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February 23, 2021 (Revised May 1, 2021)

Joseph Karaki, President Karaki WS 4887 E. La Palma Ave, Suite 707 Anaheim, CA 92807

RE: Biological Resources Assessment, Jurisdictional Delineation

Commercial Retail (76 Station) - APN: 347-130-029 & 347-130-028

Central Avenue (Hwy 74) and Eighth Street

City of Lake Elsinore, Riverside County, California

Dear Mr. Karaki:

Jericho Systems, Inc. (Jericho) is pleased to provide this Biological Resources Assessment and Jurisdictional Delineation for the above-referenced Project.

The results of Jericho's field survey are intended to provide sufficient baseline information to the County of Riverside, City of Lake Elsinore, and, if required, to federal and State regulatory agencies, including U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW), respectively, to determine if impacts will occur, quantify those impacts and to identify mitigation measures to offset any impacts.

The Project site is located within the Western Riverside County Multiple Species Habitat Plan (MSHCP) area and as such, is subject to the conditions and conservation requirements identified in the MSHCP. Riverside County adopted the MSHCP on June 17, 2003. The City of Lake Elsinore is signatory to the MSHCP Implementing Agreement and thereby a permittee responsible for meeting the terms and conditions outlined in the MSHCP and the Biological Opinion issued for the MSHCP. Therefore, the City of Lake Elsinore has the responsibility to ensure the projects they approve are consistent the MSHCP and will not preclude the overall conservation goals and reserve design from being accomplished.

The MSHCP is a criteria-based plan and identification of planning units on which to base the Criteria is necessary for such a criteria-based plan. The MSHCP Conservation Area is comprised of a variety of existing and proposed Cores, Extensions of Existing Cores, Linkages, Constrained Linkages and Non-contiguous Habitat Blocks. The MSHCP coverage area is divided into Area Plans (AP) based on the Riverside County's General Plan Area Plan boundaries. Each of the AP's has: established conservation criteria, species specific surveys that may be required based on on-site Habitat Assessment, and resources and areas identified for conservation. In each Area Plan text, applicable Cores and Linkages are identified.

There are 146 species covered by the MSHCP. Surveys are not required for 106 of these covered species. The remaining 40 covered species may require focused surveys for proposed development

projects include 4 birds, 3 mammals, 3 amphibians, 3 crustaceans, 14 Narrow Endemic Plants, and 13 other sensitive plants within the Criteria Area. The need to conduct focused surveys for all but six of these 40 species is determined by the presence of suitable habitat within designated 'survey areas' mapped for each of the species. The remaining six species that require focused surveys throughout the entire MSHCP area are associated with riparian/riverine areas and vernal pools and include least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, Riverside fairy shrimp, Santa Rosa Plateau fairy shrimp, and vernal pool fairy shrimp.

The MSHCP requires that a project comply with the MSHCP policies identified in Section 6 of the MSHCP. For this Project site, a habitat suitability assessment for burrowing owl (MSHCP section 6.3.2) and MSHCP Riparian/Riverine resources (MSHCP section 6.1.2) was required and conducted.

The Project site was also evaluated for the presence jurisdictional waters, subject to the federal Clean Water Act (CWA), Porter-Cologne (Porter-Cologne) and California Fish and Game Code (FGC) regulations. Jurisdictional resources subject to the CWA regulations include non-wetland waters and wetland waters of the U.S. (WoUS) whereas jurisdictional resources subject to Porter-Cologne include non-wetland waters and waters of the State (WoS). The California FGC encompasses the resources that constitute a stream or river, including associated riparian vegetation and floodplain.

Evaluation of Riparian/Riverine resources followed guidance provided in the MSHCP Section 6.1.2. Potential federal jurisdiction followed the regulations set forth in 33CFR part 328 and the USACE guidance documents and evaluation of potential State jurisdiction followed guidance in the Fish and Game Code and A Review of Stream Processes and Forms in Dryland Watersheds (CDFW, 2010).

PROJECT LOCATION

The approximately 1.9-acre Project site is made up of two parcels: APN 347-130-029 (1.12 acre) and 347-130-028 (0.49 acre) and is located in the City of Lake Elsinore, Riverside County, California. The Project site is bounded on the north by 8th Street, on the south by Ardenwood Way and rural industrial land use, on the east by Hwy 74 (Central Avenue), and on the west by vacant land. The project site can be found on the *Lake Elsinore* U. S. Geological Survey (USGS) 7.5-minute topographic map within Section 29 of Township 5 South, Range 4 West (Figure 1-3).

PROJECT UNDERSTANDING

The Project proposes a gas station consisting of a 3,516 square foot (sf) convenience store, 3,160 sf fueling canopy with six multi-product dispensers, and two underground storage tanks. See Figure 4 for site layout.

METHODS

Prior to the field investigation, reference materials and databases relevant to the Project site were reviewed for the *Lake Elsinore* 7.5-minute USGS quadrangle. The sources reviewed included:

- California Natural Diversity Database (CNDDB) *Rarefind 5*);
- CNDDB Biogeographic Information and Observation System (BIOS);
- California Native Plant Society Electronic Inventory (CNPSEI) database;
- Calflora Database;
- USDA Natural Resources Conservation Service (NRCS) Web Soil Survey;

- USF-WS National Wetland Inventory;
- Environmental Protection Agency (EPA) Water Program "My Waters" data layers;
- RCA/MSHCP Information Map

On January 16, 2021, Jericho Principal Ecologist, Shay Lawrey conducted a field survey of the Project site with focus on potential habitat for listed species, sensitive species, migratory birds, burrowing owl and riverine/riparian/vernal pool resources. Ms. Lawrey is a qualified biologist with advanced degrees in Biology and 25 years of experience surveying for the sensitive species known to in California and riverine/riparian/vernal pool resources. Ms. Lawrey surveyed the Project site on a calm weather, overcast day, during peak animal activity, between 8:30 a.m. and 10:30 am.

Ms. Lawrey conducted the survey by walking transects spaced in approximately 15 meters (approximately 50 feet) intervals to provide 100 percent visual coverage of the ground surface. Wildlife species were detected during field surveys by sight, calls, tracks, scat, or other signs. In addition to species observed, expected wildlife usage of the site was determined according to known habitat preferences of local wildlife species and knowledge of their relative distributions in the area. Ms. Lawrey assessed the Project site for habitat type, structure, species composition/association, condition, and human disturbances. Attention was focused on identifying potential habitat for special status species known to occur locally and identifying potential jurisdictional waters and/or riverine/riparian/vernal pool resources within and/or adjacent to the Project site.

Riverside County also requires that any survey limitations be identified. No limitations affected the results and conclusions given herein. The buffer survey area located on adjacent private property was surveyed via binoculars to avoid trespass. Surveys were conducted during the appropriate season to observe the target species, in good weather conditions, by a qualified biologist who followed all pertinent protocols.

Stephen's kangaroo rat Habitat Assessment

The RCA Mapping Information System identified that the Project parcel is not in a Stephen's kangaroo rat (*Dipodomys stephensi*, [SKR]) fee area. Therefore, this analysis was not applicable.

Burrowing Owl Habitat Assessment

The RCA Mapping Information System identified that APN 347-130-028 (0.49 acre), located in the Project's northeastern portion is within a survey area required for the western burrowing owl (*Athene cunicularia hypugaea*) [BUOW]) (Figure 5).

The BUOW habitat suitability assessment was conducted in accordance with the Western Riverside County MSHCP, which follows the 1993 "Burrowing Owl Survey Protocol and Mitigation Guidelines" prepared by the California Burrowing Owl Consortium. Step 1 of the survey protocol is the habitat suitability assessment. If suitable habitat is present, this protocol requires four (4) surveys between April 15 and July 15 with the first site survey counting as one survey period.

Burrowing owl habitat generally includes, but is not limited to, short or sparse vegetation (at least at some time of year), presence of burrows, burrow surrogates or presence of fossorial mammal dens, well-drained soils, and abundant and available prey.

