	Chaparral and cismontane woodland. 30-790 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present within the project site.
Small-flowered morning-glory <i>Convolvulus simulans</i>	CRPR 4.2	Clay soils within serpeninite seeps, coastal scrub and valley and foothill grassland. 3-115 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
San Diego sand aster <i>Corethrogynne filaginifolia</i> var. <i>incana</i>	CRPR 1B.1	Coastal bluff scrub, chaparral and coastal scrub.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Del Mar sand aster <i>Corethrogynne filaginifolia</i> var. <i>linifolia</i>	CRPR 1B.1	Sandy substrate within coastal bluff scrub, chaparral and coastal scrub. 15-150 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Paniculate tarplant <i>Deinandra paniculata</i>	CRPR 4.2	Usually sandy substrate within coastal scrub, valley and foothill grassland and vernal pools. 25-940 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Cuyamaca larkspur <i>Delphinium hesperium</i> ssp. <i>cuyamacae</i>	SR, CRPR 1B.2	Mesic areas within lower montane coniferous forest, meadows and seeps and vernal pools. 1,220-1,631 m elevations.	<b>Low.</b> Suitable habitat for this perennial herb is not present and the project site is located outside of the elevation range for the species.
Western dichondra <i>Dichondra occidentalis</i>	CRPR 4.2	Chaparral, cismontane woodland, coastal scrub and valley and foothill grassland. 50-500 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present within the project site.
Banner dudleya <i>Dudleya alainae</i>	CRPR 3.2	Rocky substrate within chaparral, lower montane coniferous forest and Sonoran desert scrub. 740-1,200 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present and the project site is located outside of the elevation range for the species.
Variegated dudleya <i>Dudleya variegata</i>	CRPR 1B.1	Clay soils within chaparral, cismontane woodland, coastal scrub, valley and foothill grassland and vernal pools. 3-580 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Sticky dudleya <i>Dudleya viscida</i>	CRPR 1B.2	Rocky substrate within coastal bluff scrub, chaparral, cismontane woodland and coastal scrub. 10-550 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.

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Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
Palmer's goldenbush <i>Ericameria palmeri</i> var. <i>palmeri</i>	CRPR 1B.1	Mesic areas within chaparral and coastal scrub. 30-600 m elevations.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present within the project site.
San Diego button-celery <i>Eryngium aristulatum</i> var. <i>parishii</i>	FE, SE, CRPR 1B.1	Mesic areas within coastal scrub, valley and foothill grassland and vernal pools. 20-620 m elevations.	<b>Low.</b> Suitable habitat for this annual/perennial herb is not present within the project site.
San Diego barrel cactus <i>Ferocactus viridescens</i>	CRPR 2B.1	Chaparral, coastal scrub, valley and foothill grassland and vernal pools. 3-450 m elevations.	<b>Low.</b> Suitable habitat for this perennial stem succulent is not present within the project site.
Palmer's grapplinghook <i>Harpagonella palmeri</i>	CRPR 4.2	Clay soils in grassy openings within chaparral, coastal scrub and valley and foothill grassland. 20-955 m elevation.	<b>Low.</b> Suitable habitat for this perennial stem succulent is not present within the project site.
Orcutt's hazardia <i>Hazardia orcuttii</i>	FC, ST, CRPR 1B.1	Clay soils within chaparral coastal scrub. 80-85 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present and the project site is located outside of the elevation range for the species.
Beach goldenaster <i>Heterotheca sessiliflora</i> ssp. <i>sessiliflora</i>	CRPR 1B.1	Chaparral, coastal dunes and coastal scrub. 0-1,225 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Graceful tarplant <i>Holcarpha virgata</i> ssp. <i>elongata</i>	CRPR 4.2	Chaparral, cismontane woodland, coastal scrub and valley and foothill grassland. 60-1,100 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Vernal barley <i>Hordeum intercedens</i>	CRPR 3.2	Coastal dunes, coastal scrub, valley and foothill grassland and vernal pools. 5-1,000 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Mesa horkelia <i>Horkelia cuneata</i> ssp. <i>puberula</i>	CRPR 1B.1	Sandy or gravelly substrate within chaparral, cismontane woodland and coastal scrub. 70-810 m elevations.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Ramona horkelia <i>Horkelia truncata</i>	CRPR 1B.3	Clay or gabbroic substrate within chaparral and cismontane woodland. 400-1,300 m elevations.	<b>Low.</b> Suitable habitat for this perennial herb is not present and the project site is located outside of the elevation range for the species.

**TABLE 1**  
**SPECIAL-STATUS SPECIES POTENTIALLY OCCURRING OR DOCUMENTED IN THE VICINITY OF THE PROJECT SITE**

Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
San Diego sunflower <i>Hulsea californica</i>	CRPR 1B.3	Openings and burned areas within chaparral, lower montane coniferous forest, upper montane coniferous forest. 915-2,915 m elevations.	<b>Low.</b> Suitable habitat for this perennial herb is not present and the project site is located outside of the elevation range for the species.
Decumbent goldenbush <i>Isocoma menziesii</i> var. <i>decumbens</i>	CRPR 1B.2	Often disturbed areas within chaparral and coastal scrub. 10-135 m elevation.	<b>Low.</b> Suitable habitat for this perennial shrub/subshrub is not present within the project site.
San Diego marsh-elder <i>Iva hayesiana</i>	CRPR 2B.2	Marshes and swamps and playas. 10-500 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Southwestern spiny rush <i>Juncus acutus</i> var. <i>leopoldii</i>	CRPR 4.2	Coastal dunes, alkaline meadows and seeps, and coastal marshes and swamps. 3-900 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present within the project site.
Heart-leaved pitcher sage <i>Lepechinia cardiophylla</i>	CRPR 1B.2	Closed-cone coniferous forest, chaparral and cismontane woodland. 520-1,370 m elevation.	<b>Low.</b> Suitable habitat for this perennial shrub is not present within the project site.
Robinson's pepper-grass <i>Lepidium virginicum</i> var. <i>robinsonii</i>	CRPR 4.3	Chaparral and coastal scrub. 1-885 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Large-flowered leptosiphon <i>Leptosiphon grandiflorus</i>	CRPR 4.2	Usually sandy substrate within coastal bluff scrub, closed-cone coniferous forest, cismontane woodland, coastal dunes, coastal prairie, coastal scrub and valley and foothill grassland. 5-1,220 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Sea dahlia <i>Leptosyne maritima</i>	CRPR 2B.2	Coastal bluff scrub and coastal scrub. 5-150 m elevations.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Lemon lily <i>Lilium parryi</i>	CRPR 1B.2	Mesic areas within lower montane coniferous forest, meadows and seeps, riparian forest and upper montane coniferous forest. 1,220-2,745 m elevation.	<b>Low.</b> Suitable habitat for this perennial bulbiferous herb is not present and the project site is located outside of the elevation range for the species.

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Orcutt's linanthus <i>Linanthus orcuttii</i>	CRPR 1B.3	Openings within chaparral, lower montane coniferous forest and pinyon and juniper woodland. 915-2,145 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present and the project site is located outside of the elevation range for the species.
Small-flowered microseris <i>Microseris douglasii</i> ssp. <i>platycarpa</i>	CRPR 4.2	Clay soils within cismontane woodland, coastal scrub, valley and foothill grassland and vernal pools. 15-1,070 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Cleveland's bush monkeyflower <i>Mimulus clevelandii</i>	CRPR 4.2	Gabbroic and rocky soils in disturbed areas within chaparral, cismontane woodland and lower montane coniferous forest. 450-2,000 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present and the project site is located outside of the elevation range for the species.
Palomar monkeyflower <i>Mimulus diffusus</i>	CRPR 4.3	Sandy or gravelly substrate within chaparral or lower montane coniferous forest. 1,220-1,830 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present and the project site is located outside of the elevation range for the species.
Intermediate monardella <i>Monardella hypoleuca</i> ssp. <i>intermedia</i>	CRPR 1B.3	Chaparral, cismontane woodland and lower montane and coniferous forest. 400-1,250 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present and the project site is located outside of the elevation range for the species.
Felt-leaved monardella <i>Monardella hypoleuca</i> ssp. <i>lanata</i>	CRPR 1B.2	Chaparral and cismontane woodland. 300-1,575 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present and the project site is located outside of the elevation range for the species.
Hall's monardella <i>Monardella macrantha</i> ssp. <i>hallii</i>	CRPR 1B.3	Broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest and valley and foothill grassland. 730-2,195 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present and the project site is located outside of the elevation range for the species.
San Felipe monardella <i>Monardella nana</i> ssp. <i>leptosiphon</i>	CRPR 1B.2	Chaparral and lower montane coniferous forest. 1,200-1,855 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present and the project site is located outside of the elevation range for the species.
Willowy monardella <i>Monardella viminea</i>	FE, SE, CRPR 1B.1	Coastal rocky drainages, just outside of the streambed on the sandy bench. < 400 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Little mousetail <i>Myosurus minimus</i> ssp. <i>apus</i>	CRPR 3.1	Valley and foothill grassland and vernal pools. 20-640 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.

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Spreading navarretia <i>Navarretia fossalis</i>	FT, CRPR 1B.1	Chenopod scrub, marshes and swamps, playas and vernal pools. 30-655 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Chaparral nolina <i>Nolina cismontana</i>	CRPR 1B.2	Sandstone or gabbro substrate within chaparral or coastal scrub. 140-1,275 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present within the project site.
California's adder's-tongue <i>Ophioglossum californicum</i>	CRPR 4.2	Mesic areas within chaparral, valley and foothill grassland and vernal pools. 60-525 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present within the project site.
Golden-rayed pentachaeta <i>Pentachaeta aurea</i> ssp. <i>aurea</i>	CRPR 4.2	Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, riparian woodland and. 80-1,850 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
South coast branching phacelia <i>Phacelia ramosissima</i> var. <i>austrolitoralis</i>	CRPR 3.2	Sandy, sometimes rocky substrate within chaparral, coastal dunes, coastal scrub and marshes and swamps. 5-300 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Fish's milkwort <i>Polygala cornuta</i> var. <i>fishiae</i>	CRPR 4.3	Chaparral, cismontane woodland and riparian woodland. 100-1,000 m elevation.	<b>Low.</b> Suitable habitat for this perennial deciduous shrub is not present within the project site.
Delta woolly-marbles <i>Psilocarphus brevissimus</i> var. <i>multiflorus</i>	CRPR 4.2	Vernal pools. 10-500 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present within the project site.
Nuttall's scrub oak <i>Quercus dumosa</i>	CRPR 1B.1	Sandy and clay loam soils within closed-cone coniferous forest, chaparral and coastal scrub. 15-400 m elevation.	<b>Low.</b> Suitable habitat for this perennial evergreen shrub is not present within the project site.
Engelmann oak <i>Quercus engelmannii</i>	CRPR 4.2	Chaparral, cismontane woodland, riparian woodland and valley and foothill grassland. 50-1,300 m elevation.	<b>Low.</b> Suitable habitat for this perennial deciduous tree is not present within the project site.
Caraway-leaved woodland gilia <i>Saltugilia caruifolia</i>	CRPR 4.3	Sandy substrate within chaparral and lower montane coniferous forest. 840-2,300 m elevation.	<b>Low.</b> Suitable habitat for this annual herb is not present and the project site is located outside of the elevation range for the species.

