# GENERAL BIOLOGICAL RESOURCES ASSESSMENT

# TENTATIVE TRACT 20368 VICTORVILLE, SAN BERNARDINO COUNTY, CALIFORNIA

(Township 4 North, Range 5 West, Section 11) APN: 0405-322-08; 0405-322-09

Prepared for:

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General Biological Resources Assessment

**Assessor's Parcel Number:** 

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RCA ASSOCIATES INC. JUNE 2021

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#### 1.0 INTRODUCTION AND SUMMARY

Biological surveys were conducted on an 18-acre parcel (approximately) located on the southeast corner of Topaz Road and Eucalyptus Street in the City of Victorville, California (Township 4 North, Range 5 West, Section 11, USGS Baldy Mesa, California Quadrangle, 1956) (Figures 1, 2, and 3). The site shows little sign of disturbance with native vegetation dominating the property. The property supports a creosote community consisting of Joshua trees (*Yucca brevifolia*), creosote bush (*Larrea tridentata*), rubber rabbitbrush (*Ericameria nauseosa*), Indian grass (*Sorghastrum nutans*), California buckwheat (*Eriogonum fasciculatum*), kelch grass (*Schismus barbatus*), Nevada joint fir (*Ephedra nevadensis*), and brome grasses (*Bromus sp.*).

As part of the environmental process, California Department of Fish and Wildlife (CDFW) and U.S. Fish and Wildlife Service (USFWS) data sources were reviewed. Following the data review, surveys were performed on the site on August 19, 2020, during which the biological resources on the site and in the surrounding areas were documented by biologists from RCA Associates, Inc. As part of the surveys, the property and adjoining areas were evaluated for the presence of native habitats which may support populations of sensitive wildlife species. The property was also evaluated for the presence of sensitive habitats including wetlands, vernal pools, riparian habitats, and jurisdictional areas. No special status wildlife species or any sensitive habitats were observed on the property.

Focused surveys were also conducted for both the desert tortoise and burrowing owl, and a habitat assessment was performed for the Mohave ground squirrel. Based on data from USFWS, CDFW, and a search of the California Natural Diversity Database (CNDDB, 2020), Mohave ground squirrel (*Xerospermophilus mohavensis*) have been documented within approximately four miles southwest of the property. Scientific nomenclature for this report is based on the following references: Hickman (1993), Munz (1974), Stebbins (2003), Sibley (2000) and Whitaker (1980).

#### 2.0 EXISTING CONDITIONS

The property is approximately 18-acres in size and is located on the southeast corner of Topaz Road and Eucalyptus Street in the City of Victorville, California (Township 4 North, Range 5 West, Section 11, USGS Baldy Mesa, California Quadrangle, 1956). The site does show little sign of being disturbed in the past with native vegetation throughout the project site. This observation is based on the density of vegetation throughout the site. Vacant land borders the site to the west, south, and east, with residential developments located to the north.

Joshua trees (Yucca brevifolia), creosote bush (Larrea tridentata), rubber rabbitbrush (Ericameria nauseosa), California buckwheat (Eriogonum fasciculatum), and Nevada jointfir (Ephedra nevadensis) are the dominant perennials and the dominant annuals include brome grasses (Bromus sp.) and kelch grass (Schismus barbatus). There are several Joshua trees (Yucca brevifolia) also on the property. Section 5.0 provides a more detailed discussion of the various plant species observed during the surveys.

The site is expected to support a variety of wildlife species on the site. Mammals observed on the site or which are expected to inhabit the site include jackrabbits (*Lepus californicus*), desert cottontails (*Sylvilagus auduboni*), Antelope ground squirrel (*Ammospermophilus leucurus*), and California ground squirrel (*Otospermophilus beecheyi*). Coyote (*Canis latrans*) dens and scat were observed on site, indicating coyotes utilize the site during hunting activites.

Birds observed included ravens (*Corvus corax*), house finch (*Carpodacus mexicanus*), cactus wren (*Campylorhynchus brunneicapillus*), Anna's hummingbird (*Calypte anna*), greater roadrunner (*Geococcyx californianus*), black-chinned sparrow (*Spizella atrogularis*), and mourning dove (*Zenaida macroura*). Section 5.0 provides a more detailed discussion of the various species observed during the surveys.

Reptiles observed during the survey include desert spiny lizard (*Sceloporus magister*), and western whiptail lizard (*Cnemidophorus tigris*). Table 2 provides a compendium of wildlife species which inhabit the site and/or occur in the region. No sensitive habitats (e.g., sensitive species critical habitats, etc.) have been documented in the immediate area according to the CNDDB (2020) and none were observed during the field investigations.

#### 3.0 METHODOLOGIES

General biological surveys were conducted on August 19, 2020, during which biologists from RCA Associates, Inc. initially walked meandering transects throughout the property site. During the surveys, data was collected on the plant and animal species present on the site. All plants and animals detected during the surveys were recorded and are provided in Tables 1 & 2 (Appendix A). The property was also evaluated for the presence of habitats which might support sensitive species. Scientific nomenclature for this report is based on the following references: Hickman (1993), Munz (1974), Stebbins (2003), Sibley (2000) and Whitaker (1980). Following completion of the initial reconnaissance survey, protocol surveys were conducted for the desert tortoise and burrowing owl as per agency requirements, and a habitat assessment was performed for the Mohave ground squirrel. Weather conditions consisted of wind speeds of 0 to 5 mph, temperatures in the high 80's (°F) (AM) with clear skies. The applicable methodologies are summarized below.

