



**GENERAL BIOLOGICAL ASSESSMENT  
AND  
WESTERN RIVERSIDE COUNTY MSHCP  
CONSISTENCY ANALYSIS  
FOR  
ASSESSOR'S PARCEL NUMBERS  
331-060-021 AND -036**

**CITY OF MENIFEE, COUNTY OF RIVERSIDE, CALIFORNIA**

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## **1.0 Introduction**

HES was contracted to prepare a General Biological Assessment (GBA) and Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Consistency Analysis for Assessor's Parcel Numbers (APNs) 331-060-021 and -036. The project site consists of approximately 13.7 acres located south of Ethanac Road in the City of Menifee, County of Riverside, California.

### **1.1 Project Site Location**

The project site consists of Riverside County Assessor's Parcel Numbers (APNs) 331-060-021 and -036. The 13.7-acre property is located on the northeast corner of Ethanac Road and Barnett Road in the City of Menifee, County of Riverside, California. Specifically, the project site is located within Township 5 South, Range 3 West in Section 16 of the *Romoland* United States Geological Survey (USGS) 7.5' topographic quadrangle. The center point latitude and longitude for the project site are 33°44'25.9956" North and 117°11'39.5672" West (Figures 1 and 2, *Location Map* and *Vicinity Map*).

### **1.2 Project Description**

The proposed project includes the construction of two business buildings, each 125,890 square feet (SF). The project also includes curbs, drainages, a catch basin, related parking lots, and storm drains (Figure 3, *Project Plans*). The project will result in impacts to the entire 13.7-acre site.

## **2.0 Methodology**

### **2.1 Literature Review**

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

#### **2.1.1 Western Riverside County MSHCP**

The Western Riverside County MSHCP (Dudek and Associates 2003) is a comprehensive, multijurisdictional habitat conservation planning program for western Riverside County,

California. The purpose of the Western Riverside County MSHCP is to preserve native habitats, and to this end, the plan focuses upon the habitat needs of multiple species rather than one species at a time. The Western Riverside County MSHCP provides coverage/take authorization for some species listed under the federal or state Endangered Species Act (ESA) as well as non-listed special-status plant and wildlife species. It also provides mitigation for impacts to special-status species and their associated habitats.

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

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

### **2.1.2 Project Relationship to the Western Riverside County MSHCP**

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

The project site is not located within a MSHCP Criteria Cell or Cell Group. Further, the project site is not located within plan-defined areas requiring surveys for criteria area species, narrow endemic species, amphibian species, or mammalian species. However, the site is located within plan-defined areas requiring surveys for burrowing owl (*Athene cunicularia*). A habitat assessment was conducted for burrowing owl following Step 1 of the Burrowing Owl Survey Instructions for the Western Riverside MSHCP. The habitat assessment determined that the site does provide suitable burrows/nesting opportunities for burrowing owl. Therefore, a 30-day preconstruction survey is required prior to the commencement of project activities.

## 2.2 Field Survey

On February 4, 2022, HES conducted a field survey of the site. Ambient temperature at 11:30 A.M. was 65 degrees Fahrenheit, clear skies, with winds ranging from 0 to 11 miles per hour from the west. The purpose of the field survey was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding land uses, assess the potential for state and federal waters, assess the potential for wildlife movement corridors, and assess the presence of constituent elements for critical habitat if present.

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

## 3.0 Existing Conditions and Results

### 3.1 Environmental Setting

The 13.7-acre project site consists of disturbed, vacant land dominated by ruderal vegetation. The site appears to be regularly disturbed by vegetation management activities. The site is relatively flat with elevations ranging from 1,417 feet to 1,427 feet above mean sea level (AMSL). Surrounding land uses include commercial development to the north, vacant land to the west and south, and a gas station followed by the Interstate 215 Freeway to east.

### 3.2 Soils

Two soil classes are identified to occur on the project site by the USDA Web Soil Survey (Appendix D, *Soils Map*). Soils at the project site are classified as follows:

- Exeter sandy loam (EnA), 0 to 2 percent slopes; and
- Monserate sandy loam (MmB), 0 to 5 percent slopes.

The soils above are not classified as hydric soils.

### 3.3 Plant and Habitat Communities

The project site contains approximately 13.7 acres of ruderal habitat (Figure 4, *Habitat Map*). This area is comprised of sparse non-native vegetation such as Russian thistle (*Salsola tragus*),

shortpod mustard (*Hirschfeldia incana*), and London rocket (*Sisymbrium irio*). The property is open but has a chain link fence around portions of the border.

### **3.4 Wildlife**

General wildlife species documented on the project site or within the vicinity of the site include the common raven (*Corvus corax*), California ground squirrel (*Otospermophilus beecheyi*) and desert cottontail (*Sylvilagus audubonii*).

### **3.5 Regional Connectivity/Wildlife Movement**

Wildlife movement corridors link together areas of suitable habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbances. The project area was evaluated for its function as a wildlife corridor that species use to move between wildlife habitat zones. Usually, mountain canyons or riparian corridors are used by wildlife as corridors.

The project area was evaluated for its function as a wildlife corridor that species use to move between wildlife habitat zones. The project site consists of flat, ruderal land surrounded by urban development, including disturbed land, commercial buildings, and Interstate 215. No wildlife movement corridors were found to be present on the project site.

### **3.6 Sensitive Biological Resources**

According to the CNDDDB, a total of 53 sensitive species of plants and 61 sensitive species of animals has the potential to occur on or within the vicinity of the project area. These include those species listed or candidates for listing by the U. S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW) and California Native Plant Society (CNPS). All habitats with the potential to be used by sensitive species were evaluated during the site visit and a determination has been made for the presence or probability of presence within this report. This section will address those species listed as Candidate, Rare, Threatened, or Endangered under the state and federal endangered species laws or directed to be evaluated under the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP). Sensitive species which have a potential to occur will also be discussed in this section. Other special status species are addressed within Appendix B, *Species Probability List*.

#### **3.6.1 Sensitive Plant Resources**

A total of eighteen plant species are listed as state and/or federal Threatened, Endangered, or Candidate species; are 1B.1 listed plants on the CNPS Rare Plant Inventory; or have been found to have a potential to exist on the project site. Below are descriptions of these species:

**Chaparral sand-verbena**

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

**Munz's onion**

Munz's onion (*Allium munzii*) is a federally Endangered, state Threatened, and CNPS 1B.1 listed plant species. It is found in chaparral, coastal scrub, valley and foothill grasslands, cismontane woodland, and pinyon and juniper woodland. The project site does not have suitable habitat for this species. **This species is not present.**

**San Diego ambrosia**

San Diego ambrosia (*Ambrosia pumila*) is listed as federally Endangered and ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes wetlands in chaparral, coastal sage scrub, valley and foothill grassland. It is commonly found in sandy loam or clay soil and sometimes in alkaline soils. This species persists where disturbance has been superficial. It is also sometimes found on margins or near vernal pools. No habitat for this species is present on the project site. **This species is not present.**

**Rainbow manzanita**

Rainbow Manzanita (*Arctostaphylos rainbowensis*) is ranked 1B.1 in the CNPS Rare Plant Inventory. It is usually found in gabbro chaparral habitat. No habitat for this species is present on the project site. **This species is not present.**

**Jaeger's milk-vetch**

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

**San Jacinto Valley crownscale**

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

**Parish's brittlescale**

Parish's brittlescale (*Atriplex parishii*) is ranked 1B.1 in the CNPS Rare Plant inventory. Its habitat includes shadescale scrub, alkali sink, riparian, playas, vernal pools and wetland. It is



usually found on drying alkali flats with fine soils. No habitat for this species is present on the project site. **This species is not present.**

### **Thread-leaved brodiaea**

The thread-leaved brodiaea (*brodiaea filifolia*) is a federally Threatened and state Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found in chaparral, cismontane woodlands, coastal sage scrub, valley and foothill grasslands, vernal pools and wetland. No habitat for this species is present on the project site. **This species is not present.**

### **Smooth tarplant**

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

### **Parry's spineflower**

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

### **Slender-horned spineflower**

Slender - horned spineflower (*Dodecahema leptoceras*) is a federally and state listed Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes chaparral, cismontane woodland, and coastal scrub (alluvial fan sage scrub). No habitat for this species exists on the project site. **This species is not present.**

### **San Diego button-celery**

San Diego button-celery (*Eryngium aristulatum var. parishii*) is a federally and state listed Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes coastal scrub, valley & foothill grasslands, vernal pools, and wetlands. No habitat for this species is present on the project site. **This species is not present.**

### **Campbell's liverwort**

Campbell's liverwort (*Geothallus tuberosus*) is ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes coastal scrub, and vernal pools. No habitat for this species is present on the project site. **This species is not present.**

**Tecate cypress**

Tecate cypress (*Hesperocyparis forbesii*) is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found on clay or gabbro, primarily on north-facing slopes and in groves often associated with chaparral habitat. Its habitat includes closed-cone coniferous forest, and chaparral. No habitat for this species is present on the project site. **This species is not present.**

**Coulter's goldfields**

Coulter's goldfields (*Lasthenia glabrata ssp.coulteri*) is ranked 1B.1 in the CNPS Rare Plant Inventory. This species is usually found on alkaline soils in playas, sinks, and grasslands and flowers during April through May. Its habitat includes alkali playas, marsh, swamp, salt marsh, vernal pool, and wetland. No habitat for this species is present on the project site. **This species is not present.**

**Spreading navarretia**

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

**California Orcutt grass**

California Orcutt grass (*Orcuttia californica*) is a federally and state listed Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found in vernal pools. No habitat for this species is present on the project site. **This species is not present.**

**Bottle liverwort**

Bottle liverwort (*Sphaerocarpos drewiae*) is ranked 1B.1 in the CNPS Rare Plant Inventory. It is typically found in chaparral and coastal scrub in openings on soil. No habitat for this species is present on the project site. **This species is not present.**

**3.6.2 Sensitive Animal Resources**

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

**Tricolored blackbird**

Tricolored blackbird (*Agelaius tricolor*) is a state listed Threatened Species and listed by the CDFW as a Species of Special Concern. The species occupies freshwater marshes with canopies

of willows and other riparian trees. This species requires open accessible water and suitable foraging space. There is no habitat for this species on the project site. **This species is not present.**

### **Arroyo Toad**

Arroyo Toad (*Anaxyrus californicus*) is a federally listed Endangered Species and a CDFW Species of Special Concern. The most favorable breeding habitat for this species consists of slow-moving shallow pools, nearby sandbars, and adjacent stream terraces. There is no habitat for this species on the project site. **The species is not present.**

### **Burrowing owl**

Burrowing owl (*Athene cunicularia*) is a CDFW Species of Special Concern. This species is found in coastal prairie, coastal scrub, great basin grassland, great basin scrub, Mojave Desert scrub, Sonoran Desert scrub, and valley and foothill grassland. This species is typically found in open and dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. It is a subterranean nester and is dependent upon burrowing mammals, most notably the California ground squirrel. A habitat assessment conducted for burrowing owl found that suitable habitat for this species is present on the project site. Focused burrowing owl protocol surveys were performed, and no burrowing owl or burrowing owl sign was found (Appendix E, *Focused Burrowing Owl Survey Report*). **This species is not present.**