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Southern mountains skullcap <i>Scutellaria bolanderi</i> ssp. <i>austromontana</i>	CRPR 1B.2	Mesic areas within chaparral, cismontane woodland and lower montane coniferous forest. 425-2,000 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present and the project site is located outside of the elevation range for the species.
Purple stenodia <i>Stenodia durantifolia</i>	CRPR 2B.1	Sonoran desert scrub. 180-300 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
San Bernardino aster <i>Symphytichum defoliatum</i>	CRPR 1B.2	Near ditches, stream and springs within cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps and valley and foothill grassland. 2-2,040 m elevation.	<b>Low.</b> Suitable habitat for this perennial rhizomatous herb is not present within the project site.
Parry's tetracoccus <i>Tetracoccus dioicus</i>	CRPR 1B.2	Chaparral and costal scrub. 165-1,000 m elevation.	<b>Low.</b> Suitable habitat for this perennial deciduous shrub is not present within the project site.
San Diego County viguiera <i>Viguiera laciniata</i>	CRPR 4.2	Chaparral and coastal scrub. 60-750 m elevation.	<b>Low.</b> Suitable habitat for this perennial shrub is not present within the project site.
Golden violet <i>Viola purpurea</i> ssp. <i>aurea</i>	CRPR 2B.2	Sandy substrate within Great Basin scrub and pinyon and juniper woodland. 1,000-2,500 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
Rush-like bristleweed <i>Xanthisma juncinum</i>	CRPR 4.3	Chaparral and coastal scrub. 240-1,000 m elevation.	<b>Low.</b> Suitable habitat for this perennial herb is not present within the project site.
<b>WILDLIFE</b>			
<b>Invertebrates</b>			
San Diego fairy shrimp <i>Branchinecta sandiegoensis</i>	FE	Vernal pools within chaparral and coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.

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Monarch butterfly <i>Danaus plexippus</i>		Generally closed-cone coniferous forest; however, this species is known to roost in many different species of ornamental trees, most notably <i>Eucalyptus</i> spp.	<b>Low.</b> While the western population of this species has been known to overwinter in coastal sites along central and southern California, it requires specific microclimatic conditions to survive the winter and prefers groves of trees, rather than the sparse tree cover found on the project site. It has a low potential of occurring as a transient.
Laguna Mountains skipper <i>Pyrgus ruralis</i> ssp. <i>lagunae</i>	FE	Subalpine coniferous forest.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Riverside fairy shrimp <i>Streptocephalus woottoni</i>	FE	Coastal scrub, valley and foothill grassland and wetlands.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
California brackishwater snail <i>Tryonia imitator</i>		Generally associated coastal marshes.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
<b>Fish</b>			
Arroyo chub <i>Gila orcuttii</i>	SSC	South coast flowing waters.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
<b>Reptiles and Amphibians</b>			
Arroyo toad <i>Anaxyrus californicus</i>	FE, SSC	Sandy substrate within desert wash, riparian scrub or riparian woodland associated with south coast slow-moving and pooling waters.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Orangethroat whiptail <i>Aspidoscelis hyperythra</i>	SSC	Chaparral, cismontane woodland and coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Coastal whiptail <i>Aspidoscelis tigris</i> ssp. <i>stejnegeri</i>		Generally found within chaparral, cismontane woodland and coastal scrub; however, this species can be found in heavily disturbed areas within the general vicinity of intact habitat.	<b>Low.</b> While this species has been recorded in the vicinity of the project site and has been known to occupy disturbed areas, the bounding of the site by urban development and, particularly, the surrounding relatively busy roads, greatly reduces the likelihood that it would cross over from adjacent habitats to utilize the site.

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Rosy boa <i>Charina trivirgata</i>		Desert and chaparral from the coast to the Mojave and Colorado Deserts. Prefers moderate to dense vegetation and rocky cover.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Red-diamond rattlesnake <i>Crotalus ruber</i>	SSC	Chaparral, Mojavean desert scrub and Sonoran desert scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Western pond turtle <i>Emys marmorata</i>	SSC	Riparian scrub or riparian woodland associated with perennial flowing water sources.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Large-blotched salamander <i>Ensatina klauberi</i>	SSC	Mesic areas within a variety of forest, woodland scrub and chaparral communities.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Coast horned lizard <i>Phrynosoma blainvillii</i>	SSC	A variety of dry and mesic habitats generally associated with chaparral and coastal scrub communities.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Coronado island skink <i>Plestiodon skiltonianus</i> ssp. <i>interparietalis</i>	SSC	Chaparral, cismontane woodland and pinyon and juniper woodland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Southern mountain yellow-legged frog <i>Rana muscosa</i>	FE, SE, SSC	Riparian scrub or riparian woodland associated with perennial flowing water sources.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Coast patch-nosed snake <i>Salvadora hexalepis</i> ssp. <i>virgulnea</i>	SSC	Coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Two-striped garter snake <i>Thamnophis hammondii</i>	SSC	Riparian scrub or riparian woodland associated with perennial flowing water sources.	<b>Low.</b> Suitable habitat for this species is not present within the project site.

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Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
<b>Birds</b>			
Cooper's hawk <i>Accipiter cooperi</i>	WL	Open, uninterrupted or marginal woodland. Nests primarily in riparian deciduous trees and live oaks.	<b>Low.</b> The trees present along the perimeter of the project site may be used temporarily for roosting and this species may forage on the site based on the apparent rodent population; however, it would only be expected to occur as a transient due to the surrounding urbanization and the availability of higher-quality habitat in the vicinity.
Tricolored blackbird <i>Agelaius tricolor</i>	BCC, SC, SSC	Cattail and bulrush thickets, open water.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Southern California rufous-crowned sparrow <i>Aimophila ruficeps</i> ssp. <i>canescens</i>	WL	Chaparral and coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Golden eagle <i>Aquila chrysaetos</i>	BEPA, SFP, WL	Rolling foothill mountain areas.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Bell's sage sparrow <i>Artemisiospiza belli</i> ssp. <i>belli</i>	BCC, WL	Chaparral and coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Burrowing owl <i>Athene cunicularia</i>	BCC, SSC	Flat, open, dry annual or perennial grasslands, deserts or scrublands. This species is known to occur in heavily disturbed areas.	<b>Low.</b> While this species is known to utilize disturbed sites, the small size of this parcel and surrounding urbanization reduce the likelihood that it would occupy the site on a permanent or semi-permanent basis. No sign of burrowing owl occupation was observed during the field reconnaissance survey.
Swainson's hawk <i>Buteo swainsoni</i>	BCC, ST	Great Basin grassland, riparian forest and woodland and valley and foothill grassland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Coastal cactus wren <i>Campylorhynchus brunneicapillus</i> ssp. <i>sandiegensis</i>	BCC, SSC	Coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	FT, BCC, SSC	Sandy beaches, salt pond levees, and shores of large alkali lakes.	<b>Low.</b> Suitable habitat for this species is not present within the project site.

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Southwestern willow flycatcher <i>Empidonax traillii</i> ssp. <i>extimus</i>	FE, SE	Dense riparian forest, generally dominated by <i>Salix</i> spp.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Yellow-breasted chat <i>Icteria virens</i>	SSC	Riparian forest, scrub and woodland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Least bittern <i>Ixobrychus exilis</i>	BCC, SSC	Wetlands.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
California balck rail <i>Laterallus jamaicensis</i>	BCC, SFP	Wetlands.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Belding's savannah sparrow <i>Passerculus sandwichensis</i> ssp. <i>beldingi</i>	SE	Coastal salt marsh and coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
White-faced ibis <i>Plegadis chihi</i>	WL	Marsh and swamp communities.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Coastal California gnatcatcher <i>Polioptila californica</i> ssp. <i>californica</i>	FT, SSC	Coastal bluff scrub and coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Light-footed clapper rail <i>Rallus longirostris</i> ssp. <i>levipes</i>	FE, SE, SFP	Generally associated coastal marshes.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Yellow warbler <i>Setophaga petechia</i>	BCC, SSC	Riparian forest, scrub and woodland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Western spadefoot <i>Spea hammondii</i>	SSC	Cismontane woodland, coastal scrub, valley and foothill grassland and wetland communities.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
California least tern <i>Sternula antillarum</i> ssp. <i>browni</i>	FE, SE, SFP	Alkali playas and wetlands; generally coastal.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Least Bell's vireo <i>Vireo bellii</i> ssp. <i>Pusillus</i>	FE, SE	Riparian forest, scrub and woodland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.

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<b>Mammals</b>			
Pallid bat <i>Antrozous pallidus</i>	SSC, WBWG-H	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Dulzura pocket mouse <i>Chaetodipus californicus</i> ssp. <i>femoralis</i>	SSC	Chaparral, coastal scrub, and valley and foothill grassland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Northwestern San Diego pocket mouse <i>Chaetodipus fallax</i> ssp. <i>fallax</i>	SSC	Chaparral and coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	SSC, SC, WBWG-H	Roosting: caves, mine shafts or other open cavities. Foraging: woodlands, coastal scrub, grasslands and chaparral.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Stephens' kangaroo rat <i>Dipodomys stephensi</i>	FE, ST	Coastal scrub and valley and foothill grassland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Western mastiff bat <i>Eumops perotis</i> ssp. <i>californicus</i>	SSC, WBWG-H	Chaparral, cismontane woodland, coastal scrub and valley and foothill grassland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Silver-haired bat <i>Lasionycteris noctivagans</i>	WBWG-M	Lower montane coniferous and riparian forest.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Western red bat <i>Lasiurus blossevillii</i>	SSC, WBWG-H	Cismontane woodland, lower montane coniferous forest and riparian forest and woodland.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Hoary bat <i>Lasiurus cinereus</i>	WBWG-M	Broadleaved upland forest, cismontane woodland, lower montane coniferous forest and north coast coniferous forest.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Western yellow bat <i>Lasiurus xanthinus</i>	SSC, WBWG-H	Desert wash.	<b>Low.</b> Suitable habitat for this species is not present within the project site.