General Plant and Animal Surveys: Meandering transects were walked throughout the site and in the surrounding area (i.e., the zone of influence) at a pace that allowed for careful documentation of the plant and animal present on the site. All plants observed were identified in the field and wildlife was identified through visual observations and/or by vocalizations. Tables 1 and 2 (Appendix A) provides a comprehensive compendium of the various plant and animal species observed during the field investigations. During the various biological surveys, all transects were walked at a pace that allowed careful observations along the transect routes and in the immediate vicinity. Field notes were recorded regarding native plant assemblages, wildlife sign, and human effects in order to determine the presence or absence of suitable tortoise foraging habitat.

**Desert Tortoise:** A habitat assessment was conducted on August 19, 2020 for the desert tortoises and a survey was also performed for the presence of any potential tortoise burrows. Ten-meter, parallel belt transects were walked in a north-south direction until the entire property had been checked for any tortoise sign (burrows, tracks, scats, etc.). Surveys in the zone of influence (ZOI) were also conducted in the area north, east, south, and west of the site. Comprehensive field investigations were conducted throughout the site during the biological surveys and no tortoise sign was identified on the site or zone of influence. If tortoises are found to inhabit the site in the

future, a Section 10(a) incidental take permit from the USFWS and a Section 2081 permit from CDFW will be required to mitigate impacts to the species.

Burrowing Owl: A habitat assessment (Phase 1) was conducted for the burrowing owl in conjunction with the general biological surveys to determine if the site supports suitable habitat for the species on August 19, 2020. Following completion of the habitat assessment, it was determined that the site does support suitable habitat for the burrowing owl. As part of the burrowing owl survey, meandering transects were walked throughout the site during which any suitable burrows were evaluated for owls and owl sign. Burrowing owls typically utilize burrows which have been excavated by other animals (squirrels, coyotes, foxes, dogs, etc.) since owls rarely dig their own burrows. CDFW protocol also requires surveys be conducted in the surrounding area out to a distance of about 500 feet; therefore, the zone of influence (ZOI) surveys were performed in the area surrounding the site. If present on a site, CDFW typically requires the owls to be passively relocated during the non-breeding season. It was determined that no owls were observed during the field investigations, and there were no owls sign (i.e., whitewash, feathers, or castings) in the immediate vicinity of the few suitable burrows observed on the site.

Mohave Ground Squirrel: A habitat assessment was performed for the Mohave ground squirrel as per CDFW protocol including an analysis of the on-site habitat, evaluation of local populations, and assessment of connectivity with habitats in the surrounding area which might support populations of the Mohave ground squirrel. Due to the low population levels and no recent observations in this area of the Mojave Desert, it is the opinion of RCA Associates, Inc. that the likelihood of Mohave ground squirrels occurring on the proposed project site is very low. However, CDFW may require additional surveys for the species when it is typically more active (Typically March – June).

#### 4.0 LITERATURE SEARCH

As part of the environmental process, a search of the California Natural Diversity Database (CNDDB) search was performed. Based on this review, it was determined that fourteen special status species have been documented within the Baldy Mesa quad. of the property. The following tables provide data on each special status species which has been documented in the area.

**Table 4-1: Federal and State Listed Species and State Species of Special Concern.**E = Endangered; T = Threatened; SSC = Species of special concern; CNPS = California Native Plant Society; CNDDB = California Natural Diversity Data Base

NAME	STATUS	HABITAT REQUIREMENTS	PRESENCE/ ABSENCE ON PROPERTY
PLANTS			
Within Baldy Mesa Quadra	ngle		_
Short-joint beavertail	Federal: None	Desert scrub	The site does support suitable
(Opuntia basilaris var.	State: None	Joshua tree woodland	habitat for the species;
brachyclada)	CNPS: 1B.2		however, no beavertail
,			observed during field surveys.
Sagebrush loeflingia	Federal: None	Creosote bush scrub,	The does support suitable
(Loeflingia squarrosa var.	State: None	sagebrush scrub, dunes	habitat, however no sagebrush
artemisiarum)	CNPS: 2B.2		loeflingia was observed.

Table 4-2: Special status wildlife and insects documented in the region (Source: CNDDB, 2020) or likely to occur in the region

NAME	STATUS	HABITAT REQUIREMENTS	PRESENCE/ABSENCE ON PROPERTY
ANIMAL			
Within Baldy Mesa Qua	adrangle		
Desert tortoise (Gopherus agassizii)	Federal: Threatened State: Threatened	Desert shrub	No tortoises observed on-site.
Yellow warbler (Setophaga petechia)	Federal: None State: None	Dense riparian vegetation.	The site does not support suitable habitat for the species.
Burrowing owl (Athene cunicularia)	Federal: None State: None CDFW: SSC	Open grassland areas where the owls utilize abandoned mammal burrows.	Marginal habitat present on the site. Not expected to occur on the site, and none observed during survey. However, this mobile species occurs throughout Southern California and could potentially occur in the area in the future.
Coast horned lizard (Phrynosoma blainvillii)	Federal: None State: None	Inhabits open areas of sandy soils and low vegetation in valleys, foothills, and semiarid mountains	Suitable habitat, none observed on site

