Riverside County Planning Department—Trails at Corona Draft EIR	
Appendix (۲.
Biological Resources Supporting Information	'n
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Riverside County Planning Department—Trails at Corona Draft EIR	
	C.1 - Biological Resources Assessment





February 16, 2016

TA Grabiel Oxbow Partners 2855 Pacific Coast Highway, Suite 227 Corona Del Mar, California 92625

SUBJECT: Results of a Biological/Regulatory Overview for the Approximately 105-Acre

Mountain View Golf Course Redevelopment Project in the City of Corona and

Unincorporated Riverside County, California.

Dear Mr. Grabiel:

Glenn Lukos Associates, Inc. (GLA) visited the above-mentioned property on December 18, 2015 to determine the presence of potential development constraints¹. For the purpose of this report, constraints are considered sensitive biological and jurisdictional resources that may 1) require partial or complete avoidance of resources; 2) require permits from one or more regulatory agencies; 3) require mitigation to offset impacts to resources; 4) result in a seasonal delay to development; and/or 5) require additional focused surveys.

Sensitive resources considered for this analysis include special-status species (e.g., threatened and endangered, species of concern, etc.), special-status habitats, nesting birds, waters of the United States (including wetlands) subject to the jurisdiction of the U.S. Army Corps of Engineers (Corps) and the Regional Water Quality Control Board (Regional Board), and waters of the State (including riparian vegetation) subject to the jurisdiction of the California Department of Fish and Wildlife (CDFW). Impacts to special-status species and habitats must be addressed during project review under the California Environmental Quality Act (CEQA). In addition, federally listed species (threatened or endangered) are regulated by the U.S. Fish and Wildlife Service (USFWS) pursuant to the Federal Endangered Species Act (ESA). Species listed as threatened or endangered by the State of California are regulated by CDFW pursuant to the State ESA. Wildlife that are assigned other designations by CDFW (i.e., species of concern, fully-protected species, etc.), and plants given special status by the California Native Plant Society (CNPS) are not granted additional protection, except that impacts to these species may need to be evaluated pursuant to CEQA.

¹ Please note, the biological constraints analysis will alert the client to potential constraints in development of the property. Additional analysis may be necessary to support any permitting that may be required and/or to satisfy local or lead agency requirements under CEQA. Separate and more detailed surveys may be required for the permitting/approval process, if needed.

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The Project site is located within the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). However, since the site consists of a previously-developed golf course, the site is excluded from MSHCP survey areas, including the Narrow Endemic Plant Species Survey Area (NEPSSA), Criteria Area Species Survey Area (CAPSSA), and the burrowing owl survey area. As such, assessments are not required for these species pursuant to the MSHCP. However, the MSHCP policies pertaining to riparian/riverine areas apply to all properties located within the MSHCP. As such, the subject property must be assessed for riparian/riverine areas, including the potential for suitable habitat for riparian birds with project-specific survey requirements.

1.0 SITE LOCATION AND DESCRIPTION

The majority of the approximately 105-acre property is located in unincorporated Riverside County, California, with a smaller portion located within the City of Corona [Exhibit 1 – Regional Map]. The property is located south of the 91 Freeway, and generally west of Avenida del Vista and east of Serfas Club Drive, and is depicted on the U.S. Geological Survey (USGS) topographic maps Corona North and Corona South, California (dated 1967 and photorevised in 1981 and 1988, respectively) at Township 3 South, Range 7 West [Exhibit 2 – Vicinity Map].

The former golf course is surrounded by residential development. Exhibit 3 provides an aerial image of the site, including the property boundary.

2.0 METHODOLOGY

GLA biologist Jeff Ahrens visited the property on December 18, 2015 to conduct a site review. Site reconnaissance was conducted in such a manner as to allow inspection of the entire site by direct observation, including the use of binoculars. The property was walked following transects spaced appropriately in order to provide complete coverage of the site. The property was inspected to determine whether any special-status species, habitats, or potential jurisdictional areas are present at the property.

In addition to site reconnaissance, evaluation of the property included a review of the California Natural Diversity Database (CNDDB) for the Corona North and Corona South quadrangles and surrounding quadrangles², a review of the 2010 California Native Plant Society (CNPS) on-line

² California Department of Fish and Wildlife. January 2016. Natural Diversity Database: RareFind 5.

inventory³, and soil map review.

3.0 RESULTS

3.1 Existing Conditions

The property consists of the former Mountain View Golf Course, which is no longer operational. The property contains the remnant fairways, pathways, clubhouse, and other golf course features, including former golf course ponds. The majority of the site exhibits evidence of recent mechanical disturbance, including mowing. Representative photographs are provided as Exhibit 4.

The dominant vegetation at the property consists of remnant turf grass and trees that were planted as part of the golf course landscaping, as well as weedy species that have expanded throughout the golf course footprint. The trees include Peruvian pepper tree (*Schinus molle*), gum tree (*Eucalyptus* sp.), pines (*Pinus* sp.), Brazilian pepper tree (*Schinus terebinthifolius*), Acacia sp. (*Acacia* sp.), shamel ash (*Fraxinus uhdei*), white alder (*Alnus rhombifolia*), saltcedar (*Tamarix ramosissima*), Mexican fan palm (*Washingtonia robusta*), Canary Island palm (*Phoenix canariensis*), European olive (*Olea europaea*), numerous other ornamental varieties, and a few coast live oak trees (*Quercus agrifolia*). Non-native grasses and other invasive species include London rocket (*Sisymbrium irio*), Bermuda grass (*Cynodon dactylon*), Russian thistle (*Salsola tragus*), horehound (*Marrubium vulgare*), Lamb's quarters (*Chenopodium album*), cheeseweed (*Malva parviflora*), slender wild oat (*Avena barbata*), shortpod mustard (*Hirschfeldia incana*), giant reed (*Arundo donax*), curly dock (*Rumex crispus*), Mediterranean grass (*Schismus barbatus*), foxtail chess (*Bromus madritensis* ssp. *rubens*), prostrate pigweed (*Amaranthus albus*), cultivated radish (*Rhaphanus sativus*), milkvetch (*Astragalus* sp.), English ivy (*Hedera helix*), and smilo grass (*Stipa miliacea* var. *miliacea*).

The former golf course ponds contain non-native tree and shrub species, but also include native trees and shrubs associated with riparian areas, including black willow (*Salix gooddingii*), arroyo willow (*Salix lasiolepis*), and mulefat (*Baccharis salicifolia*).

The property contains a natural drainage feature located in southern portion of the property. The banks of the drainage feature are vegetated primarily with non-native grasses and ruderal vegetation, but also contain patches of sage scrub vegetation, including California goldenbush (*Ericameria ericoides*), California buckwheat (*Eriogonum fasciculatum*), and coastal sagebrush

³ California Native Plant Society. 2010. On-Line Inventory of Rare and Endangered Plants of California (Eighth Edition).

(*Artemisia californica*). The bottom of the drainage feature contains both native and non-native trees and shrubs, including riparian species such as mulefat and willow.

3.2 Special-Status Plants

The subject property is not expected to support any special-status plants due to the lack of suitable habitat and the level of disturbance. As noted above, the site is not located within MSHCP plant survey areas, and so there are no MSHCP survey/conservation requirements pertaining to special-status plants. Table 3-1 provides a summary of all plants considered for this analysis. Species were considered based on a number of factors, including: 1) species identified by the January 2016 CNDDB as occurring (either currently of historically) on or in the vicinity of the property; and 2) any other species that are known to occur within the vicinity of the property, or for which potentially suitable habitat occurs on site.

Table 3-1. Special-Status Plants Evaluated for the Property.

Federal	State
reuerai	State

 $\begin{tabular}{ll} FE-Federally Endangered & SE-State Endangered \\ FT-Federally Threatened & ST-State Threatened \\ \end{tabular}$

CNPS Rare Plant Rank

Rank 1B – Plants rare, threatened, or endangered in California and elsewhere.

Rank 2 – Plants rare, threatened, or endangered in California, but more common elsewhere.

Rank 3 – Plants about which more information is needed.

Rank 4 – Plants of limited distribution (a watch list).

CNPS Threat Rank Extensions

- .1 Seriously endangered in California (over 80% of occurrences threatened/high degree and immediacy of threat)
- .2 Fairly endangered in California (20-80% occurrences threatened)
- .3 Not very endangered in California (<20% of occurrences threatened or no current threats known)

		Habitat	Potential for Occurrence
Species Name	Status	Requirements	
Allen's pentachaeta Pentachaeta aurea ssp. allenii	Federal: None State: None CNPS: Rank 1B.1	Openings in coastal sage scrub, and valley and foothill grasslands.	Does not occur due to a lack of suitable habitat.
Brand's star phacelia Phacelia stellaris	Federal: None State: None CNPS: Rank 1B.1	Coastal dunes and coastal sage scrub.	Does not occur due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Braunton's milk-vetch Astragalus brauntonii	Federal: FE State: None CNPS: Rank 1B.1	Closed-cone coniferous forest, chaparral, coastal sage scrub, valley and foothill grassland. Usually carbonate soils. Recent burn or disturbed areas.	Does not occur due to a lack of suitable habitat.
Brewer's calandrinia Calandrinia breweri	Federal: None State: None CNPS: Rank 4.2	Sandy or loamy soils in disturbed sites and burns. Chaparral, coastal scrub.	Does not occur due to a lack of suitable habitat.
California beardtongue Penstemon californicus	Federal: None State: None CNPS: Rank 1B.2	Sandy soils in chaparral, lower montane coniferous forest, and pinyon and juniper woodland.	Does not occur due to a lack of suitable habitat.
California muhly Muhlenbergia californica	Federal: None State: None CNPS: Rank 4.3	Mesic habitats, including seeps and streambanks, in chaparral, coastal scrub, lower montane coniferous forest, and meadows.	Does not occur due to a lack of suitable habitat.
California saw-grass Cladium californicum	Federal: None State: None CNPS: Rank 2B.2	Meadows and seeps, and alkaline or freshwater marshes and swamps.	Does not occur due to a lack of suitable habitat.
California screw moss Tortula californica	Federal: None State: None CNPS: Rank 1B.2	Sandy soil in chenopod scrub, and valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Catalina mariposa lily Calochortus catalinae	Federal: None State: None CNPS: Rank 4.2	Chaparral, cismontane woodland, coastal sage scrub, valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Chaparral nolina Nolina cismontana	Federal: None State: None CNPS: Rank 1B.2	Chaparral, coastal sage scrub. Occurring on sandstone or gabbro substrates.	Does not occur due to a lack of suitable habitat.
Chaparral ragwort Senecio aphanactis	Federal: None State: None CNPS: Rank 2B.2	Chaparral, cismontane woodland, coastal scrub. Sometimes associated with alkaline soils.	Does not occur due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Chaparral rein orchid Piperia cooperi	Federal: None State: None CNPS: Rank 4.2	Chaparral, cismontane woodland, valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Chaparral sand-verbena Abronia villosa var. aurita	Federal: None State: None CNPS: Rank 1B.1	Sandy soils in chaparral, coastal sage scrub.	Does not occur due to a lack of suitable habitat.
Cleveland's bush monkeyflower Mimulus clevelandii	Federal: None State: None CNPS: Rank 4.2	Gabbroic soils, often in disturbed areas, openings, rocky. Chaparral, cismontane woodland, lower montane coniferous forest.	Does not occur due to a lack of suitable habitat.
Coulter's goldfields Lasthenia glabrata ssp. coulteri	Federal: None State: None CNPS: Rank 1B.1	Playas, vernal pools, marshes and swamps (coastal salt).	Does not occur due to a lack of suitable habitat.
Coulter's matilija poppy Romneya coulteri	Federal: None State: None CNPS: Rank 4.2	Often in burns in chaparral and coastal scrub.	Does not occur due to a lack of suitable habitat.
Coulter's saltbush Atriplex coulteri	Federal: None State: None CNPS: Rank 1B.2	Coastal bluff scrub, coastal dunes, coastal sage scrub, valley and foothill grassland. Occurring on alkaline or clay soils.	Does not occur due to a lack of suitable habitat.
Felt-leaved monardella Monardella hypoleuca ssp. lanata	Federal: None State: None CNPS: Rank 1B.2	Chaparral and cismontane woodland	Does not occur due to a lack of suitable habitat.
Fish's milkwort Polygala cornuta var. fishae	Federal: None State: None CNPS: Rank 4.3	Chaparral, cismontane woodland, riparian woodland.	Does not occur due to a lack of suitable habitat.
Hall's monardella Monardella macrantha ssp. hallii	Federal: None State: None CNPS: Rank 1B.3	Occurs on dry slopes and ridges within openings in broadleaved upland forest, chaparral, lower montane coniferous forest, cismontane woodland, and valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Heart-leaved pitcher sage Lepechinia cardiophylla	Federal: None State: None CNPS: Rank 1B.2	Closed-cone coniferous forest, chaparral, and cismontane woodland.	Does not occur due to a lack of suitable habitat.