Per the literature review, the closest documented BUOW occurrence is approximately 3.8 miles northeast from the Project site along Highway 74 near Ethanac Road and Eugene Street. There are no BUOW occurrences documented in the Project area,

Natural and non-natural substrates were examined for potential burrow sites. The site was searched for molted feathers, whitewash, cast pellets and/or prey remains. Disturbance characteristics and all other animal sign encountered within the survey area were recorded. Date time and weather conditions were logged. A hand-held, global positioning system (GPS) unit was used to survey to identify survey area boundaries. Representative photographs of the survey area were taken, and Google Earth Pro was accessed to provide recent aerial photographs of the Project site and surrounding area.

Riverine/Riparian Areas and Jurisdictional Waters

The site was also assessed for State and /or federal jurisdictional waters that are subject to Sections 404 and 401 of the federal CWA regulated by the U.S. Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) respectively; and/or Section 1602 of the California Fish and Game Code (FCG) administered by the CDFW and Riverine/Riparian and Vernal Pool habitat subject to Section 6.1.2 of the MSHCP.

The methods used in this study to delineate the non-wetland WoUS at the Ordinary High Water Mark (OHWM) in variable, ephemeral, intermittent, or perennial non-wetland waters followed guidance described in *A Field Guide to the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States* (Lichvar and McColley 2008) and the *Updated Datasheet for the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States* ("Updated Datasheet", Curtis and Lichvar 2010).

The RWQCB maintains jurisdiction over all waters of the State, including wetlands. For the purposes of Porter-Cologne, the methods used to determine federal jurisdiction over non-wetland waters were also used to determine the extent of RWQCB jurisdiction over non-wetland waters within the property.

Evaluation of FGC Section 1600 Streambed Waters followed guidance in the Mapping Episodic Stream Activity (MESA) protocols [MESA Field Guide], pursuant to which CDFW claims jurisdiction beyond traditional stream banks and the outer edge of riparian. Under MESA, the term stream is defined broadly to include "a body of water that flows perennially or episodically and that is defined by the area in which water currently flows, or has flowed, over a given course during the historic regime [i.e., 'circa 1800 to the present'], and where the width of its course can reasonably be identified by physical or biological indicators."

The methods used to determine any riparian/riverine or vernal pool areas were based on the above techniques as well as soils evaluations and vegetation classifications. This is because an area may be characterized as riparian based on its vegetative composition but does not meet the criteria of being federal or state jurisdictional water.

RESULTS

Regional Setting

According to the U.S. EPA Regional map, the Project site is located in the Inland Valleys (85k) ecoregion. An ecoregion is a regional area that has similar ecosystems in terms of type, quality, and quantity of environmental resources. The Inland Valleys ecoregion is influenced less by marine processes, and more by alluvial processes. The ecoregion consists of alluvial fans and basin floors at the base of the San Bernardino and San Gabriel mountains and the San Jacinto and Perris Valleys in the south. Soil moisture is generally xeric, and historically, the region was composed of Riversidean coastal sage scrub, valley grasslands, and riparian woodlands. The ecoregion is now heavily urbanized with some remaining agriculture.

Hydrologically, the Project site is located within the Lake Mathews hydrologic area, in the 14,217-acre hydrologic sub-area (HSA 801.35) within the Temescal Wash watershed (HUC 180702030601) (Figure 6).

The City of Lake Elsinore is located in southwestern Riverside County at the foothills of the Cleveland National Forest. Topographically, Lake Elsinore is located on the east side of the Santa Ana mountains. The general climate of Lake Elsinore includes hot summers (99°F average maximum in August) and mild winters (38°F average minimum) with cool ocean breezes and sparse winter rainfall, averaging 12.09 inches of precipitation per year.

According to the database searches, 53 sensitive species (24 plants ,24 vertebrates, 5 invertebrates) and 3 sensitive habitats have been documented in the *Lake Elsinore* USGS quadrangle (Table 1). Figure 7 depicts the sensitive species within a one mile radius of the Project site.

Existing Site Conditions

Weather conditions during the survey were overcast with no wind. Survey hours of spanned from 8:30 a.m. to 10:30 a.m. with temperatures ranging from 65 degrees Fahrenheit (° F) to 70° F

The topography of the Project site is relatively flat, with elevation increasing in the northern portion of the parcel. Site elevation ranges from 1,414 feet to 1,389 feet above mean sea level (MSL).

The Project site is vacant and is surrounded by flat bladed disturbed land on the west, south, and north, and by Hwy 74 (Central Avenue) to the east. The site does not connect to native, undisturbed areas.

Soils on the Project site area consist of Cortina cobbly loamy sand, 2-9% slopes (CmC), Lodo rocky loam, 25-50% slopes (LpF2), and Arbuckle gravelly loam, 2-9% slopes – dry, MLRA 19 (AIC), (Figure 8). Soils in the Arbuckle series are well-drained remnants of alluvial fans derived from numerous types of rock. Soils in the Cortina series are well-drained soils made from alluvium derived from metasedimentary rock. The Lodo series consists of shallow, somewhat excessively drained soils that formed in material weathered from hard shale and fine grained sandstone. Terrace escarpments are landforms (terraces) made from alluvium derived from mixed sources.

The entire site is mapped by the RCA MSHCP Vegetation (2012) layer as developed/disturbed land, and the site survey confirmed these findings for all but the northeast corner, which consists of a mix of

salt cedar, eucalyptus and willow scrub. The vegetation here is used as cover for a homeless encampment that supports approximately 10 transients. This area is heavily littered and disturbed. Many of the bushes and trees on site have had trunks/branches sawed off and used for cover in the homeless encampment.

Habitat

The northeast corner of the Project site supports an over-story canopy of eucalyptus trees (*Eucalyptus* ssp) approximately 35 feet in height, with a range in diameter at breast height (DBH) of 6 inches to 18 inches. The mid-story is densely covered in salt cedar (*Tamarix ramossima*) with a small thicket of black willow shrubs (*Salix gooddingii*). The average height of the mid-story is approximately 12 feet. The dense understory primarily consists of short-podded mustard (*Hischfeldia incana*), tocalote (*Centaurea melitensis*), and non-native grasses (*Bromus* ssp.). A few native plants are found scattered along the eastern and western edges of the Project site including California buckwheat (*Erioginum faciculatum*), encilia (*Encilia farinosa*) and telegraph weed (*Heterotheca grandiflora*). The remainder of the Project site is bare and compacted due to blading.

Although, the vegetation in the northeastern corner of the Project site is mostly non-native (salt cedar and eucalyptus) and heavily impacted by a homeless encampment, it provides potentially suitable habitat for nesting birds, including raptor species.

Wildlife

Wildlife observed at the time of survey included yellow-rumped warbler, black phoebe, white-crowned sparrow, common raven, American crow, lesser goldfinch, house finch, European starling and mourning dove.

MSHCP Surveys

The Regional Conservation Authority (RCA) Information Map identifies the following for both APN 347-130-029 and 347-130-028:

- The parcels are located in the Elsinore Area Plan of the MSHCP.
- APN 347-130-028 is located in an area that requires focused BUOW surveys be conducted if suitable habitat is present. APN 347-130-029 is not located in an BUOW survey area (Figure 4)
- The parcels are not located in or adjacent to a Criteria Cell
- The parcels are not in a criteria species survey area
- The parcels are not in a mammal survey area
- The parcels are not in a narrow endemic plant survey area
- The parcels are not in a cellgroup

Burrowing owl (BUOW)

BUOW are known to occur locally within suitable habitat areas, with the closest occurrence being 3.6 miles northeast from the Project site along Highway 74 near Ethanac Road and Eugene Street in 1999.