Mohave ground squirrel (Xerospermophilus mohavensis)	Federal: None State: T	Desert scrub	The site supports suitable habitat for the species. Species has been identified in the area; therefore, species may inhabit the site.
Loggerhead shrike (Lanius ludovicianus)	Federal: None State: None	Open country with scattered shrubs and trees	The site does provide suitable habitat, however none observed on site

#### 5.0 RESULTS

#### 5.1 General Biological Resources

The site supports a creosote community which covers most of the property (Figure 3). Species present on the site included creosote bush (*Larrea tridentata*), Joshua trees (*Yucca brevifolia*), rubberbrush (*Ericameria nauseosa*), Nevada jointfir (*Ephedra nevadensis*), rubber rabbitbrush (*Ericamerica nauseosa var*), California buckwheat (*Eriogonum fasciculatum*), winterfat (*Krascheninnikovia ceratoides spp. lanata*), and silver cholla (*Cylindropuntia echinocarpa*). Table 1 provides a compendium of all plants occurring on the site and/or in the immediate surrounding area.

Birds observed included ravens (*Corvus corax*), house finch (*Carpodacus mexicanus*), mourning dove (*Zenaida macroura*), Anna's hummingbird (*Calypte anna*), cactus wren (*Campylorhynchus brunneicapillus*), greater roadrunner (*Geococcyx californianus*), and black-chinned sparrow (*Spizella atrogularis*). Black-tailed jackrabbit (*Calypte costae*), California ground squirrel (*Otospermophilus beecheyi*), Antelope ground squirrel (*Ammospermophilus leucurus*), and desert cottontail (*Sylvilagus auduboni*) were observed on the site. Coyote dens were observed on the property but looked to be abandoned due to spiderwebs and debris cluttering the entryway. Coyotes are known to occur in the area traversing the site during hunting activities.

Merriam's kangaroo rats (*Dipodomys merriamii*) may also occur on the site given their wide-spread distribution in the region. Tables 1 and 2 (Appendix A) provides a compendium of the various plant and animal species identified during the field investigations and those common to the area.

Reptiles observed during the survey were limited to only the western whiptail lizard (*Cnemidophorus tigris*) and desert spiny lizard (*Sceloporus magister*). Other species known to occur in the area include the western fence lizard (*Sceloporus occidentalis*) and side-blotched lizard (*Uta stansburiana*). Table 2 provides a compendium of wildlife species observed during the various surveys and those likely to occur in the area.

No sensitive habitats (e.g., wetlands, vernal pools, critical habitats for sensitive species, etc.) were observed on the site during the field investigations.

The following are the listed and special status species that have the ability to occur on the project site. It is not a comprehensive list of all the species in the quad. This information has been taken from the California Natural Diversity Database and is using the most current version.

## 5.2 Federal and State Listed Species

**Desert Tortoise:** The site is located within the documented tortoise habitat according to CNDDB with the nearest documented sighting about 4.5-miles northwest of the property (CNDDB, 2020). The property supports very marginal habitat for the desert tortoise based on the location of the site in a developed area of Victorville. No tortoises or tortoise sign (burrows, scats, etc.) were observed anywhere within the property boundaries during the August 19, 2020, surveys. The species is not expected to move onto the site in the near future based on the absence of any sign, absence of any recent observations in the immediate area, and the presence of busy roadways and developments in the immediate area which may act as barriers to migration of tortoises.

Mohave Ground Squirrel: The site does occur within the known distribution of the Mohave Ground Squirrels, and the nearest documented observation is about 4-miles to the southeast of the property. There is no recent observation of Mojave ground squirrel within the area. It is the opinion of RCA Associates, Inc. that the habitat is not prime Mohave ground squirrel habitat and is very unlikely to support populations of the species based on the following criteria:

- 1. Small size (18-acres);
- 2. No recent documented observations in the general region; and
- 3. No connectivity with habitat which may support the species.

#### 5.3 Wildlife Species of Special Concern

**Burrowing Owl:** The site is located within documented burrowing owl habitat according to CNDDB with the nearest documented sighting about 0.25-miles east of the property (CNDDB, 2020). No owls or owl sign (whitewash, etc.) were seen on the property during the survey, even though suitable (i.e., "occupiable") burrows were observed. There is a possibility of owls moving

onto this site in the future based on the results of the field investigations and presence of suitable burrows for utilization.

<u>Yellow warbler:</u> Yellow warbler have been documented in the region (Occurrence #29, Hesperia, California Quad, 2020), with the most recent observation (1953) about three miles west of the property (CNDDB, 2020). Yellow warbler would not occur on the site, for the habitat that the warbler would use is not present. The use of the site by warblers may be very infrequent given the low population levels in the region as well as the lack of any recent sightings according to the CNDDB.

<u>Short-joint beavertail:</u> Beavertail cactus are readily identifiable and if present on the site, would have been observed during the extensive field investigations conducted throughout the site. Short-joint beavertail has been observed in the region (Occurrence #13, Hesperia, California Quad, 2020), with the most recent documented siting (1991) in the region was approximately six miles to the south (CNDDB, 2020). However, no cacti were observed and the species is not expected to occur on the site in the near future.