		Habitat	Potential for Occurrence
Species Name	Status	Requirements	_
Intermediate mariposa-lily Calochortus weedii var. intermedius	Federal: None State: None CNPS: Rank 1B.2	Rocky soils in chaparral, coastal sage scrub, valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Intermediate monardella Monardella hypoleuca ssp.intermedia	Federal: None State: None CNPS: Rank 1B.3	Usually in the understory of chaparral, cismontane woodland, and lower montane coniferous forest (sometimes)	Does not occur due to a lack of suitable habitat.
Jokerst's monardella Monardella australis ssp. jokerstii	Federal: None State: None CNPS: Rank 1B.1	Steep scree or talus slopes between breccia, secondary alluvial benches along drainages and washes. Chaparral, lower montane coniferous forest.	Does not occur due to a lack of suitable habitat.
Lewis' evening-primrose Camissoniopsis lewisii	Federal: None State: None CNPS: Rank 3	Sandy or clay soils in coastal bluff scrub, cismontane woodland, coastal dunes, coastal scrub, and valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Long-spined spineflower Chorizanthe polygonoides var. longispina	Federal: None State: None CNPS: Rank 1B.2	Clay soils in chaparral, coastal sage scrub, meadows and seeps, and valley and foothill grasslands	Does not occur due to a lack of suitable habitat.
Lucky morning-glory Calystegia felix	Federal: None State: None CNPS: Rank 3.1	Historically associated with wetland and marshy places, but possibly in drier situations as well. Possibly silty loam and alkaline soils. Meadows and seeps (sometimes alkaline), riparian scrub (alluvial).	Does not occur due to a lack of suitable habitat.
Malibu baccharis Baccharis malibuensis	Federal: None State: None CNPS: Rank 1B.1	Chaparral, cismontane woodland, coastal sage scrub.	Does not occur due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Many-stemmed dudleya Dudleya multicaulis	Federal: None State: None CNPS: Rank 1B.2	Chaparral, coastal sage scrub, valley and foothill grassland. Often occurring in clay soils.	Does not occur due to a lack of suitable habitat.
Marsh sandwort Arenaria paludicola	Federal: FE State: SE CNPS: Rank 1B.1	Bogs and fens, freshwater marshes and swamps.	Does not occur due to a lack of suitable habitat.
Mesa horkelia Horkelia cuneata var. puberula	Federal: None State: None CNPS: Rank 1B.1	Sandy or gravelly soils in chaparral (maritime), cismontane woodland, and coastal scrub.	Does not occur due to a lack of suitable habitat.
Mud nama Nama stenocarpum	Federal: None State: None CNPS: Rank 2B.2	Marshes and swamps	Does not occur due to a lack of suitable habitat.
Munz's onion Allium munzii	Federal: FE State: ST CNPS: Rank 1B.1	Clay soils in chaparral, coastal sage scrub, and valley and foothill grasslands	Does not occur due to a lack of suitable habitat.
Ocellated humboldt lily Lilium humboldtii ssp. ocellatum	Federal: None State: None CNPS: Rank 4.2	Chaparral, cismontane woodland, coastal sage scrub, lower montane coniferous forest, riparian woodland. Occurring in openings.	Does not occur due to a lack of suitable habitat.
Narrow-petaled rein orchid Piperia leptopetala	Federal: None State: None CNPS: Rank 4.3	Cismontane woodland, lower montane coniferous forest, upper montane coniferous forest.	Does not occur due to a lack of suitable habitat.
Palmer's grapplinghook Harpagonella palmeri	Federal: None State: None CNPS: Rank 4.2	Chaparral, coastal sage scrub, valley and foothill grassland. Occurring in clay soils.	Does not occur due to a lack of suitable habitat.
Palomar monkeyflower Mimulus diffusus	Federal: None State: None CNPS: Rank 4.3	Sandy or gravelly soils in chaparral, lower montane coniferous forest.	Does not occur due to a lack of suitable habitat.
Paniculate tarplant Deinandra paniculata	Federal: None State: None CNPS: Rank 4.2	Usually in vernally mesic, sometimes sandy soils in coastal scrub, valley and foothill grassland, and vernal pools.	Does not occur due to a lack of suitable habitat.

Cassias Nama	Status	Habitat	Potential for Occurrence
Species Name Parish's desert-thorn	Status Federal: None	Requirements	Dans not a sound to to a
Lycium parishii	State: None CNPS: Rank 2B.3	Coastal sage scrub, Sonoran desert scrub	Does not occur due to a lack of suitable habitat.
Parry's spineflower Chorizanthe parryi var. parryi	Federal: None State: None CNPS: Rank 1B.1	Sandy or rocky soils in open habitats of chaparral and coastal sage scrub.	Does not occur due to a lack of suitable habitat.
Payson's jewelflower Caulanthus simulans	Federal: None State: None CNPS: Rank 4.2	Sandy or granitic soils in chaparral and coastal scrub.	Does not occur due to a lack of suitable habitat.
Peninsular spineflower Chorizanthe leptotheca	Federal: None State: None CNPS: Rank 4.2	Alluvial fan, granitic. Chaparral, coastal scrub, lower montane coniferous forest.	Does not occur due to a lack of suitable habitat.
Plummer's mariposa lily Calochortus plummerae	Federal: None State: None CNPS: Rank 4.2	Granitic, rock soils within chaparral, cismontane woodland, coastal sage scrub, lower montane coniferous forest, valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Pringle's monardella Monardella pringlei	Federal: None State: None CNPS: Rank 1A	Sandy soils in coastal sage scrub.	Does not occur due to a lack of suitable habitat.
Prairie wedge grass Sphenopholis obtusata	Federal: None State: None CNPS: Rank 2B.2	Mesic soils in cismontane woodland, meadows and seeps.	Does not occur due to a lack of suitable habitat.
Prostrate vernal pool navarretia Navarretia prostrata	Federal: None State: None CNPS: Rank 1B.1	Coastal sage scrub, valley and foothill grassland (alkaline), vernal pools. Occurring in mesic soils.	Does not occur due to a lack of suitable habitat.
Rigid fringepod Thysanocarpus rigidus	Federal: None State: None CNPS: Rank 1B.2	Dry rocky slopes in pinyon and juniper woodland.	Does not occur due to a lack of suitable habitat.
Robinson's pepper grass Lepidium virginicum var. robinsonii	Federal: None State: None CNPS: Rank 4.3	Chaparral, coastal sage scrub	Does not occur due to a lack of suitable habitat.
Round-leaved filaree California macrophylla	Federal: None State: None CNPS: Rank 1B.1	Clay soils in cismontane woodland, valley and foothill grassland	Does not occur due to a lack of suitable habitat.

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Species Name	Status	Requirements	D
Salt marsh bird's-beak	Federal: FE	Coastal dune, coastal	Does not occur due to a
Chloropyron maritimum ssp.	State: SE	salt marshes and	lack of suitable habitat.
maritimum	CNPS: Rank 1B.2	swamps.	
Salt Spring checkerbloom Sidalcea neomexicana	Federal: None State: None CNPS: Rank 2B.2	Mesic, alkaline soils in chaparral, coastal sage scrub, lower montane coniferous forest, Mojavean desert scrub, and playas.	Does not occur due to a lack of suitable habitat.
San Bernardino aster Symphyotrichum defoliatum	Federal: None State: None CNPS: Rank 1B.2	Cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, valley and foothill grassland (vernally mesic).	Does not occur due to a lack of suitable habitat.
San Diego ambrosia Ambrosia pumila	Federal: FE State: None CNPS: Rank 1B.1	Chaparral, coastal sage scrub, valley and foothill grassland, vernal pools. Often in disturbed habitats.	Does not occur due to a lack of suitable habitat.
San Fernando Valley spineflower Chorizanthe parryi var. fernandina	Federal: Candidate State: SE CNPS: Rank 1B.1	Coastal sage scrub, occurring on sandy soils.	Does not occur due to a lack of suitable habitat.
San Miguel savory Clinopodium chandleri	Federal: None State: None CNPS: Rank 1B.2	Rocky, gabbroic, or metavolcanic soils in chaparral, cismontane woodland, coastal sage scrub, riparian woodland, valley and foothill grassland.	Does not occur due to a lack of suitable habitat.
Santa Ana River woolly star Eriastrum densifolium ssp. sanctorum	Federal: FE State: SE CNPS: Rank 1B.1	Alluvial fan sage scrub, chaparral. Occurring on sandy or rocky soils.	Does not occur due to a lack of suitable habitat.
Santa Monica dudleya Dudleya cymosa ssp. ovatifolia	Federal: FT State: None CNPS: Rank 1B.1	Chaparral, coastal sage scrub. Occurring on volcanic soils.	Does not occur due to a lack of suitable habitat.
Santiago Peak phacelia Phacelia keckii	Federal: None State: None CNPS: Rank 1B.3	Closed-cone coniferous forest, chaparral	Does not occur due to a lack of suitable habitat.
Slender-horned spineflower Dodecahema leptoceras	Federal: FE State: SE CNPS: Rank 1B.1	Sandy soils in alluvial scrub, chaparral, cismontane woodland.	Does not occur due to a lack of suitable habitat.

Species Nome	Status	Habitat Baguinamenta	Potential for Occurrence
Species Name	Status	Requirements	
Small-flowered microseris Microseris douglasii ssp. platycarpha	Federal: None State: None CNPS: Rank 4.2	Cismontane woodland, coastal sage scrub, valley and foothill grassland, vernal pools. Occurring on clay soils.	Does not occur due to a lack of suitable habitat.
Small-flowered morning-glory Convolvulus simulans	Federal: None State: None CNPS: Rank 4.2	Chaparral (openings), coastal sage scrub, valley and foothill grassland. Occurring on clay soils and serpentinite seeps.	Does not occur due to a lack of suitable habitat.
Smooth tarplant Centromadia pungens ssp. laevis	Federal: None State: None CNPS: Rank 1B.1	Alkaline soils in chenopod scrub, meadows and seeps, playas, riparian woodland, valley and foothill grasslands, disturbed habitats.	Does not occur due to a lack of suitable habitat.
Southern California black walnut Juglans californica	Federal: None State: None CNPS: Rank 4.2	Chaparral, cismontane woodland, coastal sage scrub, alluvial surfaces.	Does not occur due to a lack of suitable habitat.
Summer holly Comarostaphylis diversifolia ssp. diversifolia	Federal: None State: None CNPS: Rank 1B.2	Chaparral.	Does not occur due to a lack of suitable habitat.
Tecate cypress Hesperocyparis forbesii	Federal: None State: None CNPS: Rank 1B.1	Closed-cone coniferous forest, chaparral.	Does not occur due to a lack of suitable habitat.
Thread-leaved brodiaea Brodiaea filifolia	Federal: FT State: SE CNPS: Rank 1B.1	Clay soils in chaparral (openings), cismontane woodland, coastal sage scrub, playas, valley and foothill grassland, vernal pools.	Does not occur due to a lack of suitable habitat.
Vernal barley Hordeum intercedens	Federal: None State: None CNPS: Rank 3.2	Coastal dunes, coastal sage scrub, valley and foothill grassland (saline flats and depressions), vernal pools.	Does not occur due to a lack of suitable habitat.
Western spleenwort Asplenium vespertinum	Federal: None State: None CNPS: Rank 4.2	Rocky soils in chaparral, cismontane woodland, and coastal scrub.	Does not occur due to a lack of suitable habitat.

		Habitat	Potential for Occurrence
Species Name	Status	Requirements	
White-bracted spineflower	Federal: None	Sandy or gravelly soils	Does not occur due to a
Chorizanthe xanti var. leucotheca	State: None	in Mojavean desert	lack of suitable habitat.
	CNPS: Rank 1B.2	scrub and pinyon and	
		juniper woodland.	
White rabbit-tobacco	Federal: None	Sandy or gravelly soils	Does not occur due to a
Pseudognaphalium leucocephalum	State: None	in chaparral,	lack of suitable habitat.
	CNPS: Rank 2B.2	cismontane woodland,	
		coastal scrub, and	
		riparian woodland.	
Woolly chaparral-pea	Federal: None	Gabbroic, granitic, and	Does not occur due to a
Pickeringia montana var. tomentosa	State: None	clay soils in chaparral.	lack of suitable habitat.
	CNPS: Rank 4.3		

3.3 Special-Status Animals

No special-status animals were observed onsite during the general survey. Some special-status animals have the potential to occur oat the property based on the presence of potentially suitable habitat. Species with specific survey requirements and/or that may represent a constraint to developing the property are discussed below.

Table 3-2 provides a summary of all species considered for the constraints analysis. Species were considered based on a number of factors, including: 1) species identified by the January 2016 CNDDB as occurring (either currently of historically) on or in the vicinity of the property; and 2) any other special-status species that are known to occur within the vicinity of the property, or for which potentially suitable habitat occurs on site.

Table 3-2. Special-Status Animals Evaluated for the Property.