**TABLE 1**  
**SPECIAL-STATUS SPECIES POTENTIALLY OCCURRING OR DOCUMENTED IN THE VICINITY OF THE PROJECT SITE**

Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
San Diego black-tailed jackrabbit <i>Lepus californicus</i> ssp. <i>bennettii</i>	SSC	Coastal scrub; however, this species is known to utilize heavily disturbed areas for foraging and roosting.	<b>Low.</b> Though this species is known to utilize disturbed areas, the lack of cover, small size of the parcel, and surrounding urban environment reduces the likelihood for this species to be present on the project site.
Western small-footed bat <i>Myotis ciliolabrum</i>	WBWG-M	Riparian, scrub, and forest habitats near a source of water.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Long-eared myotis <i>Myotis evotis</i>	WBWG-M	Riparian, scrub, and forest habitats near a source of water.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Yuma myotis <i>Myotis yumanensis</i>	SSC, WBWG-LM	Riparian, scrub, and forest habitats near a source of water.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
San Diego desert woodrat <i>Neotoma lepida</i> ssp. <i>intermedia</i>	SSC	Coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Pocketed free-tailed bat <i>Nyctinomops femerosaccus</i>	SSC, WBWG-M	Joshua tree woodland, pinyon and juniper woodland, riparian scrub and Sonoran desert scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Big free-tailed bat <i>Nyctinomops macrotis</i>	SSC, WBWG-MH	A variety of scrub , forest and woodland communities.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
Pacific pocket mouse <i>Perognathus longimembris</i> ssp. <i>pacificus</i>	SSC	Coastal scrub.	<b>Low.</b> Suitable habitat for this species is not present within the project site.
American badger <i>Taxidea taxus</i>	SSC	Grassland, open shrubland, forest or desert habitats with friable soils.	<b>Low.</b> Suitable habitat for this species is not present within the project site.

**TABLE 1**  
**SPECIAL-STATUS SPECIES POTENTIALLY OCCURRING OR DOCUMENTED IN THE VICINITY OF THE PROJECT SITE**

Species	Status <sup>1</sup>	Habitat	Potential for Occurrence <sup>2</sup>
<u>Notes</u>			
Status Codes:			
<b>Federal:</b> FE Federal Endangered; FT Federal Threatened; FC Federal Candidate (USFWS); BEPA Bald Eagle and Golden Eagle Protection Act (USFWS); BCC Birds of Conservation Concern (USFWS)			
<b>State:</b> SE State Endangered , ST State Threatened, SR State Rare; SFP Fully protected (CDFW); SC State Candidate (CDFW); SSC California Species of Special Concern (CDFW); WL Watch List (CDFW)			
<b>California Rare Plant Rank (CRPR)</b>			
CRPR 1B Plants considered rare, threatened or endangered in California and elsewhere;			
CRPR 2B Plants considered rare, threatened or endangered in California, more common elsewhere;			
CRPR 3 Plants for which more information is needed, review list;			
CRPR 4 Limited distribution, watch list.			
<b>CRPR Threat Ranks:</b>			
0.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat);			
0.2 Fairly threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat);			
0.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)			
<b>Other:</b> WBWG Western Bat Watch Group List (H, M, L: high, medium, low priority)			

## **Special-Status Plants**

As summarized in Table 1, of the 83 special-status plant species known to occur in the region, only San Diego ambrosia and southern tarplant have a moderate potential to occur on the Project site based on the suitability of the habitat and proximity to known historical records. These two species have been observed within one mile of the site and are known to occur in disturbed areas similar to those on the Project site. However, these species absence or presence can only be determined during the respective blooming season; Southern tarplant is from May-November and San Diego ambrosia is from April-November.

## **Special-Status Wildlife**

As summarized in Table 1, there are 58 special-status wildlife species are known to occur in the region; however the conditions of the Project site are not suitable to support resident populations of any special-status species, because of the small size of the Project site and its proximity to urban development in all directions, including relatively busy roads, which would limit terrestrial wildlife species from utilizing the site. In addition, the site is frequently disturbed by weed control efforts and the low, non-native herbaceous vegetation present on the site offers little cover for many species.

### **3.7 Migratory Birds**

Migratory birds are protected in accordance with the federal Migratory Bird Treaty Act (MBTA). According to the MBTA, taking, killing, or possessing migratory birds is unlawful as is taking of any parts, nests, or eggs of such birds (16 United States Code 703). Most migratory bird species are protected during the nesting season by the MBTA, as are the habitats in which they reside. As previously noted, several common species of bird may be present on the Project site and the trees around the perimeter of the site provide suitable nesting habitat for many species. Some birds nest on the ground such as mourning dove (*Zenaida macroura*) and killdeer (*Charadrius vociferus*); therefore, much of the site has potential for supporting bird nests, which includes disturbed areas dominated by non-native grasses.

### **3.8 Jurisdictional Resources**

No jurisdictional resources occur on or adjacent to the Project site. Moreover, the parcel is flat and without drainage features, and is surrounded by development with no connectivity to jurisdictional resources in the region.

### **3.9 Wildlife Corridors**

Wildlife movement corridors, also referred to as dispersal corridors or landscape linkages, are generally defined as linear features along which animals can travel from one habitat or resource area to another. A wildlife corridor study was not conducted as part of the proposed project since extensive, long-term studies of species ecology, movement patterns, and dispersal behavior would be required to conclusively demonstrate if a particular site or feature of a site served as an important movement corridor.

The Project site is not situated in an area that connects large open spaces, nor is it in a known wildlife movement area. Moreover, the surrounding urban development limited the availability for wildlife to migrate locally or regional to natural habitats needed for foraging, breeding and dispersal. Terrestrial wildlife would be expected to utilize the large undeveloped areas to the north and east of the site, instead of the Project site, since the Project site provides poor vegetation cover compared to these nearby open spaces.

## 3.10 Critical Habitat

There is no USFWS Critical Habitat present on or immediately adjacent to the Project site; however, the nearest Critical Habitat is situated 0.3 miles to the north. USFWS has designated the hills surrounding Dixon Lake as Critical Habitat for the coastal California gnatcatcher, listed as federally threatened and a state Species of Special Concern. These hills are characterized by coastal sage scrub, which is the preferred habitat for this species. **Figure 4** depicts the designated Critical Habitat within the vicinity of the Project site.

## 3.11 Protected Trees

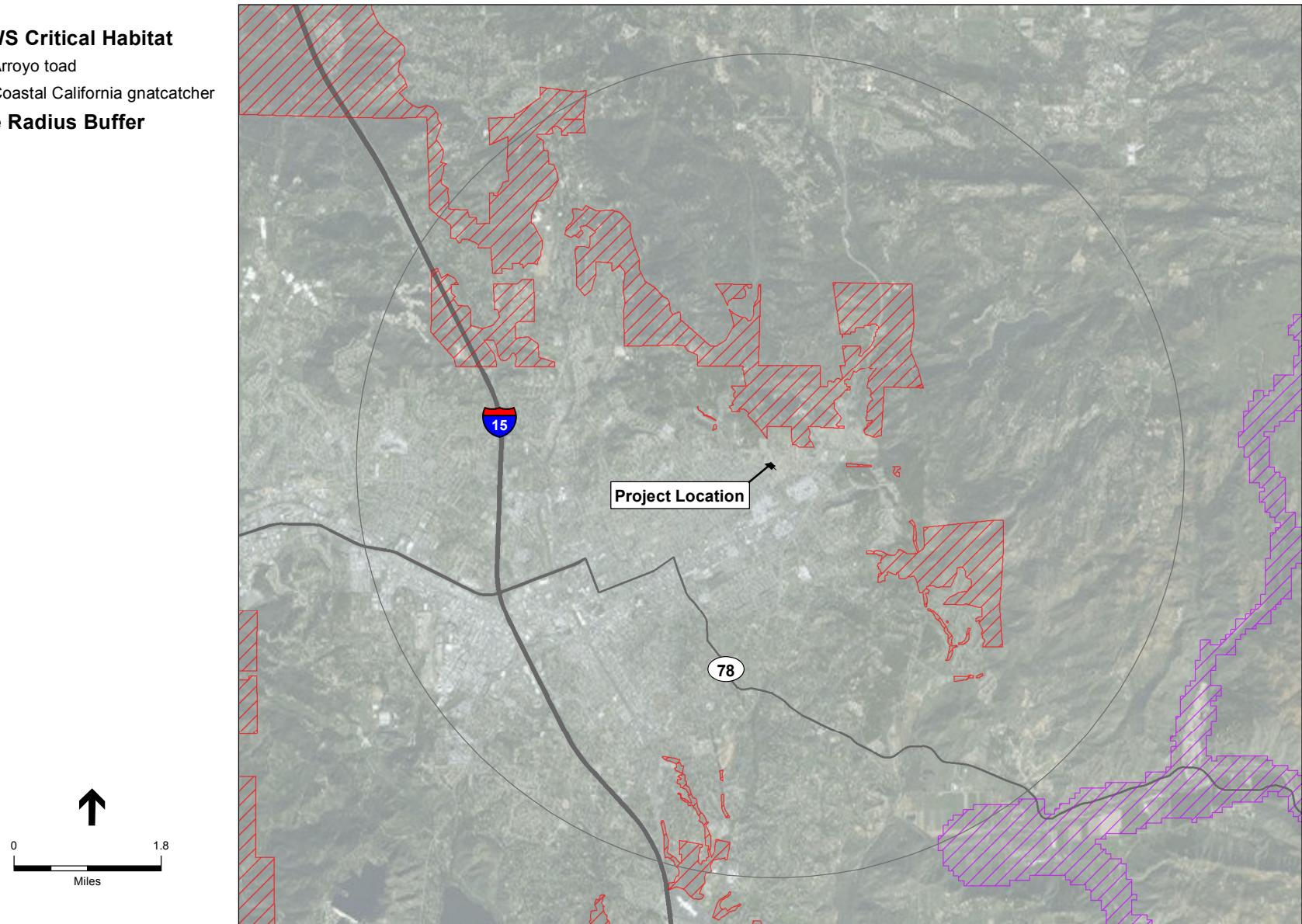
Section 33-1066, -1068, and -1069 of Article 55 (Grading and Erosion Control) of the City of Escondido Zoning Code regulates impacts to historically significant and/or mature trees, with a focus on oak tree protection. Protected trees are defined as “any oak (*Quercus* sp.) which has a ten (10) inch or greater trunk diameter at breast height (DBH), or any other species or individual specimen listed on the historic register, or determined to substantially contribute to the historic character of a property or structure listed on the local historic register, pursuant to Article 40 of the Escondido Zoning Code (2001).”

There are eight oak trees located along the southwestern Project boundary. Of the eight trees along this fence line, at least three are protected in accordance with Article 55 of the City’s Zoning Code based on their size.

**USFWS Critical Habitat**

- \ Arroyo toad
- \ Coastal California gnatcatcher

**5 Mile Radius Buffer**



SOURCE: ESRI, USFWS

Escondido MFRO Facility Project . 140480.02

**Figure 4**  
Critical Habitat Map

## **4. Impacts**

Construction of the proposed Project could impact plants and wildlife in a variety of ways. Impacts may be direct, such as through mortality due to being struck by construction equipment, burrow collapses, and habitat alteration/removal. Indirect impacts are caused by a project, but occur at a different time or place. Examples of this include fugitive dust or excessive noise affecting adjacent habitat. Construction activities could result in direct mortality or displacement of wildlife through habitat loss and could directly impact special-status species. Under the stipulations of CEQA, potential impacts to biological resources could be considered significant if actions associated with the Project would:

- a) Have a substantial adverse impact, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies or regulations, or by the CDFW or USFWS.
- b) Have a substantial adverse impact on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the CDFW or USFWS.
- c) Have a substantial adverse impact on federally protected wetlands as defined by Section 404 of the CWA (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- d) Interfere substantially with the movement of any native resident of migratory fish or wildlife species, or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.
- e) Conflict with any local policies/ordinance that protect biological resources, such as a tree preservation policy or ordinance.
- f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

### **4.1 Habitat**

Project construction activities will occur entirely on previously disturbed areas and will not impact native plant communities. Based on the existing habitat, the urban surroundings, and periodic landscape maintenance activities (i.e., weed abatement), the site's value as habitat for most sensitive plants and wildlife is greatly reduced. In addition, there are large areas of open space in the region that function as high-quality habitat. Therefore, Project impacts to habitat would be less than significant and would not require mitigation.