Coast horned lizard: Coast horned lizard has been documented in the region (Occurrence # 217, Hesperia, California Quad, 2020), with the most recent observation (1980) about two miles east of the property (CNDDB, 2020). The use of the site by coast horned lizards may be very infrequent given the low population levels in the region as well as the lack of any recent sightings according to the CNDDB.

<u>Cooper's hawk:</u> Cooper's hawk has not been observed in the area recently (Occurrence #4, Hesperia, California Quad, 2020), with the last documented observation (1952) about four miles southeast of the property (CNDDB, 2020). The species could utilize the site for hunting; although, the species is expected to infrequently use the site for hunting.

<u>Pallid bat:</u> Pallid bat has been documented in the region (Occurrence #429, Hesperia, California Quad, 2020), with the most recent documented observations (2016) about four miles southeast of the property (CNDDB, 2020). Pallid bat would not occur on the site, for the habitat that the bat would use is not present.

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Long-eared owl: Long-eared owl has been documented in the region (Occurrence #17, Hesperia, California Quad, 2020), with the most recent documented observations (1948) about seven miles south of the property (CNDDB, 2020). The species could utilize the site for hunting; although, the species is expected to infrequently use the site for hunting due to its proximity to a major roadway.

White pygmy-poppy: White pygmy-poppy are readily identifiable and if present on the site, would have been observed during the extensive field investigations conducted throughout the site. White pygmy-poppy has been observed in the region (Occurrence #5, Hesperia, California Quad, 2020), with the most recent documented observation (1958) in the region was approximately three miles to the south (CNDDB, 2020). The species is not expected to occur on the site in the near future.

**Booth's evening-primrose:** Booth's evening-primrose are readily identifiable and if present on the site, would have been observed during the extensive field investigations conducted thought out the site. Booth's evening-primrose has been observed in the region (Occurrence #3, Hesperia, California Quad, 2020), with the most recent documented observation (1989) in the region approximately eight miles to the southeast (CNDDB, 2020). The species is not expected to occur on the site in the near future.

<u>Mojave tui chub:</u> The Mohave tui chub has been documented in the region with the nearest observation about 4 miles east of the property (Occurrence # 11, Victorville, California Quad), and this observation was recorded in 2011 (CNDDB, 2020). This species is not expected to occur on the site based on the lack of suitable habitat, (i.e., vernal pools, small wetlands etc).

Le Conte's thrasher: Le Conte's thrashers have been documented in the region (Occurrence #17, Hesperia, California Quad, 2020), with the most recent observation in 1917 about three miles north of the property (CNDDB, 2020). Thrashers could potentially occur on the site; although, the use of the site by thrashers may be very infrequent given the low population levels in the region as well as the lack of any recent sightings according to the CNDDB.

**Grey vireo:** Grey vireo has been documented in the region (Occurrence #24, Hesperia, California Quad, 2020), with the most recent documented observations (1949) about four miles northeast of the property (CNDDB, 2020). Grey vireo could potentially occur on the site; although, the use of the site by vireo may be very infrequent given the low population levels in the region as well as the lack of any recent sightings according to the CNDDB.

## 5.4 Jurisdictional Waters and Riparian Habitat

The following sources were reviewed to determine the potential presence or absence of jurisdictional streams/drainages, wetlands, and their location within the watersheds associated with the Project site, and other features that might contribute to federal or state jurisdictional authority located within watersheds associated with the Project site:

- National Wetlands Inventory (NWI) maps (USFWS 2018b). The NWI database indicates
  potential wetland areas based on changes in vegetation patterns as observed from satellite
  imagery. This database is used as a preliminary indicator of wetland habitats because the
  satellite data are not precise;
- USGS National Hydrography Dataset (NHD) provides the locations of "blue-line" streams as mapped on 7.5-Minute Topographic Map coverage;
- Aerial Imagery (Google Earth) (Google 2021);
- USGS 7.5-Minute Topographic Maps; and
- Natural Resources Conservation Service (NRCS) Soil Survey.

Assessments of wetland delineation within the Project site were conducted by RCA Associates, Inc. biologists Randy Arnold, Ryan Hunter and Lisa Cardoso on August 19, 2020 to determine the current conditions. All areas with potential depressions or drainages were evaluated for the presence of jurisdictional waters, including jurisdictional wetlands. Each area was inspected according to the USACE delineation guidelines, streambeds/riparian/wetland boundaries of CDFW and RWQCB, and riparian/riverine areas and vernal pools.

Any drainages encountered were also examined for connectivity or lack of connectivity to other hydrologic features. Dominant vegetation within the drainages or adjacent to the drainages were identified and recorded. Other references used to determine jurisdictional areas included vegetation and topographic maps of the Project site and a recent aerial photograph.

No jurisdictional non-wetland Waters of the U.S. are present on the Project site nor were any jurisdictional riparian waters of the State or streambed waters of the State observed on the site. The small drainage swales on the site were determined to not be within USACE jurisdiction due to the lack of connectivity to adjacent jurisdictional features and the lack of wetlands. All jurisdictional Waters of the U.S. under the jurisdiction of the USACE and RWQCB, Waters of the State under the jurisdiction of CDFW and RWQCB, that are present in the surrounding region will not be directly impacted by the proposed project. To avoid indirect impacts to jurisdictional waters during construction, standard BMPs will be implemented. To prevent direct and indirect impacts to jurisdictional waters post-construction, features to protect water quality such s a storm drain system and a water quality or detention basin will be implemented. Project BMPs are further detailed in the WQMP.