The BUOW is currently designated as a California Species of Special Concern. It is a grassland specialist distributed throughout western North America where it occupies open areas with short vegetation and bare ground within shrub, desert, and grassland environments. They use a wide variety of arid and semi-arid environments with level to gently-sloping areas characterized by open vegetation and bare ground. BUOWs rarely dig their own burrows and are instead dependent upon the presence of burrowing mammals (i.e., California ground squirrels [Otospermophilus beecheyi], coyotes, and badgers [Taxidea taxus]) whose burrows are often used for roosting and nesting. The presence or absence of colonial mammal burrows is often a major factor that limits the presence or absence of BUOWs. Where mammal burrows are scarce, burrowing owls have been found occupying man-made cavities, such as buried and non-functioning drain pipes, stand-pipes, and dry culverts. They also require low growth or open vegetation allowing line-of-sight observation of the surrounding habitat to forage and watch for predators. In California, the BUOW breeding season extends from the beginning of February through the end of August.

Under the MSHCP burrowing owl is considered an adequately conserved covered species that may still require focused surveys in certain areas as designated in Figure 6-4 of the MSHCP. The survey for burrowing owl requires a systematic survey of all areas that provide suitable habitat plus a 150-meter (approximately 500 feet) zone of influence on all sides of suitable habitat, where applicable.

The area on site requiring BUOW surveys is densely vegetated in a three story canopy cover structure that includes eucalyptus trees, salt cedar and willows, and non-native grasses and weeds. The habitat composition and structure is not suitable for BUOW. No burrows, feathers, whitewash, castings, prey remains or BUOW individuals were observed on site or in the survey buffer area which was surveyed by binoculars. (The adjacent properties are private property and access was not granted to survey). Based on the survey results BUOW are absent, the habitat within the required survey area is unsuitable and therefore, further investigation is not recommended or warranted

Heritage Trees

The City of Lake Elsinore's Palm Tree Preservation Program is limited to palm species within the city limits. Palm trees are not on site; therefore, the Project will not impact heritage trees.

Riverine/Riparian Areas and Jurisdictional Waters

A roadside swale originating from HWY74 and N. Frontage road located along the northeastern boundary of the site, enters the Project site in the northern portion of APN 347-130-028 and continues westerly along the property boundary between the Project site and the parcel north of the Project site (Figure 7). This swale collects street runoff and is not a natural or jurisdictional feature subject to Sections 1600 of the FGC or 404/401 of the federal CWA. There is no bed or bank associated with this swale indicating a flow of water. The water runoff from HWY 74 travels west, back flows to the southeast and percolates in the well-drained soils. There is no evidence that the swale connects to the blue line stream located off-site to the west.

This roadside is a result of man-made roadside water diversion from HWY 74 and is not considered jurisdictional or riverine/riparian. Although the patch of willows growing in the mid-story of the swale are riparian it is not the intent of the MSHCP to conserve small patches of riparian species growing as a direct result of man-made features. The willows occur as a direct result of roadside runoff. If the run off was redirected, these willows would not exist. For further clarification as defined under Section 6.1.2 of the MSHCP, *Protection of Species Associated with Riparian/Riverine*

Areas and Vernal Pools, riparian/riverine areas are areas dominated by trees, shrubs, persistent emergent plants, or emergent mosses and lichens which occur close to or are dependent upon nearby freshwater, or areas with freshwater flowing during all or a portion of the year. Conservation of these areas is intended to protect habitat that is essential to a number of listed or special-status water-dependent fish, amphibian, avian, and plant species.

Based on the Project's Site Plan (Figure 8), 0.41 acre will be permanently impacted by grading and construction.

Due to the presence of a willow scrub thicket the following three bird species must be addressed according to the MSHCP.

- Southwestern willow flycatcher (*Empidonax trallii extimus*) [SWWF]
- least Bell's vireo (Vireo bellii pusillus) [LBVI]
- yellow-billed cuckoo (Coccyzus americanus) [YBCU]

Southwestern willow flycatcher

The southwestern willow flycatcher (SWWF) is a State and federally listed species. In 1992, it was listed by the California Fish and Game Commission endangered, under the California Endangered Species Act (CESA) of 1970. It was federally listed as endangered on February 27, 1995, under the ESA (60 FR 10694). The USFWS designated critical habitat for the species on July 22, 1997. This habitat includes 18 units with a total of 599 miles of river in California, New Mexico, and Arizona. In California, critical habitat was designated along portions of the Santa Ana River, San Luis Rey River, San Diego River, Santa Margarita River, Tijuana River, and south fork of the Kern River (62 FR 39129). On May 11, 2001, the critical habitat designation from 1997 was struck down by the U.S. 10th Circuit Court of Appeals who required further economic analysis. A recovery plan was finalized by USFWS in March of 2003. Critical habitat designations for this species were re-proposed and finalized in June 2004 (USFWS, 2003c).

The species historical range included Arizona, California, Colorado, New Mexico, Texas, and Utah. Southwest Region (Region 2) Counties in California in which this population is known to or is believed to occur: Fresno, Imperial, Inyo, Kern, Los Angeles, Madera, Mono, Monterey, Orange, Riverside, San Benito, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Santa Cruz, Tulare, Tuolumne, Ventura.

The SWWF is a small passerine bird measuring approximately 5.7 inches in length. It has a grayish-green back and wings, whitish throat, a light gray-olive breast, and pale yellowish belly. It has two visible white wing bars and a faint or absent eye ring. The call consists of a repeated "whit" and their song is a sneezy "fitz-bew." (60 FR 10694). The SWWF is currently one of the four recognized subspecies of the willow flycatcher. This flycatcher is a neotropical migrant that breeds in the southwestern United States from mid-April to early-September. In the fall, it migrates south to its wintering grounds in portions of South America, Central America and Mexico. (60 FR 10694)

The SWWF breeds in dense riparian habitats along rivers, streams, and other wetlands at elevations ranging from sea level to 8,500 feet (Sogge 1997). Occupied habitat is generally dominated by shrubs and trees 13 to 23 feet or more in height, which provide dense lower and mid-story vegetation approximately 10 to 13 feet aboveground. This dense vegetation is often interspersed with open water, small openings, or sparse vegetation, creating a mosaic that is not uniformly dense (62 FR

39129). Plant species closely associated with the flycatcher include willows (Salix spp.), boxelder (*Acer negungo*), seepwillow (*Baccharis* spp.), with an overstory of cottonwood (*Populus fremontii*) (62 FR 39129).

The SWWF has not been documented on site or within a one mile radius. The small willow scrub thicket onsite is highly degraded and occupied by transients. The habitat formed as a result of street run off and does not have the size or structure preferred by this species. They are found in habitat areas with a well-developed overstory, mid-story, understory, consisting of willow, mule fat and cottonwood, near water, with a minimum patch size of four (4) acres. This species requires a habitat structure of a 20-30-foot upper canopy, 15-12 foot mid-story and a lower story of 5-3 feet. This species is not found in salt cedar or eucalyptus. Although there is a willow component it is not the size or structure where this species is found. These conditions are absent from the site. The acreage and structure of 0.11 acre of eucalyptus trees approximately 35 feet in height, with a range in diameter at breast height (DBH) of 6 inches to 18 inches and a mid-story densely covered in 0.03 acre of salt cedar with a DBH of 8 inches and 0.27 acre of black willow shrubs with a DBH of 6 inches is not the type of habitat is not the type or structure that this species is found.

Nor are they found in high disturbance areas which is the case on site due to the transient encampments and cutting of the vegetation. The specific requirement for this species is the presence of water. These are not the conditions on site.

Therefore, SWWF has no potential to occur on site and /or in the Project vicinity. Further investigation is not warranted.

Least Bell's vireo

Least Bell's vireo (LBVI) was first proposed for listing as endangered by the USFWS on May 3, 1985, (50 FR 18968) and was subsequently listed as federally endangered on May 2, 1986 (60 FR 10694). Critical habitat units were designated by the USFWS on February 2, 1994 (59 FR 4845) and included reaches of ten streams in six counties in southern California and the surrounding approximately 38,000 acres. The critical habitat units exist in the Santa Ynez River, Santa Clara River, Santa Ana River, Santa Margarita River, San Luis Rey River, Sweetwater River, San Diego River, Tijuana River, Coyote Creek, and Jumul-Dulzura Creek.