### **4.2 Nesting Birds**

Direct mortality of avian species would not likely occur during construction of the Project; however, there is suitable nesting habitat present on the property. Depending on the timing of construction, nesting may be occurring and Project activities have the potential to disrupt nesting activity, including causing the abandonment of nests and/or direct impacts to eggs and nestlings of bird species with small, well-hidden nests, which would violate the MTBA and Fish and Game

Code. Impacts to nesting birds would result primarily through direct and indirect disturbances such as through habitat clearing, tree and earth removal, grading, digging, and equipment movement. Project activities are not expected to result in a substantial loss of sensitive habitat that would affect the ability of species to disperse and persist throughout the surrounding habitats and wider region. Implementation of the mitigation measures recommended in **Section 5.1** would reduce the potential for injury or mortality of nesting birds during construction through construction timing, preconstruction nesting bird surveys, establishment of nesting buffers, and worker environmental training.

**Potential Significance:** Disturbances to nesting birds during construction activities could produce direct and indirect impacts. These impacts would be reduced to levels less than significant with implementation of the mitigation measures outlined in **Mitigation Measure 5.1**, Nesting Birds.

## 4.3 Special-Status Plant and Wildlife Species

As discussed in Section 3, the potential for the site to support special-status plant and wildlife species is low due to its location, size, level of disturbance, and low quality habitat. No special status plant species were found within the Project site during the habitat assessment, though focused surveys for special-status plants were not conducted. There is a moderate possibility for two species of special-status plants adapted to higher levels of disturbance to occur on site: San Diego ambrosia and southern tarplant. However, these species absence or presence can only be determined during the blooming season of May – August. Direct loss of individuals of these species may occur through grading, digging, and equipment movement; however, implementation of the mitigation measures recommended in Section 5.1 would reduce the potential of direct impacts to sensitive plants through preconstruction special-status plant surveys and salvaging and relocation of individuals.

**Potential Significance:** Preparation of the Project site could result in direct impacts to two special-status plant species. Impacts would be reduced to levels less than significant with implementation of the mitigation measures outlined in **Mitigation Measure 5.2**, Special-Status Plants.

## 4.4 Protected Trees

All trees throughout the site will be removed to prepare the site for construction. At least three coast live oak trees protected in accordance with Article 55 of the City's Zoning Code are present along the southwestern boundary of the Project site and their direct loss would conflict with the City's tree protection ordinance. This is an unavoidable Project impact; however, implementation of the recommended mitigation measures described in Section 5.1 would reduce the level of significance of these impacts.

**Potential Significance:** A comprehensive tree survey was not conducted to determine the number of oak trees on the Project site that would qualify for protection under Article 55 of the City's Zoning Code. The preliminary biological assessment indicates that at least three trees would qualify and their loss will be considered a significant impact. The level of significance of these

impacts would be reduced with the implementation of the mitigation measures outlined in **Mitigation Measure 5.3, Protected Trees**.

## 5 Recommended Mitigation Measures

### 5.1 Nesting Birds

- Proposed Project activities (including, but not limited to, staging and disturbances to native and non-native vegetation, structures, and substrates) should occur outside of the avian breeding season, which generally runs from March 1<sup>st</sup> - August 15<sup>th</sup>, to avoid take of birds or their eggs.
- If avoidance of the avian breeding season is not feasible a qualified biologist with experience in conducting breeding bird surveys will conduct a preconstruction clearance survey for active nests no more than 3 days prior to the initiation of Project activities.
- If a protected native bird is found, flagging, stakes, and/or construction fencing will be used to demarcate a buffer zone of 300 feet (or 500 feet for raptors) between the Project activities and the nest. Project personnel, including all contractors working on site, will be instructed on the sensitivity of the area. The Project proponent will delay all Project activities within the 300- (or 500-) foot buffer area until August 15<sup>th</sup> or until a qualified biologist has determined that the juveniles have fledged, the nest is vacated, and there is no evidence of a second attempt at nesting.

If the biological monitor determines that a narrower buffer between the Project activities and observed active nests is warranted, he/she will submit a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the Project activities and the nest and foraging areas) to the City. Based on the submitted information the City will determine whether to allow a narrower buffer.

- The biological monitor will be present on site during all grubbing and clearing of vegetation to ensure that these activities remain within the Project footprint (i.e., outside the demarcated buffer) and that the flagging/stakes/fencing is being maintained, and to minimize the likelihood that active nests are abandoned or fail due to Project activities. The biological monitor will send weekly monitoring reports to the City during the grubbing and clearing of vegetation, and will notify the City immediately if Project activities damage active avian nests.

### 5.2 Special-Status Plants

- A qualified biologist will perform focused surveys during the appropriate time of year to detect the presence of sensitive plant species (i.e., San Diego ambrosia and southern tarplant).

- If sensitive plants are observed on the Project site, flagging, stakes, and/or construction fencing will be used to demarcate the areas in which the plants are growing and these areas will be avoided, where feasible. Project personnel, including all contractors working on site, will be instructed on the sensitivity of the area.
- If preservation on-site is not feasible, the Project biologist will consult with CDFW to determine appropriate mitigation for the loss of any special-status plants.

## 5.3 Protected Trees

- Prior to construction, a qualified biologist will conduct a tree survey to identify protected oak trees on the Project site. The biologist will document qualifying data for each oak tree on the site, including location, height, diameter of dripline, number and size of trunks, and health characteristics.
- The Project biologist will obtain a vegetation removal permit as required by Sec. 33-1068.B of the City's Zoning Code.
- If feasible, the affected oak trees may be salvaged and relocated to a location to be determined through consultation with the City. Per Sec. 33-1068.C of the City's Zoning Code, at the City's request, the applicant may "prepare[] a tree replacement... plan as well as a report by a professional which estimates the health of and the significance of the impacts to the tree(s) to be... removed or relocated, and includes specifications for transplanting and maintenance of the affected tree(s). The report shall also include feasible mitigation measures to reduce potential impacts to the tree(s). The professional may also be required to supervise the relocation of any tree(s)." Transplanted oak trees will be monitored and maintained to ensure the success of the relocation effort.
- The Project biologist shall consult with the City to determine appropriate mitigation for the loss of protected trees. According to Sec. 33-1069 of the City's Zoning Code, "Protected trees shall be replaced at a minimum 2:1 ratio," though "The number, size and species of replacement trees shall be determined on a case-by-case basis by the director, based on the specific circumstances of each request, the characteristics and condition (size, age and location) of the individual trees involved, and any professional report." Replacement oak trees will be monitored and maintained to ensure the success of the mitigation effort.

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## **ATTACHMENT A**

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### **California Natural Diversity Data Base (CNDDB)**

CALIFORNIA DEPARTMENT OF  
FISH and WILDLIFE **RareFind**

**Query Summary:**

Quad IS (Valley Center (3311721) OR Bonsall (3311732) OR Pala (3311731) OR Boucher Hill (3311638) OR Rodriguez Mtn. (3311628) OR San Pasqual (3311618) OR Escondido (3311711) OR Rancho Santa Fe (3311712) OR San Marcos (3311722))

[Print](#)[Close](#)

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Acanthomintha ilicifolia	San Diego thorn-mint	Dicots	PDLAM01010	82	19	Threatened	Endangered	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland
Accipiter cooperii	Cooper's hawk	Birds	ABNKC12040	103	4	None	None	G5	S4	null	CDFW_WL-Watch List   IUCN_LC-Least Concern	Cismontane woodland   Riparian forest   Riparian woodland   Upper montane coniferous forest
Adolphia californica	California adolphia	Dicots	PDRHA01010	124	33	None	None	G3	S2	2B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Coastal scrub   Valley & foothill grassland
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	431	1	None	Endangered	G2G3	S1S2	null	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
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	ABPBX91091	185	36	None	None	G5T3	S2S3	null	CDFW_WL-Watch List	Chaparral   Coastal scrub
Ambrosia pumila	San Diego ambrosia	Dicots	PDAST0C0M0	56	8	Endangered	None	G1	S1	1B.1	null	Chaparral   Coastal scrub   Valley & foothill grassland
Anaxyrus californicus	arroyo toad	Amphibians	AAABB01230	134	15	Endangered	None	G2G3	S2S3	null	CDFW_SSC-Species of Special Concern   IUCN_EN-Endangered	Desert wash   Riparian scrub   Riparian woodland   South coast flowing waters   South coast standing waters
Antrozous pallidus	pallid bat	Mammals	AMACC10010	402	4	None	None	G5	S3	null	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
Aquila chrysaetos	golden eagle	Birds	ABNKC22010	308	5	None	None	G5	S3	null	BLM_S-Sensitive   CDF_S-Sensitive   CDFW_FP-Fully Protected   CDFW_WL-Watch List   IUCN_LC-Least Concern   USFWS_BCC-Birds of	Broadleaved upland forest   Cismontane woodland   Coastal prairie   Great Basin grassland   Great Basin scrub   Lower