Federal State

 $\begin{array}{ll} FE-Federally\ Endangered & SE-State\ Endangered \\ FT-Federally\ Threatened & ST-State\ Threatened \\ \end{array}$

FPT – Federally Proposed Threatened SSC – California Species of Special Concern BCC – Birds of Conservation Concern CFP – California Fully-Protected Species

			Potential for
Species Name	Status	Habitat Requirements	Occurrence
Invertebrates			
Delhi-sands flower-loving fly Raphiomidas terminatus abdominalis	Federal: FE State: None	Fine, sandy soils, often associated with wholly or partially consolidated dunes referred to as the "Delhi" series. Vegetation consists of a sparse cover, including Californica buckwheat, California croton, deerweed, and evening primrose.	Does not occur due to a lack of suitable habitat.
Riverside fairy shrimp Streptocephalus woottoni	Federal: FE State: None	Restricted to deep seasonal vernal pools, vernal pool-like ephemeral ponds, and stock ponds.	Does not occur due to a lack of suitable habitat.
Vernal pool fairy shrimp Branchinecta lynchi	Federal: FT State: None	Seasonal vernal pools	Does not occur due to a lack of suitable habitat.
Fish			
Arroyo chub Gila orcutti	Federal: None State: SSC	Slow-moving or backwater sections of warm to cool streams with substrates of sand or mud.	Does not occur due to a lack of suitable habitat.
Santa Ana speckled dace Rhinichthys osculus ssp. 3	Federal: None State: SSC	Occurs in the 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 temperatures of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	Does not occur due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Santa Ana sucker Catostomus santaanae	Federal: FT State: SSC	Small, shallow streams, less than 7 meters in width, with currents ranging from swift in the canyons to sluggish in the bottom lands. Preferred substrates are generally coarse and consist of gravel, rubble, and boulders with growths of filamentous algae, but occasionally they are found on sand/mud substrates.	Does not occur due to a lack of suitable habitat.
Amphibians			
Arroyo toad Anaxyrus californicus	Federal: FE State: SSC	Breed, forage, and/or aestivate in aquatic habitats, riparian, coastal sage scrub, oak, and chaparral habitats. Breeding pools must be open and shallow with minimal current, and with a sand or pea gravel substrate overlain with sand or flocculent silt. Adjacent banks with sandy or gravely terraces and very little herbaceous cover for adult and juvenile foraging areas, within a moderate riparian canopy of cottonwood, willow, or oak.	Does not occur due to a lack of suitable habitat.
Coast Range newt Taricha torosa	Federal: None State: SSC	Found in wet forests, oak forests, chaparral, and rolling grasslands. In southern California, drier chaparral, oak woodland, and grasslands are used.	Does not occur due to a lack of suitable habitat.
Western spadefoot Spea hammondii	Federal: None State: SSC	Seasonal pools in coastal sage scrub, chaparral, and grassland habitats.	Does not occur due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Reptiles			
California mountain kingsnake (San Diego population) Lampropeltis zonata (pulchra)	Federal: None State: SSC	A habitat generalist, found in diverse habitats including coniferous forest, oak-pine woodlands, riparian woodland, chaparral, manzanita, and coastal sage scrub.	Low potential to occur in habitat located within adjoining the natural drainage feature.
Coast horned lizard Phrynosoma blainvillii	Federal: None State: SSC	Occurs in a variety of vegetation types including coastal sage scrub, chaparral, annual grassland, oak woodland, and riparian woodlands.	Low potential to occur in habitat located within adjoining the natural drainage feature.
Coast patch-nosed snake Salvadora hexalepis virgultea	Federal: None State: SSC	Occurs in coastal chaparral, desert scrub, washes, sandy flats, and rocky areas.	Low potential to occur in habitat located within adjoining the natural drainage feature.
Orangethroat whiptail Aspidoscelis hyperythra	Federal: None State: SSC	Coastal sage scrub, chaparral, non-native grassland, oak woodland, and juniper woodland.	Low potential to occur in habitat located within adjoining the natural drainage feature.
Red-diamond rattlesnake Crotalus ruber	Federal: None State: SSC	Habitats with heavy brush and rock outcrops, including coastal sage scrub and chaparral.	Low potential to occur in habitat located within adjoining the natural drainage feature.
Silvery legless lizard Anniella pulchra pulchra	Federal: None State: SSC	Occurs primarily in areas with sandy or loose organic soil, or where there is plenty of leaf litter. Associated with coastal sage scrub, chaparral, coastal dunes, valley/foothill grasslands, oak woodlands, and pine forests.	Low potential to occur in habitat located within adjoining the natural drainage feature.
Two-striped garter snake Thamnophis hammondii	Federal: None State: SSC	Aquatic snake typically associated with wetland habitats such as streams, creeks, and pools.	Does not occur due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Western pond turtle Emys marmorata	Federal: None State: SSC	Slow-moving permanent or intermittent streams, small ponds and lakes, reservoirs, abandoned gravel pits, permanent and ephemeral shallow wetlands, stock ponds, and treatment lagoons. Abundant basking sites and cover necessary, including logs, rocks, submerged vegetation, and undercut banks.	Low to moderate potential to occur within the perennial pond located southeast of Paseo Grande.
Birds		- Cums	
Bald eagle (nesting & wintering) Haliaeetus leucocephalus	Federal: Delisted State: SE, FP	Primarily in or near seacoasts, rivers, swamps, and large lakes. Perching sites consist of large trees or snags with heavy limbs or broken tops.	Not expected to occur on site due to a lack of suitable habitat.
Burrowing owl (burrow sites & some wintering sites) Athene cunicularia	Federal: BCC State: SSC	Shortgrass prairies, grasslands, lowland scrub, agricultural lands (particularly rangelands), coastal dunes, desert floors, and some artificial, open areas as a year-long resident. Occupies abandoned ground squirrel burrows as well as artificial structures such as culverts and underpasses.	Not detected during site reconnaissance. Moderate to high potential to occur on site due to the presence of suitable habitat, including suitable burrows.
Coastal cactus wren (San Diego & Orange County only) Campylorhynchus brunneicapillus sandiegensis	Federal: BCC State: SSC	Occurs almost exclusively in cactus (cholla and prickly pear) dominated coastal sage scrub.	Low potential to occur based on presence of scattered cactus patches.
Coastal California gnatcatcher Polioptila californica californica	Federal: FT State: SSC	Low elevation coastal sage scrub and coastal bluff scrub.	Low potential to occur within sage scrub vegetation adjacent to the natural drainage feature.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Golden eagle (nesting & wintering) Aquila chrysaetos	Federal: BCC State: WL, FP	In southern California, occupies grasslands, brushlands, deserts, oak savannas, open coniferous forests, and montane valleys. Nests on rock outcrops and ledges.	Not expected to occur due to a lack of suitable habitat.
Grasshopper sparrow (nesting) Ammodramus savannarum	Federal: None State: SSC	Open grassland and prairies with patches of bare ground.	Not expected to occur due to a lack of suitable habitat.
Least Bell's vireo (nesting) Vireo bellii pusillus	Federal: FE State: SE	Dense riparian habitats with a stratified canopy, including southern willow scrub, mule fat scrub, and riparian forest.	Low to moderate potential to occur in areas of riparian habitat, particularly at the pond southeast of Paseo Grande and within the natural drainage feature.
Long-eared owl (nesting) Asio otus	Federal: None State: SSC	Riparian habitats are required by the long-eared owl, but it also uses live-oak thickets and other dense stands of trees.	Not expected to occur due to a lack of suitable habitat.
Southwestern willow flycatcher (nesting) Empidonax traillii extimus	Federal: FE State: SE	Riparian woodlands along streams and rivers with mature dense thickets of trees and shrubs.	Not expected to occur due to a lack of suitable habitat.
Swainson's hawk (nesting) Buteo swainsoni	Federal: BCC State: ST	Summer in wide open spaces of the American West. Nest in grasslands, but can use sage flats and agricultural lands. Nests are placed in lone trees.	Not expected to occur due to a lack of suitable habitat.
Tricolored blackbird (nesting colony) Agelaius tricolor	Federal: BCC State: Candidate Endangered	Breeding colonies require nearby water, a suitable nesting substrate, and open-range foraging habitat of natural grassland, woodland, or agricultural cropland.	Low potential to occur near the pond southeast of Paseo Grande.
Western yellow-billed cuckoo (nesting) Coccyzus americanus occidentalis	Federal: FT, BCC State: SE	Dense, wide riparian woodlands with well-developed understories.	Not expected to occur due to a lack of suitable habitat.

Species Name	Status	Habitat Requirements	Potential for Occurrence
White-tailed kite (nesting) Elanus leucurus	Federal: None State: FP	Low elevation open grasslands, savannah-like habitats, agricultural areas, wetlands, and oak woodlands. Dense canopies used for nesting and cover.	Low potential to occur at the site.
Yellow-breasted chat (nesting) Icteria virens	Federal: None State: SSC	Dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush with well-developed understories.	Low to moderate potential to occur at the site.
Yellow warbler (nesting) Setophaga petechia	Federal: BCC State: SSC	Breed in lowland and foothill riparian woodlands dominated by cottonwoods, alders, or willows and other small trees and shrubs typical of low, open-canopy riparian woodland. During migration, forages in woodland, forest, and shrub habitats.	Moderate potential to occur at the site.
Mammals	<u> </u>		
Big free-tailed bat Nyctinomops macrotis	Federal: None State: SSC	Roost mainly in crevices and rocks in cliff situations; also utilize buildings, caves, and tree cavities.	Low potential to occur.
Los Angeles pocket mouse Perognathus longimembris brevinasus	Federal: None State: SSC	Fine, sandy soils in coastal sage scrub and grasslands.	Not expected to occur due to a lack of suitable habitat.
Northwestern San Diego pocket mouse Chaetodipus fallax fallax	Federal: None State: SSC	Coastal sage scrub, sage scrub/grassland ecotones, and chaparral.	Low to moderate potential to occur within the limited areas of coastal sage scrub on site.
Pallid bat Antrozous pallidus	Federal: None State: SSC	Deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting.	Low potential to occur.

Species Name	Status	Habitat Requirements	Potential for Occurrence
Pocketed free-tailed bat Nyctinomops femorosaccus	Federal: None State: SSC	Rocky areas with high cliffs in pine-juniper woodlands, desert scrub, palm oasis, desert wash, and desert riparian.	Not expected to occur due to a lack of suitable habitat.
San Bernardino kangaroo rat Dipodomys merriami parvus	Federal: FE State: SSC	Typically found in Riversidean alluvial fan sage scrub and sandy loam soils, alluvial fans and floodplains, and along washes with nearby sage scrub.	Not expected to occur due to a lack of suitable habitat.
San Diego black-tailed jackrabbit Lepus californicus bennettii	Federal: None State: SSC	Occupies a variety of habitats, but is most common among shortgrass habitats. Also occurs in sage scrub, but needs open habitats.	Not expected to occur due to a lack of suitable habitat.
San Diego desert woodrat Neotoma lepida intermedia	Federal: None State: SSC	Occurs in a variety of shrub and desert habitats, primarily associated with rock outcrops, boulders, cacti, or areas of dense undergrowth.	Low to medium potential to occur.
Stephens' kangaroo rat Dipodomys stephensi	Federal: FE State: ST	Open grasslands or sparse shrublands with less than 50% vegetation cover during the summer.	Low potential to occur.
Western mastiff bat Eumops perotis californicus	Federal: None State: SSC	Occurs in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, and chaparral. Roosts in crevices in cliff faces, high buildings, trees, and tunnels.	Low potential to occur.
Western yellow bat Lasiurus xanthinus	Federal: None State: SSC	Found in valley foothill riparian, desert riparian, desert riparian, desert wash, and palm oasis habitats. Roosts in trees, particularly palms. Forages over water and among trees.	Low potential to occur.

			Potential for
Species Name	Status	Habitat Requirements	Occurrence
Yuma Myotis	Federal: None	Optimal habitats are open	Low potential to occur.
Myotis yumanensis	State: None	forests and woodlands with	
		sources of water over	
		which to feed. Distribution	
		is closely tied to bodies of	
		water. Maternity colonies	
		in caves, mines, buildings	
		or crevices.	

The subject property has the potential to support a number of special-status animal species, thought the majority would not be considered as a constraint to development, if present. The majority of potential species occurrences would be associated with the natural drainage feature located in the southern portion of the property, with some potential occurrences within riparian habitat associated with the pond located near Paseo Grande and potentially within the other remnant ponds.

Portions of the property have the potential to support federally and/or state listed species, including the coastal California gnatcatcher (CAGN), least Bell's vireo (LBV), southwestern willow flycatcher (SWWF), and Stephens' kangaroo rat (SKR). Impacts to the CAGN and SKR are covered under the MSHCP (CAGN) and the SKR Habitat Conservation Plan, and do not have any survey requirements pursuant to those plans.

Impacts to LBV and SWWF are covered under the MSHCP provided that certain conditions are met. Within areas of suitable habitat that cannot be avoided by a development project, focused surveys would be required pursuant to the MSHCP for both LBV and SWWF following accepted protocols. The LBV survey protocol requires eight survey visits conducted between April 10th and July 31st. The SWWF protocol requires five survey visits conducted over three survey periods between May 15th and July 17th. Areas with some potential to support both species include riparian habitat within the natural drainage feature in southern portion of the property, and adjacent to the pond located near Paseo Grande. If either species is detected within the property then the species requires 90 percent avoidance of the occupied habitat. If the habitat cannot be avoided, then the impacts must be mitigated and a Determination of Biologically Equivalent or Superior Preservation must be approved by CDFW and USFWS.