#### 5.5 Protected Plants

Joshua trees were the only protected plants observed on the site and were scattered throughout the property. Due to the presence of Joshua trees on the property, a "protected plant plan" may need to be prepared for the site as per City requirements.

#### 6.0 IMPACTS AND MITIGATION MEASURES

#### 6.1 General Biological Resources

Future development of the site will impact the general biological resources present on the site, and most of the vegetation will likely be removed during future construction activities. Wildlife will also be impacted by development activities and those species with limited mobility (i.e., small mammals and reptiles) will experience increases in mortality during the construction phase. However, more mobile species (i.e., birds, large mammals) will be displaced into adjacent areas and will likely experience minimal impacts. Therefore, loss of about 18-acres of disturbed desert vegetation is not expected to have a significant cumulative impact on the overall biological resources in the region given the presence of similar habitat throughout the surrounding desert region. No sensitive habitats (e.g., wetlands, vernal pools, critical habitats for sensitive species, etc.) were observed on the site during the field investigations.

#### 6.2 Federal and State Listed and Species of Special Concern

No federal or State-listed species were observed on the site during the field investigations including the Mohave ground squirrel and desert tortoise; however, the field investigations were conducted during August when many species are less active due to high temperatures. In addition, there are no documented observations of these species either on the site or in the immediate area. The site is not expected to support populations of the desert tortoise based on the absence of any tortoise sign (e.g., burrows, scats, tracks, etc.), and although suitable habitat is present on site, the probability of the species inhabiting the site is very low.

As per CDFW protocol, the burrowing owl survey results are valid for only 30 days; therefore, CDFW may require a 30-day pre-construction survey be performed prior to any clearing/grading activities to determine if owls have moved on to the site since the August 19, 2020, surveys.

#### 7.0 CONCLUSIONS AND RECOMMENDATIONS

Future development activities are expected to result in the removal of vegetation from the 18-acre parcel; however, cumulative impacts to the general biological resources (plants and animals) in the surrounding area are expected to be negligible. This assumption is based on the presence of habitat on the site which is very common throughout the region. In addition, future development activities are not expected to have any impact on any State or Federal listed or State special status plant or animal species. As discussed above, the site does not support any desert tortoises. In addition, burrowing owls do not inhabit the site and are not expected to be impacted given the absence of any suitable burrows. The following mitigation measures are recommended:

- 1. Pre-construction surveys for burrowing owls, desert tortoise, and nesting birds protected under the Migratory Bird Treaty Act and Section 3503 of the California Fish and Wildlife Code may need to be conducted prior to the commencement of future ground disturbance.
  - a. Appropriate survey methods and timeframes shall be established, to ensure that chances of detecting the target species are maximized. In the event that listed species, such as the desert tortoise, are encountered, authorization from the USFWS and CDFW must be obtained. If nesting birds are detected, avoidance measures shall be implemented to ensure that nests are not disturbed until after young have fledged.
  - b. Pre-construction surveys shall encompass all areas within the potential footprint of disturbance for the project, as well as a reasonable buffer around these areas.
- 2. A Protected Plant Plan shall be developed and shall identify methods, locations, and criteria for transplanting those trees that would be removed during Project construction.
  - a. As required by the California Native Plan Protection Act, Joshua trees proposed for removal shall be transplanted or stockpiled for future transplanting wherever possible.

If any sensitive species are observed on the property during future activities, CDFW and USFWS (as applicable) should be contacted to discuss specific mitigation measures which may be required for the individual species. CDFW and USFWS are the only agencies which can grant authorization for the "take" of any sensitive species and can approve the implementation of any applicable mitigation measures.

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JUNE 2021

#### CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits, presents 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. Fieldwork conducted for this assessment was performed by Randall Arnold and other biologists under his direction. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project applicant or applicant's representative and that I have no financial interest in the project.

Date: <u>6/2</u>	2/2021	_ Signed:	Randall Arno
Field Work	Performed By:		ndall Arnold nd Senior Biologist
Field Work	Performed By:		yan Hunter_ ttal Scientist/Biologist
Field Work	Performed By:		sa Cardoso life Biologist

Appendix A

**Tables and Figures** 

& Regulatory Content

Table 1 - Plants observed on the site and known to occur in the immediate surrounding area.

Common Name	Scientific Name	Location
Joshua tree	Yucca brevifolia	On site and Surrounding Area
Creosote bush	Larrea tridentata	"
Beavertail cactus	Opuntia basilaris	"
California buckwheat	Eriogonum fasciculatum	"
Asian mustard	Brassica tournefortii	"
Red brome	Bromus rubens	66
Wild oat	Avena fatua	cc .
Kelch grass	Schismus barbatus	
Rubber rabbitbrush	Chrysothamnus nauseosus	
Lotebush	Sarcomphalus obtusifolius	ч
Ephedra	Ephedra nevadensis	"
Indian grass	Sorghastrum nutans	"
Broom snakeweed	Gutierrezia sarothrae	"
Fiddleneck	Amsinckia tessellata	
Silver cholla	Cylindropuntia echinocarpa	
Winterfat	Krascheninnikovia lanata	ει.
White bursage	Ambrosia dumosa	<i>د</i> د
Flatspine ragweed	Ambrosia acanthicarpa	cc
Manybristle chinchweed	Pectis papposa "	

Note: The above list is not intended to be a comprehensive list of every plant which may occur on the site or in the zone of influence.

