

Appendix A

General Biological Assessment

**Grand Terrace Assembly and
Light Manufacturing Building
INITIAL STUDY/MITIGATED
NEGATIVE DECLARATION**



**GENERAL BIOLOGICAL ASSESSMENT
FOR
APNs 1167-121-02, 1167-121-03, 1167-121-04,
1167-121-07, a portion of 1167-121-08 and 1167-131-11**

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

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1.0 INTRODUCTION

Hernandez Environmental Services (HES) was retained by EPD Solutions, Inc. to perform a General Biological Assessment (GBA) on a 9.20-acre site comprised of Assessor Parcel Numbers (APNs) 1167-121-02, -03, -04, -07, a portion of 08 & 1167-131-11. The purpose of the GBA is to document the presence/absence of sensitive resources that may be present on the site, to document existing habitats, and generally address biological questions that may be needed for project approval. This GBA will present the results obtained from the May 11, 2022 field survey and will provide recommendations that may be needed to mitigate potential biological impacts from project activities.

1.1 PROJECT LOCATION

The proposed Project site is located at 21801 & 21823 Barton Road in the City of Grand Terrace within San Bernardino County. The proposed project will consist of the redevelopment of six parcels and the construction of an approximately 171,500,000 square foot assembly and light manufacturing building which will encompass 50,723 square feet of assembly, 116,377 square feet of assembly storage, 4,400 square feet of office space, 18 dock doors, and 240 auto parking spaces. Specifically, the project site is located within Section 5, Township 2 South, Range 4 West, San Bernardino Base Meridian (SBBM), on the *San Bernardino South* United States Geological Survey (USGS) 7.5-minute topographic quadrangles. The Project site center point latitude and longitude are 34°01'58.1354" North and 117°19'44.2893" West.

1.2 PROJECT DESCRIPTION

The proposed project will consist of 6 parcels that total approximately 9.20 acres, which includes APNs 1167-121-02, -03, -04, -07, and a portion of -08 and 1167-131-11. The development site encompasses 5 parcels totaling approximately 9.02 acres. The building site is identified by Assessor's Parcel Numbers 1167-121-02, -03, -04, -07, and a portion of 1167-121-08. The eastern portion of the site is developed with three (3) buildings totaling 12,950 square feet. The western portion of the building site is currently vacant with building pads. The site is relatively flat and is partially developed with non-native plant species. The site is currently accessible via one point of access along Barton Road which provides ingress and egress. APN 1167-121-08 is owned by the City of Riverside and runs diagonally through the southeast of the site. A portion of the site will be utilized for parking through a licensing agreement. APN 1167-131-011 is part of the project boundary and lies to the southwest of the proposed site. This parcel is currently vacant with some shrubbery sprinkled throughout the site. It contains utility posts along the south side of the property line to De berry street. A portion of this parcel will be disturbed and utilized for off-site improvements.

The project site will be accessed via an existing driveway along Barton Rd. This driveway will be expanded to be roughly 70ft wide and is located to the north of the proposed building. A

second 30ft driveway is proposed for emergency vehicle access only along the eastern portion of the site that will be gated. Construction activities for the Project would occur over one phase and include demolition, site preparation, grading, building construction, paving, landscaping, and architectural coatings. The project construction completion timeline from start to finish will total approximately 14 months. The proposed project is a speculative industrial building but assumed operations include assembly and light manufacturing. Typical operational characteristics include employees and customers traveling to and from the site, delivery of materials and supplies to the site, truck loading and unloading, and manufacturing activities. It is assumed that no cold storage would be associated with the operation of the building. According to SCAG, the generation rate for employees required for operation of an industrial project is 1 employee for every 1,195 SF of industrial space but to be conservative it is assumed this project would generate approximately 175 employees. The proposed hours of operations are assumed to be 6:00 am to 11:00 pm, but to be conservative all technical studies have assumed 24/7 hours of operations.

The conceptual site plan is provided as Figure 3. (Figure 3, *Project Plans*).

2.0 METHODOLOGY

2.1 LITERATURE REVIEW

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project location and surrounding areas. The following USGS quads were used to query the California Natural Diversity Database (CNDDDB): *San Bernardino South, Fontana, Devore, San Bernardino North, Harrison Mtn, Redlands, Sunnymead, Riverside East, and Riverside West*. The United States Fish and Wildlife Service (USFWS) County Endangered Species Lists, and CNPS's rare plant lists were reviewed to obtain species information for the project area.

2.2 FIELD SURVEY

On May 11, 2022, HES conducted a field survey of the approximate 9.20-acre project site. Ambient temperature at 8:30 AM was 52° Fahrenheit, sunny, with winds ranging from 0 to 1 mile per hour from the southwest. The purpose of the field survey was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding uses, assess the potential for state and federal waters, assess the potential for wildlife movement corridors, and assess for the presence of critical habitat constituent elements.

The entire 9.20-acre project site was surveyed. Linear transects approximately 50 feet apart were walked for 100 percent coverage. All species observed were recorded and Global Positioning System (GPS) way points were taken to delineate specific habitat types, species locations, state or federal waters, or any other information that would be useful for the assessment of the project site. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project site is included in Appendix A. Sensitive plant and wildlife species

with the potential to occur within the project area are listed in Appendix B. Representative site photographs were taken and are included within Appendix C.

3.0 RESULTS

3.1 ENVIRONMENTAL SETTING

The project site is predominantly a flat industrial parcel with warehouse and distribution developments on site and directly adjacent. Parcel 1167-131-11 is approximately 0.18 acre and consists of a disturbed dirt access road. Portions of the access road are covered in gravel and large piles of litter are scattered throughout. The project site is within the Light Industrial (LI) general plan designation and Restricted Manufacturing (MR) zone. The manufacturing, assembly, and light facility use is permitted by right which is consistent with the proposed use and permitted land uses within the general plan and zoning. The project site is bordered by commercial and warehouse developments to the north, east and south, and a disturbed open field to the west. Elevations on the project site range from 951 feet above mean sea level (amsl) to 971 feet amsl.

3.2 SOILS

According to the USDA Web Soil Survey, soils at the project site are classified as Greenfield sandy loam (GtC), 2 to 9 percent slopes and Monserate sandy loam (MoC), 2 to 9 percent slopes (Appendix D).

3.3 HABITAT COMMUNITIES

Two habitat types were observed within the approximately 9.20-acre project site, including 7.71 acres of developed industrial habitat and 1.31 acres of disturbed habitat (Figure 4, *Habitat Map*).

Developed Industrial

Approximately 7.71 acres of areas of disturbed industrial habitat occur within the project site. Disturbed industrial areas are the portions of the project site that were used as industrial and commercial buildings. These areas contain parking lots and warehouse structures.. The dominant vegetation in these areas are ornamental species. These areas have no native vegetative communities.

Disturbed Areas

Approximately 1.31 acres of areas described as disturbed occur within the project site. This habitat appears to be graded or regularly disturbed for weed abatement. Vegetation in these areas is predominantly non-native plant species. The dominant plant species observed within these

areas include redstem filaree (*Erodium cicutarium*), shortpod mustard (*Hirschfeldia incana*), and stinknet (*Oncosiphon pilulifer*).

3.4 THREATENED, ENDANGERED, AND SENSITIVE SPECIES

A total of 55 sensitive species of plants and 65 sensitive species of animals have the potential to occur on or within the vicinity of the project location. These include those species listed or candidates for listing by the U. S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW) and California Native Plant Society (CNPS) and Bureau of Land Management (BLM). All habitats utilized by these species was evaluated during the site visit and a determination has been made for the presence or probability of presence in this report. This section will address those species listed as candidate, rare, threatened, or endangered under the state and federal endangered species laws or directed to be evaluated under other state, county, or municipal regulations. Any other sensitive species with the potential to occur within the vicinity of the project site will also be addressed in this section. Other special status species that do not have the potential to occur on site will be reported in Appendix B. No sensitive plant or wildlife species were found to have the potential to occur on site.

3.4.1 Threatened, Endangered, and Sensitive Plants

A total of 14 plant species listed as state and/or federal Threatened, Endangered, Candidate, or 1B.1 listed plants on the CNPS Rare Plant Inventory. The following is a description of the sensitive species:

San Diego ambrosia

San Diego ambrosia (*Ambrosia pumila*) is listed as federally Endangered and ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes wetlands in chaparral, coastal sage scrub, valley and foothill grassland. It is commonly found in sandy loam or clay soil and sometimes in alkaline soils. This species persists where disturbance has been superficial. It is also sometimes found on margins or near vernal pools. No habitat for this species is present on the project site.

This species is not present.

Marsh sandwort

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

Horn's Milk-Vetch

Horn's milk-vetch (*Astragalus hornii* var. *hornii*) is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in alkali playa, meadow, seep, and wetland habitats. No habitat for this species is present on the project site. **This species is not present.**

Nevin's barberry

Nevin's barberry (*Berberis nevinii*) is a federally and state listed Endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is typically found on steep, north facing slopes or in low grade sandy washes. Its habitat includes chaparral, cismontane woodland, coastal scrub, and riparian scrub. No habitat for this species is present on the project site. **This species is not present.**

Thread-leaved brodiaea

The thread-leaved brodiaea (*Brodiaea filifolia*) is a federally Threatened, state Endangered and a CNPS 1B.1 listed plant. This species is usually associated with annual grassland and vernal pools and is often surrounded by shrubland habitats. Its habitats include chaparral, cismontane woodlands, coastal sage scrub, valley and foothill grasslands, vernal pools and wetland. No habitat for this species is present on the project site. **This species is not present.**

Smooth tarplant

Smooth tarplant (*Centromadia pungens* ssp. *laevis*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, and valley and foothill grasslands. It is commonly found in alkali meadow, alkali scrub, and disturbed habitat. No habitat for this species is present on the project site. **This species is not present.**

Salt marsh bird's-beak

Salt marsh bird's beak (*Chloropyron maritimum* ssp. *maritimum*) is a federally and state listed Endangered species and is ranked 1B.2 in the CNPS rare plant inventory. This species is limited to the higher zones of salt marsh habitat at elevations of less than ten meters. Its habitat includes coastal dunes, marsh and swamp, salt marsh, and wetland. No habitat for this species is present on the project site. **This species is not present.**

Parry's spineflower

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

Slender-horned spineflower

Slender-horned spineflower (*Dodecahema leptoceras*) is a federally and state listed Endangered species and is ranked 1B.1 in the CNPS rare plant inventory. This species is typically found near flood deposited terraces and washes. Its habitat includes chaparral, cismontane woodland, and coastal scrub (alluvial fan sage scrub). No habitat for this species is present on the project site.