In addition to the listed species, the property has some potential to support a number of non-listed, special-status species. Of the non-listed species, only the burrowing owl would represent a potential (seasonal) constraint to development. The property is not located within the MSHCP burrowing owl survey area, and therefore focused surveys/conservation would not be required by the MSHCP for the burrowing owl. However, since the burrowing owl still has the potential to

occur at the property, the owl would represent a seasonal constraint to development since burrowing owls would need to be relocated from the property following accepted protocols. If the site were to support nesting owls, then areas supporting nesting owls would have to be avoided until the completion of the nesting season (approximately August 31st). A preconstruction burrowing owl survey is recommended no more than 30 days prior to grading to confirm the presence/absence of owls.

3.4 **Special-Status Habitats**

A review of the January 2016 CNDDB identified the following special-status habitats as occurring within the vicinity or the property: California Walnut Woodland, Riversidean Alluvial Fan Sage Scrub, Southern California Arroyo Chub/Santa Ana Sucker Stream, Southern Coast Live Oak Riparian Forest, Southern Cottonwood Willow Riparian Forest, Southern Interior Cypress Forest, Southern Riparian Forest, Southern Riparian Scrub, Southern Sycamore Alder Riparian Woodland, and Southern Willow Scrub. Portions of the property support riparian scrub habitats, specifically within the natural drainage feature and in/around the golf course ponds. However, no other special-status habitats occur at the site.

3.5 **Nesting Birds**

The property contains vegetation (trees, shrubs, and herbaceous vegetation) with the potential to support nesting birds. Impacts to nesting birds are prohibited under the Migratory Bird Treaty Act and California Fish and Game Code.⁴ The presence of vegetation with the potential to support nesting birds may represent a seasonal constraint to development if not removed at appropriate time of the year. If vegetation must be removed during the nesting season (February 1 through August 31, January 1 for raptors), a nesting bird survey should be conducted prior to any removals to prevent any impacts to active nests. If active nests are identified onsite, then adequate buffers should be provided around the nests, as determined by a qualified biologist, until the nests are no longer active.

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⁴ The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 C.F.R. Part 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 C.F.R.21). In addition, sections 3505, 3503.5, and 3800 of the California Department of Fish and Game Code prohibit the take, possession, or destruction of birds, their nests or eggs.

3.6 Jurisdictional Waters

The property contains potential waters subject to the jurisdictions of the Corps, Regional Board, and CDFW. Specifically, a natural drainage feature is located in the southern portion of the property [Exhibit 4 – Potential Jurisdictional Waters]. The acreages discussed in this section are just estimates based on the single reconnaissance visit. A formal jurisdictional delineation would be required to document the extent of jurisdictional waters at the property. Approximately 0.20 acre of potential Corps/Regional Board jurisdiction is associated with the drainage feature, none of which appears to support jurisdictional wetlands. The channel is approximately five feet wide on average and approximately 1,500 linear feet in length. Impacts to the drainage feature would require a Clean Water Act (CWA) Section 404 permit from the Corps and a Section 401 Water Quality Certification from the Regional Board. Mitigation would also be required to compensate the loss of Corps/Regional Board jurisdiction.

Approximately 0.25 acre of potential CDFW jurisdiction is associated with the drainage feature, including riparian vegetation. Impacts to CDFW jurisdiction would require a Section 1602 Streambed Alteration Agreement from CDFW. As with the Corps/Regional Board impacts, mitigation would be required to compensate the loss of CDFW jurisdiction.

The natural drainage feature is also considered as riparian/riverine area as defined by the MSHCP. Pursuant to *Volume I*, *Section 6.1.2* of the MSHCP, avoidance alternatives must first be considered for riparian/riverine areas. If 100 percent avoidance is infeasible, then mitigation must be provided subject to the approval of a DBESP. The approximate amount of MSHCP riparian/riverine areas associated with the drainage feature is expected to be the same as that of CDFW jurisdiction (approximately 0.25 acre). Mapping of MSHCP riparian/riverine areas would be required at part of biological studies performed for the property.

Besides the natural drainage feature, the golf course property contains at least three pond features that support riparian vegetation, including one feature that is actively ponded, and two that are dry but that still support remnant trees and shrubs. However, due to their artificial nature, the ponds would not be considered jurisdictional waters or MSHCP riparian/riverine areas.

Finally, the overall golf course property generally drains to the north/northwest, with culverts under the roads that bisect the golf course fairways, and a culvert under the 91 Freeway. During rainfall events, water sheet flows through portions of the golf course property generally to the north/northwest. As a result, there are areas where flows have created small, incised erosional segments that provide evidence of such flows. Since these golf course areas do not contain defined, created channels, these erosional features should not be considered as jurisdictional waters or MSHCP riverine areas. However, the extent of flows should be documented in a formal delineation of the property, and it is recommended that the regulatory agencies verify the

lack of jurisdiction in these areas, particularly if permits will be required to impact the natural drainage feature located in the southern portion of the property.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The Mountain View Golf Course property contains several potential constraints to development, some of which would only represent a seasonal constraint to development. Potential constraints include potential jurisdictional waters and MSHCP riparian/riverine areas; potential habitat for least Bell's vireo, southwestern willow flycatcher, and burrowing owl; and nesting bird habitat.

As noted above, the property contains potential jurisdictional waters, including MSHCP riparian/riverine areas. A formal delineation would be required to document the full extent of jurisdictional waters at the property. Impacts to waters of the U.S. (i.e. Corps jurisdiction) would require a CWA Section 404 permit from the Corps and a Section 401 Water Quality Certification from the Regional Board. Impacts to CDFW jurisdiction would require a Section 1602 Streambed Alteration Agreement from CDFW. Unavoidable impacts to MSHCP riparian/riverine areas would require the approval of a DBESP by the wildlife agencies (USFWS and CDFW). Mitigation would be required to compensate the loss of jurisdictional waters and MSHCP riparian/riverine areas.

The property contains habitat with some potential to support the least Bell's vireo (LBV) and the southwestern willow flycatcher (SWWF). Pursuant to MSHCP requirements, if potential habitat cannot be avoided, then focused surveys must be performed pursuant to accepted protocols. If LBV and/or SWWF were determined to be present, and that habitat could not be sufficiently avoided, then the unavoidable impacts must be approved pursuant to the DBESP process, and mitigation would be required as part of the DBESP.

The property contains habitat with the potential to support burrowing owls. Since the property is not located within the MSHCP burrowing owl survey area, focused surveys and conservation would not be required per the MSHCP for the burrowing owl. However, if present at the property, burrowing owls must be properly relocated following accepted protocols prior to grading or other activities that may collapse burrows supporting owls. If burrowing owls were to nest at the property, then those portions supporting nesting owls must be avoided until the completion of the breeding season (approximately the end of August to September). Furthermore, the relocation of owls would likely require the approval of CDFW. Preconstruction burrowing owl surveys should be performed no more than 30 days prior to the initiation of grading or other activities that may impact owls. In order to avoid potential seasonal delays with owls, it is recommended to initiate construction activities during the non-breeding season (September 1 through January 31).

The property contains vegetation (trees, shrubs, and herbaceous vegetation) with the potential to support nesting birds. If vegetation must be removed during the nesting season (February 1 through August 31, January 1 for raptors), then a nesting bird survey should be conducted prior to vegetation removal in order to prevent impacts to active nests. If active nests are identified within or adjacent to the construction area, then adequate buffers should be provided around the nests, as determined by a qualified biologist, until the nests are no longer active.

If you have any questions regarding this report, please call me at (949) 837-0404, ext. 42.

Sincerely,

GLENN LUKOS ASSOCIATES, INC.

Cavil 7. Monty

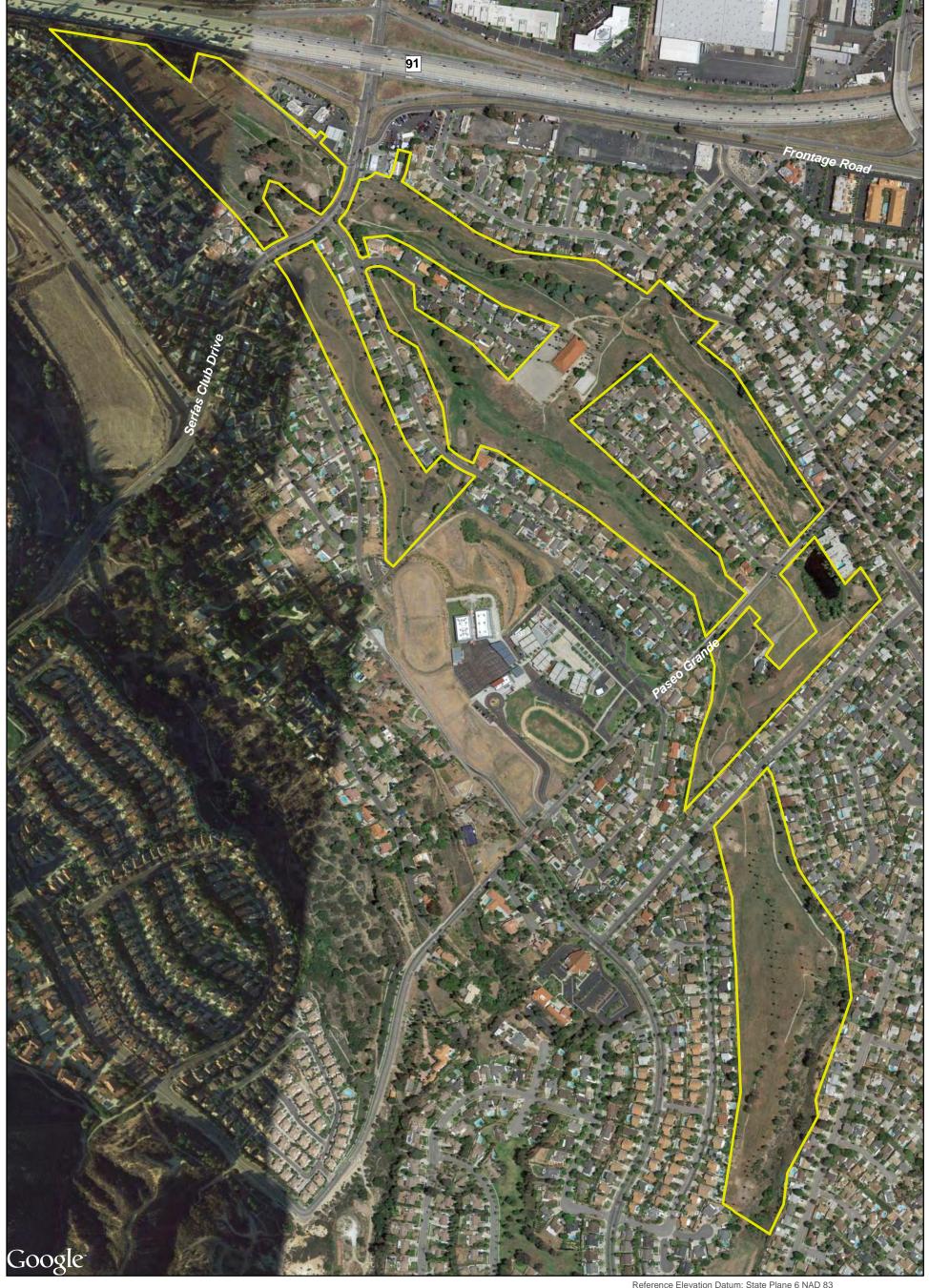
David F. Moskovitz

Senior Biologist/Regulatory Specialist

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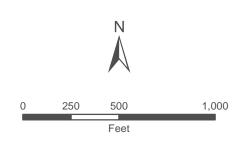
Exhibit 2

Vicinity Map









Reference Elevation Datum: State Plane 6 NAD 83 Map Prepared by: XXXXXX, GLA Date Prepared: October 11, 2016

MOUNTAIN VIEW GOLF COURSE PROPERTY

Aerial Map

GLENN LUKOS ASSOCIATES



Photograph 1: View looking west near the northern half of Area A. The 91 Freeway is depicted in the far right of the photograph.



Photograph 3: View looking at an erosional feature which leads into the dry pond depicted in photograph 2.



Photograph 2: View looking at a dry pond located northeast of Area D.

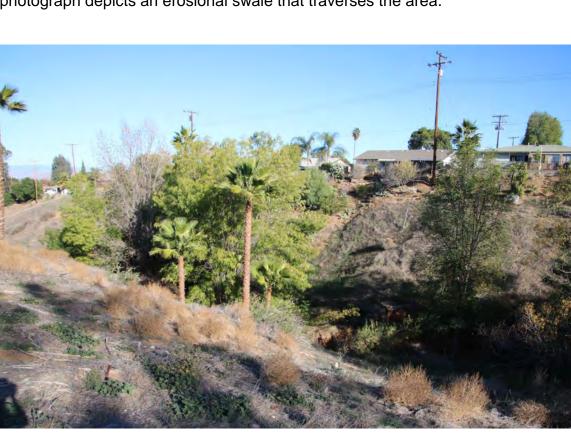


Photograph 4: View looking northeast at the southwestern extent of Area D.