Table 2 - Wildlife observed on the site during the field investigations.

Common Name	Scientific Name	Location
Common raven	Corvus corax	On-site and surrounding area.
California ground squirrel	Spermophilus beecheyi	cc
Cactus wren	Campylorhynchus brunneicapillus	cc
House finch	Carpodacus mexicanus	cc
Greater Roadrunner	Geococcyx californianus	<b>، د</b>
Mourning dove	Zenaida macroura	<b>دد</b>
Horned larks	Eremophila alpestris	On site and surrounding area
Western whiptail lizard	Cnemidophorus tigris	66
Black-chinned sparrow	Spizella atrogularis	66
Desert spiny lizard	Sceloporus magister	64
Antelope ground squirrel	Ammospermophilus leucurus	cc
Desert cottontail	Sylvilagus auduboni	
Jackrabbit	Lepus Californicus	
Coyotes	Canis latrans	
Anna's Hummingbird	Calypte anna	rc .

Note: The above Table is not a comprehensive list of every animal species which may occur in the area, but is a list of those common species which were identified on the site or which have been observed in the region by biologists from RCA Associates, Inc.



RCA ASSOCIATES, INC. SOURCE: GOOGLE EARTH

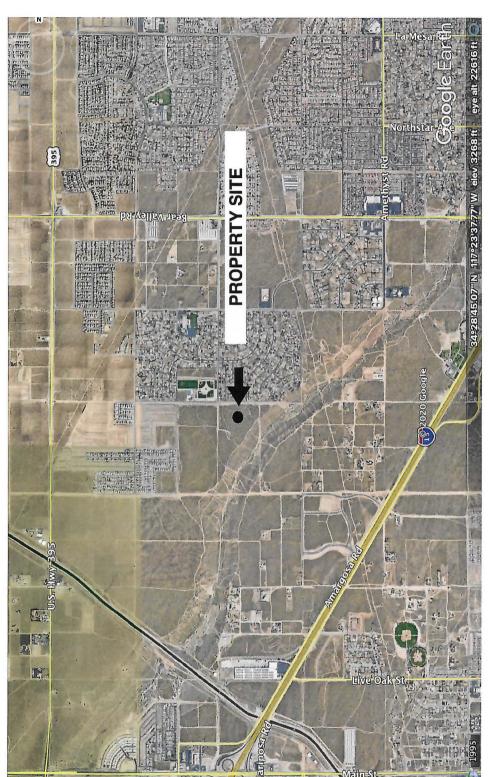


FIGURE 1: REGIONAL EXHIBIT

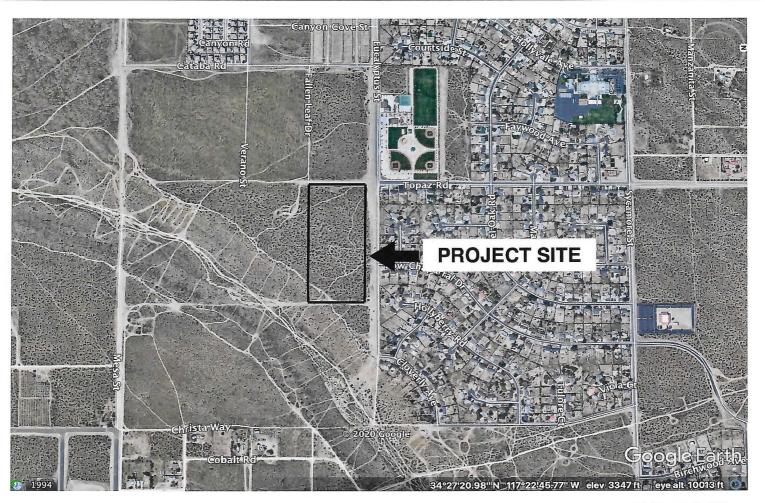
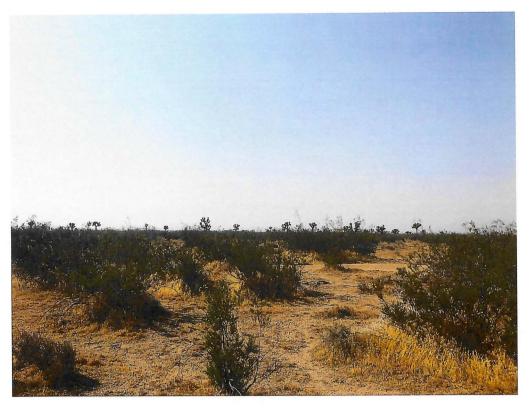