This species is not present.

Santa Ana River woollystar

Santa Ana River woollystar (*Eriastrum densifolium ssp. sanctorum*) is a federally and state listed Endangered species and is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in sandy soils on river floodplains or terraced fluvial deposits. Its habitat includes chaparral and coastal scrub. No habitat for this species is present on the project site. **This species is not present.**

Mesa horkelia

Mesa horkelia (*Horkelia cuneate var. puberula*) is ranked 1B.1 in the CNPS rare plant inventory. It is typically found in sandy or gravelly sites. Its habitat includes chaparral, cismontane woodland, and coastal scrub. No habitat for this species is present on the project site. **This species is not present.**

Coulter's goldfields

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

Gambel's water cress

Gambel's water cress (*Nasturtium gambelii*) is federally listed Endangered species, a state listed threatened species, and is ranked 1B.1 in the CNPS rare plant inventory. It is found in freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, and wetland. No marshes or swamps are present on the project site. Only man-made stock ponds are present on the project site. **This species is not present.**

Brand's star phacelia

Brand's star phacelia (*Phacelia stellaris*) is ranked 1B.1 in the CNPS rare plant inventory. Its habitat includes coastal dunes and coastal scrub. No habitat for this species is present on the project site. **This species is not present.**

3.4.2 Threatened, Endangered, and Sensitive Wildlife

A total of 18 wildlife species are listed as state and/or federal Threatened, Endangered, or Candidate species. Sensitive species which have a potential to occur within the vicinity of the project site will also be discussed in this section. All sensitive species within a 5-mile radius of project area were reviewed and a complete list of those species are discussed in Appendix B.

Tricolored blackbird

Tricolored blackbird (*Agelaius tricolor*) is a state listed candidate Endangered species and listed by the CDFW as a species of special concern. Its habitat includes freshwater marsh, marsh and swamp, swamp, and wetland. This species is largely endemic to California and is most numerous in and around Central Valley. This species requires open accessible water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony. There is no habitat for this species on the project site. **This species is not present.**

Burrowing owl

Burrowing owl (*Athene cunicularia*) is a CDFW Species of Special Concern. Its habitat includes coastal prairie, coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, and valley and foothill grassland. This species is typically found in open and dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. It is a subterranean nester and is dependent upon burrowing mammals, most notably the California ground squirrel. The project site is primarily developed, and the disturbed areas contain compacted dirt and gravel. The California ground squirrel (*Otospermophilus beecheyi*) was seen coming out of AC unit onsite that was not deemed a suitable surrogate burrow for burrowing owl. No suitable burrows were identified on the project site and no areas were found suitable to support the burrowing owl. The project site does not contain suitable habitat for this species. **This species is not present.**

Swainson's hawk

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

Santa Ana sucker

Santa Ana sucker (*Catostomus santaanae*) is a federally listed Threatened species. Its habitat includes aquatic and south coast flowing waters. This species prefers sand-rubble-boulder bottoms, cool and clear water, and algae. It is endemic to Los Angeles Basin south coastal

streams. The project site does not contain suitable habitat for this species. **This species is not present.**

Southern rubber boa

Southern-rubber boa (*Charina umbratica*) is a state listed Threatened species. Its habitat includes meadow and seep, riparian forest, riparian woodland, upper montane coniferous forest, and wetland. This species is typically found near streams or wet meadows, and requires loose, moist soil for burrowing. It seeks cover in rotting logs, rock outcrops, and under surface litter. It is known to be found in the San Bernardino and San Jacinto mountains and has been reported to be found in other areas, but further research is required. The project site does not contain suitable habitat for this species. **This species is not present.**

Western yellow-billed cuckoo

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is a federally listed Threatened and state listed Endangered species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with a lower story of blackberry, nettles, or wild grape. It is found in riparian forest habitat. The project site does not contain suitable habitat for this species. **This species is not present.**

San Bernardino kangaroo rat

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

Stephen's kangaroo rat

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

Southwestern willow flycatcher

Southwestern willow flycatcher (*Empidonax traillii extimus*) is a federally and state listed Endangered species. It is found in riparian woodland habitat in southern California. The project site does not contain suitable habitat for this species. **This species is not present.**

Quino checkerspot butterfly

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

Bald eagle

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

California black rail

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

Steelhead-southern California DPS

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

Coastal California gnatcatcher

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

California red-legged frog

California red-legged frog (*Rana draytonii*) is a federally listed Threatened species and a CDFW Species of Special Concern. Its habitat includes aquatic, artificial flowing waters, artificial standing waters, freshwater marsh, marsh and swamp, riparian forest, riparian scrub, riparian woodland, Sacramento and San Joaquin flowing and standing waters, and south coast. It requires 11 to 20 weeks for larval development and must have access to estivation habitat. It is most commonly found in lowlands and foothills, in or near permanent sources of deep water,

with dense, shrubby, or emergent riparian vegetation. The project site does not contain suitable habitat for this species. **This species is not present.**

Southern mountain yellow-legged frog

Southern mountain yellow-legged frog (*Rana muscosa*) is a federally and state listed Endangered species. It is found in aquatic habitat. This species is always encountered within a few feet of water. Tadpoles may require two to four years to complete their aquatic development. The project site does not contain suitable habitat for this species. **This species is not present.**

Delhi Sands flower-loving fly

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

Riverside fairy shrimp

Riverside fairy shrimp (*Streptocephalus woottoni*) is a federally listed Endangered species. This species is found in coastal scrub, valley and foothill grassland, vernal pool, and wetland habitat. This species typically inhabits seasonally astatic pools filled by winter/spring rains. It is endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales, or earth slump basins in grassland and coastal sage scrub habitat. The project site does not contain suitable habitat for this species. **This species is not present.**

Least Bell's vireo

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

3.5 CRITICAL HABITATS

The proposed project site is not located within any designated federal critical habitat.

3.6 NESTING BIRDS

Migratory non-game native bird species are protected under the federal Migratory Bird Treaty Act. Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code

prohibit the take of all birds and their active nests. The entire 9.02-acre study area has shrubs and trees that can be used by nesting songbirds during the nesting bird season of February 1 to September 15.

3.7 WILDLIFE MOVEMENT CORRIDORS

Wildlife movement corridors link together areas of suitable habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbances. The project site was evaluated for its function as a wildlife corridor that species would use to move between wildlife habitat zones. Usually, mountain canyons or riparian corridors are used by wildlife as corridors. The project site is surrounded by industrial areas and does not contain mountain canyons or riparian corridors nearby. Furthermore, the site is blocked off by industrial developments from the north, east and south. No wildlife movement corridors were found to be present on the project site.

3.8 OTHER CITY, COUNTY, REGIONAL, STATE, OR FEDERAL CONSERVATION PLANS

Pursuant to the City of Grand Terrace Municipal Code, the project would be required to comply with Ordinance No. 306 regarding Street and Parkway Tree Permits. The project site does not overlap with any designated or adopted conservation lands.

3.9 STATE AND FEDERAL JURISDICTIONAL STREAMS

The project area does not contain any drainage, riparian, or riverine features. There are no CDFW, USACE, or RWQCB jurisdictional waters within the project boundaries. Also, the project area does not contain any wetlands or vernal pools.

4.0 PROJECT IMPACTS

4.1 IMPACTS TO HABITAT TYPES

The proposed project will impact approximately 9.02 acres of the project site consisting of approximately 1.31 acres of disturbed habitat and 7.71 acres of developed habitat.

4.2 IMPACTS TO STATE OR FEDERALLY LISTED PLANT AND ANIMAL SPECIES OR CNPS LISTED PLANTS

4.2.1 Impacts to State or Federally Listed and CNPS Listed Plants

There are no state or federally listed plants or CNPS listed plants that have the potential to be impacted by the project.

4.2.2 Impacts to State or Federally Listed and Sensitive Wildlife

There are no state or federally listed wildlife that have the potential to be impacted by the project.

4.3 IMPACTS TO CRITICAL HABITAT

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

4.4 IMPACTS TO NESTING BIRDS

The project site contains shrubs and trees that can support nesting songbirds and raptors during the nesting bird season of February 1 through September 15. Implementation of the measures identified in the Recommendations section of this report (Section 5) will ensure that potential impacts to nesting birds are less than significant.

4.5 IMPACTS TO STATE OR FEDERAL STREAMS

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

5.0 RECOMMENDATIONS

Based upon the findings of this report, it is recommended that the following measures be implemented as part of the project to avoid, minimize, or compensate for the anticipated impacts from project activities:

5.1 NESTING BIRDS

If ground disturbing and vegetation clearing activities cannot be avoided during the nesting bird season (February 1 through September 15), a qualified biologist should conduct a pre-

construction nesting bird survey within all areas of breeding/nesting habitat within and adjacent to the project site prior to initiation of project activities that would remove vegetation or otherwise disturb nesting activity (for instance, mobilization of heavy equipment). Surveys should be conducted not more than 3 days prior to initiation of activities.

If nesting birds are encountered, a qualified biologist will establish an avoidance buffer zone around the nest (buffer zones vary according to species involved and shall be determined by the qualified biologist). No activities that would adversely affect the nest shall occur within the buffer zone until the qualified biologist has determined the nest is no longer active and the young are no longer dependent on the nest.