Photograph 6: View looking near the southern limit of Area C. The photograph depicts an erosional swale that traverses the area.



Photograph 8: View looking north from the southernmost limit of the Project site within Area A.



Photograph 5: View looking at a perennial pond located near the northern extent of Area C.



Photograph 7: View looking north depicting the natural drainage feature located in the southernmost part of the property.



GLENN LUKOS ASSOCIATES

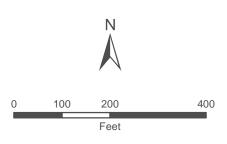
IN VIEW GOLF COURSE





Project Boundary

Potential Jurisdictional Feature



Reference Elevation Datum: State Plane 6 NAD 83 Map Prepared by: C. Lukos, GLA Date Prepared: February 5, 2016

MOUNTAIN VIEW GOLF COURSE PROPERTY

Potential Jurisdictional Waters Map





C.2 - IPaC Database Resul
C.2 II de Database Resul



IPaC

U.S. Fish & Wildlife Service

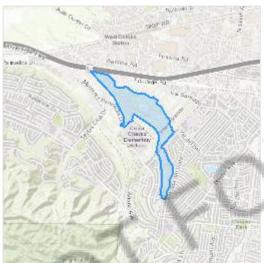
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Riverside County, California



Local office

Carlsbad Fish And Wildlife Office

(760) 431-9440

(760) 431-5901

2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385

http://www.fws.gov/carlsbad/

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA</u> <u>Fisheries</u> for <u>species under their jurisdiction</u>.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

Stephens' Kangaroo Rat Dipodomys stephensi (incl. D. cascus)

Endangered

Wherever found

No critical habitat has been designated for this species.

http://ecos.fws.gov/ecp/species/3495

Birds

NAME

Coastal California Gnatcatcher Polioptila californica californica

Threatened

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/8178

Least Bell's Vireo Vireo bellii pusillus

Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/5945

Southwestern Willow Flycatcher Empidonax traillii extimus

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/6749

Endangered

Amphibians

NAME **STATUS**

Arroyo (=arroyo Southwestern) Toad Anaxyrus californicus

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/3762

Endangered

Fishes

NAMF

Santa Ana Sucker Catostomus santaanae

There is final critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/3785

Threatened

Insects

NAME **STATUS**

Monarch Butterfly Danaus plexippus

Wherever found

No critical habitat has been designated for this species.

http://ecos.fws.gov/ecp/species/9743

Candidate

Quino Checkerspot Butterfly Euphydryas editha quino (=E. e. wrighti)

Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/5900

Flowering Plants

NAME STATUS

San Diego Ambrosia Ambrosia pumila

Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/8287

Santa Ana River Woolly-star Eriastrum densifolium ssp. sanctorum

Wherever found

No critical habitat has been designated for this species.

http://ecos.fws.gov/ecp/species/6575

Endangered

Santa Monica Mountains Dudleyea Dudleya cymosa ssp. ovatifolia

Wherever found

No critical habitat has been designated for this species.

http://ecos.fws.gov/ecp/species/2538

Threatened

Thread-leaved Brodiaea Brodiaea filifolia

Threatened

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

http://ecos.fws.gov/ecp/species/6087

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act $\frac{1}{2}$ and the Bald and Golden Eagle Protection Act $\frac{2}{2}$.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/
 conservation-measures.php
- Nationwide conservation measures for birds
 http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the

relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING
SEASON IS INDICATED FOR A BIRD ON
YOUR LIST, THE BIRD MAY BREED IN YOUR
PROJECT AREA SOMETIME WITHIN THE
TIMEFRAME SPECIFIED, WHICH IS A VERY
LIBERAL ESTIMATE OF THE DATES INSIDE
WHICH THE BIRD BREEDS ACROSS ITS
ENTIRE RANGE. "BREEDS ELSEWHERE"
INDICATES THAT THE BIRD DOES NOT
LIKELY BREED IN YOUR PROJECT AREA.)

Allen's Hummingbird Selasphorus sasin

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

http://ecos.fws.gov/ecp/species/9637

Breeds Feb 1 to Jul 15

California Thrasher Toxostoma redivivum

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Nuttall's Woodpecker Picoides nuttallii

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA http://ecos.fws.gov/ecp/species/9410

Breeds Jan 1 to Jul 31

Breeds Apr 1 to Jul 20

Oak Titmouse Baeolophus inornatus

Breeds Mar 15 to Jul 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

http://ecos.fws.gov/ecp/species/9656

Wrentit Chamaea fasciata

Breeds Mar 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

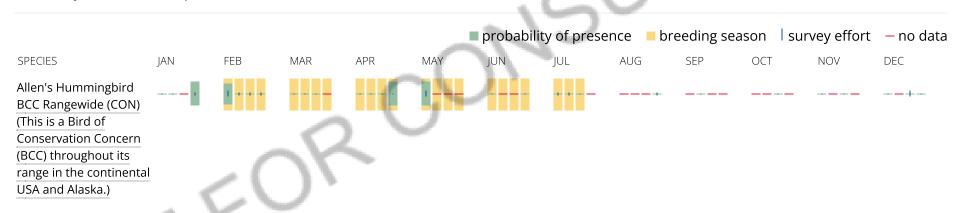
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

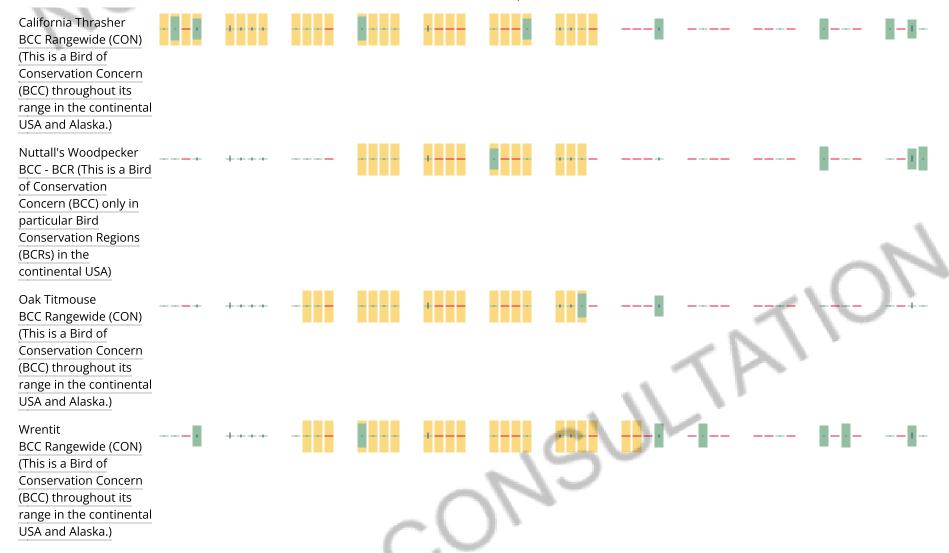
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore

energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER POND

PUBHx PABHx A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

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

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

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

Data exclusions

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

Data precautions

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



Riverside County Planning Department—Trails at Corona Draft EIR	
·	
	C.3 - CNDDB Topo Quad Map Results
	olo oli del l'opo Quan map motanto





California Department of Fish and Wildlife California Natural Diversity Database



Query Criteria:

Quad IS (Corona South (3311775) OR Black Star Canyon (3311776) OR Prado Dam (3311786) OR Riverside West (3311784) OR Corona North (3311785) OR El Toro (3311766) OR Santiago Peak (3311765) OR Alberhill (3311764))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Abronia villosa var. aurita	PDNYC010P1	None	None	G5T2?	S2	1B.1
chaparral sand-verbena						
Accipiter cooperii	ABNKC12040	None	None	G5	S4	WL
Cooper's hawk						
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
Aimophila ruficeps canescens southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
Allium marvinii	PMLIL02330	None	None	G1	S1	1B.2
Yucaipa onion Allium munzii Munz's onion	PMLIL022Z0	Endangered	Threatened	G1	S1	1B.1
Ambrosia pumila San Diego ambrosia	PDAST0C0M0	Endangered	None	G1	S1	1B.1
Ammodramus savannarum grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
Anaxyrus californicus arroyo toad	AAABB01230	Endangered	None	G2G3	S2S3	SSC
Anniella stebbinsi Southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Aquila chrysaetos golden eagle	ABNKC22010	None	None	G5	S3	FP
Arizona elegans occidentalis California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
Artemisiospiza belli belli Bell's sage sparrow	ABPBX97021	None	None	G5T2T3	S3	WL
Asio otus long-eared owl	ABNSB13010	None	None	G5	S3?	SSC
Aspidoscelis hyperythra orange-throated whiptail	ARACJ02060	None	None	G5	S2S3	WL
Aspidoscelis tigris stejnegeri coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
Astragalus brauntonii Braunton's milk-vetch	PDFAB0F1G0	Endangered	None	G2	S2	1B.1





Species	Florent Oct	Endorel Status	State Status	Clobal Paul	State Deal	Rare Plant Rank/CDFW
Species Athene cunicularia	ABNSB10010	Federal Status None	State Status None	Global Rank G4	State Rank	SSC or FP
burrowing owl	ADNOBIUUIU	None	None	G4	53	330
	PDCHE040E0	None	None	G3	S1S2	1B.2
Atriplex coulteri Coulter's saltbush	PDCHE040E0	None	None	GS	3132	10.2
Baccharis malibuensis	PDAST0W0W0	None	None	G1	S1	1B.1
Malibu baccharis	PDASTOWOWO	None	None	Gi	31	ID.I
Bombus crotchii	IIHYM24480	None	None	G3G4	S1S2	
Crotch bumble bee	III I I IVIZ 4400	None	None	0004	0102	
Branchinecta sandiegonensis	ICBRA03060	Endangered	None	G2	S2	
San Diego fairy shrimp	IODI(A03000	Lildarigered	None	02	02	
Brodiaea filifolia	PMLIL0C050	Threatened	Endangered	G2	S2	1B.1
thread-leaved brodiaea	T WEILOCOSO	Tilleaterieu	Lildarigered	02	02	10.1
Buteo regalis	ABNKC19120	None	None	G4	S3S4	WL
ferruginous hawk	ADMICISTED	None	None	04	0004	VVL
Buteo swainsoni	ABNKC19070	None	Threatened	G5	S3	
Swainson's hawk	ABINIO 13070	None	Tilleateried	G 5	00	
California Walnut Woodland	CTT71210CA	None	None	G2	S2.1	
California Walnut Woodland	0117121007	None	None	02	02.1	
Calochortus plummerae	PMLIL0D150	None	None	G4	S4	4.2
Plummer's mariposa-lily				.	•	
Calochortus weedii var. intermedius	PMLIL0D1J1	None	None	G3G4T2	S3	1B.2
intermediate mariposa-lily						
Calystegia felix	PDCON040P0	None	None	G1Q	S1	1B.1
lucky morning-glory						
Campylorhynchus brunneicapillus sandiegensis	ABPBG02095	None	None	G5T3Q	S3	SSC
coastal cactus wren						
Canyon Live Oak Ravine Forest	CTT61350CA	None	None	G3	S3.3	
Canyon Live Oak Ravine Forest						
Catostomus santaanae	AFCJC02190	Threatened	None	G1	S1	
Santa Ana sucker						
Centromadia pungens ssp. laevis	PDAST4R0R4	None	None	G3G4T2	S2	1B.1
smooth tarplant						
Ceratochrysis longimala	IIHYM71040	None	None	G1	S1	
Desert cuckoo wasp						
Chaetodipus fallax fallax	AMAFD05031	None	None	G5T3T4	S3S4	SSC
northwestern San Diego pocket mouse						
Charadrius nivosus nivosus	ABNNB03031	Threatened	None	G3T3	S2	SSC
western snowy plover						
Chorizanthe parryi var. fernandina	PDPGN040J1	None	Endangered	G2T1	S1	1B.1
San Fernando Valley spineflower						
Chorizanthe parryi var. parryi	PDPGN040J2	None	None	G3T2	S2	1B.1
Parry's spineflower						