The species historical range included California; California/Nevada Region (Region 8)Counties in California in which this population is known to or is believed to occur includes: Imperial, Inyo, Kern, Los Angeles, Monterey, Orange, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Joaquin, San Luis Obispo, Santa Barbara, Santa Clara, Santa Cruz, Stanislaus, Tulare, Ventura, Yolo.

The LBVI is a small, olive-gray migratory songbird that nests and forages almost exclusively in riparian woodland habitats. Bell's vireos as a group are highly territorial and are almost exclusively insectivorous. LBVI generally begin to arrive from their wintering range in southern Baja California and establish breeding territories by mid-March to late-March. A large majority of breeding vireos depart their breeding grounds by the third week of September and only a very few have been found wintering in the United States.

Nests are usually placed in forks of branches between 2 and 5 feet from the ground. Females lay two to five eggs with both parents incubating the clutch for approximately 14 days and the young fledging

after 10 to 12 days. The fledglings will remain in the parental territory for up to a month. LBVI leave the breeding grounds and migrate south mid to late September.

Their nesting habitat typically consists of well-developed overstory, understory, and low densities of aquatic and herbaceous cover. The understory frequently contains dense sub-shrub or shrub thickets. The overstory usually contains black willow, cottonwood and Sycamore. These thickets are often dominated by plants such as narrow-leaf willow, mulefat, young individuals of other willow species such as arroyo willow or black willow, and one or more herbaceous species. Although LBVI use a variety of riparian plant species for nesting, it appears that the structure of the vegetation is more important than other factors such as species composition or the age of the stand. Vireos forage in riparian habitats up to 984 feet from the nest and use both high and low scrub layers as foraging substrate.

The LBVI has not been documented on site or within a 1- mile radius. The small willow scrub thicket onsite is highly degraded and occupied by transients. The habitat formed as a result of street run off and does not have the structure or patch size preferred by this species. The acreage and structure of 0.11 acre of eucalyptus trees, approximately 35 feet in height, with a range in diameter at breast height (DBH) of 6 inches to 18 inches and a mid-story densely covered in 0.03 acre of salt cedar with a DBH of 8 inches and 0.27 acre of black willow shrubs, with a DBH of 6 inches is not the type of habitat that this species is found. This species is not found in salt cedar or eucalyptus.

Nor are they found in high disturbance areas. Although there is a willow component, it is not the size or structure where this species is found. They are located in well-developed overstory, mid-story, understory, and low densities of aquatic and herbaceous cover with a minimum patch size of two (2) acres, which is not the case for this site.

Therefore, LBVI has no potential to occur on site and /or in the Project vicinity. Further investigation is not warranted.

Yellow-billed cuckoo

The YBCU is listed as endangered in the state of California and was federally listed as threatened in 2014. Designation of critical habitat for the western distinct population segment of the Yellow-Billed Cuckoo (*Coccyzus americanus*) was made by the USFWS in 2014 (50 CFR Part 17). In 1971 it was listed by the California Department of Fish and Game as Rare. By 1977 it had become "one of the rarest birds" in the state. A 1977 survey of historical sites and suitable habitat at six widely scattered rivers turned up 54 birds in the Sacramento Valley (Tehama, Putte, Glenn, Colusa, and Sutter counties), 9 on the South Fork of the Kern River near Weldon, 3 along the Santa Ana River, Riverside County, 4 in Owens Valley, Inyo County, 6 on the Armargosa River south of Tecopa, Inyo and San Bernardino County, and 65 on both sides of the Colorado River from the Nevada state line to the Mexican border (Gaines 1977). By 1986 the entire breeding population in California had dropped to 31-42 pairs (Laymon and Halterman 1987).

The YBCU was once common in riparian habitat throughout the western United States. In California the YBCU has declined from a "fairly common breeding species" throughout most of the state to a current population of less than 50 pairs (Gaines and Laymon 1984; Laymon and Halterman 1991). The geographical breeding range of the YBCU in the western United States North America includes suitable habitat within the low- to moderate-elevation areas, including the upper and middle

Rio Grande, the Colorado River Basin, the Sacramento and San Joaquin River systems, the Columbia River system, and the Fraser River.

The species historical range included Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Texas, Utah, Washington, Wyoming. The California/Nevada Region (Region 8) Counties in California in which this population is known to or is believed to occur include: Alameda, Butte, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kern, Lake, Lassen, Madera, Marin, Mendocino, Modoc, Mono, Plumas, Sacramento, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Clara, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuma.

The YBCU is a medium sized bird, with a long and slim profile. Its legs are short and bluish-gray, and its tail is gray-brown above and black below with three striking pairs of large white dots visible in flight. Its body is brown above with white under parts. The undersides of its pointed wings are rufous. Adult birds have a long-curved bill which is blue-black above and yellow at the base of the mandibles. Juveniles have a completely blue-black bill.

Though the YBCU will occupy a variety of marginal habitats, particularly at the edges of their range, YBCU in the West are overwhelmingly associated with relatively expansive stands of mature cottonwood willow forests. Canopy height ranged from 5-25 m, canopy cover from 20-90 percent, and understory cover from 30-90 percent. Willows and open water are required and the habitat will vary from dense willow-cottonwood forests to marshy bottomlands with scattered willow thickets. Today, five of the remaining eight populations in California are in immediate danger of extinction, including 2 sites in Owens Valley, the Armargosa River near Tecopa, the Mojave River and the Santa Ana River. These populations only harbor 1-2 individuals in some years and none in others, making them highly vulnerable to extirpation from both stochastic and systemic processes. According to the California Department of Fish and Wildlife (1980), remnant patches of suitable habitat in sizes sufficient to support breeding yellow-billed cuckoos are scarce.

The YBCU has not been documented on site or within a 1- mile radius. The small willow scrub thicket onsite is highly degraded and occupied by transients. The habitat formed as a result of street run off and does not have the structure or size preferred by this species. They are found in habitat areas with a well-developed overstory, mid-story, understory, consisting of willow and cottonwood, near water, with a minimum patch size of forty (40) acres. This species requires a habitat structure of a 30-75-foot upper canopy, 18-20 foot mid-story and a lower story of 5-3 feet. This species is not found in salt cedar or eucalyptus. Although there is a willow component, it is not the size or structure where this species is found. These conditions are absent from the site. The acreage and structure of 0.11 acre of eucalyptus trees approximately 35 feet in height, with a range in diameter at breast height (DBH) of 6 inches to 18 inches and a mid-story densely covered in 0.03 acre of salt cedar with a DBH of 8 inches and 0.27 acre of black willow shrubs with a DBH of 6 inches is not the type of habitat or structure that this species is found. Nor are they found in high disturbance areas which is the case on site due to the transient encampments and cutting of the vegetation. This species is very sensitive to disturbance and is only found in pristine environments. The specific requirement for this species is the presence of water which is absent from the site.

Therefore, YBCU has no potential to occur on site and /or in the Project vicinity. Further investigation is not warranted.

Vernal Pools

No vernal pool resources occur on site. The soils are well drained and no evidence of pooling/ponding is present. Further historical imagery provides no evidence of past ponding or pooling.

CONCLUSIONS AND RECOMMENDATIONS

The Project site is currently vacant and has been subject to human disturbances. Parcel APN 347-130-028, the northeastern corner of the Project site has two occupied homeless encampments with trash littering the entire area and an old Porta Potty. Soils on site have been bladed, and many of the eucalyptus trees on site have had trunks/branches sawed off.

The Project site is within an MSHCP required survey area for BUOW. Based on the survey results BUOW are absent from the Project site and survey buffer. The habitat type, structure and composition is not suitable for BUOW and there is no potential for them to occur here. Therefore, no further action relative to BUOW is required.