6.0 CERTIFICATION

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



Date 05-02-2023 Signed _____

PROJECT MANAGER

Fieldwork Performed By:

Juan Jose Hernandez
PRINCIPAL BIOLOGIST

7.0 REFERENCES

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FIGURE 1



Figure 1

Location Map

APNs 1167-121-02, -03, -04, -07 & 1167-131-11

City of Grand Terrace, Riverside County, California

Legend



Project Site Boundary



FIGURE 2

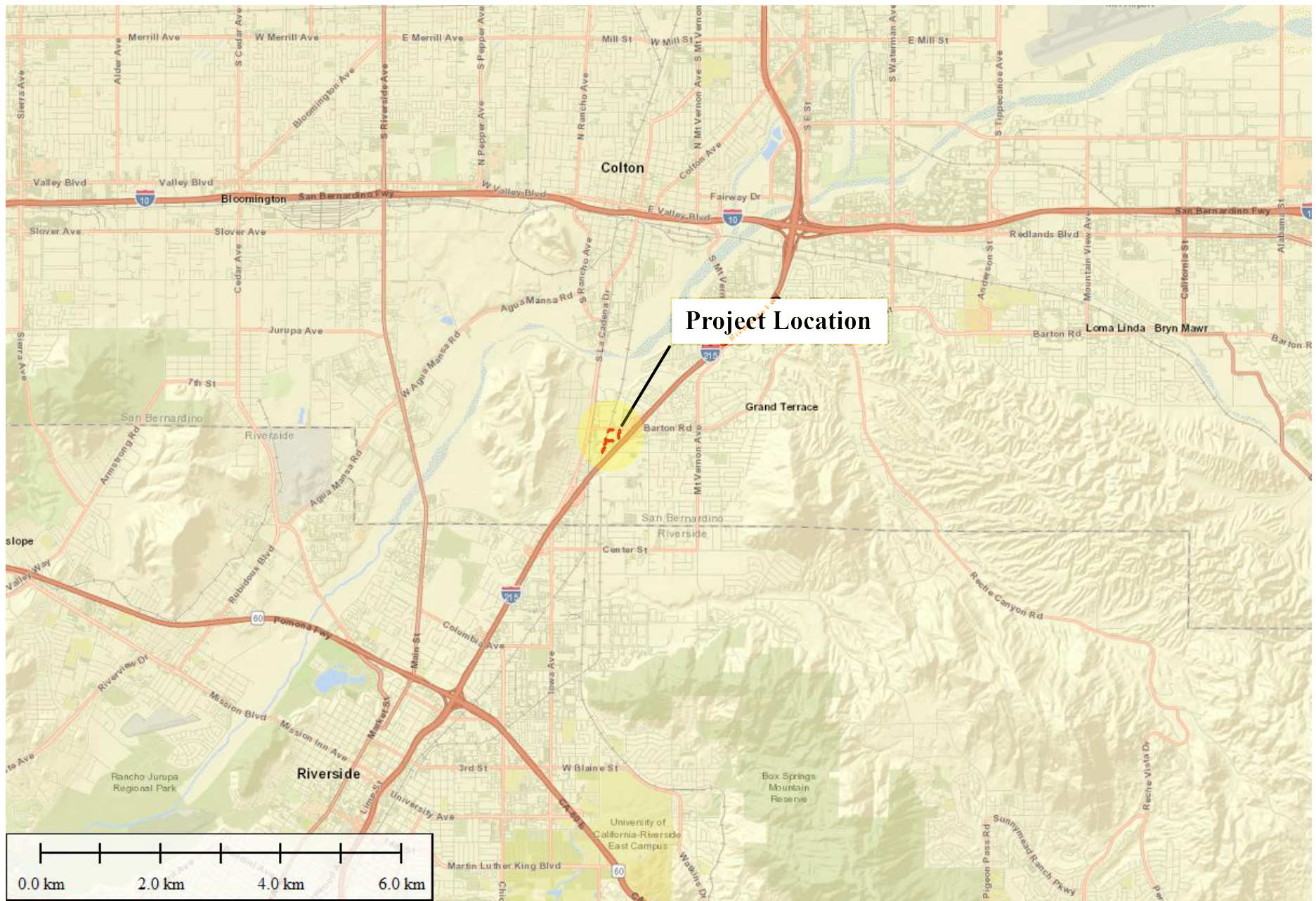


Figure 2

Vicinity Map

APNs 11671-21-02, -03, -04, -07 & 1167-131-11

City of Grand Terrace, Riverside County, California

Legend

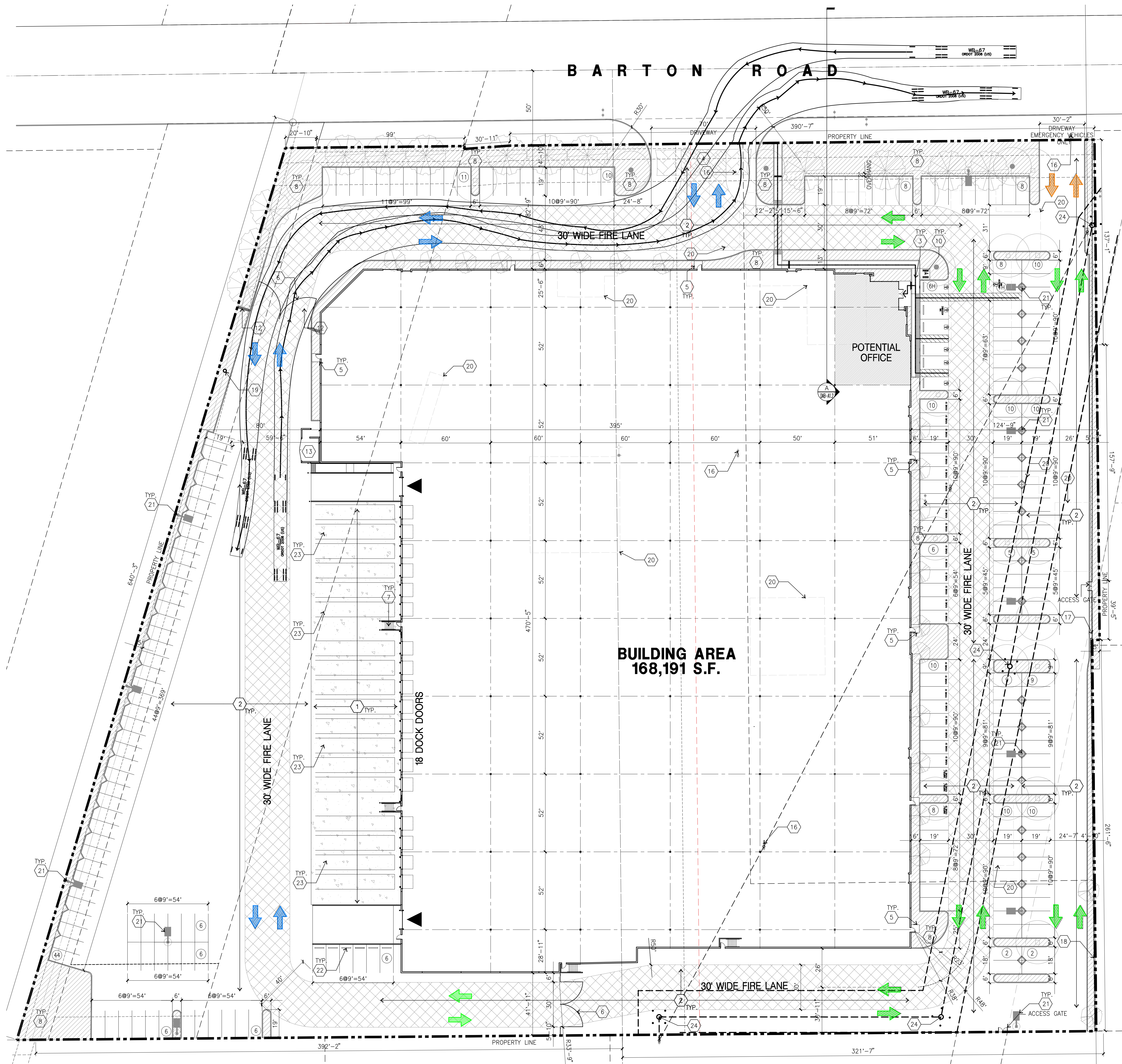


Project Site Boundary



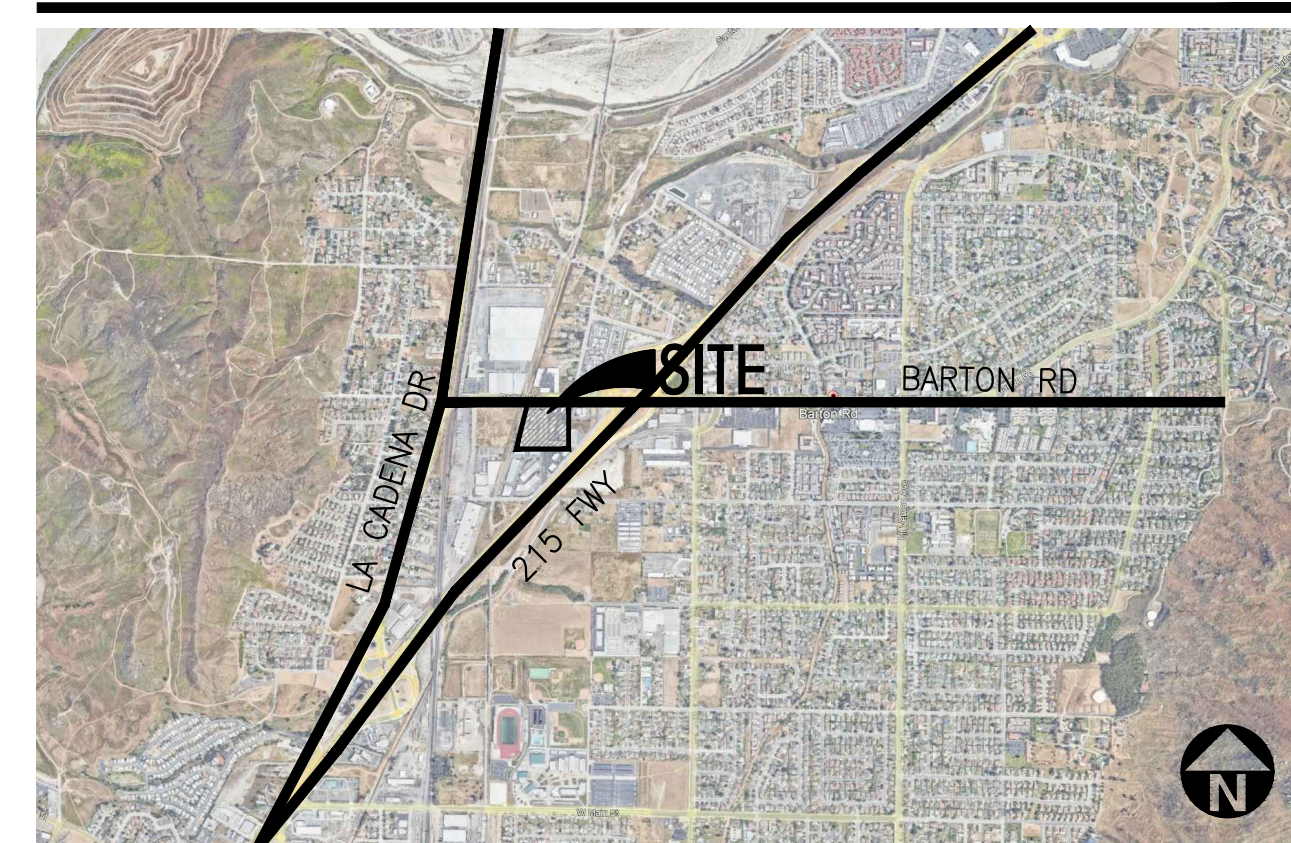
Hernandez
Environmental
Services

FIGURE 3



OVERALL SITE PLAN
scale: 1"=30'-0"