										Conservation Concern	montane coniferous forest   Pinon & juniper woodlands   Upper montane coniferous forest   Valley & foothill grassland
<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>	Del Mar manzanita	Dicots	PDERI040E8	56	16	Endangered	None	G5T2	S2	1B.1	null
<i>Arctostaphylos rainbowensis</i>	Rainbow manzanita	Dicots	PDERI042T0	63	4	None	None	G2	S2	1B.1	BLM_S-Sensitive   USFS_S-Sensitive
<i>Artemesia palmeri</i>	San Diego sagewort	Dicots	PDAST0S160	36	9	None	None	G3G4	S3?	4.2	null
<i>Artemisiospiza belli belli</i>	Bell's sage sparrow	Birds	ABPBX97021	57	5	None	None	G5T2T4	S2?	null	CDFW_WL-Watch List   USFWS_BCC-Birds of Conservation Concern
<i>Aspidoscelis hyperythra</i>	orangethroat whiptail	Reptiles	ARACJ02060	346	38	None	None	G5	S2	null	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive
<i>Aspidoscelis tigris stejnegeri</i>	coastal whiptail	Reptiles	ARACJ02143	113	15	None	None	G5T3T4	S2S3	null	null
<i>Astragalus oocarpus</i>	San Diego milk-vetch	Dicots	PDFAB0F6B0	41	2	None	None	G3	S3	1B.2	BLM_S-Sensitive   USFS_S-Sensitive
<i>Athene cunicularia</i>	burrowing owl	Birds	ABNSB10010	1862	2	None	None	G4	S3	null	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern
<i>Atriplex coulteri</i>	Coulter's saltbush	Dicots	PDCHE040E0	75	3	None	None	G2	S2	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden
<i>Atriplex pacifica</i>	south coast saltscale	Dicots	PDCHE041C0	77	1	None	None	G3G4	S2	1B.2	null
<i>Atriplex parishii</i>	Parish's brittlescale	Dicots	PDCHE041D0	16	2	None	None	G1G2	S1	1B.1	USFS_S-Sensitive
<i>Baccharis vanessae</i>	Encinitas baccharis	Dicots	PDAST0W0P0	25	11	Threatened	Endangered	G1	S1	1B.1	null
<i>Berberis nevinii</i>	Nevin's barberry	Dicots	PDBER060A0	31	1	Endangered	Endangered	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   SB_SBBG-Santa Barbara Botanic Garden
<i>Bloomeria clevelandii</i>	San Diego goldenstar	Monocots	PMLIL1H010	115	8	None	None	G2	S2	1B.1	BLM_S-Sensitive
<i>Branchinecta sandiegensis</i>	San Diego fairy shrimp	Crustaceans	ICBRA03060	106	9	Endangered	None	G2	S2	null	IUCN_EN-Endangered
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	Monocots	PMLIL0C050	130	22	Threatened	Endangered	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden

											Vernal pool   Wetland
Brodiaea orcuttii	Orcutt's brodiaea	Monocots	PMLIL0C0B0	119	29	None	None	G2	S2	1B.1	BLM_S-Sensitive   USFS_S-Sensitive   Chaparral   Cismontane woodland   Closed-cone coniferous forest   Meadow & seep   Ultramafic   Valley & foothill grassland   Vernal pool   Wetland
Buteo swainsoni	Swainson's hawk	Birds	ABNKC19070	2394	7	None	Threatened	G5	S3	null	BLM_S-Sensitive   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern   Great Basin grassland   Riparian forest   Riparian woodland   Valley & foothill grassland
California macrophylla	round-leaved filaree	Dicots	PDGER01070	162	1	None	None	G2	S2	1B.1	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   SB_SBBG-Santa Barbara Botanic Garden   Cismontane woodland   Valley & foothill grassland
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	Birds	ABPBG02095	150	31	None	None	G5T3Q	S3	null	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive   USFWS_BCC-Birds of Conservation Concern   Coastal scrub
Caulanthus simulans	Payson's jewelflower	Dicots	PDBRA0M0H0	31	1	None	None	G4	S4	4.2	USFS_S-Sensitive   Chaparral   Coastal scrub
Ceanothus verrucosus	wart-stemmed ceanothus	Dicots	PDRHA041J0	67	23	None	None	G3	S2	2B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   Chaparral
Centromadia parryi ssp. australis	southern tarplant	Dicots	PDAST4R0P4	78	11	None	None	G3T2	S2	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   Marsh & swamp   Salt marsh   Valley & foothill grassland   Wetland
Centromadia pungens ssp. laevis	smooth tarplant	Dicots	PDAST4R0R4	104	2	None	None	G3G4T2	S2	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   Alkali playas   Chenopod scrub   Meadow & seep   Riparian woodland   Valley & foothill grassland   Wetland
Chaenactis glabriuscula var. orcuttiana	Orcutt's pincushion	Dicots	PDAST20095	23	1	None	None	G5T1	S1	1B.1	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   Coastal bluff scrub   Coastal dunes
Chaetodipus californicus femoralis	Dulzura pocket mouse	Mammals	AMAFD05021	54	8	None	None	G5T3	S3	null	CDFW_SSC-Species of Special Concern   Chaparral   Coastal scrub   Valley & foothill grassland
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	Mammals	AMAFD05031	94	9	None	None	G5T3T4	S3S4	null	CDFW_SSC-Species of Special Concern   Chaparral   Coastal scrub
Charadrius alexandrinus nivosus	western snowy plover	Birds	ABNNB03031	121	1	Threatened	None	G3T3	S2	null	CDFW_SSC-Species of Special Concern   NABCI_RWL-Red Watch List   USFWS_BCC-Birds of Conservation Concern   Great Basin standing waters   Sand shore   Wetland
Charina trivirgata	rosy boa	Reptiles	ARADA01020	48	6	None	None	G4G5	S3S4	null	IUCN_LC-Least Concern   USFS_S-Sensitive   Chaparral   Mojavean desert scrub   Sonoran desert scrub
Chorizanthe orcuttiana	Orcutt's spineflower	Dicots	PDPGN040G0	13	1	Endangered	Endangered	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden   Chaparral   Closed-cone coniferous forest   Coastal scrub
Clarkia delicata	delicate clarkia	Dicots	PDONA050D0	95	11	None	None	G3	S3	1B.2	BLM_S-Sensitive   Chaparral   Cismontane woodland   Ultramafic

Comarostaphylis diversifolia ssp. diversifolia	summer holly	Dicots	PDERI0B011	87	32	None	None	G3T2	S2	1B.2	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral   Cismontane woodland
Corethrogyne filaginifolia var. linifolia	Del Mar Mesa sand aster	Dicots	PDAST2M027	30	5	None	None	G4T1	S1	1B.1	null	Chaparral   Coastal bluff scrub   Coastal scrub
Corynorhinus townsendii	Townsend's big-eared bat	Mammals	AMACC08010	619	3	None	Candidate Threatened	G3G4	S2	null	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive   WBWG_H-High Priority	Broadleaved upland forest   Chaparral   Chenopod scrub   Great Basin grassland   Great Basin scrub   Joshua tree woodland   Lower montane coniferous forest   Meadow & seep   Mojavean desert scrub   Riparian forest   Riparian woodland   Sonoran desert scrub   Sonoran thorn woodland   Upper montane coniferous forest   Valley & foothill grassland
Crotalus ruber	red-diamond rattlesnake	Reptiles	ARADE02090	148	8	None	None	G4	S2?	null	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive	Chaparral   Mojavean desert scrub   Sonoran desert scrub
Danaus plexippus	monarch butterfly	Insects	IILEPP2010	334	1	None	None	G5	S3	null	USFS_S-Sensitive	Closed-cone coniferous forest
Delphinium hesperium ssp. cuyamaca	Cuyamaca larkspur	Dicots	PDRAN0B0U1	29	2	None	Rare	G4T2	S2	1B.2	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Lower montane coniferous forest   Meadow & seep   Vernal pool   Wetland
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	AMAFD03100	214	9	Endangered	Threatened	G2	S2	null	IUCN_EN-Endangered	Coastal scrub   Valley & foothill grassland
Dudleya variegata	variegated dudleya	Dicots	PDCRA040R0	108	11	None	None	G2	S2	1B.2	BLM_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland
Dudleya viscida	sticky dudleya	Dicots	PDCRA040T0	23	3	None	None	G2	S2	1B.2	USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal bluff scrub   Coastal scrub
Empidonax traillii extimus	southwestern willow flycatcher	Birds	ABPAE33043	70	5	Endangered	Endangered	G5T1T2	S1	null	NABCI_RWL-Red Watch List	Riparian woodland
Emys marmorata	western pond turtle	Reptiles	ARAAD02030	1137	4	None	None	G3G4	S3	null	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 standing waters   Wetland
Ensatina klauberi	large-blotched salamander	Amphibians	AAAAD04013	11	4	None	None	G2G3	S2S3	null	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive	null
	Palmer's goldenbush	Dicots	PDAST3L0C1	16	2	None	None	G4T2T3	S1	1B.1	BLM_S-Sensitive	Chaparral   Coastal scrub

<i>Ericameria palmeri</i> var. palmeri											
<i>Eryngium aristulatum</i> var. parishii	San Diego button-celery	Dicots	PDAPI0Z042	71	5	Endangered	Endangered	G5T1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland
<i>Eumops perotis californicus</i>	western mastiff bat	Mammals	AMACD02011	293	8	None	None	G5T4	S3S4	null	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   WBWG_H-High Priority Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland
<i>Ferocactus viridescens</i>	San Diego barrel cactus	Dicots	PDCAC08060	229	16	None	None	G3	S3	2B.1	SB_RSABG-Rancho Santa Ana Botanic Garden Chaparral   Coastal scrub   Valley & foothill grassland
<i>Gila orcuttii</i>	arroyo chub	Fish	AFCJB13120	49	1	None	None	G2	S2	null	AFS_VU-Vulnerable   CDFW_SSC-Species of Special Concern   USFS_S-Sensitive Aquatic   South coast flowing waters
<i>Harpagonella palmeri</i>	Palmer's grapplinghook	Dicots	PDBOR0H010	57	8	None	None	G4	S3	4.2	SB_RSABG-Rancho Santa Ana Botanic Garden Chaparral   Coastal scrub   Valley & foothill grassland
<i>Hazardia orcuttii</i>	Orcutt's hazardia	Dicots	PDAST4H070	5	3	None	Threatened	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden Chaparral   Coastal scrub
<i>Heterotheca sessiliflora</i> ssp. <i>sessiliflora</i>	beach goldenaster	Dicots	PDAST4V0K2	13	1	None	None	G4T2T3	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden Chaparral   Coastal dunes   Coastal scrub
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia	Dicots	PDROS0W045	58	2	None	None	G4T1	S1	1B.1	USFS_S-Sensitive Chaparral   Cismontane woodland   Coastal scrub
<i>Horkelia truncata</i>	Ramona horkelia	Dicots	PDROS0W0G0	31	3	None	None	G3	S3	1B.3	SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive Chaparral   Cismontane woodland   Ultramafic
<i>Icteria virens</i>	yellow-breasted chat	Birds	ABPBX24010	84	4	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern Riparian forest   Riparian scrub   Riparian woodland
<i>Isocoma menziesii</i> var. <i>decumbens</i>	decumbent goldenbush	Dicots	PDAST57091	63	4	None	None	G3G5T2T3	S2	1B.2	null Chaparral   Coastal scrub
<i>Iva hayesiana</i>	San Diego marsh-elder	Dicots	PDAST580A0	95	16	None	None	G3?	S2	2B.2	SB_RSABG-Rancho Santa Ana Botanic Garden Alkali playa   Marsh & swamp   Wetland
<i>Ixobrychus exilis</i>	least bittern	Birds	ABNGA02010	9	1	None	None	G5	S2	null	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern Marsh & swamp   Wetland
<i>Lasionycteris noctivagans</i>	silver-haired bat	Mammals	AMACC02010	138	1	None	None	G5	S3S4	null	IUCN_LC-Least Concern   WBWG_M-Medium Priority Lower montane coniferous forest   Oldgrowth   Riparian forest
<i>Lasiurus blossevillii</i>	western red bat	Mammals	AMACC05060	119	2	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   WBWG_H-High Priority Cismontane woodland   Lower montane coniferous forest   Riparian forest   Riparian woodland
<i>Lasiurus cinereus</i>	hoary bat	Mammals	AMACC05030	235	6	None	None	G5	S4	null	IUCN_LC-Least Concern   WBWG_M-Medium Priority Broadleaved upland forest   Cismontane woodland   Lower montane coniferous forest   North coast coniferous forest
<i>Lasiurus xanthinus</i>	western yellow bat	Mammals	AMACC05070	57	2	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Desert wash