### **Vernal pool fairy shrimp**

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

### **San Diego fairy shrimp**

San Diego fairy shrimp (*Branchinecta sandiegonensis*) is a federally listed Endangered Species. This species is found in chaparral, coastal scrub, vernal pool, and wetland habitats. There is no habitat for this species on the project site. **The species is not present.**

### **Swainson's hawk**

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

**Western snowy plover**

Western snowy plover (*Charadrius alexandrinus nivosus*) is federally listed Threatened species and a CDFW Species of Special Concern. It is found in great basin standing waters, sand shore, and wetland. This species needs sandy, gravelly, or friable soils for nesting. The project site does not contain suitable habitat for this species. **This species is not present.**

**San Bernardino kangaroo rat**

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

**Stephen's kangaroo rat**

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

**Quino checkerspot butterfly**

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

**Bald eagle**

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

**Coastal California gnatcatcher**

Coastal California gnatcatcher (*Polioptila californica californica*) is a federally listed Threatened Species and CDFW Species of Special Concern. This species is found in coastal bluff scrub and coastal scrub habitat. This species is typically found in low, coastal sage scrub in arid washes, on mesas and slopes. The project site does not have suitable habitat for this species. **This species is not present.**

### **California red-legged frog**

California red-legged frog (*Rana draytonii*) is a federally Threatened Species and a CDFW Species of Special Concern. It is found in a variety of aquatic habitats, flowing waters, and standing waters, and requires 11-20 weeks off permanent water for larval development. The project site does not contain suitable habitat for this species. **This species is not present.**

### **Riverside fairy shrimp**

Riverside fairy shrimp (*Streptocephalus woottoni*) is a federally listed Endangered Species. This species is found in coastal scrub, valley and foothill grassland, vernal pool, and wetland habitat. This species typically inhabits seasonally astatic pools filled by winter/spring rains. The project site does not contain suitable habitat for this species. **This species is not present.**

### **Least Bell's vireo**

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

## **3.6.3 Nesting Birds**

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

## **3.7 Jurisdictional Waters**

The project area does not contain any streams or drainages or riparian habitat. There are no CDFW, United States Army Corps of Engineers (USACE), or Regional Water Quality Control Board (RWQCB) jurisdictional waters within the project boundaries. Further, the project area does not contain any wetlands or vernal pools.

## **4.0 Project Impacts**

### **4.1 Impacts to Habitats**

The 13.7-acre project site contains predominantly ruderal habitat. The construction of the two buildings and associated development is expected to impact the entire 13.7 acres of ruderal habitat on site (Figure 5, *Impacts Map*).

#### **4.2 Impacts to Sensitive Species**

There is suitable burrowing owl habitat present on site. Although there is suitable habitat present on site focused burrowing owl surveys determined that no burrowing owl are present on site at this time. Implementation of the measures identified in the Recommendations section of this report will ensure no impacts to this species will occur.

#### **4.3 Impacts to Nesting Birds**

The project site contains shrubs and is bordered by trees suitable for supporting nesting songbirds during the nesting bird season of February 1 through September 15. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to nesting birds are less than significant.

#### **4.4 Impacts to Critical Habitat**

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

#### **4.5 Impacts to Wildlife Movement Corridors**

Wildlife movement corridors link together areas of suitable habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbances. The project site was evaluated for its function as a wildlife corridor that species would use to move between wildlife habitat zones. Typically, mountain canyons or riparian corridors are used by wildlife as corridors; the project site does not contain these features. The project site consists of flat, disturbed land dominated by ruderal vegetation. No wildlife movement corridors were found to be present on the project site. No impacts to wildlife movement corridors are expected.

#### **4.6 Conflict with Local Policies or Ordinances Protecting Biological Resources**

Any project activities that have the potential to impact offsite trees will require a survey of oak and native trees to comply with Riverside County Ordinance 559. No oak or native trees are located on the project site. Therefore, development of the project site would not conflict with local policies or ordinances protecting biological resources.

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

The project is within the Western Riverside MSHCP. If Western Riverside MSHCP guidelines and requirements are followed, no conflicts are expected.

#### **4.8 State and Federal Drainages**

The project area does not contain any streams, drainages, or riparian habitat; therefore, no impacts to state or federal jurisdictional drainages will result from project implementation.

#### **5.0 Western Riverside County MSHCP Consistency Analysis**

##### **5.1 MSHCP Requirements**

The project site is not located within a Criteria Cell or Cell Group. A discussion of the applicable Western Riverside County MSHCP requirements follows:

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

The project site does not contain habitat that may be considered riparian/riverine areas as defined in Section 6.1.2 of the Western Riverside County MSHCP. Due to the lack of suitable riparian habitat on the project site, focused surveys for riparian/riverine bird species listed in Section 6.1.2 of the MSHCP are not warranted.

Vernal pools are seasonal depressional wetlands that occur under Mediterranean climate conditions of the west coast and in glaciated conditions of northeastern and midwestern states. They are covered by shallow water for variable periods from winter to spring but may be completely dry most of the summer and fall. Vernal pools are usually associated with hard clay layers or bedrock, which helps keep water in the pools. Vernal pools and seasonal depressions usually are dominated by hydrophytic plants, hydric soils, and evidence of hydrology.

The entire site was evaluated for the presence of habitat capable of supporting branchiopods. The site was evaluated as described in the USFWS Survey Guidelines for the Listed Large Branchiopods (May 31, 2016). The project area is primarily comprised of sandy loam. The onsite soils do not allow for water pooling on the site for any significant length of time after rain events. No vernal pools, swales, or vernal pool mimics such as ditches, borrow pits, cattle troughs, or cement culverts with signs of pooling water were found on the site. In addition, the site does not contain areas that showed signs of ponding water, hydrophytic vegetation, or soils typical of vernal pools that would be suitable for large branchiopods.

###### *Section 6.1.3 Sensitive Plant Species*

The project site is not located within the Western Riverside County MSHCP Narrow Endemic Plant Species Survey Area (NEPSSA) pursuant to Section 6.1.3 of the MSHCP. Therefore, the NEPSSA requirements are not applicable to the project.

#### *Section 6.1.4 Urban/Wildlands Interface Guidelines*

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

#### *Section 6.3.2 Additional Surveys and Procedures*

The project site is not located within the Western Riverside County MSHCP Additional survey areas for amphibians, mammals, or any special linkage areas. In addition, the project site is not located within the Western Riverside County MSHCP Criteria Area Plant Species Survey Area (CAPSSA) pursuant to Section 6.3.2 of the Western Riverside County MSHCP. However, the project site is located within the Western Riverside County MSHCP Additional survey area for burrowing owl.

A habitat assessment for burrowing owl conducted on the site found that the project site does provide suitable burrows/nesting opportunities for burrowing owl and the closest CNDDDB occurrence was less than a mile away. Therefore, focused surveys for this species were conducted on the project site in March and April 2022 (Appendix E). Well-drained soils, ground squirrels and potential burrows were observed on the site. Approximately 81 suitable burrows were identified and recorded on site and within the 150-meter buffer. However, burrowing owl signs such as molted feathers, pellets, prey remains, or whitewash were not found. Further, no burrowing owl were observed on the project site. Based on the absence of burrowing owl and burrowing owl evidence within the study area, it can be concluded that the study area is not currently in use by burrowing owl.

However, the project site is located within the Western Riverside County MSHCP burrowing owl survey area, a 30-day preconstruction survey is required prior to the commencement of project activities (e.g. vegetation clearing, clearing and grubbing, tree removal, site watering) to ensure that no owls have colonized the site in the days or weeks preceding project activities. If BUOW are found to have colonized the project site prior to the initiation of construction, the project proponent will immediately inform RCA and the Wildlife Agencies and will need to prepare a Burrowing Owl Protection and Relocation Plan for approval by RCA and the Wildlife Agencies prior to initiating ground disturbance. If ground-disturbing activities occur but the site is left undisturbed for more than 30 days, a pre-construction survey will again be necessary to ensure burrowing owl has not colonized the site since it was last disturbed. If burrow owl is found, the same coordination described above will be necessary.

## **6.0 Recommendations**

Implementation of the following measures will mitigate any potential impacts resulting from project activities.



### Burrowing Owl

- The project site is located within the Western Riverside County MSHCP burrowing owl survey area, a 30-day preconstruction survey is required prior to the commencement of project activities (e.g. vegetation clearing, clearing and grubbing, tree removal, site watering) to ensure that no owls have colonized the site in the days or weeks preceding project activities.
- If burrowing owl are found to have colonized the project site prior to the initiation of construction, the project proponent will immediately inform RCA and the Wildlife Agencies and will need to prepare a Burrowing Owl Protection and Relocation Plan for approval by RCA and the Wildlife Agencies prior to initiating ground disturbance.
- If ground-disturbing activities occur but the site is left undisturbed for more than 30 days, a pre-construction survey will again be necessary to ensure burrowing owl has not colonized the site since it was last disturbed. If burrow owl is found, the same coordination described above will be necessary.

### Nesting Birds

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

## 7.0 Certification

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



Date 06-02-2022

Signed \_\_\_\_\_

PROJECT MANAGER

Fieldwork Performed By:

Elizabeth Gonzalez

\_\_\_\_\_  
ASSOCIATE BIOLOGIST

Sarah Gulyas

\_\_\_\_\_  
ASSOCIATE BIOLOGIST

Sarah Vasquez

\_\_\_\_\_  
ASSOCIATE BIOLOGIST

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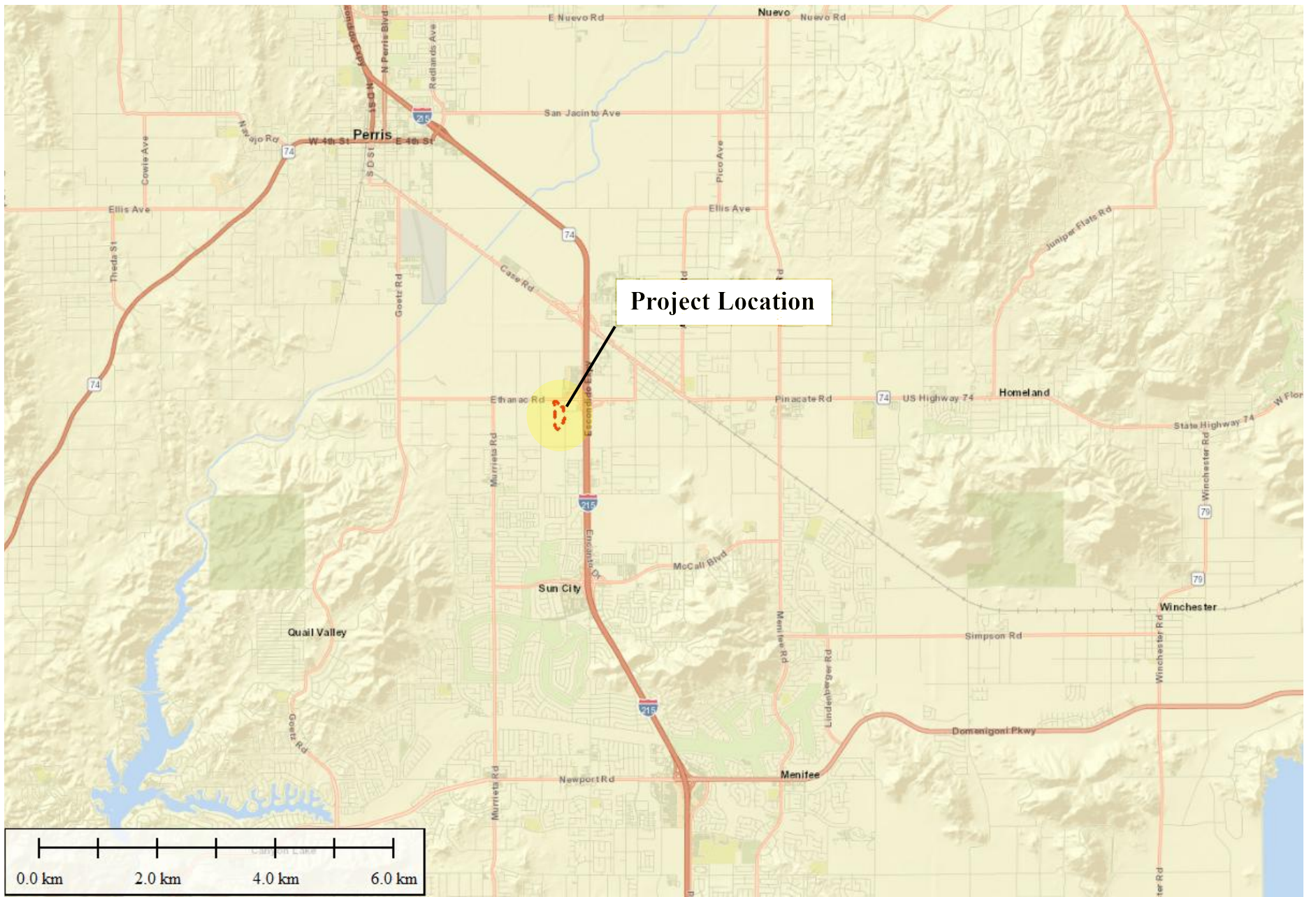
# FIGURES



**Figure 1**  
 Location Map  
 APNs: 331-060-021 & -036  
 Riverside County, California


**Legend**  
 Project Site Boundary





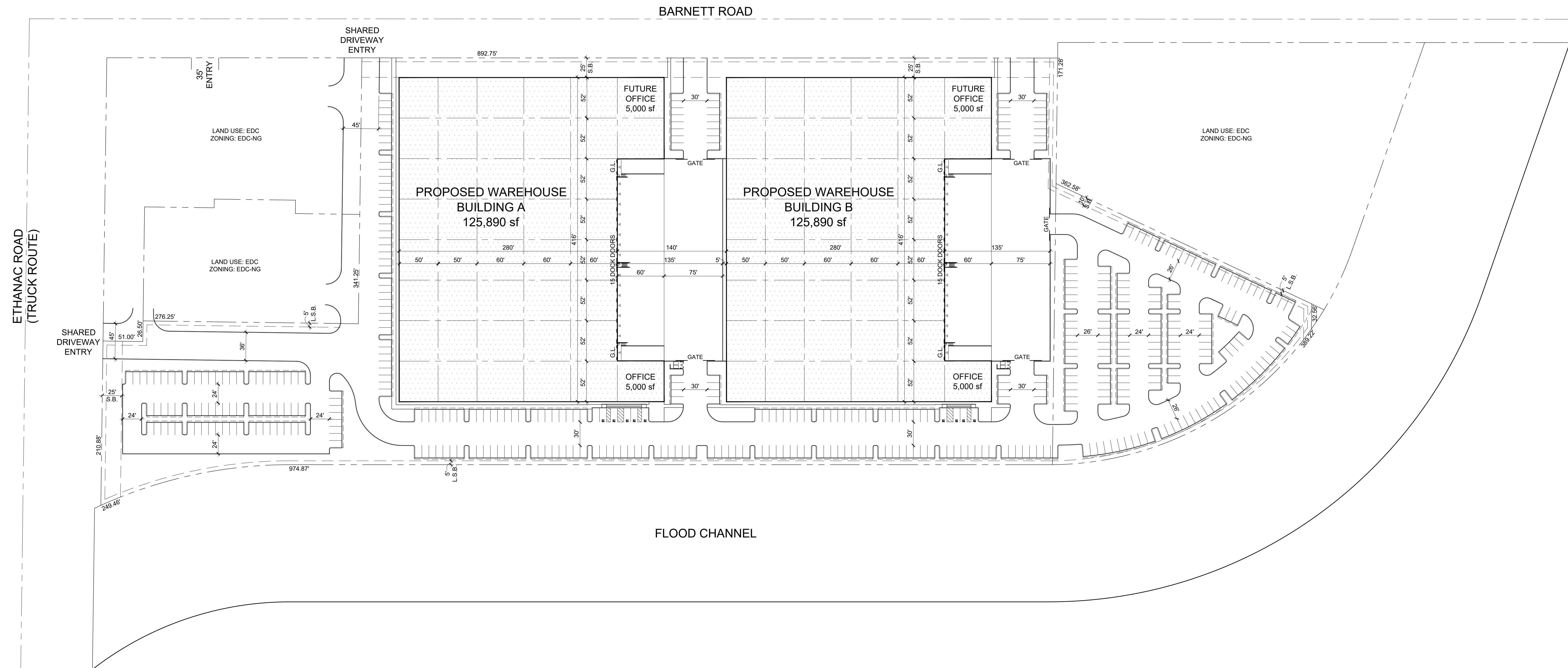
**Figure 2**  
 Vicinity Map  
 APNs: 331-060-021 & -036  
 Riverside County, California

**Legend**

 Project Site Boundary



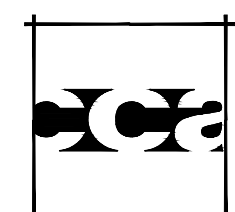
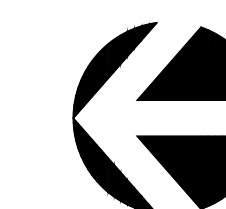
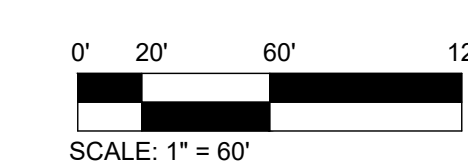
PROJECT INFORMATION		ECONOMIC DEVELOPMENT CORRIDOR-NORTHERN GATEWAY (EDC-NG) DEVELOPMENT STANDARDS:	
GROSS LOT AREA:	604,985 SF (13.89 acres)	LAND USE DESIGNATION:	EDC
BUILDING COVERAGE:	41.62%	ZONING DESIGNATION:	EDC-NG
TOTAL BUILDING AREA:	251,780 SF	MINIMUM LOT SIZE:	15,000 SF
BUILDING A:	125,890 SF	BUILDING TYPE:	MANUFACTURING
MANUFACTURING:	32,500 SF	MAXIMUM FLOOR AREA RATIO:	1.0
WAREHOUSE:	88,390 SF	MAXIMUM BUILDING HEIGHT:	100'
OFFICE:	10,000 SF	MAXIMUM BUILDING COVERAGE:	n/a
BUILDING B:	125,890 SF	MIN. BUILDING SETBACKS (yards):	
MANUFACTURING:	32,500 SF	FRONT YARD	25'
WAREHOUSE:	88,390 SF	ADJACENT TO RESIDENTIAL ZONE	25'
OFFICE:	10,000 SF	INTERIOR SIDE YARD	NONE
		STREET SIDE YARD	15'
		REAR YARD	10'
PARKING REQUIRED:	387 SPACES	TREE REQUIREMENTS:	1 TREE / 4 PARKING
MANUFACTURING: 65,000 sf (1/500)	130 SPACES	PARKING LOT SHADING REQ'S:	SHADE TREES - 50%
WAREHOUSE: 176,780 sf (1/1000)	177 SPACES	LANDSCAPE SETBACKS:	
OFFICE: 20,000 sf (1/250)	80 SPACES	FRONT, REAR, SIDE YARDS:	5'
		LANDSCAPING COVERAGE:	10%
PARKING PROVIDED:	452 SPACES	OFF STREET PARKING:	
STANDARD:	443 SPACES	STANDARD:	9' x 18'
ACCESSIBLE:	9 SPACES	DRIVE AISLE:	24'
DOCK DOORS:	30 SPACES	FIRE LANE:	24'
GRADE LEVEL DOORS:	4 SPACES	OVERHANG:	2'
LANDSCAPING COVERAGE PROVIDED:	TBD (xx.xx %)	REQUIRED PARKING:	
		MANUFACTURING:	1/500
		WAREHOUSE:	1/1000
		OFFICE:	1/250



**PRELIMINARY SITE PLAN  
SCHEME 5r1**

11 October 2021

**Barnett Road and Ethanac Road  
Menifee, California**



Carlile Coatsworth Architects, Inc  
18000 MacArthur Boulevard - Suite 300 - Irvine, CA 92612 - Phone: (949) 833-1500





A-2





**Figure 4**  
Habitat Map  
APNs: 331-060-021 & -036  
Riverside County, California

**Legend**



-  Project Site Boundary
-  Ruderal Habitat (13.7 acres)





**Figure 5**  
Impacts Map  
APNs: 331-060-021 & -036  
Riverside County, California

**Legend**

-  Project Site Boundary
-  Impacts Area (13.7 acres)



# **APPENDIX A**

## Species List

### Plant List

*Amsinckia sp.*

*Bromus sp.*

*Corymbia citriodora*

*Descurainia sophia*

*Erodium cicutarium*

*Erodium moschatum*

*Helianthus annuus*

*Hirschfeldia incana*

*Kali tragus*

*Malva parviflora*

*Olea europaea*

*Oncosiphon pilulifer*

*Parkinsonia aculeata*

*Schinus molle*

*Senecio vulgaris*

*Sisymbrium irio*

*Thlaspi arvense*

*Washingtonia robusta*

Fiddleneck sp.

Bromus sp.