The small patch of willow scrub located in the northest corner of the Project site is not suitable to support LBVI, SWWF or YBCU. Therefore, protocol surveys are not warranted. These migratory songbirds nest and forage almost exclusively in riparian woodland habitats with nesting habitat typically consisting of well-developed overstory, understory, and low densities of aquatic and herbaceous cover. The understory frequently contains dense sub-shrub or shrub thickets. These thickets are often dominated by plants such as narrow-leaf willow, mulefat, young individuals of other willow species such as arroyo willow or black willow, and one or more herbaceous species. These conditions do not occur on site. Although these song birds use a variety of riparian plant species for nesting, it appears that the structure of the vegetation is more important than other factors such as species composition or the age of the stand. Territories for these three species range in size from 0.5 to 7.5 acres, with an average size of approximately 2 acres. The willow scrub on site is 0.27 acre in size and does not meet the habitat structure requirements of these three species. Further, the consistent presence of transients in the willow thicket presents a major disturbance that is not conducive to bird nesting in general.

The eucalyptus and salt cedar vegetation growing in the northeast corner of the property does however, provide potentially suitable nesting habitat for birds, including raptor species. Therefore, the following is recommended to avoid potential impacts to nesting birds and/or raptors:

Recommendation: Bird nesting season generally extends from February 1 through September 15 in southern California and specifically, April 15 through August 31 for migratory passerine birds. In general, Projects should be constructed outside of this time to avoid impacts to nesting birds. If a Project cannot be constructed outside of nesting season, the project site shall be surveyed for nesting birds by a qualified avian biologist prior to initiating the construction activities. If active nests are found during the pre-construction nesting bird surveys, a Nesting Bird Plan (NBP) will be prepared and implemented. At a minimum, the NBP will include guidelines for addressing active nests, establishing buffers, monitoring, and reporting. The NBP will include a copy of maps showing the location of all nests and an appropriate buffer zone around each nest sufficient to protect the nest from direct and indirect impact. The size and location of all buffer zones, if required, shall be determined by the

biologist, and shall be based on the nesting species, its sensitivity to disturbance, and expected types of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved buffer zone shall be marked in the field, within which no vegetation clearing or ground disturbance shall commence until the qualified biologist has determined the young birds have successfully fledged or that the nest has otherwise become inactive.

Should you have any questions or require further information, please contact me at (909) 915-5900 or shaw@jericho-systems.com should you have any questions or require further information.

Sincerely,

Shay Lawrey, President

Attachments:

- A. Site Photographs
- B. Species Occurrence Table
- C. Figures

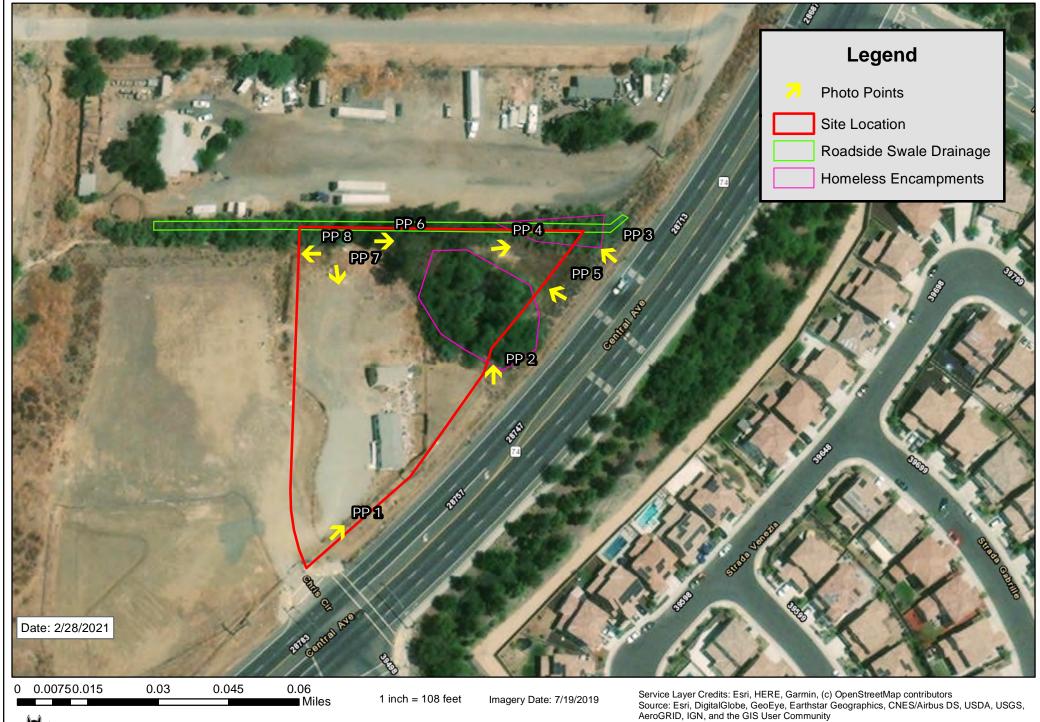






Photo Map

Attachment A – Site Photographs



Photo 1 – Facing north east from the most southern point of the Project.



Photo 2 – Facing west, start of encampment.



Photo 3 – Looking west, northern encampment.



Photo 4 – Facing east toward HWY74,.



Photo 5 – Facing west; between the two encampments.



Photo 6 – Facing east.



Photo 7 – Facing south from northwest portion of project.



Photo 8 – Facing west from most northwestern point of project.