VICINITY MAP



PROJECT INFORMATION

Project Address
21801 & 21823 BARTON RD.
GRAND TERRACE, CA 92313

Owner/ Applicant

HINES REAL ESTATE
4000 MCARTHUR BLVD. #100
NEWPORT BEACH, CA 92660
PHONE: (949) 863-2155
FAX: (949) 863-0851

Applicant's Representatives

Hines, Inc.
18831 BARDEEN AVE. - STE #100
IRVINE, CA 92612
CONTACT DOUG HINRICH
PHONE: (949) 863-2155
FAX: (949) 863-0851

Utility Information

WATER:
RIVERSIDE HIGHLAND WATER COMPANY
12374 MICHIGAN STREET
GRAND TERRACE, CA 92313
PHONE: 909-825-4128

SEWER:
CITY OF COLTON (OPERATOR & MAINTAINED)
160 S 10TH STREET
COLTON, CA 92324
PHONE: 909-370-5551

CABLE

CHARTER COMMUNICATIONS
7337 CENTRAL AVENUE
RIVERSIDE, CA 92504
PHONE: 951-406-1627

Assessors Parcel Number

1167-121-02
1167-121-03
1167-121-04
1167-121-07

Zoning

GENERAL PLAN DESIGNATION:
MR - RESTRICTED MANUFACTURING

PROJECT DATA

SITE AREA	
In s.f.	375,871 s.f.
In acres	8.63 ac
BUILDING AREA	
Assembly	50,457 s.f.
Office - 2nd floor	5,000 s.f.
Assembly Storage	112,734 s.f.
TOTAL	168,191 s.f.
COVERAGE	
AUTO PARKING REQUIRED	
Office : @ 1/200 s.f.	25 stalls
Assembly : @ 1/500 s.f.	101 stalls
Assembly Storage : @ 1/01,000 s.f.	113 stalls
TOTAL	239 stalls
AUTO PARKING PROVIDED	
Standard (9' x 19')	204 stalls
Van Accessible (12' x 19')	2 stalls
Standard Accessible (9' x 19')	5 stalls
Future EV (9' x 19') 10% of total	24 stalls
Future EV/Clean Air (9' x 19') 12% of total	5 stalls
TOTAL	240 stalls
TRAILER PARKING PROVIDED	
Trailer (10'x53')	- stalls
ZONING ORDINANCE FOR COUNTY	
General Commercial	
BUILDING HEIGHT ALLOWED	
Minimum Height - 35'	
MAXIMUM LOT COVERAGE	
Coverage - 100%	
LANDSCAPE PROVIDED	
Percentage -	6.7%
In s.f.	25,305 s.f.
LANDSCAPE REQUIRED	
Percentage -	5%
SETBACKS	
Front/Street - 25',	Parking/Landscape - 10'
Interior Side - 0', adjacent to R zone - 25'	
Rear - 0', adjacent to R zone - 25'	

KEYNOTES - SITE PLAN

- 1 HEAVY BROOM FINISH CONCRETE PAVING.
- 2 PORTLAND CEMENT CONCRETE (PCC) PAVING.
- 3 CONCRETE WALKWAY, MEDIUM BROOM FINISH.
- 4 DECORATIVE SCORED CONCRETE DRIVEWAY APRONS TO BE CONSTRUCTED PER "L" DRAWINGS.
- 5 5'-6" X 5'-6" MIN. THICK CONCRETE EXTERIOR LANDING PAD TYP. AT ALL EXTERIOR MAN DOORS TO LANDSCAPED AREAS. FINISH TO BE MEDIUM BROOM FINISH. SLOPE TO BE 1/4" - 1/2" MAX. PROVIDE WALK TO PUBLIC WAY OR DRIVE WAY W/ 1:20 MAX. AS REQ. BY CITY INSPECTOR.
- 6 8' W PROVIDE METAL, MANUAL OPERATED GATES W/ KNOX-PAD LOCK PER FIRE DEPARTMENT STANDARDS PER DRIVEWAY.
- 7 EXTERIOR CONCRETE STAIR.
- 8 LANDSCAPE. SEE "L" DWGS.
- 9 ROOFTOP HVAC UNITS AND/OR GENERATORS TO BE ADEQUATELY VISUALLY SCREENED FROM PUBLIC VIEW.
- 10 (2) 6 BIKE RACK TO BE PROVIDED - 12 TOTAL.
- 11 APPROXIMATE LOCATION OF TRANSFORMER. ADEQUATELY SCREEN FROM PUBLIC VIEW.
- 12 8' H CONCRETE SCREEN WALL.
- 13 TRASH ENCLOSURE. SEE DETAIL B/DAB-A4.1.
- 14 SMOKING AREA.
- 15 42" H GUARD WALL.
- 16 LOCATION OF EXISTING POWER POLE
- 17 8' HIGH TUBULAR STEEL FENCE
- 18 8' HIGH FENCE WITH GREEN VINES
- 19 PROPOSED LOCATION OF POWER POLES
- 20 EXISTING BUILDING TO BE DEMOLISHED
- 21 PROPOSED LOCATION OF LIGHT POLES
- 22 CONCRETE WHEEL STOPS
- 23 53' X 10' LOADING SPACES AT ALL DOCK DOORS
- 24 PROPOSED POWER POLE LOCATION WITH BOLLARDS

SITE LEGEND

	HEAVY BROOM FINISH CONCRETE PAVING.		LANDSCAPED AREA
	PORTLAND CEMENT CONCRETE (PCC) PAVING.		PATH OF TRAVEL
	STANDARD PARKING STALL (9' X 19')		PROPERTY LINE
	ACCESSIBLE PARKING STALL (9' X 19') + 5' W ACCESSIBLE AISLE		30' WIDE FIRE LANE
	ACCESSIBLE PARKING (VAN) STALL (12' X 19') + 5' W ACCESSIBLE AISLE		TRUCKS & AUTOS
			TRUCKS ONLY
			AUTOS ONLY
			EMERGENCY VEHICLES ONLY



hpa, inc.
18831 bardeen avenue, - ste. #100
irvine, ca
92612
tel: 949-863-1770
fax: 949-863-0851
email: hpa@hparchs.com

Owner:

Hines

4000 MacArthur Blvd. #110
Newport Beach, CA 92660
Tel: 949-313-2200

Project:

**BARTON ROAD
INDUSTRIAL
DEVELOPMENT**

21831 Barton Rd.
Grand Terrace, CA 92313

Consultants:

Civil: KIER & WRIGHT
Structural: -
Mechanical: -
Plumbing: -
Electrical: -
Landscape: HUNTER LANDSCAPE
Fire Protection: -
Soils Engineer: -

Title: Overall Site Plan

Project Number: 22007
Drawn by: DH
Date: 06/8/2022
Revision: -

Sheet:

DAB-A1.1

FIGURE 4



Figure 4

Habitat Map

APNs 1167-121-02, -03, -04, -07 & 1167-131-11

City of Grand Terrace, Riverside County, California

Legend



Project Site Boundary



Developed Industrial (7.61 Acre)



Disturbed (1.31 Acre)