Lemon-scented gum

Flixweed

Redstem filaree

Whitestem filaree

Common sunflower

Shortpod mustard

Russian thistle

Cheeseweed

Olive tree

Stinknet

Jerusalem thorn

Peruvian pepper tree

Common groundsel

London rocket

Stinkweed

Mexican fan palm

## **Animal List**

*Buteo jamaicensis*

Red-tailed hawk

*Corvus corax*

Common raven

*Otospermophilus beecheyi*

California ground squirrel

*Setophaga coronata*

Yellow-rumped warbler

*Sayornis nigricans*

Black Phoebe

*Sylvilagus audubonii*

Desert cottontail

*Tyrannus vociferans*

Cassin's kingbird

*Zenaida macroura*

Mourning dove

## **APPENDIX B**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand- verbena	Dicots	None	None	1B.1	Chaparral   Coastal scrub   Desert dunes	Chaparral, coastal scrub, desert dunes.	Sandy areas. -60-1570 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Allium marvinii</i>	Yucaipa onion	Monocots	None	None	1B.2	Chaparral	Chaparral.	In openings on clay soils. 850-1070 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Allium munzii</i>	Munz's onion	Monocots	Endangered	Threatened	1B.1	Chaparral   Cismontane woodland   Coastal scrub   Pinon & juniper woodlands   Valley & foothill grassland	Chaparral, coastal scrub, cismontane woodland, pinyon and juniper woodland, valley and foothill grassland.	Heavy clay soils; grows in grasslands and openings within shrublands or woodlands. 375-1040 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Almutaster pauciflorus</i>	alkali marsh aster	Dicots	None	None	2B.2	Meadow & seep	Meadow and seeps.	Alkaline. 60-765 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Ambrosia pumila	San Diego ambrosia	Dicots	Endangered	None	1B.1	Chaparral   Coastal scrub   Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	Sandy loam or clay soil; sometimes alkaline. In valleys; persists where disturbance has been superficial. Sometimes on margins or near vernal pools. 3-580 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Arctostaphylos rainbowensis	Rainbow manzanita	Dicots	None	None	1B.1	Chaparral   Ultramafic	Chaparral.	Usually found in gabbro chaparral. 100-870 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Astragalus pachypus var. jaegeri	Jaeger's milk-vetch	Dicots	None	None	1B.1	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland.	Dry ridges and valleys and open sandy slopes; often in grassland and oak-chaparral. 365-1040 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Atriplex coronata var. notatior	San Jacinto Valley crownscale	Dicots	Endangered	None	1B.1	Alkali playa   Valley & foothill grassland   Vernal pool   Wetland	Playas, valley and foothill grassland, vernal pools.	Alkaline areas in the San Jacinto River Valley. 35-460 m.	No suitable habitat is present on site. <b>This species is not present.</b>



Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
<i>Atriplex parishii</i>	Parish's brittle-scale	Dicots	None	None	1B.1	Alkali playa   Chenopod scrub   Meadow & seep   Vernal pool   Wetland	Vernal pools, chenopod scrub, playas.	Usually on drying alkali flats with fine soils. 4-1420 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Atriplex serenana</i> var. <i> davidsonii</i>	Davidson's salt-scale	Dicots	None	None	1B.2	Coastal bluff scrub   Coastal scrub	Coastal bluff scrub, coastal scrub.	Alkaline soil. 0-480 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Ayenia compacta</i>	California ayenia	Dicots	None	None	2B.3	Desert wash   Mojavean desert scrub   Sonoran desert scrub	Mojavean desert scrub, Sonoran desert scrub.	Sandy and gravelly washes in the desert; dry desert canyons. 60-1830 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	Monocots	Threatened	Endangered	1B.1	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland	Chaparral (openings), cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools.	Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Occurs in openings on clay soils. 15- 1030 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Brodiaea santarosae</i>	Santa Rosa Basalt brodiaea	Monocots	None	None	1B.2	Valley & foothill grassland	Valley and foothill grassland.	Santa Rosa Basalt. 585-1045 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
<i>Calochortus plummerae</i>	Plummer's mariposa-lily	Monocots	None	None	4.2	Chaparral   Cismontane woodland   Coastal scrub   Lower montane coniferous forest   Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Calochortus weedii</i> var. <i>intermedius</i>	intermediate mariposa-lily	Monocots	None	None	1B.2	Chaparral   Coastal scrub   Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland.	Dry, rocky calcareous slopes and rock outcrops. 60-1575 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Caulanthus simulans</i>	Payson's jewelflower	Dicots	None	None	4.2	Chaparral   Coastal scrub	Chaparral, coastal scrub.	Frequently in burned areas, or in disturbed sites such as streambeds; also on rocky, steep slopes. Sandy, granitic soils. 90-2200 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Centromadia pungens</i> ssp. <i>laevis</i>	smooth tarplant	Dicots	None	None	1B.1	Alkali playa   Chenopod scrub   Meadow & seep   Riparian woodland   Valley & foothill grassland   Wetland	Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland.	Alkali meadow, alkali scrub; also in disturbed places. 5-1170 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Chorizanthe parryi var. parryi	Parry's spineflower	Dicots	None	None	1B.1	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland	Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Chorizanthe polygonoides var. longispina	long-spined spineflower	Dicots	None	None	1B.2	Chaparral   Coastal scrub   Meadow & seep   Ultramafic   Valley & foothill grassland   Vernal pool	Chaparral, coastal scrub, meadows and seeps, valley and foothill grassland, vernal pools.	Gabbroic clay. 30-1630 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Clinopodium chandleri	San Miguel savory	Dicots	None	None	1B.2	Chaparral   Cismontane woodland   Coastal scrub   Riparian woodland   Ultramafic   Valley & foothill grassland	Chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland.	Rocky, gabbroic or metavolcanic substrate. 120-975 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Cryptantha wigginsii	Wiggins' cryptantha	Dicots	None	None	1B.2	Coastal scrub	Coastal scrub.	Often on clay soils. 45-110 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Dodecahema leptoceras	slender-horned spineflower	Dicots	Endangered	Endangered	1B.1	Chaparral   Cismontane woodland   Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Dudleya multicaulis	many-stemmed dudleya	Dicots	None	None	1B.2	Chaparral   Coastal scrub   Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	In heavy, often clayey soils or grassy slopes. 1-910 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Eryngium aristulatum var. parishii	San Diego button-celery	Dicots	Endangered	Endangered	1B.1	Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland	Vernal pools, coastal scrub, valley and foothill grassland.	San Diego mesa hardpan and claypan vernal pools and southern interior basalt flow vernal pools; usually surrounded by scrub. 15-880 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Geothallus tuberosus	Campbell's liverwort	Bryophytes	None	None	1B.1	Coastal scrub   Vernal pool   Wetland	Coastal scrub, vernal pools.	Liverwort known from mesic soil. 60-610 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Harpagonella palmeri	Palmer's grapplinghook	Dicots	None	None	4.2	Chaparral   Coastal scrub   Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	Clay soils; open grassy areas within shrubland. 20-955 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Hesperocyparis forbesii	Tecate cypress	Gymnosperms	None	None	1B.1	Chaparral   Closed-cone coniferous forest	Closed-cone coniferous forest, chaparral.	Primarily on north-facing slopes; groves often associated with chaparral. On clay or gabbro. 60-1650 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Juncus luciensis	Santa Lucia dwarf rush	Monocots	None	None	1B.2	Chaparral   Great Basin scrub   Lower montane coniferous forest   Meadow & seep   Vernal pool   Wetland	Vernal pools, meadows and seeps, lower montane coniferous forest, chaparral, Great Basin scrub.	Vernal pools, ephemeral drainages, wet meadow habitats and streamsides. 280-2035 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Dicots	None	None	1B.1	Alkali playa   Marsh & swamp   Salt marsh   Vernal pool   Wetland	Coastal salt marshes, playas, vernal pools.	Usually found on alkaline soils in playas, sinks, and grasslands. 1-1375 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	None	None	4.3	Chaparral   Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4-1435 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
<i>Lilium parryi</i>	lemon lily	Monocots	None	None	1B.2	Lower montane coniferous forest   Meadow & seep   Riparian forest   Upper montane coniferous forest   Wetland	Lower montane coniferous forest, meadows and seeps, riparian forest, upper montane coniferous forest.	Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows and seeps. 625-2930 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Limnanthes alba</i> ssp. <i>parishii</i>	Parish's meadowfoam	Dicots	None	Endangered	1B.2	Lower montane coniferous forest   Meadow & seep   Vernal pool   Wetland	Lower montane coniferous forest, meadows and seeps, vernal pools.	Vernally moist areas and temporary seeps of highland meadows and plateaus; often bordering lakes and streams. 605-1805 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Monardella hypoleuca</i> ssp. <i>intermedia</i>	intermediate monardella	Dicots	None	None	1B.3	Chaparral   Cismontane woodland   Lower montane coniferous forest	Chaparral, cismontane woodland, lower montane coniferous forest (sometimes).	Often in steep, brushy areas. 195-1675 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Myosurus minimus</i> ssp. <i>apus</i>	little mousetail	Dicots	None	None	3.1	Valley & foothill grassland   Vernal pool   Wetland	Vernal pools, valley and foothill grassland.	Alkaline soils. 20-640 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
<i>Nama stenocarpa</i>	mud nama	Dicots	None	None	2B.2	Marsh & swamp   Wetland	Marshes and swamps.	Lake shores, river banks, intermittently wet areas. 15-815 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Navarretia fossalis</i>	spreading navarretia	Dicots	Threatened	None	1B.1	Alkali playa   Chenopod scrub   Marsh & swamp   Vernal pool   Wetland	Vernal pools, chenopod scrub, marshes and swamps, playas.	San Diego hardpan and San Diego claypan vernal pools; in swales and vernal pools, often surrounded by other habitat types. 15-850 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Navarretia prostrata</i>	prostrate vernal pool navarretia	Dicots	None	None	1B.2	Coastal scrub   Meadow & seep   Valley & foothill grassland   Vernal pool   Wetland	Coastal scrub, valley and foothill grassland, vernal pools, meadows and seeps.	Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 3-1235 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Orcuttia californica</i>	California Orcutt grass	Monocots	Endangered	Endangered	1B.1	Vernal pool   Wetland	Vernal pools.	10-660 m.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Pseudognaphalium leucocephalum</i>	white rabbit-tobacco	Dicots	None	None	2B.2	Chaparral   Cismontane woodland   Coastal scrub   Riparian woodland	Riparian woodland, cismontane woodland, coastal scrub, chaparral.	Sandy, gravelly sites. 35-515 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Scutellaria bolanderi ssp. austromontana	southern mountains skullcap	Dicots	None	None	1B.2	Chaparral   Cismontane woodland   Lower montane coniferous forest	Chaparral, cismontane woodland, lower montane coniferous forest.	In gravelly soils on streambanks or in mesic sites in oak or pine woodland. 425-2000 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Sibaropsis hammittii	Hammitt's clay-cress	Dicots	None	None	1B.2	Chaparral   Valley & foothill grassland	Valley and foothill grassland, chaparral.	Mesic microsites in open areas on clay soils in Stipa grassland. Often surrounded by Adenostoma chaparral. 715-1040 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Sidalcea neomexicana	salt spring checkerbloom	Dicots	None	None	2B.2	Alkali playa   Chaparral   Coastal scrub   Lower montane coniferous forest   Mojavean desert scrub   Wetland	Playas, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.	Alkali springs and marshes. 3-2380 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	None	None		Riparian forest			<b>This is not present.</b>
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	None	None		Riparian forest			<b>This is not present.</b>



Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Southern Interior Basalt Flow Vernal Pool	Southern Interior Basalt Flow Vernal Pool	Herbaceous	None	None		Vernal pool   Wetland			<b>This is not present.</b>
Southern Riparian Scrub	Southern Riparian Scrub	Riparian	None	None		Riparian scrub			<b>This is not present.</b>
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	None	None		Riparian woodland			<b>This is not present.</b>
Sphaerocarpos drewiae	bottle liverwort	Bryophytes	None	None	1B.1	Chaparral   Coastal scrub	Chaparral, coastal scrub.	Liverwort in openings; on soil. 60-585 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Symphotrichum defoliatum	San Bernardino aster	Dicots	None	None	1B.2	Cismontane woodland   Coastal scrub   Lower montane coniferous forest   Marsh & swamp   Meadow & seep   Valley & foothill grassland	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland.	Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 3-2045 m.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Texosporium sancti-jacobi	woven-spored lichen	Lichens	None	None	3	Chaparral	Chaparral.	Open sites; in California with Adenostoma fasciculatum, Eriogonum, Selaginella. Found on soil, small mammal pellets, dead twigs, and on Selaginella. 60-870 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Tortula californica	California screw moss	Bryophytes	None	None	1B.2	Chenopod scrub   Valley & foothill grassland	Chenopod scrub, valley and foothill grassland.	Moss growing on sandy soil. 45-750 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Trichocoronis wrightii var. wrightii	Wright's trichocoronis	Dicots	None	None	2B.1	Marsh & swamp   Meadow & seep   Riparian forest   Vernal pool   Wetland	Marshes and swamps, riparian forest, meadows and seeps, vernal pools.	Mud flats of vernal lakes, drying river beds, alkali meadows. 5-435 m.	No suitable habitat is present on site. <b>This species is not present.</b>
Valley Needlegrass Grassland	Valley Needlegrass Grassland	Herbaceous	None	None		Valley & foothill grassland			No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Accipiter cooperii	Cooper's hawk	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Cismontane woodland   Riparian forest   Riparian woodland   Upper montane coniferous forest	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	No suitable habitat is present on site. <b>This species is not present.</b>
Agelaius tricolor	tricolored blackbird	Birds	None	Threatened	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_EN-Endangered   NABCI_RWL-Red Watch List   USFWS_BCC-Birds of Conservation Concern	Freshwater marsh   Marsh & swamp   Swamp   Wetland	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	No suitable habitat is present on site. <b>This species is not present.</b>
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	None	None	CDFW_WL-Watch List	Chaparral   Coastal scrub	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass and forb patches.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Anaxyrus californicus	arroyo toad	Amphibians	Endangered	None	CDFW_SSC- Species of Special Concern   IUCN_EN- Endangered	Desert wash   Riparian scrub   Riparian woodland   South coast flowing waters   South coast standing waters	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	No suitable habitat is present on site. <b>This species is not present.</b>
Anniella stebbinsi	Southern California legless lizard	Reptiles	None	None	CDFW_SSC- Species of Special Concern   USFS_S- Sensitive	Broadleaved upland forest   Chaparral   Coastal dunes   Coastal scrub	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.	Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Aquila chrysaetos	golden eagle	Birds	None	None	BLM_S-Sensitive   CDF_S-Sensitive   CDFW_FP-Fully Protected   CDFW_WL-Watch List   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest   Cismontane woodland   Coastal prairie   Great Basin grassland   Great Basin scrub   Lower montane coniferous forest   Pinon & juniper woodlands   Upper montane coniferous forest   Valley & foothill grassland	Rolling foothills, mountain areas, sage-juniper flats, and desert.	Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Arizona elegans occidentalis	California glossy snake	Reptiles	None	None	CDFW_SSC- Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	No suitable habitat is present on site. <b>This species is not present.</b>
Artemisiospiza belli belli	Bell's sage sparrow	Birds	None	None	CDFW_WL-Watch List   USFWS_BCC- Birds of Conservation Concern	Chaparral   Coastal scrub	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Asio otus	long-eared owl	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Cismontane woodland   Great Basin scrub   Riparian forest   Riparian woodland   Upper montane coniferous forest	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses.	Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	No suitable habitat is present on site. <b>This species is not present.</b>
Aspidoscelis hyperythra	orange-throated whiptail	Reptiles	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern   USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	No suitable habitat is present on site. <b>This species is not present.</b>
Aspidoscelis tigris stejnegeri	coastal whiptail	Reptiles	None	None	CDFW_SSC-Species of Special Concern		Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland and riparian areas.	Ground may be firm soil, sandy, or rocky.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Athene cunicularia	burrowing owl	Birds	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Coastal prairie   Coastal scrub   Great Basin grassland   Great Basin scrub   Mojavean desert scrub   Sonoran desert scrub   Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Suitable habitat is present on site. <b>This species has the potential to be present.</b>
Bombus crotchii	Crotch bumble bee	Insects	None	None			Coastal California east to the Sierra-Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	No suitable habitat is present on site. <b>This species is not present.</b>
Branchinecta lynchi	vernal pool fairy shrimp	Crustaceans	Threatened	None	IUCN_VU-Vulnerable	Valley & foothill grassland   Vernal pool   Wetland	Endemic to the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains, in astatic rain-filled pools.	Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	No suitable habitat is present on site. <b>This species is not present.</b>



Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Branchinecta sandiegonensis	San Diego fairy shrimp	Crustaceans	Endangered	None	IUCN_EN-Endangered	Chaparral   Coastal scrub   Vernal pool   Wetland	Endemic to San Diego and Orange County mesas.	Vernal pools.	No suitable habitat is present on site. <b>This species is not present.</b>
Buteo regalis	ferruginous hawk	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Great Basin grassland   Great Basin scrub   Pinon & juniper woodlands   Valley & foothill grassland	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats.	Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	No suitable habitat is present on site. <b>This species is not present.</b>
Buteo swainsoni	Swainson's hawk	Birds	None	Threatened	BLM_S-Sensitive   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Great Basin grassland   Riparian forest   Riparian woodland   Valley & foothill grassland	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	Birds	None	None	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive   USFWS_BCC-Birds of Conservation Concern	Coastal scrub	Southern California coastal sage scrub.	Wrens require tall opuntia cactus for nesting and roosting.	No suitable habitat is present on site. <b>This species is not present.</b>
Chaetodipus californicus femoralis	Dulzura pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chaparral   Coastal scrub   Valley & foothill grassland	Variety of habitats including coastal scrub, chaparral and grassland in San Diego County.	Attracted to grass-chaparral edges.	No suitable habitat is present on site. <b>This species is not present.</b>
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chaparral   Coastal scrub	Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	No suitable habitat is present on site. <b>This species is not present.</b>
Charadrius nivosus nivosus	western snowy plover	Birds	Threatened	None	CDFW_SSC-Species of Special Concern   NABCI_RWL-Red Watch List   USFWS_BCC-Birds of Conservation Concern	Great Basin standing waters   Sand shore   Wetland	Sandy beaches, salt pond levees and shores of large alkali lakes.	Needs sandy, gravelly or friable soils for nesting.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Cicindela senilis frosti	senile tiger beetle	Insects	None	None		Mud shore/flats   Wetland	Inhabits marine shoreline, from Central California coast south to salt marshes of San Diego. Also found at Lake Elsinore.	Inhabits dark-colored mud in the lower zone and dried salt pans in the upper zone.	No suitable habitat is present on site. <b>This species is not present.</b>
Circus hudsonius	northern harrier	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Coastal scrub   Great Basin grassland   Marsh & swamp   Riparian scrub   Valley & foothill grassland   Wetland	Coastal salt and freshwater marsh. Nest and forage in grasslands, from salt grass in desert sink to mountain cienagas.	Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	No suitable habitat is present on site. <b>This species is not present.</b>
Coleonyx variegatus abbotti	San Diego banded gecko	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Chaparral   Coastal scrub	Coastal and cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None	CDFW_SSC- Species of Special Concern   USFS_S- Sensitive	Chaparral   Mojavean desert scrub   Sonoran desert scrub	Chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains.	Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	No suitable habitat is present on site. <b>This species is not present.</b>
Diadophis punctatus modestus	San Bernardino ringneck snake	Reptiles	None	None	USFS_S-Sensitive		Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams.	Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.	No suitable habitat is present on site. <b>This species is not present.</b>
Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	Endangered	Candidate Endangered	CDFW_SSC- Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	Endangered	Threatened	IUCN_EN-Endangered	Coastal scrub   Valley & foothill grassland	Primarily annual and perennial grasslands, but also occurs in coastal scrub and sagebrush with sparse canopy cover.	Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil.	No suitable habitat is present on site. <b>This species is not present.</b>
Elanus leucurus	white-tailed kite	Birds	None	None	BLM_S-Sensitive   CDFW_FP-Fully Protected   IUCN_LC-Least Concern	Cismontane woodland   Marsh & swamp   Riparian woodland   Valley & foothill grassland   Wetland	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland.	Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
<i>Emys marmorata</i>	western pond turtle	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_VU-Vulnerable   USFS_S-Sensitive	Aquatic   Artificial flowing waters   Klamath/North coast flowing waters   Klamath/North coast standing waters   Marsh & swamp   Sacramento/San Joaquin flowing waters   Sacramento/San Joaquin standing waters   South coast flowing waters   South coast stan	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	No suitable habitat is present on site. <b>This species is not present.</b>
<i>Eremophila alpestris actia</i>	California horned lark	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Marine intertidal & splash zone communities   Meadow & seep	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills.	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Eumops perotis californicus	western mastiff bat	Mammals	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   WBWG_H-High Priority	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc.	Roosts in crevices in cliff faces, high buildings, trees and tunnels.	No suitable habitat is present on site. <b>This species is not present.</b>
Euphydryas editha quino	quino checkerspot butterfly	Insects	Endangered	None		Chaparral   Coastal scrub	Sunny openings within chaparral and coastal sage shrublands in parts of Riverside and San Diego counties.	Hills and mesas near the coast. Need high densities of food plants Plantago erecta, P. insularis, and Orthocarpus purpureus.	No suitable habitat is present on site. <b>This species is not present.</b>
Gila orcuttii	arroyo chub	Fish	None	None	AFS_VU-Vulnerable   CDFW_SSC-Species of Special Concern   USFS_S-Sensitive	Aquatic   South coast flowing waters	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave and San Diego river basins.	Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Haliaeetus leucocephalus	bald eagle	Birds	Delisted	Endangered	BLM_S-Sensitive   CDF_S-Sensitive   CDFW_FP-Fully Protected   IUCN_LC-Least Concern   USFS_S-Sensitive   USFWS_BCC-Birds of Conservation Concern	Lower montane coniferous forest   Oldgrowth	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water.	Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	No suitable habitat is present on site. <b>This species is not present.</b>
Icteria virens	yellow-breasted chat	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Riparian forest   Riparian scrub   Riparian woodland	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	No suitable habitat is present on site. <b>This species is not present.</b>



Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Lanius ludovicianus	loggerhead shrike	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest   Desert wash   Joshua tree woodland   Mojavean desert scrub   Pinon & juniper woodlands   Riparian woodland   Sonoran desert scrub	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub and washes.	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	No suitable habitat is present on site. <b>This species is not present.</b>
Lasiurus xanthinus	western yellow bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   WBWG_H-High Priority	Desert wash	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	No suitable habitat is present on site. <b>This species is not present.</b>
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Intermediate canopy stages of shrub habitats and open shrub / herbaceous and tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Linderiella occidentalis	California linderiella	Crustaceans	None	None	IUCN_NT-Near Threatened	Vernal pool	Seasonal pools in unplowed grasslands with old alluvial soils underlain by hardpan or in sandstone depressions.	Water in the pools has very low alkalinity, conductivity, and total dissolved solids.	No suitable habitat is present on site. <b>This species is not present.</b>
Linderiella santarosae	Santa Rosa Plateau fairy shrimp	Crustaceans	None	None		Vernal pool	Found only in the vernal pools on Santa Rosa Plateau in Riverside County.	Southern basalt flow vernal pools.	No suitable habitat is present on site. <b>This species is not present.</b>
Neolarra alba	white cuckoo bee	Insects	None	None			Known only from localities in Southern California.	Cleptoparasitic in the nests of perdita bees.	No suitable habitat is present on site. <b>This species is not present.</b>
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   WBWG_M-Medium Priority	Joshua tree woodland   Pinon & juniper woodlands   Riparian scrub   Sonoran desert scrub	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	No suitable habitat is present on site. <b>This species is not present.</b>
Onychomys torridus ramona	southern grasshopper mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chenopod scrub	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover.	Feeds almost exclusively on arthropods, especially scorpions and orthopteran insects.	No suitable habitat is present on site. <b>This species is not present.</b>
Perognathus longimembris brevinasus	Los Angeles pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Perognathus longimembris internationalis	Jacumba pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub   Desert wash   Sonoran desert scrub	Desert riparian, desert scrub, desert wash, coastal scrub and sagebrush.	Rarely found on rocky sites; uses all canopy coverages.	No suitable habitat is present on site. <b>This species is not present.</b>
Phrynosoma blainvillii	coast horned lizard	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Chaparral   Cismontane woodland   Coastal bluff scrub   Coastal scrub   Desert wash   Pinon & juniper woodlands   Riparian scrub   Riparian woodland   Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	No suitable habitat is present on site. <b>This species is not present.</b>
Plegadis chihi	white-faced ibis	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Marsh & swamp   Wetland	Shallow freshwater marsh.	Dense tule thickets for nesting, interspersed with areas of shallow water for foraging.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Polioptila californica californica	coastal California gnatcatcher	Birds	Threatened	None	CDFW_SSC- Species of Special Concern   NABCI_YWL- Yellow Watch List	Coastal bluff scrub   Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas and slopes.  Not all areas classified as coastal sage scrub are occupied.	No suitable habitat is present on site.  <b>This species is not present.</b>
Rana draytonii	California red-legged frog	Amphibians	Threatened	None	CDFW_SSC- Species of Special Concern   IUCN_VU- Vulnerable	Aquatic   Artificial flowing waters   Artificial standing waters   Freshwater marsh   Marsh & swamp   Riparian forest   Riparian scrub   Riparian woodland   Sacramento/San Joaquin flowing waters   Sacramento/San Joaquin standing waters   South coast flowi	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	No suitable habitat is present on site.  <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Salvadora hexalepis virgultea	coast patch-nosed snake	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Brushy or shrubby vegetation in coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.	No suitable habitat is present on site. <b>This species is not present.</b>
Setophaga petechia	yellow warbler	Birds	None	None	CDFW_SSC-Species of Special Concern   USFWS_BCC-Birds of Conservation Concern	Riparian forest   Riparian scrub   Riparian woodland	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada.	Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	No suitable habitat is present on site. <b>This species is not present.</b>
Socalchemmis icenoglei	Icenogle's socalchemmis spider	Arachnids	None	None		Coastal scrub	Known only from the type locality in the vicinity of Winchester, Riverside County.		No suitable habitat is present on site. <b>This species is not present.</b>
Spea hammondii	western spadefoot	Amphibians	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_NT-Near Threatened	Cismontane woodland   Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Streptocephalus woottoni	Riverside fairy shrimp	Crustaceans	Endangered	None	IUCN_EN- Endangered	Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub.	Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	No suitable habitat is present on site. <b>This species is not present.</b>
Taricha torosa	Coast Range newt	Amphibians	None	None	CDFW_SSC- Species of Special Concern		Coastal drainages from Mendocino County to San Diego County.	Lives in terrestrial habitats and will migrate over 1 km to breed in ponds, reservoirs and slow moving streams.	No suitable habitat is present on site. <b>This species is not present.</b>

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Taxidea taxus	American badger	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Alkali marsh   Alkali playa   Alpine   Alpine dwarf scrub   Bog & fen   Brackish marsh   Broadleaved upland forest   Chaparral   Chenopod scrub   Cismontane woodland   Closed-cone coniferous forest   Coastal bluff scrub   Coastal dunes   Coastal prairie	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	No suitable habitat is present on site. <b>This species is not present.</b>
Thamnophis hammondi	two-striped gartersnake	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive	Marsh & swamp   Riparian scrub   Riparian woodland   Wetland	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation.	Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	No suitable habitat is present on site. <b>This species is not present.</b>



Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presenc/ Absence
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered	IUCN_NT-Near Threatened   NABCI_YWL- Yellow Watch List	Riparian forest   Riparian scrub   Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	No suitable habitat is present on site. <b>This species is not present.</b>
Xanthocephalus xanthocephalus	yellow- headed blackbird	Birds	None	None	CDFW_SSC- Species of Special Concern   IUCN_LC-Least Concern	Marsh & swamp   Wetland	Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds.	Nests only where large insects such as Odonata are abundant, nesting timed with maximum emergence of aquatic insects.	No suitable habitat is present on site. <b>This species is not present.</b>

## **APPENDIX C**



Ruderal habitat on site where impacts will take place. View looking south.



Trees in neighboring parcel to the south including eucalyptus (*Eucalyptus* sp.) and palm trees (Arecaceae). View looking east.



Grocery store and other commercial developments north of the site. View looking northeast.



Barnett Road along eastern border of site followed by gas station in distance. View looking east.



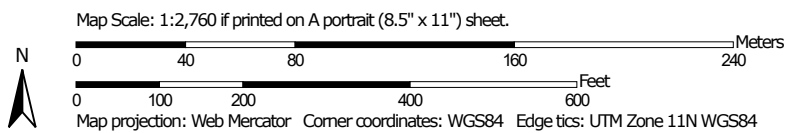
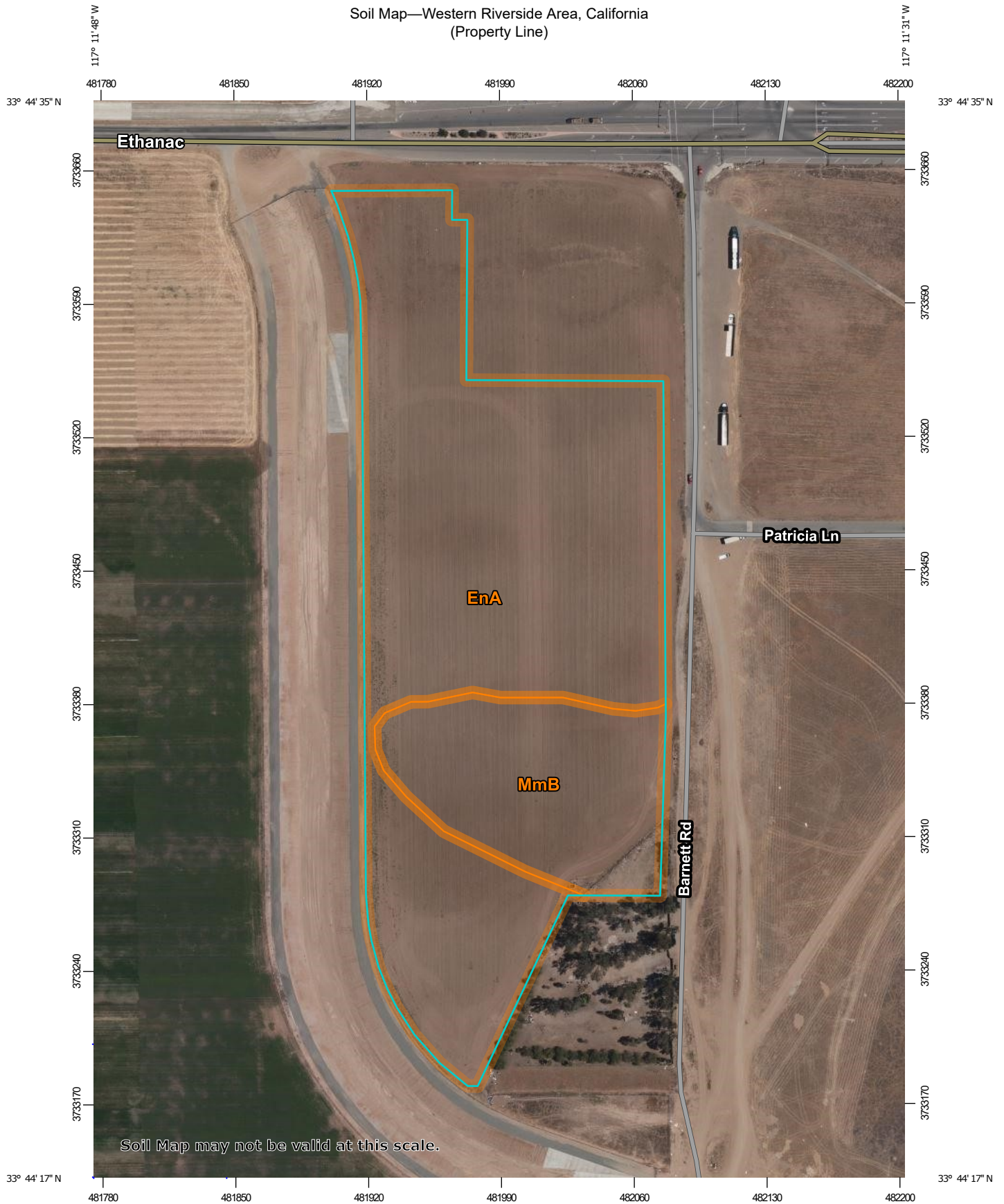
Fence along western border of site followed by cement lined drainage. View looking northwest.



Ruderal habitat with grading lines followed by piles of non-native species including Russian thistle (*Kali tragus*). View looking south.


## **APPENDIX D**

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



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Western Riverside Area, California

Survey Area Data: Version 14, Sep 13, 2021

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

Date(s) aerial images were photographed: May 25, 2019—Jun 25, 2019

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

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EnA	Exeter sandy loam, 0 to 2 percent slopes	10.6	77.6%
MmB	Monserate sandy loam, 0 to 5 percent slopes	3.1	22.4%
<b>Totals for Area of Interest</b>		<b>13.7</b>	<b>100.0%</b>



## **APPENDIX E**



# Memorandum

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Date: June 2, 2022

To: Jeremy Krout EPD Solutions, Inc.

From: Juan J. Hernandez, Principal Biologist

Subject: Focused Burrowing Owl Survey Report for Assessor's Parcel Numbers 331-060-021 AND -036 located in Riverside County, California.