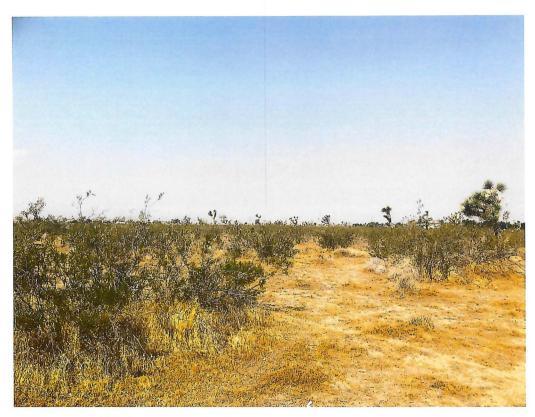
FIGURE 2: VICINITY EXHIBIT

RCA ASSOCIATES, INC. SOURCE: GOOGLE EARTH





CENTER OF SITE LOOKING SOUTH

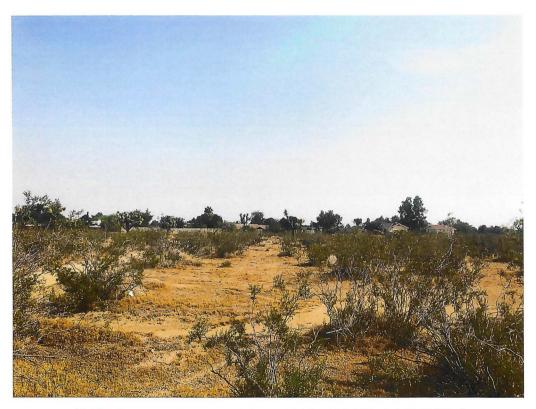


CENTER OF SITE LOOKING WEST

FIGURE 3, cont.
PHOTOGRAPHS OF SITE



CENTER OF SITE LOOKING EAST



CENTER OF SITE LOOKING NORTH

FIGURE 3
PHOTOGRAPHS OF SITE

#### REGULATORY CONTEXT

The following provides a summary of federal and state regulatory jurisdiction over biological and wetland resources. Although most of these regulations do not directly apply to the site, given the general lack of sensitive resource, they provide important background information.

#### Federal Endangered Species Act

The USFWS has jurisdiction over federally listed threatened and endangered plant and animal species. The federal Endangered Species Act (ESA) and its implementing regulations prohibit the take of any fish or wildlife species that is federally listed as threatened or endangered without prior approval pursuant to either Section 7 or Section 10 of the ESA. ESA defines "take" as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Federal regulation 50CFR17.3 defines the term "harass" as an intentional or negligent act that creates the likelihood of injuring wildlife by annoying it to such an extent as to significantly disrupt normal behavior patterns such as breeding, feeding, or sheltering (50CFR17.3). Furthermore, federal regulation 50CFR17.3 defines "harm" as an act that either kills or injures a listed species. By definition, "harm" includes habitat modification or degradation that actually kills or injures a listed species by significantly impairing essential behavior patterns such as breeding, spawning, rearing, migrating, feeding, or sheltering (50CFR217.12).

Section10(a) of the ESA establishes a process for obtaining an incidental take permit that authorizes nonfederal entities to incidentally take federally listed wildlife or fish. Incidental take is defined by ESA as take that is "incidental to, and not the purpose of, the carrying out of another wise lawful activity." Preparation of a habitat conservation plan, generally referred to as an HCP, is required for all Section 10(a) permit applications. The USFWS and National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NOAA Fisheries Service) have joint authority under the ESA for administering the incidental take program. NOAA Fisheries Service has jurisdiction over anadromous fish species and USFWS has jurisdiction over all other fish and wildlife species.

Section 7 of the ESA requires all federal agencies to ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of any species listed under the ESA, or result in the destruction or adverse modification of its habitat. Federal agencies are also required

to minimize impacts to all listed species resulting from their actions, including issuance or permits or funding. Section 7 requires consideration of the indirect effects of a project, effects on federally listed plants, and effects on critical habitat (ESA requires that the USFWS identify critical habitat to the maximum extent that it is prudent and determinable when a species is listed as threatened or endangered). This consultation results in a Biological Opinion prepared by the USFWS stating whether implementation of the HCP will result in jeopardy to any HCP Covered Species or will adversely modify critical habitat and the measures necessary to avoid or minimize effects to listed species.

Although federally listed animals are legally protected from harm no matter where they occur, the Section 9 of the ESA provides protection for endangered plants by prohibiting the malicious destruction on federal land and other "take" that violates State law. Protection for plants not living on federal lands is provided by the California Endangered Species Act.

#### California Endangered Species Act

CDFW has jurisdiction over species listed as threatened or endangered under Section 2080 of the California Fish and Wildlife Code. Section 2080 prohibits the take of a species listed by CDFW as threatened or endangered. The state definition of take is similar to the federal definition, except that Section 2080 does not prohibit indirect harm to listed species by way of habitat modification. To qualify as take under the state ESA, an action must have direct, demonstrable detrimental effect on individuals of the species. Impacts on habitat that may ultimately result in effects on individuals are not considered take under the state ESA but can be considered take under the federal ESA.

Proponents of a project affecting a state-listed species must consult with CDFW and enter into a management agreement and take permit under Section 2081. The state ESA consultation process is similar to the federal process. California ESA does not require preparation of a state biological assessment; the federal biological assessment and the CEQA analysis or any other relevant information can provide the basis for consultation. California ESA requires that CDFW coordinate consultation for joint federally listed and state-listed species to the extent possible; generally, the state opinion for the listed species is brief and references provisions under the federal opinion.