Hernandez
Environmental
Services

FIGURE 5

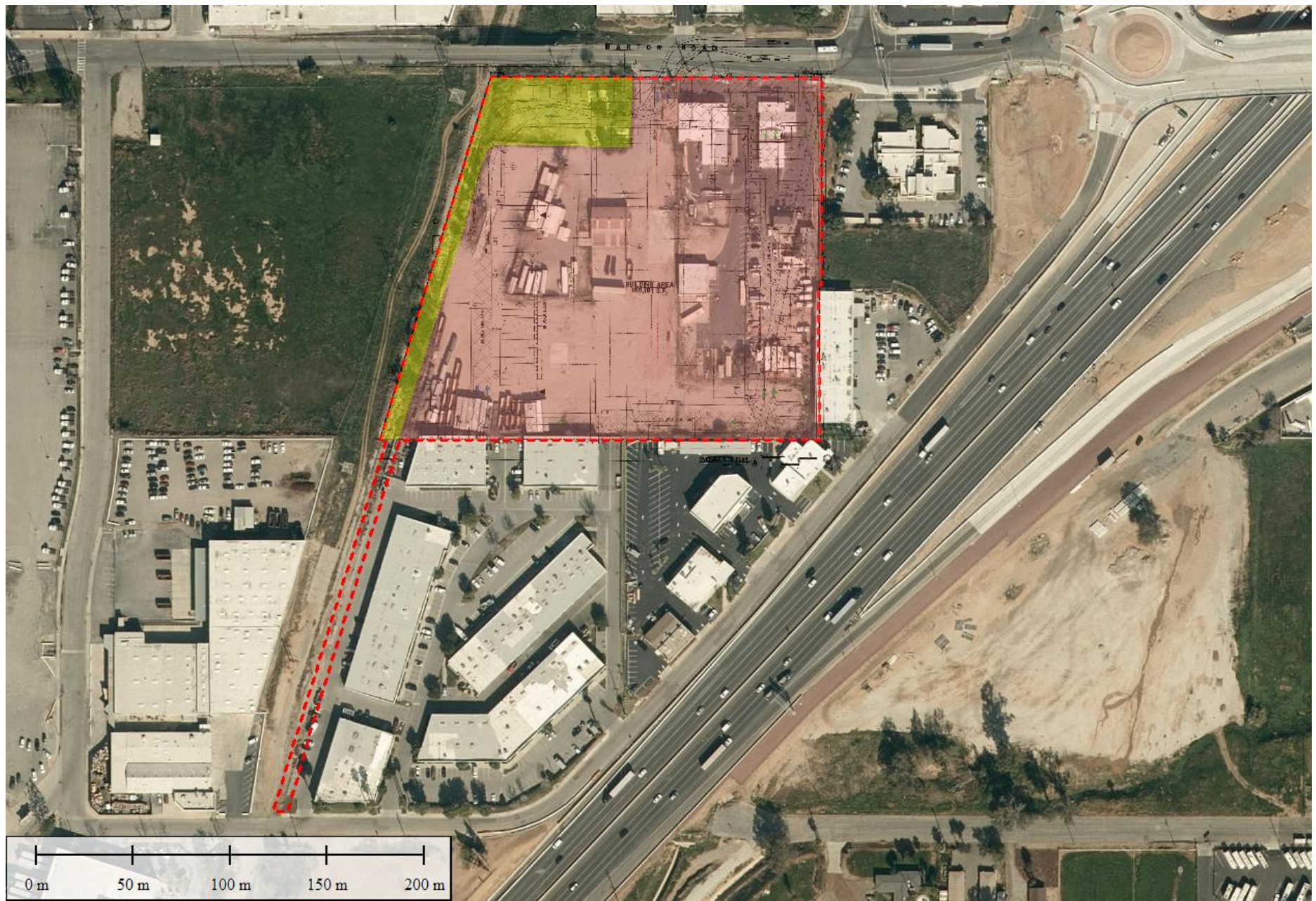





Figure 5

Impacts Map

APNs 116-712-102, -103, -104, -107 & 116-713-111
City of Grand Terrace, Riverside County, California

Legend

-  Project Site Boundary
-  Impacts to Developed Industrial (7.61 Acre)
-  Impacts to Disturbed (1.02 Acre)



APPENDIX A

Observed Species List

Plant List

Scientific Name	Common Name
<i>Ailanthus altissima</i>	Tree of heaven
<i>Avena</i> sp.	Oat sp.
<i>Baccharis salicifolia</i>	Mule fat
<i>Bidens pilosa</i>	Hairy beggarticks
<i>Bougainvillea glabra</i>	Paper flower
<i>Buxus sempervirens</i>	Common boxwood
<i>Carduus pycnocephalus</i>	Italian thistle
<i>Centaurea melitensis</i>	Maltese star-thistle
<i>Crassula ovata</i>	Jade plant
<i>Cupaniopsis anacardioides</i>	Carrotwood
<i>Encelia farinosa</i>	Brittlebush
<i>Erodium cicutarium</i>	Redstem filaree
<i>Eschscholzia californica</i>	California poppy
<i>Euphorbia polycarpa</i>	Smallseed sandmat
<i>Hirschfeldia incana</i>	Shortpod mustard
<i>Melilotus indicus</i>	Annual yellow sweetclover
<i>Nicotiana glauca</i>	Tree tobacco
<i>Oncosiphon pilulifer</i>	Stinknet
<i>Pinus</i> sp.	Pine sp.
<i>Portulacaria afra</i>	Elephant bush
<i>Sisymbrium irio</i>	London rocket
<i>Verbesina encelioides</i>	Golden crownbeard

Washingtonia robusta

Mexican fan palm



Wildlife List

Scientific Name

Aphelocoma californica

Corvus brachyrhynchos

Otospermophilus beecheyi

Sylvilagus audubonii

Common Name

Scrub jay

American Crow

California ground squirrel

Desert cottontail

APPENDIX B

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Allium howellii</i> var. <i>clokeyi</i>	Mt. Pinos onion	Monocots	None	None	1B.3	Great Basin scrub Meadow & seep Pinon & juniper woodlands	Great Basin scrub, pinyon and juniper woodland, meadows and seeps (edges).	1385-1800 m.	No suitable habitat is present in the study area. This species is not present.
<i>Ambrosia monogyra</i>	singlewhorl burrobrush	Dicots	None	None	2B.2	Chaparral Sonoran desert scrub	Chaparral, Sonoran desert scrub.	Sandy soils. 5-475 m.	No suitable habitat is present in the study area. This species is not present.

Ambrosia pumila	San Diego ambrosia	Dicots	Endangered	None	1B.1	Chaparral Coastal scrub Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	Sandy loam or clay soil; sometimes alkaline. In valleys; persists where disturbance has been superficial. Sometimes on margins or near vernal pools. 3-580 m.	No suitable habitat is present in the study area. This species is not present.
Arenaria paludicola	marsh sandwort	Dicots	Endangered	Endangered	1B.1	Freshwater marsh Marsh & swamp Wetland	Marshes and swamps.	Growing up through dense mats of Typha, Juncus, Scirpus, etc. in freshwater marsh. Sandy soil. 3-170 m.	No suitable habitat is present in the study area. This species is not present.
Astragalus hornii var. hornii	Horn's milk-vetch	Dicots	None	None	1B.1	Alkali playa Meadow & seep Wetland	Meadows and seeps, playas.	Lake margins, alkaline sites. 75-350 m.	No suitable habitat is present in the study area. This species is not present.

Berberis nevinii	Nevin's barberry	Dicots	Endangered	Endangere d	1B.1	Chaparral Cismontane woodland Coastal scrub Riparian scrub	Chaparral, cismontane woodland, coastal scrub, riparian scrub.	On steep, N- facing slopes or in low grade sandy washes. 90-1590 m.	No suitable habitat is present in the study area. This species is not present.
Brodiaea filifolia	thread-leaved brodiaea	Monocots	Threatened	Endangere d	1B.1	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland	Chaparral (openings), cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools.	Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Occurs in openings on clay soils. 15- 1030 m.	No suitable habitat is present in the study area. This species is not present.
Calochortus palmeri var. palmeri	Palmer's mariposa-lily	Monocots	None	None	1B.2	Chaparral Lower montane coniferous forest Meadow & seep	Meadows and seeps, chaparral, lower montane coniferous forest.	Vernally moist places in yellow-pine forest, chaparral. 195- 2530 m.	No suitable habitat is present in the study area. This species is not present.

Calochortus plummerae	Plummer's mariposa-lily	Monocots	None	None	4.2	Chaparral Cismontane woodland Coastal scrub Lower montane coniferous forest Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	No suitable habitat is present in the study area. This species is not present.
Carex comosa	bristly sedge	Monocots	None	None	2B.1	Coastal prairie Freshwater marsh Marsh & swamp Valley & foothill grassland Wetland	Marshes and swamps, coastal prairie, valley and foothill grassland.	Lake margins, wet places; site below sea level is on a Delta island. -5-1010 m.	No suitable habitat is present in the study area. This species is not present.
Castilleja lasiorhyncha	San Bernardino Mountains owl's-clover	Dicots	None	None	1B.2	Chaparral Meadow & seep Pavement plain Riparian woodland Upper montane coniferous forest Wetland	Meadows and seeps, pebble plain, upper montane coniferous forest, chaparral, riparian woodland.	Mesic to drying soils in open areas of stream and meadow margins or in vernal wet areas. 1140-2320 m.	No suitable habitat is present in the study area. This species is not present.

Centromadia pungens ssp. laevis	smooth tarplant	Dicots	None	None	1B.1	Alkali playa Chenopod scrub Meadow & seep Riparian woodland Valley & foothill grassland Wetland	Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland.	Alkali meadow, alkali scrub; also in disturbed places. 5-1170 m.	No suitable habitat is present in the study area. This species is not present.
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Dicots	Endangered	Endangere d	1B.2	Coastal dunes Marsh & swamp Salt marsh Wetland	Marshes and swamps, coastal dunes.	Limited to the higher zones of salt marsh habitat. 0-10 m.	No suitable habitat is present in the study area. This species is not present.
Chorizanthe parryi var. parryi	Parry's spineflower	Dicots	None	None	1B.1	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland	Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m.	No suitable habitat is present in the study area. This species is not present.

Chorizanthe xanti var. leucotheca	white-bracted spineflower	Dicots	None	None	1B.2	Coastal scrub Mojavean desert scrub Pinon & juniper woodlands	Mojavean desert scrub, pinyon and juniper woodland, coastal scrub (alluvial fans).	Sandy or gravelly places. 365-1830 m.	No suitable habitat is present in the study area. This species is not present.
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Dicots	None	None	2B.2	Marsh & swamp Wetland	Marshes and swamps (freshwater).	Freshwater marsh. 15-280 m.	No suitable habitat is present in the study area. This species is not present.
Dodecahema leptoceras	slender-horned spineflower	Dicots	Endangered	Endangered	1B.1	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	No suitable habitat is present in the study area. This species is not present.

Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Dicots	Endangered	Endangered	1B.1	Chaparral Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180-705 m.	No suitable habitat is present in the study area. This species is not present.
Fimbristylis thermalis	hot springs fimbristylis	Monocots	None	None	2B.2	Meadow & seep Wetland	Meadows and seeps (alkaline).	Near hot springs. 115-1585 m.	No suitable habitat is present in the study area. This species is not present.
Galium californicum ssp. primum	Alvin Meadow bedstraw	Dicots	None	None	1B.2	Chaparral Lower montane coniferous forest	Chaparral, lower montane coniferous forest.	Grows in shade of trees and shrubs at the lower edge of the pine belt, in pine forest-chaparral ecotone. Granitic, sandy soils. 1460-1830 m.	No suitable habitat is present in the study area. This species is not present.

Helianthus nuttallii ssp. parishii	Los Angeles sunflower	Dicots	None	None	1A	Freshwater marsh Marsh & swamp Salt marsh Wetland	Marshes and swamps (coastal salt and freshwater).	35-1525 m.	No suitable habitat is present in the study area. This species is not present.
Heuchera parishii	Parish's alumroot	Dicots	None	None	1B.3	Alpine boulder & rock field Limestone Lower montane coniferous forest Subalpine coniferous forest Upper montane coniferous forest	Lower montane coniferous forest, subalpine coniferous forest, upper montane coniferous forest, alpine boulder and rock field.	Rocky places. Sometimes on carbonate. 1340-3505 m.	No suitable habitat is present in the study area. This species is not present.
Horkelia cuneata var. puberula	mesa horkelia	Dicots	None	None	1B.1	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	No suitable habitat is present in the study area. This species is not present.