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This memorandum provides the methods and results of a Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) burrowing owl (*Athene cunicularia*) (BUOW) survey for Assessor's Parcel Number (APN)s 331-060-021 and -036 located within Riverside County. The project proposes construction of two business buildings, each 125,890 square feet (SF) (Figure 3). The project will result in impacts to the entire 13.7-acre site.

## Project Location

The approximate 13.7-acre project site is located on the northeast corner of Ethanac Road and Barnett Road in the City of Menifee, County of Riverside, California. The site consists of Riverside County APNs Numbers 331-060-021 and -036. Specifically, the project site is located within Township 5 South, Range 3 West in Section 16 of the *Romoland* United States Geological Survey (USGS) 7.5' topographic quadrangle. The center point latitude and longitude for the project site are 33°44'25.9956" North and 117°11'39.5672" West. Refer to Figures 1 and 2.

The study area included APNs 331-060-021 and -036 and a 150-meter (500-foot) buffer around the site, where accessible (Figure 4).

## Project Contact Information

Owner/Applicant: Jeremy Krout, EPD Solutions, Inc.  
2030 Main Street, Suite 1200  
Irvine, CA 92614

Principal Investigator: Juan J. Hernandez  
Hernandez Environmental Services  
17037 Lakeshore Drive  
Lake Elsinore, CA 92530  
(909) 772-9009

## Field Survey Methods

HES implemented the three steps as described in the *Burrowing Owl Survey Instructions for the Western Riverside County Multiple Species Habitat Conservation Plan Area*. The “General Biological Assessment and Western Riverside MSHCP Consistency Analysis” prepared for the project, determined that focused surveys for BUOW would be required due to recorded historic observations near the site and the presence of suitable habitat documented during the February 4, 2022 habitat assessment. In accordance with the *Burrowing Owl Survey Instructions for the Western Riverside County Multiple Species Habitat Conservation Plan Area*, focused burrow and focused BUOW surveys (Part A and Part B, respectively) were conducted on four separate days during the breeding season: March 16, April 5, April 12, and April 21. Survey times, weather, and sunrise/sunset information is described in Table 1 below.

**Table 1. Survey Information**

Survey	Date	Survey Start Time	Sunrise/Sunset	Weather
1	March 16, 2022	0625 hours	0657 hours 1857 hours	46 degrees Fahrenheit, clear, winds 0-1 miles per hour from the south
2	April 5, 2022	0625 hours	0630 hours 1912 hours	52 degrees Fahrenheit, clear, winds 0-1 miles per hour from the west
3	April 12, 2022	0640 hours	0621 hours 1918 hours	49 degrees Fahrenheit, 40% cloud coverage, winds 0-2 miles per hour from the southwest.
4	April 21, 2022	0640 hours	0610 hours 1935 hours	46 degrees Fahrenheit, clear, winds 0-1 miles per hour from the south.

Surveys were conducted from one hour before sunrise to two hours after sunrise or two hours before sunset to one hour after sunset and during weather that was conducive to observing owls outside their burrows and detecting BUOW sign. The surveys were not conducted during rain, high winds (> 20 miles per hour), dense fog, or temperatures above 90 degrees Fahrenheit. Surveys involved walking through potentially suitable habitat within the survey area. The pedestrian survey transects were spaced approximately 30 to 50 feet apart to allow 100 percent visual coverage of the ground surface. Special attention was paid to those habitat areas that appeared to provide suitable habitat for BUOW. Where permission to access the buffer areas could not be obtained, the biologist visually inspects adjacent habitats with binoculars.

All encountered burrows or structure entrances were checked for the presence of BUOW, molted feathers, cast pellets, prey remains, eggshell fragments, tracks, or excrement. Natural or man-made structures and debris piles that could support BUOW were also surveyed. The locations of all suitable BUOW habitat, potential burrows, BUOW sign, and any BUOW observed was recorded and mapped with a handheld Global Positioning System (GPS) unit.

All wildlife species encountered visually or audibly during the field survey were identified and recorded in field notes. Binoculars were used to aid in the identification of observed wildlife. Photographs were taken to document existing conditions within the survey area.

## Results

The project site contains one type of habitat: ruderal. Soils at the project site are classified as Exeter sandy loam (EnA), 0 to 2 percent slopes and Monserate sandy loam (MmB), 0 to 5 percent slopes. The project site is flat with elevation ranges from 1,512 feet above mean sea-level (AMSL) to 1,552 feet AMSL. The site is disturbed, and evidence of past vegetation management is apparent. The dominant species on site are brome spp. (*Bromus spp.*), Canada horseweed (*Erigeron canadensis*), and stinknet (*Oncosiphon piluliferum*).

The habitat assessment conducted on February 4, 2022 found that the project site does provide suitable burrows/nesting opportunities for BUOW. Evidence of ground squirrels and ground squirrel activities was observed, and approximately 31 suitable burrows were identified and recorded on the project site and 50 burrows off site. BUOW signs such as molted feathers, cast pellets, and excrement found on rock outcroppings were not found. No BUOW were observed on the project site.

Based on the absence of BUOW and BUOW evidence (i.e., scat, pellets, and feathers) within the study area, it can be concluded that the study area is not in use by BUOW.

## Recommendations

It is recommended that the following measures be implemented to ensure that potential impacts to BUOW are less than significant:

- Based on the presence of suitable habitat documented during the habitat assessment and focused burrowing owl surveys, a 30-day preconstruction survey will be conducted immediately prior to the initiation of construction to ensure the protection of this species and compliance with the conservation goals as outlined in the MSHCP.

## Certification

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

Date: June 2, 2022



Juan J. Hernandez  
Principal Biologist

## Enclosures:

- Figure 1: Project Location Map
- Figure 2: Project Vicinity Map
- Figure 3: Project Plans
- Figure 4: Survey Area Map
- Figure 5: Results Map
- Appendix A: Site Photographs