#### Clean Water Act, Section 404

The COE and the U.S. Environmental Protection Agency regulate the placement of dredged or fill material into "Waters of the United States" under Section 404 of the Clean Water Act. Waters of the United States include lakes, rivers, streams, and their tributaries, and wetlands. Wetlands are defined for regulatory purposes as "areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 Code of Federal Regulations [CFR] 328.3, 40 CFR 230.3).

The COE may issue either individual permits on a case-by-case basis or general permits on a program level. General permits are pre-authorized and are issued to cover similar activities that are expected to cause only minimal adverse environmental effects. Nationwide permits (NWP's) are general permits issued to cover particular fill activities. All NWP's have general conditions that must be met for the permits to apply to a particular project, as well as specific conditions that apply to each NWP.

#### Clean Water Act, Section 401

Section 401 of the Clean Water Act requires water quality certification and authorization of placement of dredged or fills material in wetlands and Other Waters of the United States. In accordance with Section 401 of the Clean Water Act, criteria for allowable discharges into surface waters have been developed by the State Water Resources Control Board, Division of Water Quality. As such, proponents of any new project which may impair water quality as a result of the project are required to create a post construction storm water management plan to insure offsite water quality is not degraded. The resulting requirements are used as criteria in granting National Pollution Discharge Elimination System (NPDES) permits or waivers, which are obtained through the Central Valley Regional Water Quality Control Board (RWQCB). Any activity or facility that will discharge waste (such as soils from construction) into surface waters, or from which waste may be discharged, must obtain an NPDES permit or waiver from the RWQCB. The RWQCB evaluates an NPDES permit application to determine whether the proposed discharge is consistent with the adopted water quality objectives of the basin plan.

#### California Fish and Wildlife Code, Sections 1600-1616

Under the California Fish and Wildlife Code, Sections1600-1616 CDFW regulates projects that divert, obstruct, or change the natural flow or bed, channel, or bank of any river, stream, or lake. Proponents of such projects must notify CDFW and enter into streambed alteration agreement with them.

Section 1602 of the California Fish and Wildlife Code requires a state or local government agency, public utility, or private entity to notify CDFW before it begins a construction project that will: (1) divert, obstruct, or change the natural flow or the bed, bank, channel, or bank of any river, stream, or lake; (2) use materials from a streambed; or (3) result in the disposal or deposition of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into any river, stream, or lake. Once the notification is filed and determined to be complete, CDFW issues a streambed alteration agreement that contains conditions for construction and operations of the proposed project.

#### California Fish and Wildlife Code, Section 3503.5

Under the California Fish and Wildlife Code, Section 3503.5, it is unlawful to take, possess, or destroy any birds in the orders Falconiformes (hawks, eagles, and flacons) or Strigiformes (owls). Take would include the disturbance of an active nest resulting in the abandonment or loss of young.

## **Migratory Bird Treaty Act**

The federal Migratory Bird Treaty Act (MBTA) prohibits the taking, hunting, killing, selling, purchasing, etc. of migratory birds, parts of migratory birds, or their eggs and nests. As used in the MBTA, the term "take" is defined as "to pursue, hunt, shoot, capture, collect, kill, or attempt to pursue, hunt, shoot, capture, collect, or kill, unless the context otherwise requires." Most bird species native to North America are covered by this act.

#### **Sensitive Natural Communities**

The California Office of Planning and Research and the Office of Permit Assistance (1986) define project effects that substantially diminish habitat for fish, wildlife, or plants, or that disrupt or divide the physical arrangement of an established community as significant impacts under CEQA.

This definition applies to certain natural communities because of their scarcity and ecological values and because the remaining occurrences are vulnerable to elimination. For this study, the term "sensitive natural community" includes those communities that, if eliminated or substantially degraded, would sustain a significant adverse impact as defined under CEQA. Sensitive natural communities are important ecologically because their degradation and destruction could threaten populations of dependent plant and wildlife species and significantly reduce the regional distribution and viability of the community. If the number and extent of sensitive natural communities continue to diminish, the status of rare, threatened, or endangered species could become more precarious, and populations of common species (i.e., not special status species) could become less viable. Loss of sensitive natural communities also can eliminate or reduce important ecosystem functions, such as water filtration by wetlands and bank stabilization by riparian woodlands for example.

#### **Protected Plants**

The California Desert Native Plant Act was passed in 1981 to protect non-listed California desert native plants from unlawful harvesting on both public and privately-owned lands. Harvest, transport, sale, or possession of specific native desert plants is prohibited unless a person has a valid permit. The following plants are under the protection of the California Desert Native Plants Act:

- Dalea spinosa (smoketree)
- All species of the genus Prosopis (mesquites)
- All species of the family Agavaceae (century plants, nolinas, yuccas)
- All species of Cactus
- Creosote Rings, ten feet in diameter or greater
- All Joshua Trees

The project would be required to comply with the City Desert Native Plant Protection Ordinance and the California Desert Plant Protection Act. The removal of any protected plant species, such as Joshua trees, will require the project applicant to apply for a Tree or Plant Removal Permit prior to removal from the project site.