Imperata brevifolia	California satintail	Monocots	None	None	2B.1	Chaparral Coastal scrub Meadow & seep Mojavean desert scrub Riparian scrub Wetland	Coastal scrub, chaparral, riparian scrub, mojavean desert scrub, meadows and seeps (alkali), riparian scrub.	Mesic sites, alkali seeps, riparian areas. 3-1495 m.	No suitable habitat is present in the study area. This species is not present.
Ivesia argyrocoma var. argyrocoma	silver-haired ivesia	Dicots	None	None	1B.2	Meadow & seep Pavement plain Upper montane coniferous forest	Meadows and seeps, pebble plains, upper montane coniferous forest.	In pebble plains and meadows with other rare plants. 1490- 2960 m.	No suitable habitat is present in the study area. This species is not present.
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Dicots	None	None	1B.1	Alkali playa Marsh & swamp Salt marsh Vernal pool Wetland	Coastal salt marshes, playas, vernal pools.	Usually found on alkaline soils in playas, sinks, and grasslands. 1- 1375 m.	No suitable habitat is present in the study area. This species is not present.

Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	None	None	4.3	Chaparral Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4-1435 m.	No suitable habitat is present in the study area. This species is not present.
Lilium parryi	lemon lily	Monocots	None	None	1B.2	Lower montane coniferous forest Meadow & seep Riparian forest Upper montane coniferous forest Wetland	Lower montane coniferous forest, meadows and seeps, riparian forest, upper montane coniferous forest.	Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows and seeps. 625-2930 m.	No suitable habitat is present in the study area. This species is not present.
Lycium parishii	Parish's desert-thorn	Dicots	None	None	2B.3	Coastal scrub Sonoran desert scrub	Coastal scrub, Sonoran desert scrub.	-3-570 m.	No suitable habitat is present in the study area. This species is not present.

Malacothamnus parishii	Parish's bush-mallow	Dicots	None	None	1A	Chaparral Coastal scrub	Chaparral, coastal sage scrub.	In a wash. 305-455 m.	No suitable habitat is present in the study area. This species is not present.
Monardella macrantha ssp. hallii	Hall's monardella	Dicots	None	None	1B.3	Broadleaved upland forest Chaparral Cismontane woodland Lower montane coniferous forest Valley & foothill grassland	Broadleaved upland forest, chaparral, lower montane coniferous forest, cismontane woodland, valley and foothill grassland.	Dry slopes and ridges in openings. 700-1800 m.	No suitable habitat is present in the study area. This species is not present.
Monardella pringlei	Pringle's monardella	Dicots	None	None	1A	Coastal scrub	Coastal scrub.	Sandy hills. 300-400 m.	No suitable habitat is present in the study area. This species is not present.

Nasturtium gambelii	Gambel's water cress	Dicots	Endangered	Threatened	1B.1	Brackish marsh Freshwater marsh Marsh & swamp Wetland	Marshes and swamps.	Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5-305 m.	No suitable habitat is present in the study area. This species is not present.
Opuntia basilaris var. brachyclada	short-joint beavertail	Dicots	None	None	1B.2	Chaparral Joshua tree woodland Mojavean desert scrub Pinon & juniper woodlands	Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Sandy soil or coarse, granitic loam. 425-2015 m.	No suitable habitat is present in the study area. This species is not present.
Perideridia parishii ssp. parishii	Parish's yampah	Dicots	None	None	2B.2	Lower montane coniferous forest Meadow & seep Upper montane coniferous forest	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest.	Damp meadows or along streambeds- prefers an open pine canopy. 1470-2530 m.	No suitable habitat is present in the study area. This species is not present.

Phacelia stellaris	Brand's star phacelia	Dicots	None	None	1B.1	Coastal dunes Coastal scrub	Coastal scrub, coastal dunes.	Open areas. 3-370 m.	No suitable habitat is present in the study area. This species is not present.
Ribes divaricatum var. parishii	Parish's gooseberry	Dicots	None	None	1A	Riparian woodland	Riparian woodland.	Salix swales in riparian habitats. 65-300 m.	No suitable habitat is present in the study area. This species is not present.
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	None	None		Coastal scrub			No suitable habitat is present in the study area. This species is not present.

Schoenus nigricans	black bog-rush	Monocots	None	None	2B.2	Marsh & swamp Wetland	Marshes and swamps.	Often in alkaline marshes. 120-1525 m.	No suitable habitat is present in the study area. This species is not present.
Senecio aphanactis	chaparral ragwort	Dicots	None	None	2B.2	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Drying alkaline flats. 20-1020 m.	No suitable habitat is present in the study area. This species is not present.
Sidalcea malviflora ssp. dolosa	Bear Valley checkerbloom	Dicots	None	None	1B.2	Lower montane coniferous forest Meadow & seep Riparian woodland Upper montane coniferous forest Wetland	Meadows and seeps, riparian woodland, lower montane coniferous forest, upper montane coniferous forest.	Known from wet areas within forested habitats. Affected by hydrological changes. 1575-2590 m.	No suitable habitat is present in the study area. This species is not present.

Sidalcea neomexicana	salt spring checkerbloom	Dicots	None	None	2B.2	Alkali playa Chaparral Coastal scrub Lower montane coniferous forest Mojavean desert scrub Wetland	Playas, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.	Alkali springs and marshes. 3-2380 m.	No suitable habitat is present in the study area. This species is not present.
Southern California Arroyo Chub/Santa Ana Sucker Stream	Southern California Arroyo Chub/Santa Ana Sucker Stream	Inland Waters	None	None					No suitable habitat is present in the study area. This species is not present.
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	None	None		Riparian forest			This is not present.
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	None	None		Riparian forest			This is not present.
Southern Mixed Riparian Forest	Southern Mixed Riparian Forest	Riparian	None	None		Riparian forest			This is not present.

Southern Riparian Forest	Southern Riparian Forest	Riparian	None	None		Riparian forest			This is not present.
Southern Riparian Scrub	Southern Riparian Scrub	Riparian	None	None		Riparian scrub			This is not present.
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	None	None		Riparian woodland			This is not present.
Southern Willow Scrub	Southern Willow Scrub	Riparian	None	None		Riparian scrub			This is not present.
Sphenopholis obtusata	prairie wedge grass	Monocots	None	None	2B.2	Cismontane woodland Meadow & seep Wetland	Cismontane woodland, meadows and seeps.	Open moist sites, along rivers and springs, alkaline desert seeps. 15-2625 m.	No suitable habitat is present in the study area. This species is not present.
Streptanthus bernardinus	Laguna Mountains jewelflower	Dicots	None	None	4.3	Chaparral Lower montane coniferous forest Upper montane coniferous forest	Chaparral, lower montane coniferous forest.	Clay or decomposed granite soils; sometimes in disturbed areas such as streamsid es or roadcuts. 1440-2500 m.	No suitable habitat is present in the study area. This species is not present.

Streptanthus campestris	southern jewelflower	Dicots	None	None	1B.3	Chaparral Lower montane coniferous forest Pinon & juniper woodlands	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.	Open, rocky areas. 605-2590 m.	No suitable habitat is present in the study area. This species is not present.
Symphytotrichum defoliatum	San Bernardino aster	Dicots	None	None	1B.2	Cismontane woodland Coastal scrub Lower montane coniferous forest Marsh & swamp Meadow & seep Valley & foothill grassland	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland.	Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 3-2045 m.	No suitable habitat is present in the study area. This species is not present.
Thelypteris puberula var. sonorensis	Sonoran maiden fern	Ferns	None	None	2B.2	Meadow & seep Wetland	Meadows and seeps.	Along streams, seepage areas. 60-930 m.	No suitable habitat is present in the study area. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Accipiter cooperii	Cooper's hawk	Birds	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Cismontane woodland Riparian forest Riparian woodland Upper montane coniferous forest	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	No suitable habitat is present in the study area. This species is not present.

Agelaius tricolor	tricolored blackbird	Birds	None	Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	Freshwater marsh Marsh & swamp Swamp Wetland	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	No suitable habitat is present in the study area. This species is not present.
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	None	None	CDFW_WL-Watch List	Chaparral Coastal scrub	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass and forb patches.	No suitable habitat is present in the study area. This species is not present.

Anniella stebbinsi	Southern California legless lizard	Reptiles	None	None	CDFW_SSC- Species of Special Concern USFS_S- Sensitive	Broadleaved upland forest Chaparral Coastal dunes Coastal scrub	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.	Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	No suitable habitat is present in the study area. This species is not present.
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Antrozous pallidus	pallid bat	Mammals	None	None	BLM_S- Sensitive CDFW_SSC- Species of Special Concern IUCN_LC-Least Concern USFS_S- Sensitive WBWG_H- High Priority	Chaparral Coastal scrub Desert wash Great Basin grassland Great Basin scrub Mojavean desert scrub Riparian woodland Sonoran desert scrub Upper montane coniferous forest Valley & foothill grassland	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting.	Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	No suitable habitat is present in the study area. This species is not present.
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Arizona elegans occidentalis	California glossy snake	Reptiles	None	None	CDFW_SSC- Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	No suitable habitat is present in the study area. This species is not present.
Artemisiospiza belli belli	Bell's sage sparrow	Birds	None	None	CDFW_WL- Watch List	Chaparral Coastal scrub	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	No suitable habitat is present in the study area. This species is not present.

Aspidoscelis hyperythra	orange-throated whiptail	Reptiles	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern USFS_S-Sensitive	Chaparral Cismontane woodland Coastal scrub	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	No suitable habitat is present in the study area. This species is not present.
Aspidoscelis tigris stejnegeri	coastal whiptail	Reptiles	None	None	CDFW_SSC-Species of Special Concern		Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland and riparian areas.	Ground may be firm soil, sandy, or rocky.	No suitable habitat is present in the study area. This species is not present.