										Concern   WBWG_H-High Priority		
Laterallus jamaicensis coturniculus	California black rail	Birds	ABNME03041	241	1	None	Threatened	G3G4T1	S1	null	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
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	PDBRA1M114	142	11	None	None	G5T3	S3	4.3	null	Chaparral   Coastal scrub
Leptosyne maritima	sea dahlia	Dicots	PDAST2L0L0	27	4	None	None	G3	S1	2B.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Coastal bluff scrub   Coastal scrub
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	AMAEB03051	96	3	None	None	G5T3T4	S3S4	null	CDFW_SSC-Species of Special Concern	Coastal scrub
Lilium parryi	lemon lily	Monocots	PMLIL1A0J0	138	5	None	None	G3	S3	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Lower montane coniferous forest   Meadow & seep   Riparian forest   Upper montane coniferous forest   Wetland
Linanthus orcuttii	Orcutt's linanthus	Dicots	PDPLM090X0	29	4	None	None	G4	S2	1B.3	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Lower montane coniferous forest
Maritime Succulent Scrub	Maritime Succulent Scrub	Scrub	CTT32400CA	10	1	None	None	G2	S1.1	null	null	Coastal scrub
Monardella hypoleuca ssp. intermedia	intermediate monardella	Dicots	PDLAM180A4	38	1	None	None	G4T2T3	S2S3	1B.3	null	Chaparral   Cismontane woodland   Lower montane coniferous forest
Monardella hypoleuca ssp. lanata	felt-leaved monardella	Dicots	PDLAM180A2	55	7	None	None	G4T3	S3	1B.2	BLM_S-Sensitive   USFS_S-Sensitive	Chaparral   Cismontane woodland
Monardella macrantha ssp. hallii	Hall's monardella	Dicots	PDLAM180E1	38	8	None	None	G5T3	S3	1B.3	SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Broadleaved upland forest   Chaparral   Cismontane woodland   Lower montane coniferous forest   Valley & foothill grassland
Monardella nana ssp. leptosiphon	San Felipe monardella	Dicots	PDLAM180F2	20	1	None	None	G4G5T2Q	S2	1B.2	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Lower montane coniferous forest
Myosurus minimus ssp. apus	little mousetail	Dicots	PDRAN0H031	24	3	None	None	G5T2Q	S2	3.1	null	Valley & foothill grassland   Vernal pool   Wetland
Myotis ciliolabrum	western small-footed myotis	Mammals	AMACC01140	82	2	None	None	G5	S3	null	BLM_S-Sensitive   IUCN_LC-Least Concern   WBWG_M-Medium Priority	null
Myotis evotis	long-eared myotis	Mammals	AMACC01070	107	2	None	None	G5	S3	null	BLM_S-Sensitive   IUCN_LC-Least Concern   WBWG_M-Medium Priority	null
Myotis yumanensis	Yuma myotis	Mammals	AMACC01020	259	4	None	None	G5	S4	null	BLM_S-Sensitive   IUCN_LC-Least Concern   WBWG_LM-Low-Medium Priority	Lower montane coniferous forest   Riparian forest   Riparian woodland   Upper montane coniferous forest
Navarretia fossalis	spreading navarretia	Dicots	PDPLM0C080	74	8	Threatened	None	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa   Chenopod scrub   Marsh &

												swamp   Vernal pool   Wetland
<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	Mammals	AMAFF08041	115	11	None	None	G5T3T4	S3S4	null	CDFW_SSC-Species of Special Concern	Coastal scrub
<i>Nolina cismontana</i>	chaparral nolina	Monocots	PMAGA080E0	49	4	None	None	G2	S2	1B.2	SB_RSABG-Rancho Santa Ana Botanic Garden   SB_SBBG-Santa Barbara Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub
<i>Nyctinomops femorosaccus</i>	pocketed free-tailed bat	Mammals	AMACD04010	90	6	None	None	G4	S3	null	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
<i>Nyctinomops macrotis</i>	big free-tailed bat	Mammals	AMACD04020	32	2	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   WBWG_MH-Medium-High Priority	null
<i>Passerculus sandwichensis beldingi</i>	Belding's savannah sparrow	Birds	ABPBX99015	36	1	None	Endangered	G5T3	S3	null	null	Marsh & swamp   Wetland
<i>Perognathus longimembris pacificus</i>	Pacific pocket mouse	Mammals	AMAFD01042	13	1	Endangered	None	G5T1	S1	null	CDFW_SSC-Species of Special Concern	Coastal scrub
<i>Phrynosoma blainvillii</i>	coast horned lizard	Reptiles	ARACF12100	727	37	None	None	G3G4	S3S4	null	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
<i>Plegadis chihi</i>	white-faced ibis	Birds	ABNGE02020	20	2	None	None	G5	S3S4	null	CDFW_WL-Watch List   IUCN_LC-Least Concern	Marsh & swamp   Wetland
<i>Plestiodon skiltonianus interparietalis</i>	Coronado Island skink	Reptiles	ARACH01114	33	6	None	None	G5T2T3Q	S1S2	null	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern	Chaparral   Cismontane woodland   Pinon & juniper woodlands
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Birds	ABPBJ08081	807	90	Threatened	None	G3T2	S2	null	CDFW_SSC-Species of Special Concern   NABC_YWL-Yellow Watch List	Coastal bluff scrub   Coastal scrub
<i>Pyrgus ruralis lagunae</i>	Laguna Mountains skipper	Insects	IILEP38021	3	1	Endangered	None	G5T1	S1	null	XERCES_CI-Critically Imperiled	Subalpine coniferous forest
<i>Quercus dumosa</i>	Nuttall's scrub oak	Dicots	PDFAG050D0	148	18	None	None	G3	S3	1B.1	USFS_S-Sensitive	Chaparral   Closed-cone coniferous forest   Coastal scrub
<i>Rallus longirostris levipes</i>	light-footed clapper rail	Birds	ABNME05014	30	1	Endangered	Endangered	G5T1T2	S1	null	CDFW_FP-Fully Protected   NABC_RWL-Red Watch List	Marsh & swamp   Salt marsh   Wetland
<i>Rana muscosa</i>	southern mountain yellow-legged frog	Amphibians	AAABH01330	186	1	Endangered	Endangered	G1	S1	null	CDFW_SSC-Species of Special Concern   IUCN_EN-Endangered   USFS_S-Sensitive	Aquatic
<i>Salvadora hexalepis virgultea</i>	coast patch-nosed snake	Reptiles	ARADB30033	22	3	None	None	G5T4	S2S3	null	CDFW_SSC-Species of Special Concern	Coastal scrub
<i>San Diego Mesa Claypan Vernal Pool</i>	San Diego Mesa Claypan Vernal Pool	Herbaceous	CTT44322CA	19	1	None	None	G2	S2.1	null	null	Vernal pool   Wetland
		Dicots	PDLAM1U0A1	32	2	None	None	G4T2	S2	1B.2	USFS_S-Sensitive	

<i>Scutellaria bolanderi</i> ssp. <i>austromontana</i>	southern mountains skullcap											Chaparral   Cismontane woodland   Lower montane coniferous forest
<i>Setophaga petechia</i>	yellow warbler	Birds	ABPBX03010	50	1	None	None	G5	S3S4	null	CDFW_SSC-Species of Special Concern   USFWS_BCC-Birds of Conservation Concern	Riparian forest   Riparian scrub   Riparian woodland
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	CTT61310CA	246	2	None	None	G4	S4	null	null	Riparian forest
Southern Coastal Salt Marsh	Southern Coastal Salt Marsh	Marsh	CTT52120CA	24	1	None	None	G2	S2.1	null	null	Marsh & swamp   Wetland
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	CTT61330CA	111	4	None	None	G3	S3.2	null	null	Riparian forest
Southern Maritime Chaparral	Southern Maritime Chaparral	Scrub	CTT37C30CA	26	5	None	None	G1	S1.1	null	null	Chaparral
Southern Riparian Forest	Southern Riparian Forest	Riparian	CTT61300CA	20	5	None	None	G4	S4	null	null	Riparian forest
Southern Riparian Scrub	Southern Riparian Scrub	Riparian	CTT63300CA	56	5	None	None	G3	S3.2	null	null	Riparian scrub
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	CTT62400CA	230	1	None	None	G4	S4	null	null	Riparian woodland
Southern Willow Scrub	Southern Willow Scrub	Riparian	CTT63320CA	45	1	None	None	G3	S2.1	null	null	Riparian scrub
<i>Spea hammondii</i>	western spadefoot	Amphibians	AAABF02020	426	9	None	None	G3	S3	null	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_NT-Near Threatened	Cismontane woodland   Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland
<i>Sternodia durantifolia</i>	purple sternodia	Dicots	PDSCR1U010	19	2	None	None	G5	S2	2B.1	null	Sonoran desert scrub
<i>Sternula antillarum browni</i>	California least tern	Birds	ABNNM08103	67	1	Endangered	Endangered	G4T2T3Q	S2	null	CDFW_FP-Fully Protected   NABCI_RWL-Red Watch List	Alkali playa   Wetland
<i>Streptocephalus woottoni</i>	Riverside fairy shrimp	Crustaceans	ICBRA07010	68	1	Endangered	None	G1G2	S1S2	null	IUCN_EN-Endangered	Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland
<i>Symphyotrichum defoliatum</i>	San Bernardino aster	Dicots	PDASTE80C0	76	2	None	None	G2	S2	1B.2	BLM_S-Sensitive   USFS_S-Sensitive	Cismontane woodland   Coastal scrub   Lower montane coniferous forest   Marsh & swamp   Meadow & seep   Valley & foothill grassland   Wetland
<i>Taxidea taxus</i>	American badger	Mammals	AMAJF04010	476	4	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Alkali marsh   Alkali playa   Alpine   Alpine dwarf scrub   Bog & fen   Brackish marsh   Broadleaved upland forest   Chaparral   Chenopod scrub   Cismontane woodland   Closed-cone coniferous forest   Coastal bluff scrub   Coastal dunes   Coastal

													prairie   Coastal scrub   Desert dunes   Desert wash   Freshwater marsh   Great Basin grassland   Great Basin scrub   Interior dunes   Ione formation   Joshua tree woodland   Limestone   Lower montane coniferous forest   Marsh & swamp   Meadow & seep   Mojavean desert scrub   Montane dwarf scrub   North coast coniferous forest   Oldgrowth   Pavement plain   Redwood   Riparian forest   Riparian scrub   Riparian woodland   Salt marsh   Sonoran desert scrub   Sonoran thorn woodland   Ultramafic   Upper montane coniferous forest   Upper Sonoran scrub   Valley & foothill grassland
Tetracoccus dioicus	Parry's tetracoccus	Dicots	PDEUP1C010	46	13	None	None	G3?	S2	1B.2	BLM_S-Sensitive   SB_RSABG-Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Ultramafic	
Thamnophis hammondii	two-striped garter snake	Reptiles	ARADB36160	147	5	None	None	G4	S3S4	null	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive	Marsh & swamp   Riparian scrub   Riparian woodland   Wetland	
Tryonia imitator	mimic tryonia (=California brackishwater snail)	Mollusks	IMGASJ7040	39	1	None	None	G2	S2	null	IUCN_DD-Data Deficient	Aquatic   Brackish marsh   Estuary   Lagoon   Marsh & swamp   Salt marsh   Wetland	
Vireo bellii pusillus	least Bell's vireo	Birds	ABPBW01114	467	21	Endangered	Endangered	G5T2	S2	null	IUCN_NT-Near Threatened   NABCI_YWL-Yellow Watch List	Riparian forest   Riparian scrub   Riparian woodland	