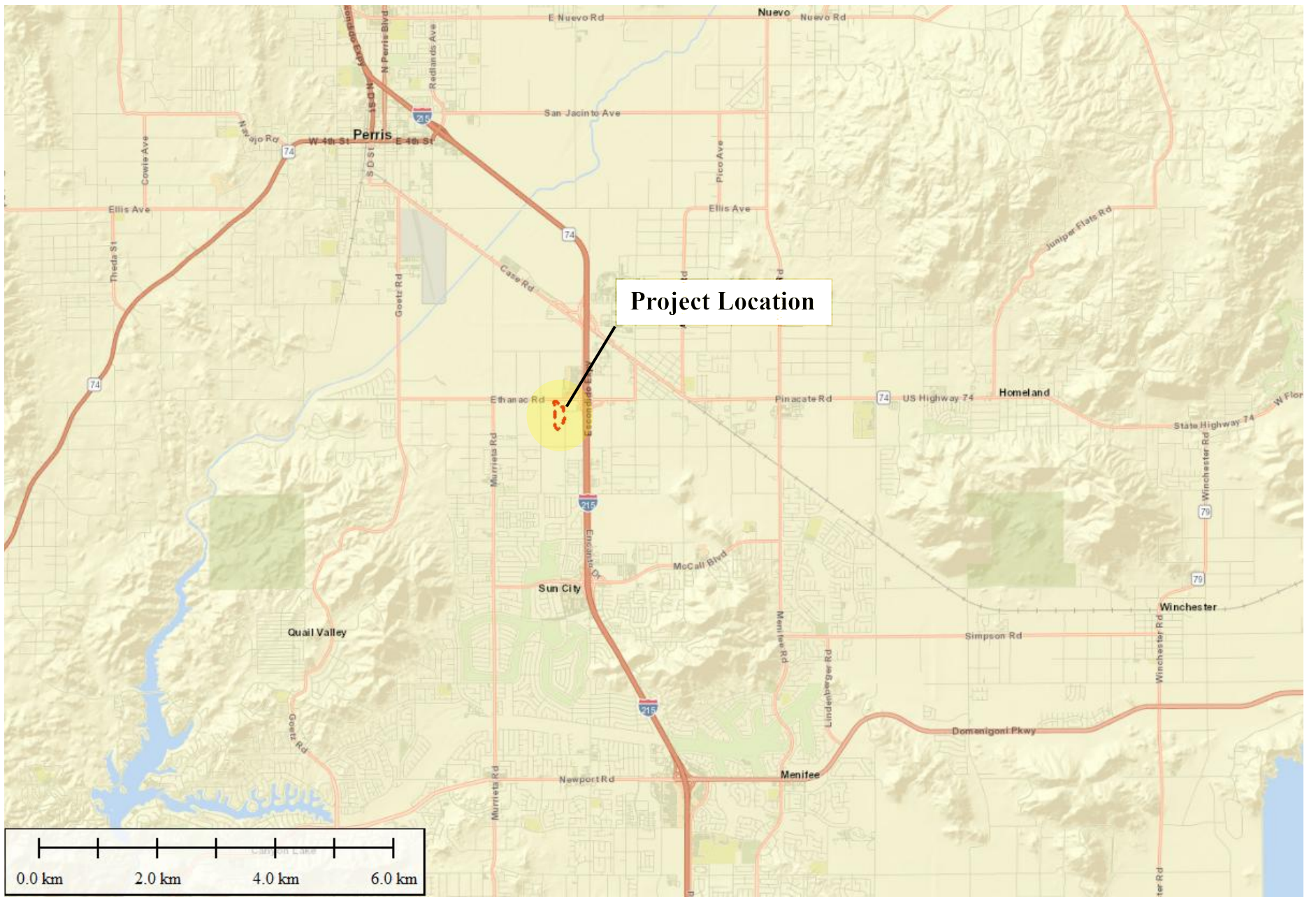
# FIGURES



**Figure 1**  
 Location Map  
 APNs: 331-060-021 & -036  
 Riverside County, California


**Legend**  
 Project Site Boundary





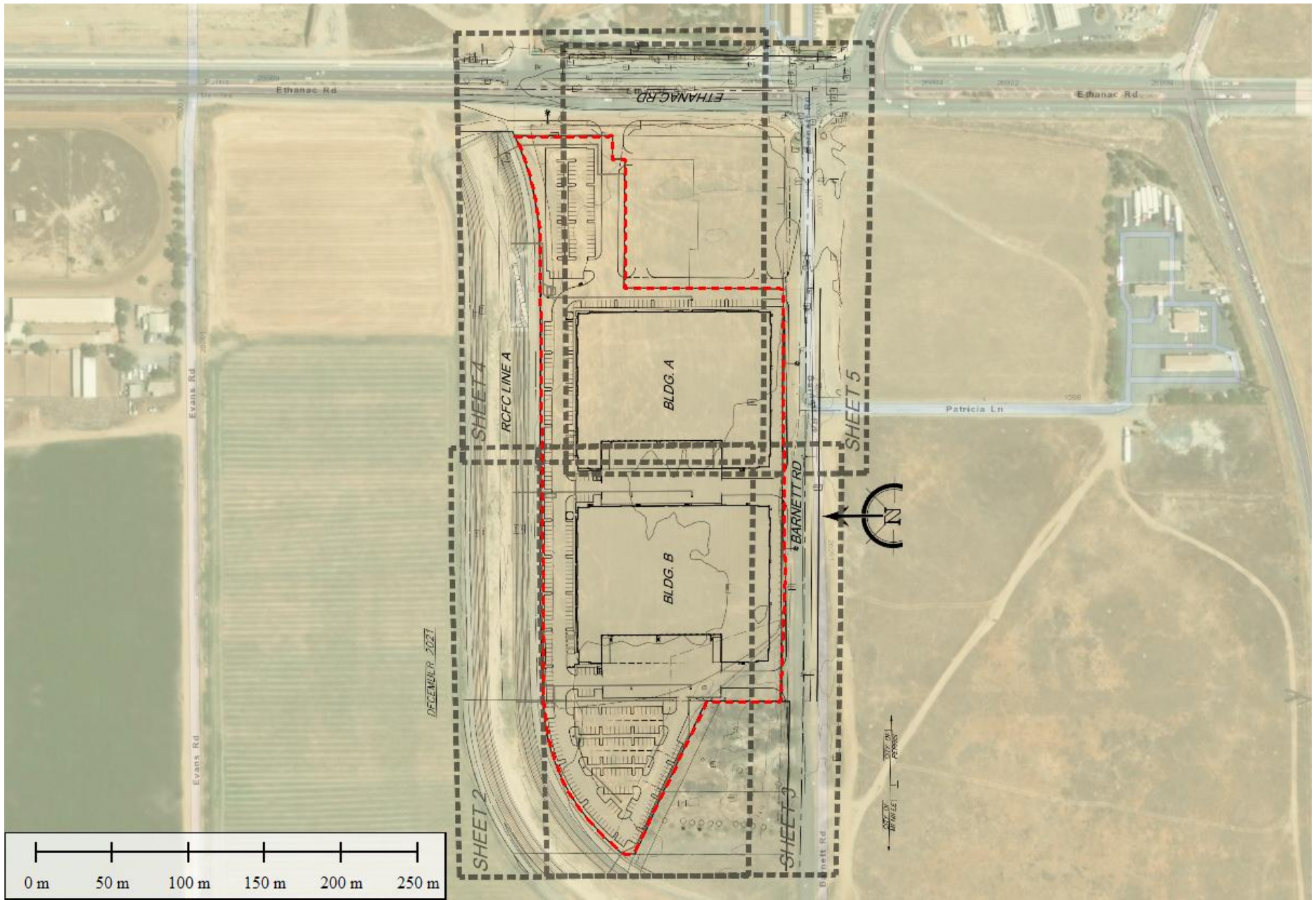
**Figure 2**  
 Vicinity Map  
 APNs: 331-060-021 & -036  
 Riverside County, California

**Legend**

 Project Site Boundary






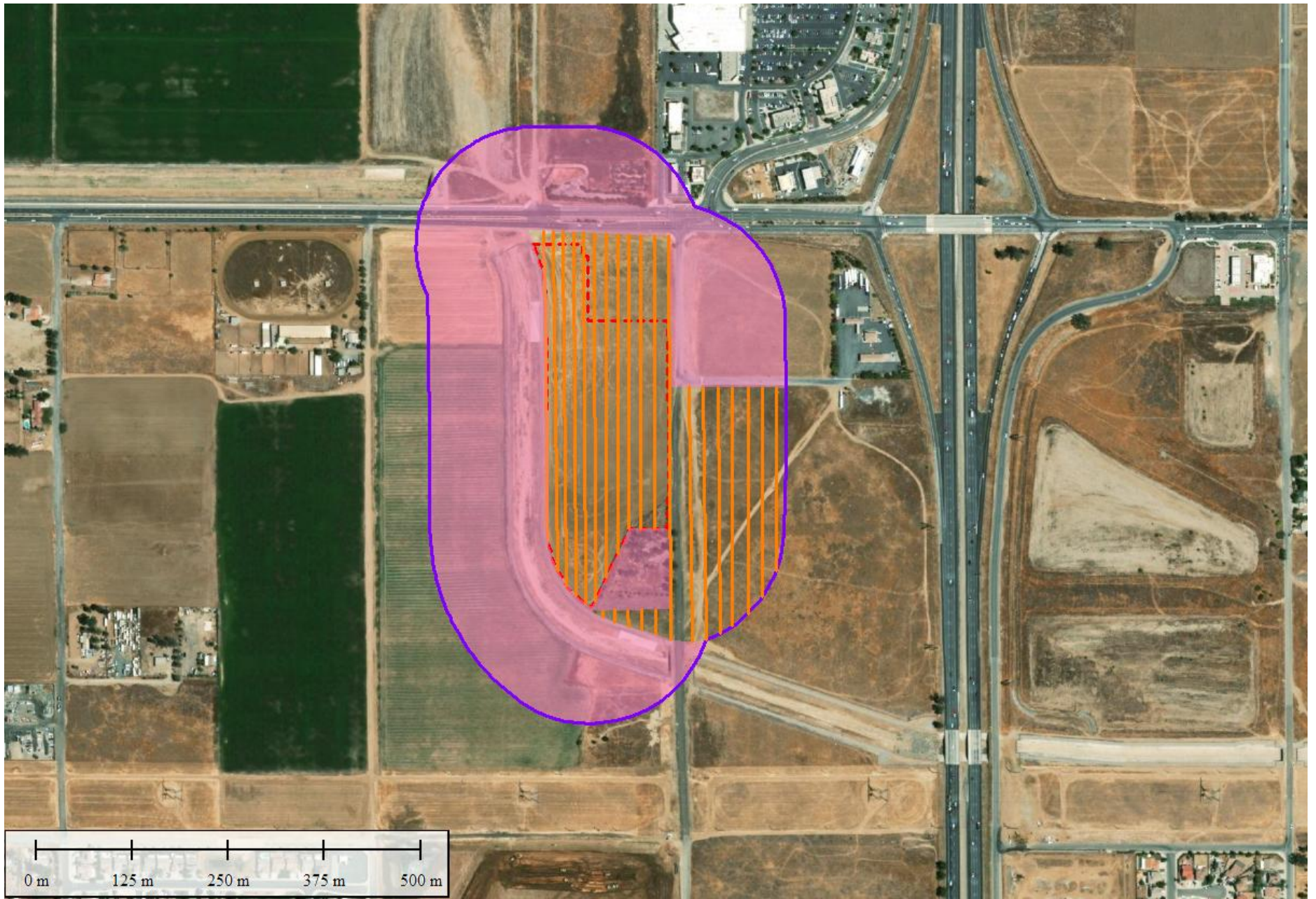


**Figure 3**  
 Project Plans  
 APNs: 331-060-021 & -036  
 Riverside County, California

**Legend**

 Project Site Boundary

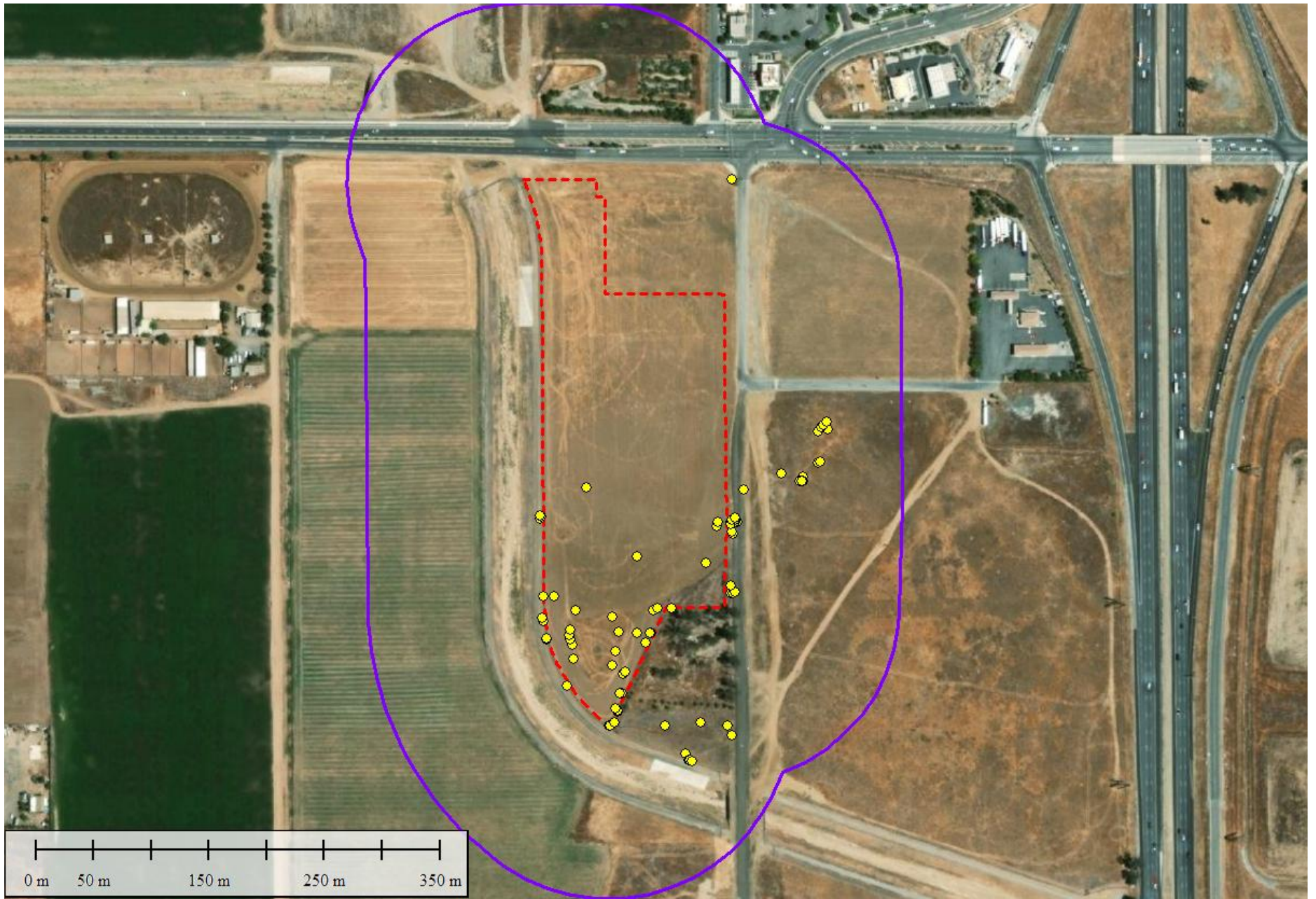




**Figure 4**  
 Survey Area Map  
 EPD Ethanac & Barnett  
 City of Menifee, Riverside County, California

- Legend**
- Project Site Boundary
  - 500-Foot Buffer
  - Viewed with Binoculars
  - Transect





**Figure 5**  
 Survey Results Map  
 EPD Ethanac & Barnett  
 City of Menifee, Riverside County, California

- Legend**
- Project Site Boundary
  - 500-Foot Buffer
  - Suitable Burrow, Inactive (x81)



# **APPENDIX A**



Southern border of site where majority of potentially suitable burrows were found. View facing southeast.



Ruderal habitat within the center of the site. View looking northwest.



Potentially suitable burrowing owl burrow complex surrounded by stinknet (*Oncosiphon pilulifer*).