Athene cunicularia	burrowing owl	Birds	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Coastal prairie Coastal scrub Great Basin grassland Great Basin scrub Mojavean desert scrub Sonoran desert scrub Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	No suitable habitat is present in the study area. This species is not present.
Batrachoseps gabrieli	San Gabriel slender salamander	Amphibians	None	None	IUCN_DD-Data Deficient USFS_S-Sensitive	Talus slope	Known only from the San Gabriel Mtns. Found under rocks, wood, and fern fronds, and on soil at the base of talus slopes.	Most active on the surface in winter and early spring.	No suitable habitat is present in the study area. This species is not present.

Bombus crotchii	Crotch bumble bee	Insects	None	None			Coastal California east to the Sierra-Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	No suitable habitat is present in the study area. This species is not present.
Bombus morrisoni	Morrison bumble bee	Insects	None	None	IUCN_VU-Vulnerable		From the Sierra-Cascade ranges eastward across the intermountain west.	Food plant genera include Cirsium, Cleome, Helianthus, Lupinus, Chrysothamnus, and Melilotus.	No suitable habitat is present in the study area. This species is not present.
Buteo regalis	ferruginous hawk	Birds	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Great Basin grassland Great Basin scrub Pinon & juniper woodlands Valley & foothill grassland	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats.	Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	No suitable habitat is present in the study area. This species is not present.

Buteo swainsoni	Swainson's hawk	Birds	None	Threatened	BLM_S-Sensitive IUCN_LC-Least Concern	Great Basin grassland Riparian forest Riparian woodland Valley & foothill grassland	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	No suitable habitat is present in the study area. This species is not present.
Catostomus santaanae	Santa Ana sucker	Fish	Threatened	None	AFS_TH-Threatened IUCN_VU-Vulnerable	Aquatic South coast flowing waters	Endemic to Los Angeles Basin south coastal streams.	Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	No suitable habitat is present in the study area. This species is not present.
Ceratochrysis longimala	Desert cuckoo wasp	Insects	None	None					No suitable habitat is present in the study area. This species is not present.

Chaetodipus fallax fallax	northwestern San Diego pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chaparral Coastal scrub	Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	No suitable habitat is present in the study area. This species is not present.
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Desert wash Pinon & juniper woodlands Sonoran desert scrub	Desert border areas in eastern San Diego County in desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	No suitable habitat is present in the study area. This species is not present.

Charina umbratica	southern rubber boa	Reptiles	None	Threatened	USFS_S-Sensitive	Meadow & seep Riparian forest Riparian woodland Upper montane coniferous forest Wetland	Known from the San Bernardino and San Jacinto mtns; found in a variety of montane forest habitats. Snakes resembling C. umbratica reported from Mt. Pinos and Tehachapi mtns group with C. bottae based on mtDNA. Further research needed.	Found in vicinity of streams or wet meadows; requires loose, moist soil for burrowing; seeks cover in rotting logs, rock outcrops, and under surface litter.	No suitable habitat is present in the study area. This species is not present.
Cicindela tranquebarica viridissima	greenest tiger beetle	Insects	None	None		Riparian woodland	Inhabits the woodlands adjacent to the Santa Ana River basin.	Usually found in open spots between trees.	No suitable habitat is present in the study area. This species is not present.

Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	Threatened	Endangered	BLM_S-Sensitive NABCI_RWL-Red Watch List USFS_S-Sensitive	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	No suitable habitat is present in the study area. This species is not present.
Coleonyx variegatus abbotti	San Diego banded gecko	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Chaparral Coastal scrub	Coastal and cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	No suitable habitat is present in the study area. This species is not present.

Coturnicops noveboracensis	yellow rail	Birds	None	None	CDFW_SSC- Species of Special Concern IUCN_LC-Least Concern NABCI_RWL- Red Watch List USFS_S- Sensitive USFWS_BCC- Birds of Conservation Concern	Freshwater marsh Meadow & seep	Summer resident in eastern Sierra Nevada in Mono County.	Freshwater marshlands.	No suitable habitat is present in the study area. This species is not present.
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None	CDFW_SSC- Species of Special Concern USFS_S- Sensitive	Chaparral Mojavean desert scrub Sonoran desert scrub	Chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains.	Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	No suitable habitat is present in the study area. This species is not present.

Diadophis punctatus modestus	San Bernardino ringneck snake	Reptiles	None	None	USFS_S-Sensitive		Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams.	Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.	No suitable habitat is present in the study area. This species is not present.
Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	Endangered	Candidate Endangered	CDFW_SSC-Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	No suitable habitat is present in the study area. This species is not present.
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	Endangered	Threatened	IUCN_EN-Endangered	Coastal scrub Valley & foothill grassland	Primarily annual and perennial grasslands, but also occurs in coastal scrub and sagebrush with sparse canopy cover.	Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil.	No suitable habitat is present in the study area. This species is not present.

Empidonax traillii extimus	southwestern willow flycatcher	Birds	Endangered	Endangered	NABCI_RWL- Red Watch List	Riparian woodland	Riparian woodlands in Southern California.		No suitable habitat is present in the study area. This species is not present.
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Emys marmorata	western pond turtle	Reptiles	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	Aquatic Artificial flowing waters Klamath/North coast flowing waters Klamath/North coast standing waters Marsh & swamp Sacramento/San Joaquin flowing waters Sacramento/San Joaquin standing waters South coast flowing waters South coast standing waters Wetland	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	No suitable habitat is present in the study area. This species is not present.
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Eremophila alpestris actia	California horned lark	Birds	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Marine intertidal & splash zone communities Meadow & seep	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills.	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	No suitable habitat is present in the study area. This species is not present.
Euchloe hyantis andrewsi	Andrew's marble butterfly	Insects	None	None		Lower montane coniferous forest	Inhabits yellow pine forest near Lake Arrowhead and Big Bear Lake, San Bernardino Mtns, San Bernardino Co, 5000-6000 ft.	Hostplants are Streptanthus bernardinus and Arabis holboellii var pinetorum; larval foodplant is Descurainia richardsonii.	No suitable habitat is present in the study area. This species is not present.
Eugnosta busckana	Busck's gallmoth	Insects	None	None		Coastal dunes Coastal scrub			No suitable habitat is present in the study area. This species is not present.

Eumops perotis californicus	western mastiff bat	Mammals	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern WBWG_H-High Priority	Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc.	Roosts in crevices in cliff faces, high buildings, trees and tunnels.	No suitable habitat is present in the study area. This species is not present.
Euphydryas editha quino	quino checkerspot butterfly	Insects	Endangered	None		Chaparral Coastal scrub	Sunny openings within chaparral and coastal sage shrublands in parts of Riverside and San Diego counties.	Hills and mesas near the coast. Need high densities of food plants Plantago erecta, P. insularis, and Orthocarpus purpurescens.	No suitable habitat is present in the study area. This species is not present.
Falco columbarius	merlin	Birds	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Estuary Great Basin grassland Valley & foothill grassland	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands and deserts, farms and ranches.	Clumps of trees or windbreaks are required for roosting in open country.	No suitable habitat is present in the study area. This species is not present.

Gila orcuttii	arroyo chub	Fish	None	None	AFS_VU- Vulnerable CDFW_SSC- Species of Special Concern USFS_S- Sensitive	Aquatic South coast flowing waters	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave and San Diego river basins.	Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	No suitable habitat is present in the study area. This species is not present.
Glaucomys oregonensis californicus	San Bernardino flying squirrel	Mammals	None	None	CDFW_SSC- Species of Special Concern USFS_S- Sensitive	Broadleaved upland forest Lower montane coniferous forest	Known from black oak or white fir dominated woodlands between 5200 - 8500 ft in the San Bernardino and San Jacinto ranges. May be extirpated from San Jacinto range.	Needs cavities in trees/snags for nests and cover. Needs nearby water.	No suitable habitat is present in the study area. This species is not present.

Haliaeetus leucocephalus	bald eagle	Birds	Delisted	Endangered	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern USFS_S-Sensitive	Lower montane coniferous forest Oldgrowth	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water.	Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	No suitable habitat is present in the study area. This species is not present.
Icteria virens	yellow-breasted chat	Birds	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Riparian forest Riparian scrub Riparian woodland	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	No suitable habitat is present in the study area. This species is not present.

Lanius ludovicianus	loggerhead shrike	Birds	None	None	CDFW_SSC- Species of Special Concern IUCN_LC-Least Concern	Broadleaved upland forest Desert wash Joshua tree woodland Mojavean desert scrub Pinon & juniper woodlands Riparian woodland Sonoran desert scrub	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub and washes.	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	No suitable habitat is present in the study area. This species is not present.
Lasiurus xanthinus	western yellow bat	Mammals	None	None	CDFW_SSC- Species of Special Concern IUCN_LC-Least Concern WBWG_H- High Priority	Desert wash	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	No suitable habitat is present in the study area. This species is not present.

Laterallus jamaicensis coturniculus	California black rail	Birds	None	Threatened	BLM_S- Sensitive CDFW_FP-Fully Protected IUCN_NT-Near Threatened NABCI_RWL- Red Watch List	Brackish marsh Freshwater marsh Marsh & swamp Salt marsh Wetland	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays.	Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	No suitable habitat is present in the study area. This species is not present.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	None	None		Coastal scrub	Intermediate canopy stages of shrub habitats and open shrub / herbaceous and tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	No suitable habitat is present in the study area. This species is not present.
Neolarra alba	white cuckoo bee	Insects	None	None			Known only from localities in Southern California.	Cleptoparasitic in the nests of perdita bees.	No suitable habitat is present in the study area. This species is not present.

Neotoma lepida intermedia	San Diego desert woodrat	Mammals	None	None	CDFW_SSC- Species of Special Concern	Coastal scrub	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	No suitable habitat is present in the study area. This species is not present.
Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	None	None	CDFW_SSC- Species of Special Concern IUCN_LC-Least Concern WBWG_M- Medium Priority	Joshua tree woodland Pinon & juniper woodlands Riparian scrub Sonoran desert scrub	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	No suitable habitat is present in the study area. This species is not present.
Oncorhynchus mykiss irideus pop. 10	steelhead - southern California DPS	Fish	Endangered	None	AFS_EN- Endangered	Aquatic South coast flowing waters	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County).	Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	No suitable habitat is present in the study area. This species is not present.