		.	a. . c	a ·	.	Rare Plant Rank/CDFW
Species Charitan and American Inc.	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Chorizanthe polygonoides var. longispina long-spined spineflower	PDPGN040K1	None	None	G5T3	S3	1B.2
	ADNIZC44044	Nana	Nana	CE	CO	000
Circus hudsonius northern harrier	ABNKC11011	None	None	G5	S3	SSC
	DDI AMOROZO	Nana	None	G3	S2	1B.2
Clinopodium chandleri San Miguel savory	PDLAM08030	None	None	G3	32	ID.Z
Coccyzus americanus occidentalis	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
western yellow-billed cuckoo	ADIVINDUZUZZ	Tilleaterieu	Lindarigered	031213	31	
Coleonyx variegatus abbotti	ARACD01031	None	None	G5T5	S1S2	SSC
San Diego banded gecko	ANACDOTOST	None	None	0313	0102	330
Comarostaphylis diversifolia ssp. diversifolia	PDERI0B011	None	None	G3T2	S2	1B.2
summer holly	TELNIOBOTT	None	None	0312	02	10.2
Coturnicops noveboracensis	ABNME01010	None	None	G4	S1S2	SSC
yellow rail	ABININEOTOTO	None	None	04	0102	000
Crotalus ruber	ARADE02090	None	None	G4	S3	SSC
red-diamond rattlesnake	,			0.		
Dipodomys merriami parvus	AMAFD03143	Endangered	Candidate	G5T1	S1	SSC
San Bernardino kangaroo rat			Endangered			
Dipodomys stephensi	AMAFD03100	Endangered	Threatened	G2	S2	
Stephens' kangaroo rat		· ·				
Dodecahema leptoceras	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
slender-horned spineflower		_	_			
Dudleya multicaulis	PDCRA040H0	None	None	G2	S2	1B.2
many-stemmed dudleya						
Dudleya viscida	PDCRA040T0	None	None	G2	S2	1B.2
sticky dudleya						
Elanus leucurus	ABNKC06010	None	None	G5	S3S4	FP
white-tailed kite						
Empidonax traillii extimus	ABPAE33043	Endangered	Endangered	G5T2	S1	
southwestern willow flycatcher						
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Eremophila alpestris actia	ABPAT02011	None	None	G5T4Q	S4	WL
California horned lark						
Eriastrum densifolium ssp. sanctorum Santa Ana River woollystar	PDPLM03035	Endangered	Endangered	G4T1	S1	1B.1
Eugnosta busckana	IILEM2X090	None	None	G1G3	SH	
Busck's gallmoth						
Eumops perotis californicus	AMACD02011	None	None	G4G5T4	S3S4	SSC
western mastiff bat						
Euphydryas editha quino	IILEPK405L	Endangered	None	G5T1T2	S1S2	
quino checkerspot butterfly						





Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Gila orcuttii	AFCJB13120	None	None	G2	S2	SSC
arroyo chub				_		
Haliaeetus leucocephalus	ABNKC10010	Delisted	Endangered	G5	S3	FP
bald eagle			3			
Harpagonella palmeri	PDBOR0H010	None	None	G4	S3	4.2
Palmer's grapplinghook						
Hesperocyparis forbesii	PGCUP040C0	None	None	G2	S2	1B.1
Tecate cypress						
Horkelia cuneata var. puberula	PDROS0W045	None	None	G4T1	S1	1B.1
mesa horkelia						
cteria virens	ABPBX24010	None	None	G5	S3	SSC
yellow-breasted chat						
Lasiurus xanthinus	AMACC05070	None	None	G4G5	S3	SSC
western yellow bat						
Lasthenia glabrata ssp. coulteri	PDAST5L0A1	None	None	G4T2	S2	1B.1
Coulter's goldfields						
Laterallus jamaicensis coturniculus	ABNME03041	None	Threatened	G3G4T1	S1	FP
California black rail						
Lepechinia cardiophylla	PDLAM0V020	None	None	G3	S2S3	1B.2
heart-leaved pitcher sage						
Lepidium virginicum var. robinsonii	PDBRA1M114	None	None	G5T3	S3	4.3
Robinson's pepper-grass						
Lepus californicus bennettii	AMAEB03051	None	None	G5T3T4	S3S4	SSC
San Diego black-tailed jackrabbit						
Monardella australis ssp. jokerstii	PDLAM18112	None	None	G4T1?	S1?	1B.1
Jokerst's monardella						
Monardella hypoleuca ssp. intermedia	PDLAM180A4	None	None	G4T2?	S2?	1B.3
intermediate monardella						
Monardella macrantha ssp. hallii	PDLAM180E1	None	None	G5T3	S3	1B.3
Hall's monardella						
Myotis yumanensis	AMACC01020	None	None	G5	S4	
Yuma myotis						
Nama stenocarpa	PDHYD0A0H0	None	None	G4G5	S1S2	2B.2
mud nama						
Neolarra alba	IIHYM81010	None	None	GH	SH	
white cuckoo bee						
Neotoma lepida intermedia	AMAFF08041	None	None	G5T3T4	S3S4	SSC
San Diego desert woodrat	5 144 6 4 6 6 7 5				0.0	
Nolina cismontana	PMAGA080E0	None	None	G3	S3	1B.2
chaparral nolina	AAAA OD 0 40 40	Nama	Name:	0.5	00	000
Nyctinomops femorosaccus	AMACD04010	None	None	G5	S3	SSC
pocketed free-tailed bat						





Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Oncorhynchus mykiss irideus pop. 10	AFCHA0209J	Endangered	None	G5T1Q	S1	
steelhead - southern California DPS		3				
Onychomys torridus ramona	AMAFF06022	None	None	G5T3	S3	SSC
southern grasshopper mouse						
Pandion haliaetus	ABNKC01010	None	None	G5	S4	WL
osprey						
Penstemon californicus	PDSCR1L110	None	None	G3	S2	1B.2
California beardtongue						
Pentachaeta aurea ssp. allenii	PDAST6X021	None	None	G4T1	S1	1B.1
Allen's pentachaeta						
Phacelia keckii	PDHYD0C4G1	None	None	G1	S1	1B.3
Santiago Peak phacelia						
Phacelia stellaris	PDHYD0C510	None	None	G1	S1	1B.1
Brand's star phacelia						
Phrynosoma blainvillii	ARACF12100	None	None	G3G4	S3S4	SSC
coast horned lizard						
Plegadis chihi	ABNGE02020	None	None	G5	S3S4	WL
white-faced ibis						
Polioptila californica californica	ABPBJ08081	Threatened	None	G4G5T3Q	S2	SSC
coastal California gnatcatcher						
Pseudognaphalium leucocephalum	PDAST440C0	None	None	G4	S2	2B.2
white rabbit-tobacco						
Rhinichthys osculus ssp. 8	AFCJB3705K	None	None	G5T1	S1	SSC
Santa Ana speckled dace						
Riversidian Alluvial Fan Sage Scrub	CTT32720CA	None	None	G1	S1.1	
Riversidian Alluvial Fan Sage Scrub						
Salvadora hexalepis virgultea	ARADB30033	None	None	G5T4	S2S3	SSC
coast patch-nosed snake						
Senecio aphanactis	PDAST8H060	None	None	G3	S2	2B.2
chaparral ragwort						
Setophaga petechia	ABPBX03010	None	None	G5	S3S4	SSC
yellow warbler						
Sidalcea neomexicana	PDMAL110J0	None	None	G4	S2	2B.2
salt spring checkerbloom						
Southern California Arroyo Chub/Santa Ana Sucker Stream	CARE2330CA	None	None	GNR	SNR	
Southern California Arroyo Chub/Santa Ana Sucker Stream						
Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
Southern Coast Live Oak Riparian Forest						
Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
Southern Cottonwood Willow Riparian Forest						
Southern Interior Cypress Forest	CTT83230CA	None	None	G2	S2.1	
Southern Interior Cypress Forest						



California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Southern Riparian Forest	CTT61300CA	None	None	G4	S4	
Southern Riparian Forest						
Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
Southern Riparian Scrub						
Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Sycamore Alder Riparian Woodland						
Southern Willow Scrub	CTT63320CA	None	None	G3	S2.1	
Southern Willow Scrub						
Spea hammondii	AAABF02020	None	None	G2G3	S3	SSC
western spadefoot						
Spinus lawrencei	ABPBY06100	None	None	G3G4	S4	
Lawrence's goldfinch						
Streptocephalus woottoni	ICBRA07010	Endangered	None	G1G2	S1S2	
Riverside fairy shrimp						
Symphyotrichum defoliatum	PDASTE80C0	None	None	G2	S2	1B.2
San Bernardino aster						
Taricha torosa	AAAAF02032	None	None	G4	S4	SSC
Coast Range newt						
Thamnophis hammondii	ARADB36160	None	None	G4	S3S4	SSC
two-striped gartersnake						
Tortula californica	NBMUS7L090	None	None	G2G3	S2?	1B.2
California screw moss						
Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Needlegrass Grassland						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S2	
least Bell's vireo						

Record Count: 115

Draft EIR	
	C.4 - CNPS Inventory Topo Quad Map Results



Inventory of Rare and Endangered Plants of California



Search Results

66 matches found. Click on scientific name for details

Search Criteria: Quad is one of [3311775:3311786:3311774:3311784:3311776:3311766:3311765:3311764]

▲ SCIENTIFIC NAME Abronia villosa var. aurita	COMMON NAME chaparral sand-verbena	FAMILY Nyctaginaceae	LIFEFORM annual herb	FED LIST None	STATE LIST None	RANK	GENERAL HABITATS Chaparral, Coastal scrub, Desert dunes	MICRO HABITATS Sandy	LOWEST ELEVATION (FT)	HIGHEST ELEVATION (FT) 5250	BLOOMING PERIOD (Jan)Mar- Sep
Allium marvinii	Yucaipa onion	Alliaceae	perennial bulbiferous herb	None	None	1B.2	Chaparral		2495	3495	Apr-May
<u>Allium munzii</u>	Munz's onion	Alliaceae	perennial bulbiferous herb	FE	CT	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Pinyon and juniper woodland, Valley and foothill grassland	Clay, Mesic	975	3510	Mar-May
<u>Ambrosia pumila</u>	San Diego ambrosia	Asteraceae	perennial rhizomatous herb	FE	None	1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools	Alkaline (sometimes), Clay (sometimes), Disturbed areas (often), Sandy (sometimes)		1360	Apr-Oct
<u>Asplenium</u> <u>vespertinum</u>	western spleenwort	Aspleniaceae	perennial rhizomatous herb	None	None	4.2	Chaparral, Cismontane woodland, Coastal scrub	Rocky	590	3280	Feb-Jun
<u>Astragalus</u> <u>brauntonii</u>	Braunton's milk-vetch	Fabaceae	perennial herb	FE	None	1B.1	Chaparral, Coastal scrub, Valley and foothill grassland		15	2100	Jan-Aug

<u>Atriplex coulteri</u>	Coulter's saltbush	Chenopodiaceae	perennial herb	None	None	1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland	Alkaline (sometimes), Clay (sometimes)	10	1510	Mar-Oct
<u>Baccharis</u> <u>malibuensis</u>	Malibu baccharis	Asteraceae	perennial deciduous shrub	None	None	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland		490	1000	Aug
<u>Brodiaea filifolia</u>	thread-leaved brodiaea	Themidaceae	perennial bulbiferous herb	FT	CE	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools	Clay (often)	80	3675	Mar-Jun
<u>Calandrinia</u> <u>breweri</u>	Brewer's calandrinia	Montiaceae	annual herb	None	None	4.2	Chaparral, Coastal scrub	Burned areas, Disturbed areas, Loam (sometimes), Sandy (sometimes)	35	4005	(Jan)Mar- Jun
<u>Calochortus</u> <u>catalinae</u>	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	None	None	4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland		50	2295	(Feb)Mar- Jun
<u>Calochortus</u> <u>plummerae</u>	Plummer's mariposa-lily	Liliaceae	perennial bulbiferous herb	None	None	4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland	Granitic, Rocky	330	5580	May-Jul

Var. intermedius mariposa-lily bullbiferous herb Lewis' Coastal scrub, Valley and foothill grassland Calystegia felix lucky morning-glory Convolvulaceae morning-glory annual rhizomatous herb None None 1B.1 Meadows and seeps, Riparian scrub 100 705 Mar-Separation and seeps, Riparian scrub Calystegia sepium ssp. binghamiae Santa Barbara morning-glory Convolvulaceae rhizomatous herb perennial rhizomatous herb None None 1A swamps Marshes and swamps 15 15 Aug swamps	1, 3.37 1 W			inventory of rear	and Endan	igoroa i	ianto oi o	allioitila - Ocarcit i	Count			
Part			Liliaceae	•	None 1	None	1B.2	Coastal scrub, Valley and foothill	Rocky	345	2805	May-Jul
SSP_Binghamike morning-glory inizomatous herb swamps Camissoniopsis Leukis' evening-primrose leukisii Edukisii evening-primrose leukisii evening-primrose leukisteria evening-primrose leukisteria evening-primrose leukisteria evening-primrose leukister	<u>Calystegia felix</u>	-		rhizomatous	None 1	None	1B.1	and seeps, Riparian		100	705	Mar-Sep
Revisition with the parameter of the properties of the parameter of the properties o				rhizomatous	None 1	None	1A	and		15	15	Aug
Simulans Simula		evening-	Onagraceae	annual herb	None 1	None	3	woodland, Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill	(sometimes), Sandy	0	985	Mar- May(Jur
pungens ssp. laevis tarplant I arplant I a			Brassicaceae	annual herb	None 1	None	4.2	Coastal		295	7220	
leptotheca spineflower Spinefl			Asteraceae	annual herb	None 1	None	1B.1	scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill	Alkaline	0	2100	Apr-Sep
var. fernandinaValleyscrub,spineflowerValley andfoothill			Polygonaceae	annual herb	None 1	None	4.2	Coastal scrub, Lower montane coniferous	Granitic	985	6235	May-Au
		Valley	Polygonaceae	annual herb	None (CE	1B.1	scrub, Valley and foothill		490	4005	Apr-Jul