## **ATTACHMENT B**

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### California Native Plant Society (CNPS) Rare Plant Inventory



## Rare and Endangered Plant Inventory

## Plant List

82 matches found. Click on scientific name for details

Search Criteria						
Rare Plant Rank is one of [1A, 1B, 2A, 2B, 3, 4], FESA is one of [Endangered, Threatened, Species of Concern, Not Listed], CES is one of [Endangered, Threatened, Rare, Not Listed], Found in 9 Quads around 33117B1, Lifeform is one of [Tree, Shrub, Leaf succulent, Herb, Vine, Stem succulent, Lichen, Moss, Liverwort], Duration is one of [ann, per, ephem], Bloom Time is one of [January, February, March, April, May, June, July, August, September, October, November, December]						

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
<a href="#"><u>Acanthomintha ilicifolia</u></a>	San Diego thorn-mint	Lamiaceae	annual herb	1B.1	S1	G1
<a href="#"><u>Adolphia californica</u></a>	California adolphia	Rhamnaceae	perennial deciduous shrub	2B.1	S2	G3
<a href="#"><u>Ambrosia pumila</u></a>	San Diego ambrosia	Asteraceae	perennial rhizomatous herb	1B.1	S1	G1
<a href="#"><u>Arctostaphylos glandulosa ssp. crassifolia</u></a>	Del Mar manzanita	Ericaceae	perennial evergreen shrub	1B.1	S2	G5T2
<a href="#"><u>Arctostaphylos rainbowensis</u></a>	Rainbow manzanita	Ericaceae	perennial evergreen shrub	1B.1	S2	G2
<a href="#"><u>Artemesia palmeri</u></a>	San Diego sagewort	Asteraceae	perennial deciduous shrub	4.2	S3?	G3G4
<a href="#"><u>Asplenium vespertinum</u></a>	western spleenwort	Aspleniaceae	perennial rhizomatous herb	4.2	S4	G4
<a href="#"><u>Astragalus oocarpus</u></a>	San Diego milk-vetch	Fabaceae	perennial herb	1B.2	S3	G3
<a href="#"><u>Atriplex coulteri</u></a>	Coulter's saltbush	Chenopodiaceae	perennial herb	1B.2	S2	G2
<a href="#"><u>Atriplex pacifica</u></a>	South Coast saltscale	Chenopodiaceae	annual herb	1B.2	S2	G3G4
<a href="#"><u>Atriplex parishii</u></a>	Parish's brittlescale	Chenopodiaceae	annual herb	1B.1	S1	G1G2
<a href="#"><u>Baccharis vanessae</u></a>	Encinitas baccharis	Asteraceae	perennial deciduous shrub	1B.1	S1	G1
<a href="#"><u>Berberis nevinii</u></a>	Nevin's barberry	Berberidaceae	perennial evergreen shrub	1B.1	S1	G1
<a href="#"><u>Bloomeria clevelandii</u></a>	San Diego goldenstar	Themidaceae	perennial bulbiferous herb	1B.1	S2	G2
<a href="#"><u>Brodiaea filifolia</u></a>	thread-leaved brodiaea	Themidaceae	perennial bulbiferous herb	1B.1	S1	G1
<a href="#"><u>Brodiaea orcuttii</u></a>	Orcutt's brodiaea	Themidaceae	perennial bulbiferous herb	1B.1	S2	G2
<a href="#"><u>California macrophylla</u></a>	round-leaved filaree	Geraniaceae	annual herb	1B.1	S2	G2
<a href="#"><u>Calochortus dunnii</u></a>	Dunn's mariposa lily	Liliaceae	perennial bulbiferous herb	1B.2	S2?	G2?
<a href="#"><u>Camissoniopsis lewisii</u></a>	Lewis' evening-primrose	Onagraceae	annual herb	3	S4	G4
<a href="#"><u>Caulanthus simulans</u></a>	Payson's jewel-flower	Brassicaceae	annual herb	4.2	S4	G4
<a href="#"><u>Ceanothus verrucosus</u></a>	wart-stemmed ceanothus	Rhamnaceae	perennial evergreen shrub	2B.2	S2	G3
<a href="#"><u>Centromadia parryi ssp. australis</u></a>	southern tarplant	Asteraceae	annual herb	1B.1	S2	G3T2
<a href="#"><u>Centromadia pungens ssp. laevis</u></a>	smooth tarplant	Asteraceae	annual herb	1B.1	S2	G3G4T2
<a href="#"><u>Chamaebatia australis</u></a>	southern mountain misery	Rosaceae	perennial evergreen shrub	4.2	S4	G4
<a href="#"><u>Chorizanthe leptotheca</u></a>	Peninsular spineflower	Polygonaceae	annual herb	4.2	S3	G3
<a href="#"><u>Chorizanthe orcuttiana</u></a>	Orcutt's spineflower	Polygonaceae	annual herb	1B.1	S1	G1

<u><a href="#">Clarkia delicata</a></u>	delicate clarkia	Onagraceae	annual herb	1B.2	S3	G3
<u><a href="#">Comarostaphylis diversifolia ssp. diversifolia</a></u>	summer holly	Ericaceae	perennial evergreen shrub	1B.2	S2	G3T2
<u><a href="#">Convolvulus simulans</a></u>	small-flowered morning-glory	Convolvulaceae	annual herb	4.2	S4	G4
<u><a href="#">Corethrogyne filaginifolia var. incana</a></u>	San Diego sand aster	Asteraceae	perennial herb	1B.1	S1	G4T1
<u><a href="#">Corethrogyne filaginifolia var. linifolia</a></u>	Del Mar Mesa sand aster	Asteraceae	perennial herb	1B.1	S1	G4T1
<u><a href="#">Deinandra paniculata</a></u>	paniculate tarplant	Asteraceae	annual herb	4.2	S4	G4
<u><a href="#">Delphinium hesperium ssp. cuyamacaee</a></u>	Cuyamaca larkspur	Ranunculaceae	perennial herb	1B.2	S2	G4T2
<u><a href="#">Dichondra occidentalis</a></u>	western dichondra	Convolvulaceae	perennial rhizomatous herb	4.2	S3S4	G3G4
<u><a href="#">Dudleya alainae</a></u>	Banner dudleya	Crassulaceae	perennial herb	3.2	S1?	G1?Q
<u><a href="#">Dudleya variegata</a></u>	variegated dudleya	Crassulaceae	perennial herb	1B.2	S2	G2
<u><a href="#">Dudleya viscida</a></u>	sticky dudleya	Crassulaceae	perennial herb	1B.2	S2	G2
<u><a href="#">Ericameria palmeri var. palmeri</a></u>	Palmer's goldenbush	Asteraceae	perennial evergreen shrub	1B.1	S1	G4T2T3
<u><a href="#">Eryngium aristulatum var. parishii</a></u>	San Diego button-celery	Apiaceae	annual / perennial herb	1B.1	S1	G5T1
<u><a href="#">Ferocactus viridescens</a></u>	San Diego barrel cactus	Cactaceae	perennial stem succulent	2B.1	S3	G3
<u><a href="#">Harpagonella palmeri</a></u>	Palmer's grapplinghook	Boraginaceae	annual herb	4.2	S3	G4
<u><a href="#">Hazardia orcuttii</a></u>	Orcutt's hazardia	Asteraceae	perennial evergreen shrub	1B.1	S1	G1
<u><a href="#">Heterotheca sessiliflora ssp. sessiliflora</a></u>	beach goldenaster	Asteraceae	perennial herb	1B.1	S1	G4T2T3
<u><a href="#">Holocarpha virgata ssp. elongata</a></u>	graceful tarplant	Asteraceae	annual herb	4.2	S3	G5T3
<u><a href="#">Hordeum intercedens</a></u>	vernal barley	Poaceae	annual herb	3.2	S3S4	G3G4
<u><a href="#">Horkelia cuneata var. puberula</a></u>	mesa horkelia	Rosaceae	perennial herb	1B.1	S1	G4T1
<u><a href="#">Horkelia truncata</a></u>	Ramona horkelia	Rosaceae	perennial herb	1B.3	S3	G3
<u><a href="#">Hulsea californica</a></u>	San Diego sunflower	Asteraceae	perennial herb	1B.3	S2	G2
<u><a href="#">Isocoma menziesii var. decumbens</a></u>	decumbent goldenbush	Asteraceae	perennial shrub	1B.2	S2	G3G5T2T3
<u><a href="#">Iva hayesiana</a></u>	San Diego marsh-elder	Asteraceae	perennial herb	2B.2	S2	G3?
<u><a href="#">Juncus acutus ssp. leopoldii</a></u>	southwestern spiny rush	Juncaceae	perennial rhizomatous herb	4.2	S4	G5T5
<u><a href="#">Lepechinia cardiophylla</a></u>	heart-leaved pitcher sage	Lamiaceae	perennial shrub	1B.2	S2S3	G3?
<u><a href="#">Lepidium virginicum var. robinsonii</a></u>	Robinson's pepper-grass	Brassicaceae	annual herb	4.3	S3	G5T3
<u><a href="#">Leptosiphon grandiflorus</a></u>	large-flowered leptosiphon	Polemoniaceae	annual herb	4.2	S3	G3
<u><a href="#">Leptosyne maritima</a></u>	sea dahlia	Asteraceae	perennial herb	2B.2	S1	G3
<u><a href="#">Lilium parryi</a></u>	lemon lily	Liliaceae	perennial bulbiferous herb	1B.2	S3	G3
<u><a href="#">Linanthus orcuttii</a></u>	Orcutt's linanthus	Polemoniaceae	annual herb	1B.3	S2	G4
<u><a href="#">Microseris douglasii ssp. platycarpa</a></u>	small-flowered microseris	Asteraceae	annual herb	4.2	S4	G4T4
<u><a href="#">Mimulus clevelandii</a></u>	Cleveland's bush monkeyflower	Phrymaceae	perennial rhizomatous herb	4.2	S4	G4
<u><a href="#">Mimulus diffusus</a></u>	Palomar monkeyflower	Phrymaceae	annual herb	4.3	S3	G4Q
<u><a href="#">Monardella hypoleuca ssp. intermedia</a></u>	intermediate monardella	Lamiaceae	perennial rhizomatous herb	1B.3	S2S3	G4T2T3
<u><a href="#">Monardella hypoleuca ssp. lanata</a></u>	felt-leaved monardella	Lamiaceae	perennial rhizomatous herb	1B.2	S3	G4T3
<u><a href="#">Monardella macrantha ssp. hallii</a></u>	Hall's monardella	Lamiaceae	perennial rhizomatous herb	1B.3	S3	G5T3
<u><a href="#">Monardella nana ssp. leptosiphon</a></u>	San Felipe monardella	Lamiaceae	perennial rhizomatous herb	1B.2	S2	G4G5T2Q
<u><a href="#">Myosurus minimus ssp. apus</a></u>	little mousetail	Ranunculaceae	annual herb	3.1	S2	G5T2Q
<u><a href="#">Navarretia fossalis</a></u>	spreading navarretia	Polemoniaceae	annual herb	1B.1	S1	G1