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
Plants				
Allium munzii	Munz's onion	Endangered Threatened G1 S1 1B.1	Chaparral, coastal scrub, cismontane woodland, pinyon and juniper woodland, valley and foothill grassland. Heavy clay soils; grows in grasslands & openings within shrublands or woodlands. 375-1040 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Ambrosia pumila	San Diego ambrosia	Endangered None G1 S1 1B.1	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Atriplex coronata var. notatior	San Jacinto Valley crownscale	Endangered None G4T1 S1 1B.1	Playas, valley and foothill grassland, vernal pools. Alkaline areas in the San Jacinto River Valley. 35-460 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Brodiaea filifolia	thread-leaved brodiaea	Threatened Endangered G2 S2 1B.1	Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Occurs in openings on clay soils. 15-1030 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Calochortus plummerae	Plummer's mariposa- lily	None None G4 S4 4.2	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Carex buxbaumii	Buxbaum's sedge	None None G5 S3 4.2	Bogs and fens, meadows and seeps, marshes and swamps. Mesic sites. 3-3300 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Caulanthus simulans	Payson's jewelflower	None None G4 S4 4.2 USFS: Sensitive	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Centromadia pungens ssp. laevis	smooth tarplant	None None G3G4T2 S2 1B.1	Wetland Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland. Alkali meadow, alkali scrub; also in disturbed places. 5-1170 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
Chorizanthe leptotheca	Peninsular spineflower	None None G3 S3 4.2	Chaparral, coastal scrub, lower montane coniferous forest. On granitic soils, in alluvial fans. 300-1900 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Chorizanthe parryi var. parryi	Parry's spineflower	None None G3T2 S2 1B.1 BLM: Sensitive USFS: Sensitive	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Chorizanthe polygonoides var. longispina	long-spined spineflower	None None G5T3 S3 1B.2 BLM: Sensitive	Chaparral, coastal scrub, meadows and seeps, valley and foothill grassland, vernal pools. Gabbroic clay. 30-1630 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Convolvulus simulans	small-flowered morning-glory	None None G4 S4 4.2	Chaparral, coastal scrub, valley and foothill grassland. Wet clay, serpentine ridges. 30-700 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Dodecahema leptoceras	slender-horned spineflower	Endangered Endangered G1 S1 1B.1	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Dudleya multicaulis	many-stemmed dudleya	None None G2 S2 1B.2 USFS: Sensitive	Chaparral, coastal scrub, valley and foothill grassland. In heavy, often clayey soils or grassy slopes. 1-910 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Harpagonella palmeri	Palmer's grapplinghook	None None G4 S3 4.2	Chaparral, coastal scrub, valley and foothill grassland. Clay soils; open grassy areas within shrubland. 20-955 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
Hordeum intercedens	vernal barley	None None G3G4 S3S4 3.2	Valley and foothill grassland, vernal pools, coastal dunes, coastal scrub. Vernal pools, dry, saline streambeds, alkaline flats. 5-1000 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Juglans californica	southern California black walnut	None None G4 S4 4.2	Chaparral, coastal scrub, cismontane woodland, riparian woodland. Slopes, canyons, alluvial habitats. 50-900 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None None G4T2 S2 1B.1 BLM: Sensitive	Coastal salt marshes, playas, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. 1-1375 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Lepechinia cardiophylla	heart-leaved pitcher sage	None None G3 S2S3 1B.2 USFS: Sensitive	Closed-cone coniferous forest, chaparral, cismontane woodland. 115-1345 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Myosurus minimus ssp. apus	little mousetail	None None G5T2Q S2 3.1	Vernal pools, valley and foothill grassland. Alkaline soils. 20-640 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Navarretia fossalis	spreading navarretia	Threatened None G2 S2 1B.1	San Diego hardpan and San Diego claypan vernal pools; in swales & vernal pools, often surrouded by other habitat types. 15-850 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Orcuttia californica	California Orcutt grass	Endangered Endangered G1 S1 1B.1	Wetland Vernal pools. 10-660 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Romneya coulteri	Coulter's matilija poppy	None None G4 S4	Desert wash Coastal scrub, chaparral. In washes and on slopes; also after burns. 20-1200 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
		4.2		
Tortula californica	California screw moss	None None G2G3 S2? 1B.2 BLM: Sensitive	Chenopod scrub, valley and foothill grassland. Moss growing on sandy soil. 45-750 m.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Birds				
Accipiter cooperii	Cooper's hawk	None None G5 S4 CDFW: Watch List IUCN: Least Concern	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.	Marginally suitable habitat occurs on site. Potential to occur is moderate .
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	None None G5T3 S3 CDFW: Watch List	Resident in Southern California coastal sage scrub and sparse mixed chaparral. Frequents relatively steep, often rocky hillsides with grass and forb patches.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Artemisiospiza belli belli	Bell's sage sparrow	None None G5T2T3 S3 CDFW: Watch List USFWS: Birds of Conservation Concern	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Athene cunicularia	burrowing owl	None None G4 S3 BLM: Sensitive CDFW: Species of Special Concern	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .

		Federal Status		
Scientific Name	Common Name	State Status	Habitats	Potential To Occur
		Other Status		
		IUCN: Least		
		Concern		
		USFWS: Birds		
		of		
		Conservation		
		Concern		
		Threatened		
		None		
		G3T3 S2S3		
		CDFW:		
		Species of		Habitat on site consists of dense, annual, primarily
Charadrius		Species of Special	Sandy beaches, salt pond levees & shores of large alkali	invasive species with stands of gum trees. The
alexandrinus	western snowy plover	ConcernNABC	lakes.	habitat requirements for this species are not on site.
nivosus		I: Red Watch	Needs sandy, gravelly or friable soils for nesting.	Potential to occur is low .
		List	Totelitial to occur is low.	Totelliar to occur is low.
		USFWS: Birds		
		of		
		Conservation		
		Concern		
		None		
		None		
		G5		
		S3S4		
Elanus leucurus	white-tailed kite	BLM:	Open grasslands, meadows, or marshes for foraging close	Marginally suitable habitat for this species occurs
Zienius retieti. tis	winte-tailed kite	Sensitive	to isolated, dense-topped trees for nesting and perching.	on site. Potential to occur is moderate .
		CDFW: Fully		
		Protected		
		IUCN: Least Concern		
		Endangered		Habitat on site consists of dense, annual, primarily
		Endangered		invasive species with stands of gum trees. The
Empidonax traillii	southwestern willow	G5T2	Riparian woodlands with multiple canopy layers in	dense canopy layers of riparian vegetation this
extimus	flycatcher	S1	Southern California.	species requires is not on site. The habitat
CAUMUS	Try catcher	NABCI: Red	Southern Currorma.	requirements for this species are not on site.
		Watch List		Potential to occur is low .
		None		
		None		
		G5T4Q		Habitat on site consists of dense, annual, primarily
Eremophila	California horned lark	S4	Short-grass prairie, "bald" hills, mountain meadows, open invasive species with stands of	invasive species with stands of gum trees. The
alpestris actia		CDFW: Watch		habitat requirements for this species are not on site.
		List		Potential to occur is low .
		IUCN: Least		
		Concern		

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
Icteria virens	yellow-breasted chat	None None G5 S3 CDFW: Species of Special ConcernIUCN: Least Concern	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.	The willows on site are not in great enough quality and quantity to provide suitable habitat for this species. Potential to occur is low .
Lanius ludovicianus	loggerhead shrike	None None G4 S4 CDFW: Species of Special Concern IUCN: Least Concern USFWS: Birds of Conservation Concern	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub & washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Plegadis chihi	white-faced ibis	None None G5 S3S4 CDFW: Watch List IUCN: Least Concern	Shallow freshwater marsh. Dense tule thickets for nesting, interspersed with areas of shallow water for foraging.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Polioptila californica californica	coastal California gnatcatcher	Threatened None G4G5T2Q S2 CDFW: Species of Special Concern NABCI: Yellow Watch List	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
Vireo bellii pusillus	least Bell's vireo	Endangered Endangered G5T2 S2 IUCN: Near Threatened NABCI: Yellow Watch List	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.	The willows on site are not in great enough quality and quantity to provide suitable habitat for this species. Potential to occur is low .
Mammals		T		
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	None None G5T3T4 S3S4 CDFW: Species of Special Concern	Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County. Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Dipodomys merriami parvus	San Bernardino kangaroo rat	Endangered Candidate Endangered G5T1 S1 CDFW: Species of Special Concern	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains. Needs early to intermediate seral stages.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Dipodomys stephensi	Stephens' kangaroo rat	Endangered Threatened G2 S2 IUCN: Endangered	Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover. Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Lepus californicus bennettii	San Diego black-tailed jackrabbit	None None G5T3T4 S3S4 CDFW: Species of Special Concern	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges. Coastal sage scrub habitats in Southern California.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Reptiles				

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
Arizona elegans occidentalis	California glossy snake	None None G5T2 S2 CDFW: 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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Aspidoscelis hyperythra	orange-throated whiptail	None None G5 S2S3 CDFW: Watch List IUCN: Least Concern USFS: Sensitive	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Crotalus ruber	red-diamond rattlesnake	None None G4 S3 CDFW: Species of Special Concern USFS: Sensitive	Chaparral, woodland, grassland, & desert areas from coastal San Diego County to the eastern slopes of the mountains. Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	The microhabitat conditions required for this species are not on site. Potential to occur is low .
Phrynosoma blainvillii	coast horned lizard	None None G3G4 S3S4 BLM: Sensitive CDFW: Species of Special Concern IUCN: Least Concern	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Salvadora hexalepis virgultea	coast patch-nosed snake	None None G5T4 S2S3	Brushy or shrubby vegetation in coastal Southern California. Require small mammal burrows for refuge and overwintering sites.	Small mammal burrows were not detected on site. Potential to occur is low .

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
		CDFW: Species of Special Concern		
Amphibians	T	T		
Spea hammondii	western spadefoot	None None G3 S3 BLM: Sensitive CDFW: Species of Special Concern IUCN: Near Threatened	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Crustaceans				
Branchinecta lynchi	vernal pool fairy shrimp	Threatened None G3 S3 IUCN: Vulnerable	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Streptocephalus woottoni	Riverside fairy shrimp	Endangered None G1G2 S1S2 IUCN: Endangered	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Insects				
Bombus crotchii	Crotch bumble bee	None Candidate Endangered G3G4 S1S2	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Cicindela senilis frosti	senile tiger beetle	None None G2G3T1T3 S1	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.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .

Scientific Name	Common Name	Federal Status State Status Other Status	Habitats	Potential To Occur
Euphydryas editha quino	quino checkerspot butterfly	Endangered None G5T1T2 S1S2	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties. Hills and mesas near the coast. Need high densities of food plants Plantago erecta, P. insularis, and Orthocarpus purpurescens.	Habitat on site consists of dense, annual, primarily invasive species with stands of gum trees. The habitat requirements for this species are not on site. Potential to occur is low .
Habitats				
Southern Coast Live Oak Riparian Forest		None None G4 S4	Riparian forest	This habitat is not on site
Southern Cottonwood Willow Riparian Forest		None None G3 S3.2	Riparian forest	This habitat is not on site
Southern Sycamore Alder Riparian Woodland		None None G4 S4	Riparian woodland	This habitat is not on site

Coding and Terms

- E = Endangered T = Threatened C = Candidate FP = Fully Protected SSC = Species of Special Concern R = Rare
- State Species of Special Concern: An administrative designation given to vertebrate species that appear to be vulnerable to extinction because of declining populations, limited acreages, and/or continuing threats. Raptor and owls are protected under section 3502.5 of the California Fish and Game code: "It is unlawful to take, possess or destroy any birds in the orders Falconiformes or Strigiformes or to take, possess or destroy the nest or eggs of any such bird."
- **State Fully Protected:** The classification of Fully Protected was the State's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, mammals, amphibians and reptiles. Fully Protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

Global Rankings (Species or Natural Community Level):

- G1 = Critically Imperiled At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2 = Imperiled At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
- G3 = Vulnerable At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
- G4 = Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 = Secure Common; widespread and abundant.

Subspecies Level: Taxa which are subspecies or varieties receive a taxon rank (T-rank) attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies. For example: the Point Reyes mountain beaver, *Aplodontia rufa* ssp. *phaea* is ranked G5T2. The G-rank refers to the whole species range i.e., *Aplodontia rufa*. The T-rank refers only to the global condition of ssp. *phaea*.

State Ranking:

- S1 = Critically Imperiled Critically imperiled in the State because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.
- S2 = Imperiled Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the State.
- S3 = Vulnerable Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the State.
- S4 = Apparently Secure Uncommon but not rare in the State; some cause for long-term concern due to declines or other factors.
- S5 = Secure Common, widespread, and abundant in the State.

California Rare Plant Rankings (CNPS List):

- 1A = Plants presumed extirpated in California and either rare or extinct elsewhere.
- 1B = Plants rare, threatened, or endangered in California and elsewhere.
- 2A = Plants presumed extirpated in California, but common elsewhere.
- 2B = Plants rare, threatened, or endangered in California, but more common elsewhere.
- 3 = Plants about which more information is needed; a review list.
- 4 = Plants of limited distribution; a watch list.

Threat Ranks:

- .1 = Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- .2 = Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- .3 = Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)