Onychomys torridus ramona	southern grasshopper mouse	Mammals	None	None	CDFW_SSC- Species of Special Concern	Chenopod scrub	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover.	Feeds almost exclusively on arthropods, especially scorpions and orthopteran insects.	No suitable habitat is present in the study area. This species is not present.
Perognathus alticola alticola	white-eared pocket mouse	Mammals	None	None	BLM_S- Sensitive CDFW_SSC- Species of Special Concern IUCN_EN- Endangered USFS_S- Sensitive	Lower montane coniferous forest Mojavean desert scrub Pinon & juniper woodlands	Ponderosa and Jeffrey pine habitats; also in mixed chaparral and sagebrush habitats in the San Bernardino Mountains.	Burrows are constructed in loose soil.	No suitable habitat is present in the study area. This species is not present.
Perognathus longimembris brevinasus	Los Angeles pocket mouse	Mammals	None	None	CDFW_SSC- Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	No suitable habitat is present in the study area. This species is not present.

Phrynosoma blainvillii	coast horned lizard	Reptiles	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Chaparral Cismontane woodland Coastal bluff scrub Coastal scrub Desert wash Pinon & juniper woodlands Riparian scrub Riparian woodland Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	No suitable habitat is present in the study area. This species is not present.
Poliophtila californica californica	coastal California gnatcatcher	Birds	Threatened	None	CDFW_SSC-Species of Special Concern NABCI_YWL-Yellow Watch List	Coastal bluff scrub Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	No suitable habitat is present in the study area. This species is not present.

Rana draytonii	California red-legged frog	Amphibians	Threatened	None	CDFW_SSC- Species of Special Concern IUCN_VU- Vulnerable	<p>Aquatic Artificial flowing waters Artificial standing waters Freshwater marsh Marsh & swamp Riparian forest Riparian scrub Riparian woodland Sacramento/Sa n Joaquin flowing waters Sacramento/Sa n Joaquin standing waters South coast flowing waters South coast standing waters Wetland</p>	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	No suitable habitat is present in the study area. This species is not present.
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Rana muscosa	southern mountain yellow-legged frog	Amphibians	Endangered	Endangered	CDFW_WL-Watch List IUCN_EN-Endangered USFS_S-Sensitive	Aquatic	Disjunct populations known from southern Sierras (northern DPS) and San Gabriel, San Bernardino, and San Jacinto Mtns (southern DPS). Found at 1,000 to 12,000 ft in lakes and creeks that stem from springs and snowmelt. May overwinter under frozen lakes.	Often encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development.	No suitable habitat is present in the study area. This species is not present.
Rhaphiomidas terminatus abdominalis	Delhi Sands flower-loving fly	Insects	Endangered	None		Interior dunes	Found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside counties.	Requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. Oviposition req. shade.	No suitable habitat is present in the study area. This species is not present.

Rhinichthys osculus ssp. 8	Santa Ana speckled dace	Fish	None	None	AFS_TH- Threatened CDFW_SSC- Species of Special Concern USFS_S- Sensitive	Aquatic South coast flowing waters	Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system.	Requires permanent flowing streams with summer water temps of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	No suitable habitat is present in the study area. This species is not present.
Salvadora hexalepis virgultea	coast patch- nosed snake	Reptiles	None	None	CDFW_SSC- Species of Special Concern	Coastal scrub	Brushy or shrubby vegetation in coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.	No suitable habitat is present in the study area. This species is not present.

Setophaga petechia	yellow warbler	Birds	None	None	CDFW_SSC- Species of Special Concern	Riparian forest Riparian scrub Riparian woodland	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada.	Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	No suitable habitat is present in the study area. This species is not present.
Spea hammondii	western spadefoot	Amphibians	None	None	BLM_S- Sensitive CDFW_SSC- Species of Special Concern IUCN_NT-Near Threatened	Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	No suitable habitat is present in the study area. This species is not present.

Spinus lawrencei	Lawrence's goldfinch	Birds	None	None	IUCN_LC-Least Concern NABCI_YWL-Yellow Watch List USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest Chaparral Pinon & juniper woodlands Riparian woodland	Nests in open oak or other arid woodland and chaparral, near water. Nearby herbaceous habitats used for feeding.	Closely associated with oaks.	No suitable habitat is present in the study area. This species is not present.
Streptocephalus woottoni	Riverside fairy shrimp	Crustaceans	Endangered	None	IUCN_EN-Endangered	Coastal scrub Valley & foothill grassland Vernal pool Wetland	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub.	Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	No suitable habitat is present in the study area. This species is not present.

Taxidea taxus	American badger	Mammals	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Alkali marsh Alkali playa Alpine Alpine dwarf scrub Bog & fen Brackish marsh Broadleaved upland forest Chaparral Chenopod scrub Cismontane woodland Closed-cone coniferous forest Coastal bluff scrub Coastal dunes Coastal prairie Coastal scrub Desert dunes Desert wash Freshwater marsh Great Basin grassland Great Basin scrub Interior	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	No suitable habitat is present in the study area. This species is not present.
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Thamnophis hammondi	two-striped gartersnake	Reptiles	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	Marsh & swamp Riparian scrub Riparian woodland Wetland	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation.	Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	No suitable habitat is present in the study area. This species is not present.
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered	IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List	Riparian forest Riparian scrub Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	No suitable habitat is present in the study area. This species is not present.

APPENDIX C



Disturbed habitat on site where project impacts will occur. Residential area in the distance. View looking southwest.



Disturbed habitat on site. Ornamental vegetation along border of site, including tree of heaven (*Ailanthus altissima*).



Disturbed habitat on site followed by neighboring commercial development with storage containers. View looking east.



Power lines and Mexican fan palm (*Washingtonia robusta*) directly adjacent to western border of project site. View looking northwest.



Developed area on site with commercial building and associated parking. View looking northwest.



Developed habitat on site. View looking north.



View of access road at southern portion of the project site bordered by commercial development.



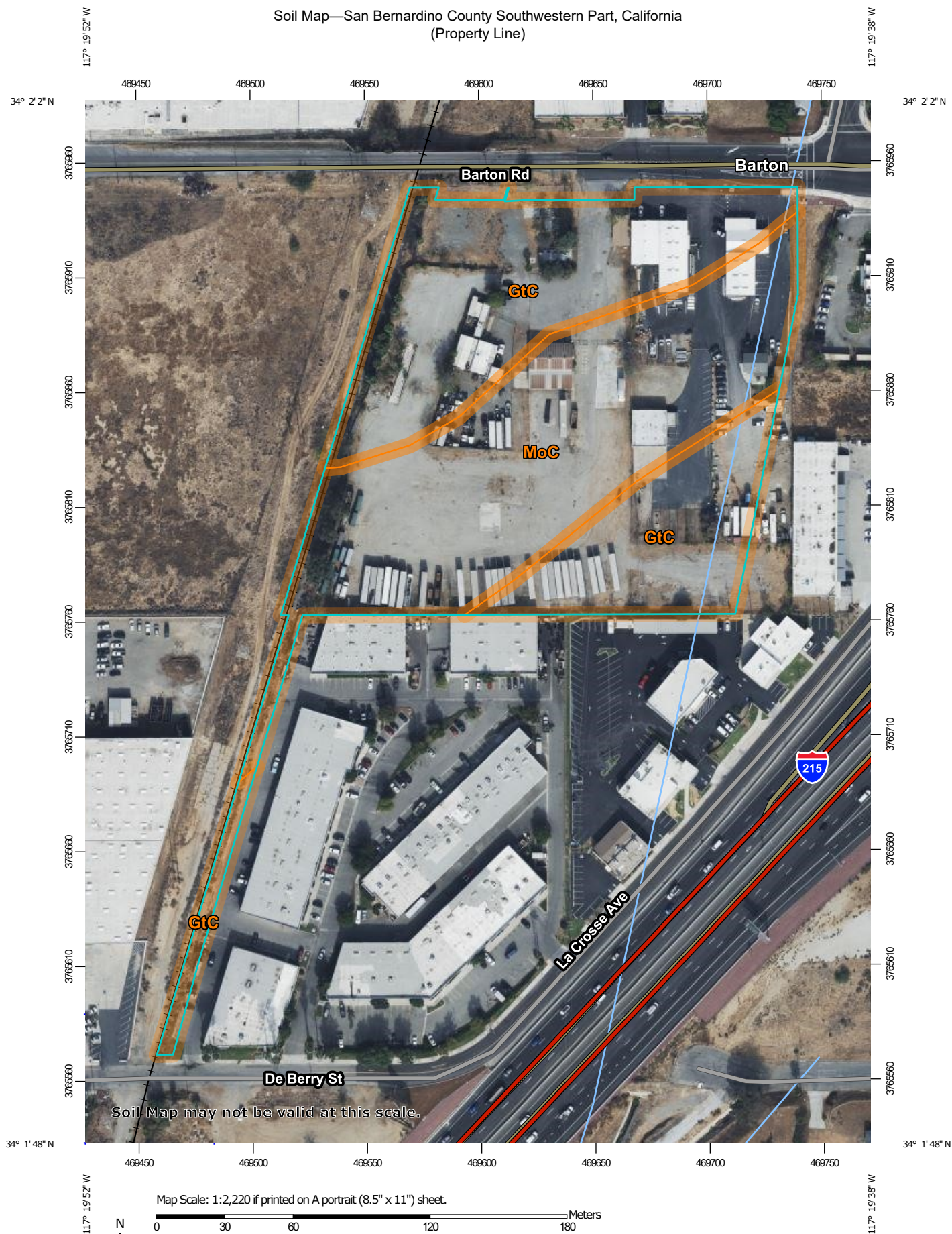
View of access road.



View of gravel covered portion of the access road and piles of litter.

APPENDIX D

Soil Map—San Bernardino County Southwestern Part, California
(Property Line)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

5/24/2022
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Soil Map—San Bernardino County Southwestern Part, California
(Property Line)


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: San Bernardino County Southwestern Part, California

Survey Area Data: Version 13, Sep 13, 2021

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

Date(s) aerial images were photographed: Nov 11, 2020—Nov 15, 2020

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GtC	Greenfield sandy loam, 2 to 9 percent slopes	4.6	52.1%
MoC	Monserate sandy loam, 2 to 9 percent slopes	4.2	47.9%
Totals for Area of Interest		8.8	100.0%