<u><a href="#">Nolina cismontana</a></u>	chaparral nolina	Ruscaceae	perennial evergreen shrub	1B.2	S2	G2
<u><a href="#">Ophioglossum californicum</a></u>	California adder's-tongue	Ophioglossaceae	perennial rhizomatous herb	4.2	S4	G4
<u><a href="#">Pentachaeta aurea ssp. aurea</a></u>	golden-rayed pentachaeta	Asteraceae	annual herb	4.2	S3	G4T3
<u><a href="#">Phacelia ramosissima var. austrolitoralis</a></u>	south coast branching phacelia	Boraginaceae	perennial herb	3.2	S3	G5?T3
<u><a href="#">Polygala cornuta var. fishiae</a></u>	Fish's milkwort	Polygalaceae	perennial deciduous shrub	4.3	S4	G5T4
<u><a href="#">Psilocarphus brevissimus var. multiflorus</a></u>	Delta woolly-marbles	Asteraceae	annual herb	4.2	S3	G4T3
<u><a href="#">Quercus dumosa</a></u>	Nuttall's scrub oak	Fagaceae	perennial evergreen shrub	1B.1	S3	G3
<u><a href="#">Quercus engelmannii</a></u>	Engelmann oak	Fagaceae	perennial deciduous tree	4.2	S3	G3
<u><a href="#">Saltugilia caruifolia</a></u>	caraway-leaved woodland-gilia	Polemoniaceae	annual herb	4.3	S4	G4
<u><a href="#">Scutellaria bolanderi ssp. austromontana</a></u>	southern mountains skullcap	Lamiaceae	perennial rhizomatous herb	1B.2	S2	G4T2
<u><a href="#">Stemodia durantifolia</a></u>	purple stemodia	Plantaginaceae	perennial herb	2B.1	S2	G5
<u><a href="#">Symphyotrichum defoliatum</a></u>	San Bernardino aster	Asteraceae	perennial rhizomatous herb	1B.2	S2	G2
<u><a href="#">Tetracoccus dioicus</a></u>	Parry's tetracoccus	Picridendraceae	perennial deciduous shrub	1B.2	S2	G3?
<u><a href="#">Viguiera laciniata</a></u>	San Diego County viguiera	Asteraceae	perennial shrub	4.2	S4	G4
<u><a href="#">Viola purpurea ssp. aurea</a></u>	golden violet	Violaceae	perennial herb	2B.2	S2S3	G5T2T3
<u><a href="#">Xanthisma junceum</a></u>	rush-like bristleweed	Asteraceae	perennial herb	4.3	S4	G5

**Suggested Citation**

CNPS, Rare Plant Program. 2015. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website <http://www.rareplants.cnps.org> [accessed 26 February 2015].

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## **ATTACHMENT C**

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### **U.S. Fish and Wildlife Service (USFWS) IPaC Trust Resource Report**

# Escondido MFRO

## *IPaC Trust Resource Report*

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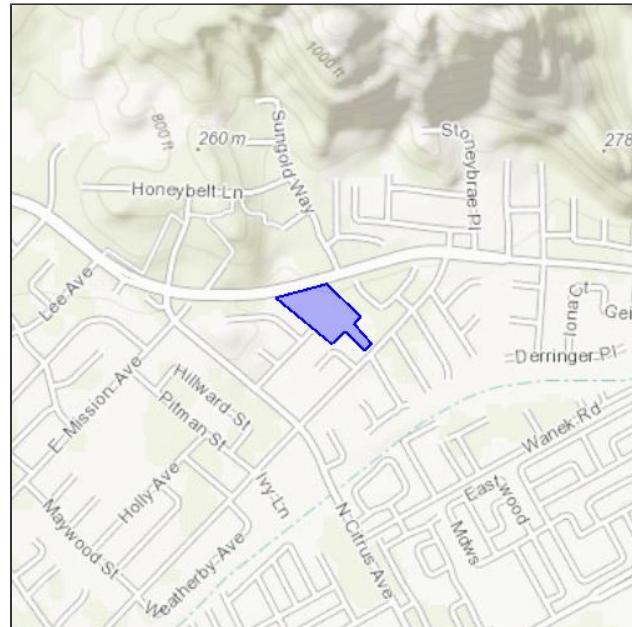


US Fish &amp; Wildlife Service

# IPaC Trust Resource Report



## Project Description

**NAME****Escondido MFRO****PROJECT CODE****R2OIC-GLNMN-DZ7GH-RSPXI-DKQE7E****LOCATION****San Diego County, California****DESCRIPTION****No description provided**

## U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

**Carlsbad Fish And Wildlife Office**

2177 Salk Avenue - Suite 250

Carlsbad, CA 92008-7385

(760) 431-9440

# Endangered Species

Proposed, candidate, threatened, and endangered species that are managed by the [Endangered Species Program](#) and should be considered as part of an effect analysis for this project.

This unofficial species list is for informational purposes only and does not fulfill the requirements under [Section 7](#) of the Endangered Species Act, which states that Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action." This requirement applies to projects which are conducted, permitted or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can be obtained by returning to this project on the IPaC website and requesting an Official Species List from the regulatory documents section.

## Birds

<b>Coastal California Gnatcatcher</b> <i>Polioptila californica californica</i>	<b>Threatened</b>
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CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B08X>

<b>Least Bell's Vireo</b> <i>Vireo bellii pusillus</i>	<b>Endangered</b>
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CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B067>

<b>Southwestern Willow Flycatcher</b> <i>Empidonax traillii extimus</i>	<b>Endangered</b>
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CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B094>

## Flowering Plants

### San Diego Ambrosia *Ambrosia pumila*

Endangered

#### CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q01H>

### San Diego Thormint *Acanthomintha ilicifolia*

Threatened

#### CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q00F>

### Willowy Monardella *Monardella viminea*

Endangered

#### CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q18M>

## Critical Habitats

Potential effects to critical habitat(s) within the project area must be analyzed along with the endangered species themselves.

There is no critical habitat within this project area

# Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the Bald and Golden Eagle Protection Act.

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service ([1](#)). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

You are responsible for complying with the appropriate regulations for the protection of birds as part of this project. This involves analyzing potential impacts and implementing appropriate conservation measures for all project activities.

<b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B008">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B008</a>	
<b>Bell's Sparrow</b> <i>Amphispiza belli</i>	<b>Bird of conservation concern</b>
Year-round	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HE">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HE</a>	
<b>Black-chinned Sparrow</b> <i>Spizella atrogularis</i>	<b>Bird of conservation concern</b>
Season: Breeding	
<b>Brewer's Sparrow</b> <i>Spizella breweri</i>	<b>Bird of conservation concern</b>
Year-round	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HA">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HA</a>	
<b>Burrowing Owl</b> <i>Athene cunicularia</i>	<b>Bird of conservation concern</b>
Year-round	
<b>Cactus Wren</b> <i>Campylorhynchus brunneicapillus</i>	<b>Bird of conservation concern</b>
Year-round	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FZ">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FZ</a>	
<b>Costa's Hummingbird</b> <i>Calypte costae</i>	<b>Bird of conservation concern</b>
Season: Breeding	
<b>Fox Sparrow</b> <i>Passerella iliaca</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<b>Green-tailed Towhee</b> <i>Pipilo chlorurus</i>	<b>Bird of conservation concern</b>
Season: Breeding	
<b>Gull-billed Tern</b> <i>Leucophaea melanocephala</i>	<b>Bird of conservation concern</b>
Season: Breeding	
<b>Lawrence's Goldfinch</b> <i>Carduelis lawrencei</i>	<b>Bird of conservation concern</b>
Year-round	
<b>Least Bittern</b> <i>Ixobrychus exilis</i>	<b>Bird of conservation concern</b>
Year-round	
<b>Lewis's Woodpecker</b> <i>Melanerpes lewis</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<b>Loggerhead Shrike</b> <i>Lanius ludovicianus</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY</a>	

<b>Long-billed Curlew</b> <i>Numenius americanus</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06S">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06S</a>	
<b>Lucy's Warbler</b> <i>Vermivora luciae</i>	<b>Bird of conservation concern</b>
Season: Breeding	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DL">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DL</a>	
<b>Mountain Plover</b> <i>Charadrius montanus</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078</a>	
<b>Nuttall's Woodpecker</b> <i>Picoides nuttallii</i>	<b>Bird of conservation concern</b>
Year-round	
<b>Oak Titmouse</b> <i>Baeolophus inornatus</i>	<b>Bird of conservation concern</b>
Year-round	
<b>Olive-sided Flycatcher</b> <i>Contopus cooperi</i>	<b>Bird of conservation concern</b>
Season: Breeding	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0AN">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0AN</a>	
<b>Peregrine Falcon</b> <i>Falco peregrinus</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU</a>	
<b>Short-billed Dowitcher</b> <i>Limnodromus griseus</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<b>Short-eared Owl</b> <i>Asio flammeus</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HD">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HD</a>	
<b>Tricolored Blackbird</b> <i>Agelaius tricolor</i>	<b>Bird of conservation concern</b>
Year-round	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06P">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06P</a>	
<b>White Headed Woodpecker</b> <i>Picoides albolarvatus</i>	<b>Bird of conservation concern</b>
Year-round	
<b>Red Knot</b> <i>Calidris canutus</i> ssp. <i>roselaari</i>	<b>Bird of conservation concern</b>
Season: Wintering	
<a href="https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0G6">https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0G6</a>	

## Refuges

Any activity proposed on [National Wildlife Refuge](#) lands must undergo a 'Compatibility Determination' conducted by the Refuge. If your project overlaps or otherwise impacts a Refuge, please contact that Refuge to discuss the authorization process.

There are no refuges within this project area

# Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

Project proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

## DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

## DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubificid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

## DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands identified in this project area