<u>Chorizanthe parryi</u> var. parryi	Parry's spineflower	Polygonaceae	annual herb	None	None	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland	Openings, Rocky (sometimes), Sandy (sometimes)	900	4005	Apr-Jun
<u>Chorizanthe</u> <u>polygonoides var.</u> <u>longispina</u>	long-spined spineflower	Polygonaceae	annual herb	None	None	1B.2	Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools	Clay (often)	100	5020	Apr-Jul
<u>Clinopodium</u> <u>chandleri</u>	San Miguel savory	Lamiaceae	perennial shrub	None	None	1B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland, Valley and foothill grassland		395	3525	Mar-Jul
<u>Comarostaphylis</u> <u>diversifolia ssp.</u> <u>diversifolia</u>	summer holly	Ericaceae	perennial evergreen shrub	None	None	1B.2	Chaparral, Cismontane woodland		100	2590	Apr-Jun
<u>Convolvulus</u> <u>simulans</u>	small- flowered morning-glory	Convolvulaceae	annual herb	None	None	4.2	Chaparral, Coastal scrub, Valley and foothill grassland		100	2430	Mar-Jul
<u>Deinandra</u> paniculata	paniculate tarplant	Asteraceae	annual herb	None	None	4.2	Coastal scrub, Valley and foothill grassland, Vernal pools		80	3085	(Mar)Apı Nov
<u>Diplacus</u> clevelandii	Cleveland's bush monkeyflower	Phrymaceae	perennial rhizomatous herb	None	None	4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest		1475	6560	Apr-Jul
<u>Dodecahema</u> <u>leptoceras</u>	slender- horned spineflower	Polygonaceae	annual herb	FE	CE	1B.1	Chaparral, Cismontane woodland, Coastal scrub		655	2495	Apr-Jun

<u>Dudleya cymosa</u> ssp. ovatifolia	Santa Monica dudleya	Crassulaceae	perennial herb	FT	None	1B.1	Chaparral, Coastal scrub	490	5495	Mar-Jun
<u>Dudleya</u> multicaulis	many- stemmed dudleya	Crassulaceae	perennial herb	None	None	1B.2	Chaparral, Coastal scrub, Valley and foothill grassland	50	2590	Apr-Jul
<u>Dudleya viscida</u>	sticky dudleya	Crassulaceae	perennial herb	None	None	1B.2	Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub	35	1805	May-Jun
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Polemoniaceae	perennial herb	FE	CE	1B.1	Chaparral, Coastal scrub	300	2000	Apr-Sep
Erythranthe diffusa	Palomar monkeyflower	Phrymaceae	annual herb	None	None	4.3	Chaparral, Lower montane coniferous forest	4005	6005	Apr-Jun
<u>Harpagonella</u> <u>palmeri</u>	Palmer's grapplinghook	Boraginaceae	annual herb	None	None	4.2	Chaparral, Coastal scrub, Valley and foothill grassland	65	3135	Mar-May
<u>Hesperocyparis</u> f <u>orbesii</u>	Tecate cypress	Cupressaceae	perennial evergreen tree	None	None	1B.1	Chaparral, Closed- cone coniferous forest	260	4920	
<u>Hesperocyparis</u> g <u>oveniana</u>	Gowen cypress	Cupressaceae	perennial evergreen tree	FT	None	1B.2	Chaparral, Closed- cone coniferous forest	100	985	
<u>Hordeum</u> <u>intercedens</u>	vernal barley	Poaceae	annual herb	None	None	3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland, Vernal pools	15	3280	Mar-Jun
Horkelia cuneata var. puberula	mesa horkelia	Rosaceae	perennial herb	None	None	1B.1	Chaparral, Cismontane woodland, Coastal scrub	230	2660	Feb- Jul(Sep)

Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	None None	4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	165	2955	Mar-Aug
<u>Lasthenia glabrata</u> <u>ssp. coulteri</u>	Coulter's goldfields	Asteraceae	annual herb	None None	1B.1	Marshes and swamps, Playas, Vernal pools	5	4005	Feb-Jun
<u>Lepechinia</u> <u>cardiophylla</u>	heart-leaved pitcher sage	Lamiaceae	perennial shrub	None None	1B.2	Chaparral, Cismontane woodland, Closed- cone coniferous forest	1705	4495	Apr-Jul
<u>Lepidium</u> <u>virginicum var.</u> <u>robinsonii</u>	Robinson's pepper-grass	Brassicaceae	annual herb	None None	4.3	Chaparral, Coastal scrub	5	2905	Jan-Jul
<u>Lilium humboldtii</u> ssp. ocellatum	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	None None	4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland	100	5905	Mar- Jul(Aug)
Microseris douglasii ssp. platycarpha	small- flowered microseris	Asteraceae	annual herb	None None	4.2	Cismontane woodland, Coastal scrub, Valley and foothill grassland, Vernal pools	50	3510	Mar-May
Monardella australis ssp. jokerstii	Jokerst's monardella	Lamiaceae	perennial rhizomatous herb	None None	1B.1	Chaparral, Lower montane coniferous forest	4430	5740	Jul-Sep
Monardella hypoleuca ssp. intermedia	intermediate monardella	Lamiaceae	perennial rhizomatous herb	None None	1B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest	1310	4100	Apr-Sep

Monardella macrantha ssp. hallii	Hall's monardella	Lamiaceae	perennial rhizomatous herb	None	None	1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland	2395	7200	Jun-Oct
<u>Nama stenocarpa</u>	mud nama	Namaceae	annual/perennial herb	None	None	2B.2	Marshes and swamps	15	1640	Jan-Jul
Nolina cismontana	chaparral nolina	Ruscaceae	perennial evergreen shrub	None	None	1B.2	Chaparral, Coastal scrub	460	4185	(Mar)May- Jul
<u>Penstemon</u> <u>californicus</u>	California beardtongue	Plantaginaceae	perennial herb	None	None	1B.2	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland	3840	7545	May- Jun(Aug)
<u>Pentachaeta aurea</u> <u>ssp. allenii</u>	Allen's pentachaeta	Asteraceae	annual herb	None	None	1B.1	Coastal scrub, Valley and foothill grassland	245	1705	Mar-Jun
<u>Phacelia hubbyi</u>	Hubby's phacelia	Hydrophyllaceae	annual herb	None	None	4.2	Chaparral, Coastal scrub, Valley and foothill grassland	0	3280	Apr-Jul
<u>Phacelia keckii</u>	Santiago Peak phacelia	Hydrophyllaceae	annual herb	None	None	1B.3	Chaparral, Closed- cone coniferous forest	1790	5250	May-Jul
Phacelia stellaris	Brand's star phacelia	Hydrophyllaceae	annual herb	None	None	1B.1	Coastal dunes, Coastal scrub	5	1310	Mar-Jun
<u>Piperia cooperi</u>	chaparral rein orchid	Orchidaceae	perennial herb	None	None	4.2	Chaparral, Cismontane woodland, Valley and foothill grassland	50	5200	Mar-Jun

<u>Piperia leptopetala</u>	narrow- petaled rein orchid	Orchidaceae	perennial herb	None None 4.	3 Cismont woodlan Lower montane conifero forest, Upper montane conifero forest	d, e us	1245	7300	May-Jul
<u>Polygala cornuta</u> <u>var. fishiae</u>	Fish's milkwort	Polygalaceae	perennial deciduous shrub	None None 4.	3 Chaparra Cismont woodlan Riparian woodlan	ane d,	330	3280	May-Aug
Pseudognaphalium leucocephalum	white rabbit- tobacco	Asteraceae	perennial herb	None None 2	Cismont woodlan Coastal scrub, Riparian woodlan	ane d,	0	6890	(Jul)Aug- Nov(Dec)
<u>Quercus</u> <u>engelmannii</u>	Engelmann oak	Fagaceae	perennial deciduous tree	None None 4.	Chaparra Cismont woodlan Riparian woodlan Valley ar foothill grasslan	ane d, d,	165	4265	Mar-Jun
<u>Romneya coulteri</u>	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	None None 4.	2 Chaparra Coastal scrub	ıl,	65	3935	Mar- Jul(Aug)
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	None None 2	3.2 Chaparra Cismont woodlan Coastal scrub	ane	50	2625	Jan- Apr(May)
<u>Sidalcea</u> neomexicana	salt spring checkerbloom	Malvaceae	perennial herb	None None 2	Coastal scrub, Lower montane conifero forest, Mojavea desert scrub, Playas	e us	50	5020	Mar-Jun

<u>Symphyotrichum</u> <u>defoliatum</u>	San Bernardino aster	Asteraceae	perennial rhizomatous herb	None None 1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, Meadows and seeps, Valley and foothill grassland	5	6695	Jul-Nov
Tortula californica	California screw moss	Pottiaceae	moss	None None 1B.2	Chenopod scrub, Valley and foothill grassland	35	4790	
<u>Viguiera laciniata</u>	San Diego County viguiera	Asteraceae	perennial shrub	None None 4.3	Chaparral, Coastal scrub	195	2460	Feb- Jun(Au
<u>Yucca brevifolia</u>				CBR				

Showing 1 to 66 of 66 entries

Suggested Citation:

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Riverside County Planning Department—Trails at Corona	
Draft EIR	
	C.5 - CNDDB BIOS Database Search Results