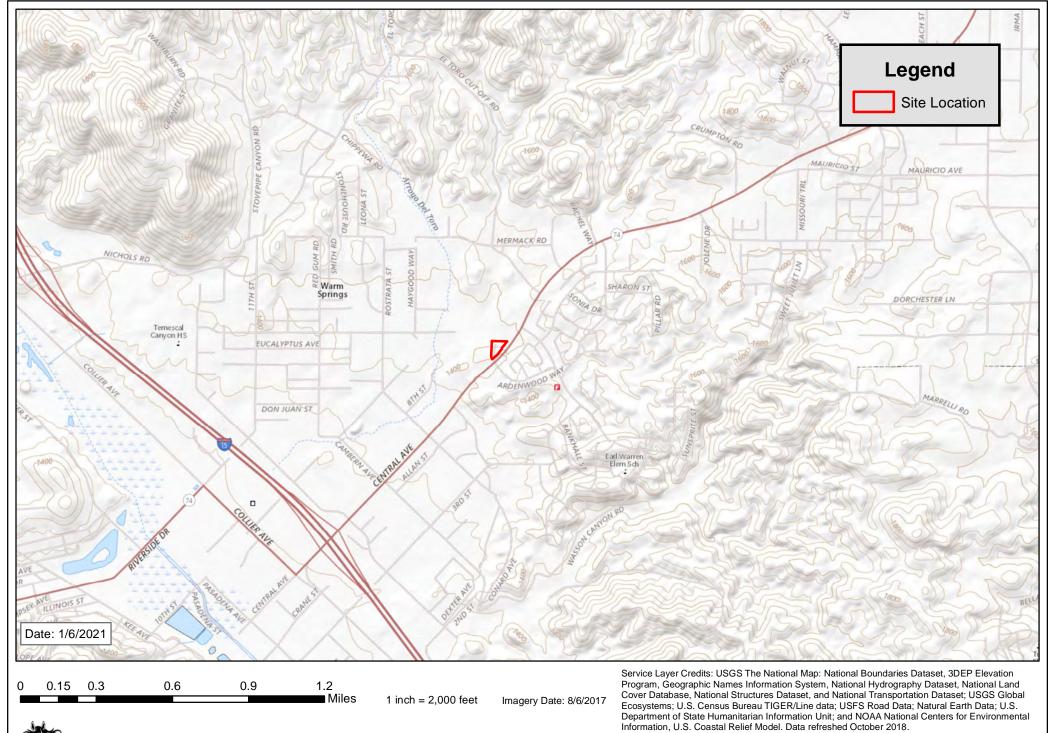






Figure 2
Site Location

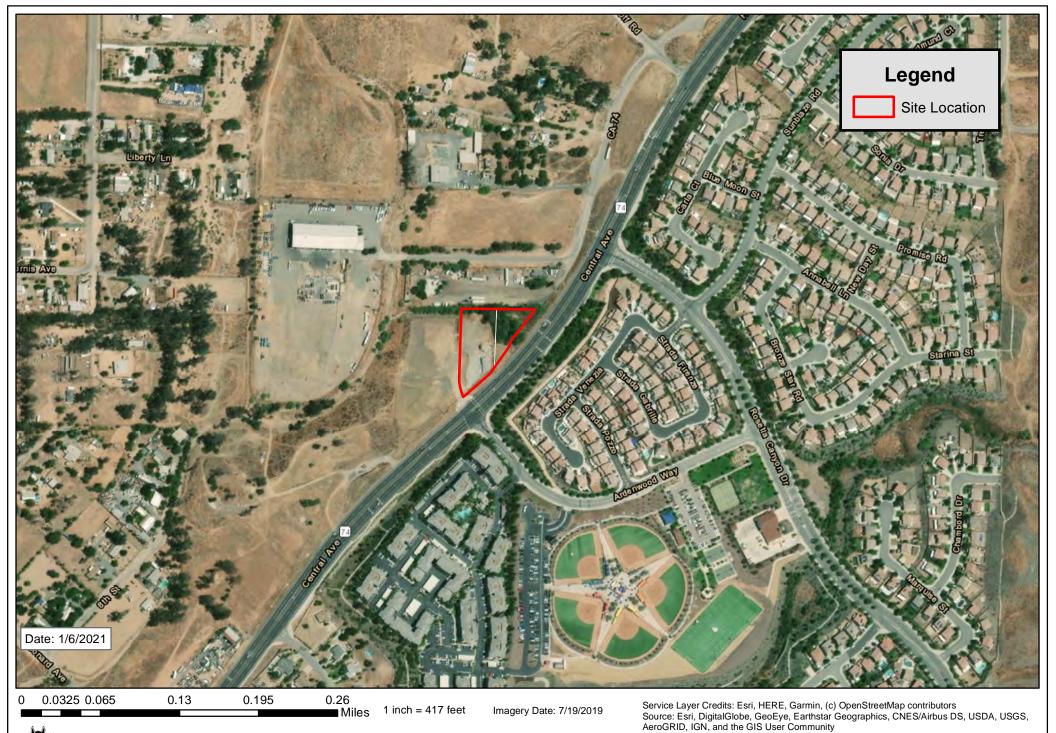






Figure 3
Site Location

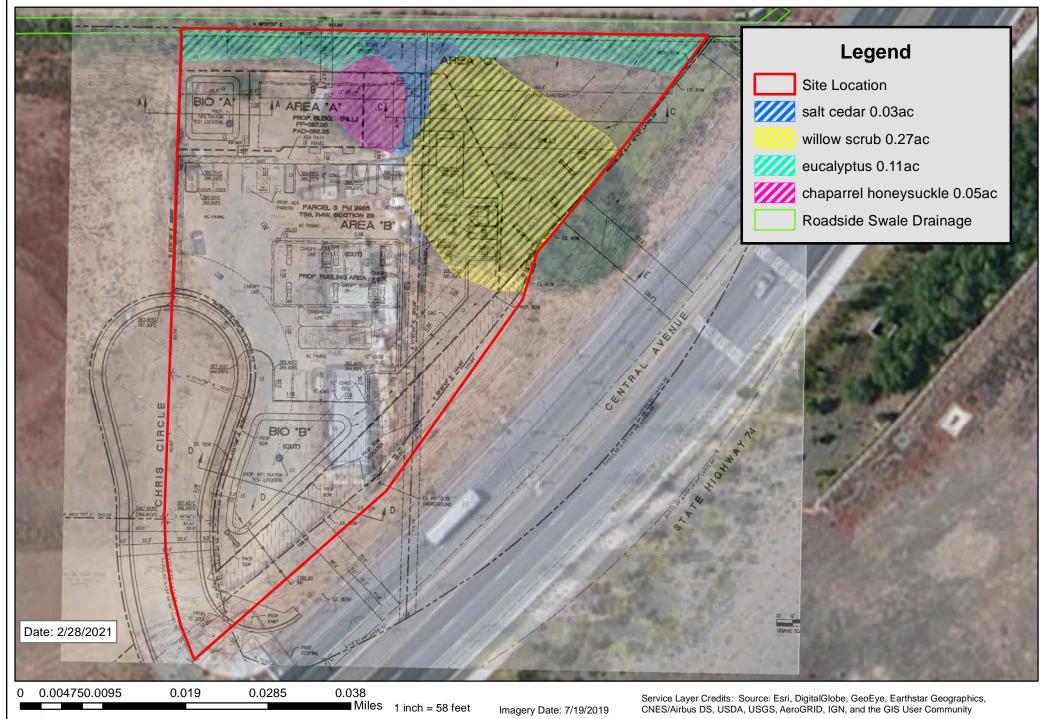






Figure 4 Site Plan

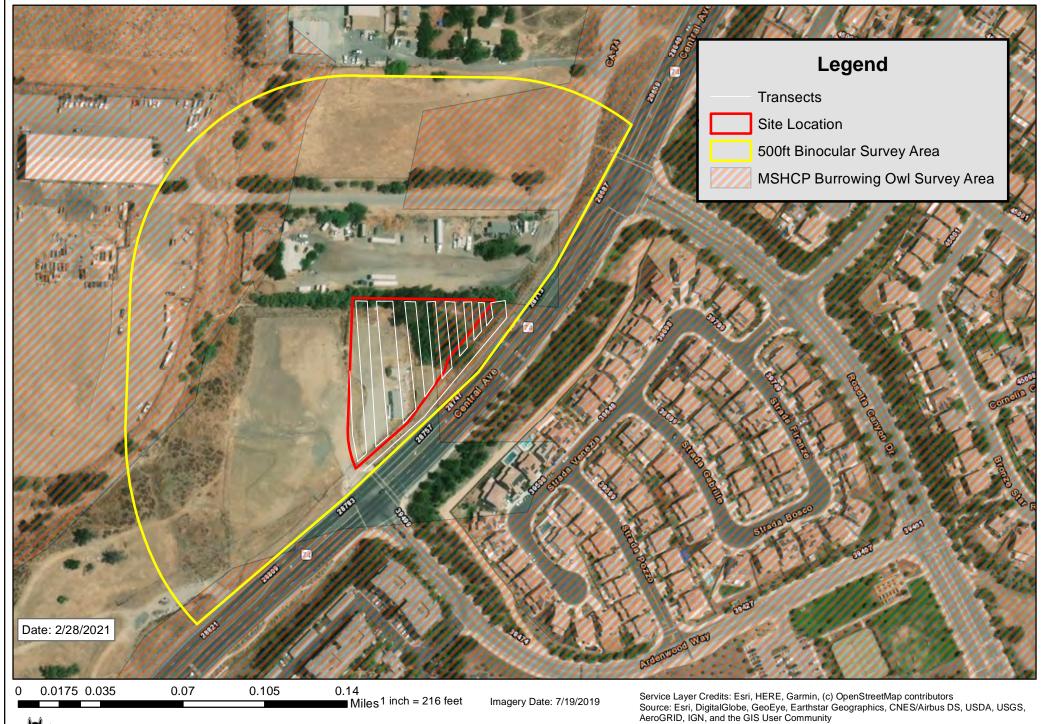






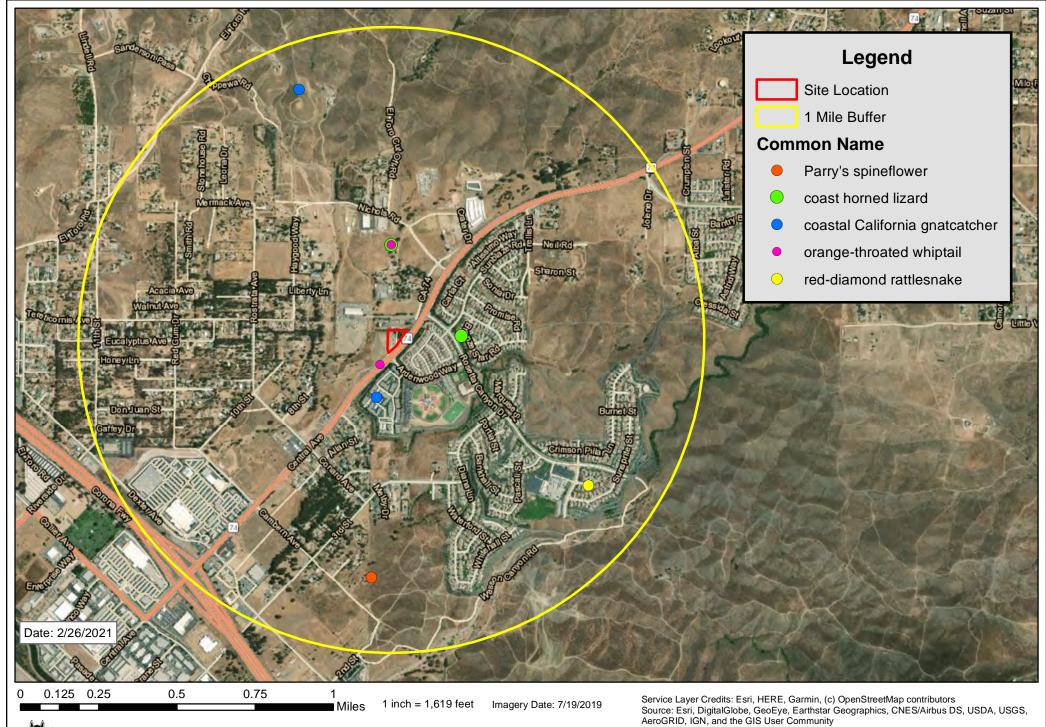
Figure 5 MSHCP







Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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Figure 7 CNDDB