						Key Quad		Key County							Federal			Rare Plant	CDFW		
Scientific Name	Common Name	Element Code	Occ Number	MAPNDX	EONDX	Code	Key Quad Name	Code	Accuracy	Presence	Occ Type	Occ Rank Sensit	tive Site Dat	e Elm Date Owner Management	Status	State Status	Global Rank	State Rank Rank	Status	Other Status S	Symbology Taxon Group
Spea hammondii	western spadefoot	AAABF02020	1027	B3875	116789	3311775	Corona South	RIV	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	2004050	5 20040505 PVT	None	None	G2G3	S3	SSC	BLM_S; IUCN_NT	201 Amphibians
Spea hammondii	western spadefoot	AAABF02020	1031	B3888	116802	3311786	Prado Dam	RIV	2/5 mile	Presumed Extant	Natural/Native occurrence	Poor N	1966051	3 19660513 UNKNOWN	None	None	G2G3	S3	SSC	BLM_S; IUCN_NT	204 Amphibians
Spea hammondii	western spadefoot	AAABF02020	1032	B3889	116803	3311786	Prado Dam	RIV	2/5 mile	Presumed Extant	Natural/Native occurrence	Poor N	1964041	7 19640417 UNKNOWN	None	None	G2G3	S3	SSC	BLM_S; IUCN_NT	204 Amphibians
Spea hammondii	western spadefoot	AAABF02020	1369	B5224	118175	3311786	Prado Dam	SBD	80 meters	Presumed Extant	Natural/Native occurrence	Good N	2001050	8 20010508 DPR-CHINO HILLS SP	None	None	G2G3	S3	SSC	BLM_S; IUCN_NT	201 Amphibians
Taricha torosa	Coast Range newt	AAAAF02032	1	40208	35210	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Good Y	1999040	2 19990402	None	None	G4	S4	SSC		999 Amphibians
Taricha torosa	Coast Range newt	AAAAF02032	2	40209	35211	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Good Y	1997040	4 19970404	None	None	G4	S4	SSC	BLM_S; IUCN_EN; NABCI_RWL;	999 Amphibians
Agelaius tricolor	tricolored blackbird	ABPBXB0020	770	99698	101245	3311785	Corona North	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	2015042	0 19520504 RIV COUNTY	None	Threatened	G1G2	S1S2	SSC	USFWS_BCC BLM_S; IUCN_EN; NABCI_RWL;	203 Birds
Agelaius tricolor	tricolored blackbird	ABPBXB0020	365	47614	47614	3311785	Corona North	RIV	2/5 mile	Presumed Extant	Natural/Native occurrence	Unknown N	2009042	7 19500305 UNKNOWN	None	Threatened	G1G2	S1S2		USFWS_BCC	204 Birds
Aimophila ruficeps canescens	southern California rufous- crowned sparrow	ABPBX91091	125	53089	53089	3311776	Black Star Canyon	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	199910x	X 199910XX UNKNOWN	None	None	G5T3	S3	WL		203 Birds
- uniopinia ranceps canescens	southern California rufous-	ABI BASIOSI	113	33003	33003	3311770	Diack Star Carryon		non specific area	Tresumed Extent	naturally native occurrence		1333107	155516/0X CIMINO IIII	itelic	ive iie	C3.13		***		200 Bilds
Aimophila ruficeps canescens	crowned sparrow	ABPBX91091	137	54746	54746	3311785	Corona North	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Fair N	200304X	X 200304XX PVT	None	None	G5T3	S3	WL		203 Birds
Aimophila ruficeps canescens	southern California rufous- crowned sparrow	ABPBX91091	216	A2984	104604	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	2016052	6 20160526 PVT; CITY OF CORONA; USFS	None	None	G5T3	S3	WL		202 Birds
Aquila chrysaetos	golden eagle	ABNKC22010	125	70057	70913		Prado Dam	ORA	80 meters		Natural/Native occurrence	Excellent Y		0 20070320	None	None	G5	S3		BLM_S; CDF_S; IUCN_LC; USFWS BCC	999 Birds
Athene cunicularia	burrowing owl	ABNSB10010	25	3009	25475		Corona North	RIV			Natural/Native occurrence	Unknown N		8 19860618 CITY OF CORONA	None	None	G4	S3		BLM_S; IUCN_LC; USFWS_BCC	204 Birds
	burrowing owl	ABNSB10010	1071		72297		Corona North	RIV	80 meters		Natural/Native occurrence	Good N	2007060				G4	53		BLM_S; IUCN_LC; USFWS_BCC	
Athene cunicularia Athene cunicularia	burrowing owl	ABNSB10010 ABNSB10010	1072	71399 71401	72297		Corona North		80 meters		Natural/Native occurrence	Fair N	2007060		None	None	G4	S3		BLM_S; IUCN_LC; USFWS_BCC	201 Birds 201 Birds
	_	ABNSB10010	1072								Natural/Native occurrence Natural/Native occurrence			PVT; RIV COUNTY FLOOD 5 20070615 CONTROL			G4	S3			
Athene cunicularia	burrowing owl		1073	71402	72301		Corona North		80 meters			Good N			None	None	G4			BLM_S; IUCN_LC; USFWS_BCC	201 Birds
Athene cunicularia	burrowing owl	ABNSB10010	1076	71409	72306 82840		Corona North	RIV	1/10 mile	Extirpated Procumed Extant	Natural/Native occurrence Natural/Native occurrence	None N		X 20050614 PVT-LENNAR/US HOMES 0 20060630 PVT	None	None	G4	S3 S3		BLM_S; IUCN_LC; USFWS_BCC	204 Birds
Athene cunicularia	burrowing owl	ABNSB10010	1775	81866			Corona North	SBD	specific area			Unknown N			None	None				BLM_S; IUCN_LC; USFWS_BCC	202 Birds
Athene cunicularia	burrowing owl	ABNSB10010	1776	81867	82841		Prado Dam	SBD	specific area	Presumed Extant	Natural/Native occurrence	Unknown N		3 20060523 PVT	None	None	G4	S3		BLM_S; IUCN_LC; USFWS_BCC	202 Birds
Buteo swainsoni	Swainson's hawk	ABNKC19070	2549	3004	91478		Corona North	RIV	specific area	, .	Natural/Native occurrence	None N		0 19190420 UNKNOWN	None	Threatened	G5	S3		BLM_S; IUCN_LC; USFWS_BCC BLM_S; NABCI_RWL; USFS_S;	802 Birds
Coccyzus americanus occidentalis	·	ABNRB02022	36	95854	12437		Corona North		non-specific area		Natural/Native occurrence	None N		X 20010622 ORA COUNTY; RIV COUNTY; DOI				S1		USFWS_BCC BLM_S; NABCI_RWL; USFS_S;	203 Birds
Coccyzus americanus occidentalis	·	ABNRB02022	37	2966	25606		Prado Dam		1/5 mile		Natural/Native occurrence	None N		1 19910821 SBD COUNTY		Endangered		S1		USFWS_BCC BLM_S; NABCI_RWL; USFS_S;	204 Birds
Coccyzus americanus occidentalis	·	ABNRB02022	215	96321	97486		Corona North				Natural/Native occurrence	Unknown N		4 19860814 RIV COUNTY	Threatened	Endangered		S1		USFWS_BCC IUCN_LC; NABCI_RWL; USFS_S;	203 Birds
Coturnicops noveboracensis	yellow rail	ABNME01010	17	A5250	106970		Corona North		5 miles		Natural/Native occurrence	Unknown N		6 19140206 UNKNOWN SBD COUNTY-PRADO REGIONAL	None -	None	G4	S1S2		USFWS_BCC	204 Birds
Elanus leucurus	white-tailed kite	ABNKC06010	140	76262	77240		Prado Dam	SBD	1/10 mile		Natural/Native occurrence	Unknown N		X 2009XXXX PARK	None	None	G5	S3S4		BLM_S; IUCN_LC	204 Birds
Empidonax traillii extimus	southwestern willow flycatcher	ABPAE33043	34	58957	58993		Corona North				Natural/Native occurrence	Excellent N		8 19910808 ORA COUNTY		Endangered		S1		NABCI_RWL	203 Birds
Empidonax traillii extimus	southwestern willow flycatcher	ABPAE33043	35	58959	58995		Corona North	RIV	1/5 mile		Natural/Native occurrence	Excellent N		4 19900914 ORA COUNTY	Endangered	Endangered	G5T2	S1		NABCI_RWL	204 Birds
Empidonax traillii extimus	southwestern willow flycatcher	ABPAE33043	76	B0424	112282		Prado Dam		3/5 mile		Natural/Native occurrence	Unknown N		X 2004XXXX ORA COUNTY WATER DISTRICT	Endangered	Endangered	G5T2	S1		NABCI_RWL	204 Birds
Icteria virens	yellow-breasted chat	ABPBX24010	30	3004	24886		Corona North	RIV	specific area		Natural/Native occurrence	Excellent N	2000083		D None	None	G5	S3		IUCN_LC	802 Birds
Polioptila californica californica		ABPBJ08081	182	17786	10098	3311775	Corona South	RIV	1/5 mile		Natural/Native occurrence	Fair N	1988092		Threatened	None	G4G5T3Q	S2		NABCI_YWL	204 Birds
Polioptila californica californica		ABPBJ08081	513	40306	35313		Corona South		80 meters		Natural/Native occurrence	Good N		9 19980709 UNKNOWN	Threatened	None	G4G5T3Q	S2		NABCI_YWL	201 Birds
Polioptila californica californica		ABPBJ08081	554	47034	47034	3311775	Corona South	RIV	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N		2 20001122 PVT	Threatened	None	G4G5T3Q	S2		NABCI_YWL	201 Birds
Polioptila californica californica		ABPBJ08081	604	48116			Corona South		80 meters		Natural/Native occurrence	Unknown N		9 20010819 UNKNOWN	Threatened	None	G4G5T3Q	S2		NABCI_YWL	201 Birds
Polioptila californica californica		ABPBJ08081	603	48112	48112		Corona South	RIV	80 meters		Natural/Native occurrence	Unknown N		6 20010916 UNKNOWN	Threatened	None	G4G5T3Q	S2		NABCI_YWL	201 Birds
Polioptila californica californica		ABPBJ08081	907	71517	72412		Black Star Canyon	RIV	80 meters		Natural/Native occurrence	None N		4 20030519 UNKNOWN	Threatened	None	G4G5T3Q	S2		NABCI_YWL	201 Birds
Polioptila californica californica		ABPBJ08081	1061	B6935	120001		Prado Dam		non-specific area		Natural/Native occurrence	Good N		8 20190618 ORA COUNTY; UNK	Threatened	None	G4G5T3Q	S2		NABCI_YWL	203 Birds
Polioptila californica californica		ABPBJ08081	1062	B6936	120003		Prado Dam		non-specific area		Natural/Native occurrence	Unknown N		7 20180117 UNK; DPR-CHINO HILLS SP	Threatened	None	G4G5T3Q	S2		NABCI_YWL	203 Birds
Polioptila californica californica		ABPBJ08081	1065	B6955	120021		Black Star Canyon		80 meters		Natural/Native occurrence	Good N	2018040		Threatened		G4G5T3Q	S2		NABCI_YWL	201 Birds
Polioptila californica californica		ABPBJ08081	1085	B7011	120072		Black Star Canyon		3/5 mile		Natural/Native occurrence	Unknown N		5 20070615 USFS-CLEVELAND NF	Threatened		G4G5T3Q	S2		NABCI_YWL	204 Birds
Polioptila californica californica		ABPBJ08081	522	71516	35510		Black Star Canyon		non-specific area		Natural/Native occurrence	Excellent N	2020071	US ARMY CORPS OF ENGINEER;	Threatened		G4G5T3Q	S2		NABCI_YWL	203 Birds
Polioptila californica californica		ABPBJ08081	1063	B6943	120004		Prado Dam				Natural/Native occurrence	Good N		9 20200529 DPR	Threatened		G4G5T3Q	S2		NABCI_YWL	203 Birds
Polioptila californica californica		ABPBJ08081	807	53088	53088		Prado Dam	RIV	specific area		Natural/Native occurrence	Fair N		0 20200610 UNKNOWN; DPR-CHINO HILLS S			G4G5T3Q	S2		NABCI_YWL	202 Birds
Polioptila californica californica		ABPBJ08081	448	23772	22808		Black Star Canyon		non-specific area		Natural/Native occurrence	Excellent N		1 20130521 DPR-CHINO HILLS SP	Threatened		G4G5T3Q	S2		NABCI_YWL	203 Birds
Setophaga petechia	yellow warbler	ABPBX03010	75	44071	44071		Corona North				Natural/Native occurrence	Excellent N		8 20160718 RIV COUNTY-PARKS; DOD-COE	None	None	G5	S3S4		USFWS_BCC	203 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	259	54513	54513		Corona North		non-specific area		Natural/Native occurrence	Good N		X 200307XX PVT		Endangered		S2		IUCN_NT; NABCI_YWL	203 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	356	89426	90411		Corona South		specific area		Natural/Native occurrence	Fair N				Endangered		S2		IUCN_NT; NABCI_YWL	202 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	135	2957	24955		Prado Dam		non-specific area		Natural/Native occurrence	Fair N		2 20110822 UNKNOWN		Endangered		S2		IUCN_NT; NABCI_YWL	203 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114		20656	4101		Corona North				Natural/Native occurrence	Good N		X 2010XXXX DOD; ORA COUNTY; RIV COUNT				S2		IUCN_NT; NABCI_YWL	203 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	363	89688	90688		Corona North		specific area	Presumed Extant	Natural/Native occurrence	Unknown N		5 20110725 UNKNOWN	Endangered	Endangered	G5T2	S2		IUCN_NT; NABCI_YWL	202 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	258	54512	54512	3311785	Corona North	RIV	1/10 mile	Presumed Extant	Natural/Native occurrence	Fair N	2011072	5 2010XXXX PVT	Endangered	Endangered		S2		IUCN_NT; NABCI_YWL	204 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	353	89419	90403	3311775	Corona South	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Good N	2011091	7 20110901 UNKNOWN	Endangered	Endangered	G5T2	S2		IUCN_NT; NABCI_YWL	203 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	100	82873	8360	3311776	Black Star Canyon	ORA	non-specific area	Presumed Extant	Natural/Native occurrence	Good N	2017XXX	X 2017XXXX UNKNOWN	Endangered	Endangered	G5T2	S2		IUCN_NT; NABCI_YWL	203 Birds
Vireo bellii pusillus	least Bell's vireo	ABPBW01114	58	3075	24993	3311785	Corona North	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Good N	2013060	6 20130606 UNKNOWN	Endangered	Endangered	G5T2	S2		IUCN_NT; NABCI_YWL BLM_S; SB_CalBG/RSABG;	203 Birds
Abronia villosa var. aurita	chaparral sand-verbena	PDNYC010P1	26	45058	45058	3311775	Corona South	RIV	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	1934050	9 19340509 UNKNOWN	None	None	G5T2?	S2 1B.1		USFS_S	804 Dicots
Astragalus brauntonii	Braunton's milk-vetch	PDFAB0F1G0	42	99712	101257	3311786	Prado Dam	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	2010051	2 20100512 ORA COUNTY	Endangered	None	G2	S2 1B.1		SB_CalBG/RSABG; SB_SBBG	101 Dicots
Astragalus brauntonii	Braunton's milk-vetch	PDFAB0F1G0	10	2882	8526	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Good N	2020060	6 20200606 PVT; DFG-COAL CANYON ER	Endangered	None	G2	S2 1B.1		SB_CalBG/RSABG; SB_SBBG	102 Dicots

						Key Quad		Key Count	у						Federal				Rare Plant	CDFW			
Scientific Name	Common Name	Element Code C	Occ Number	MAPNDX	EONDX	Code	Key Quad Name	Code	Accuracy	Presence	Occ Type	Occ Rank Sensi	ive Site Date Elm Dat	e Owner Management	Status	State Status	Global Rank S	State Rank	Rank	Status	Other Status	Symbology	gy Taxon Group
Astragalus brauntonii	Braunton's milk-vetch	PDFAB0F1G0	4	2886	52	3311776 B	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Good N	20200726 2020072	26 DPR-CHINO HILLS SP	Endangere	d None	G2	S2	1B.1		SB_CalBG/RSABG; SB_SBBG	102	Dicots
Calystegia felix	lucky morning-glory	PDCON040P0	1	84907	94530	3311786 P	Prado Dam	SBD	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19170530 1917053	30 UNKNOWN	None	None	G1Q	S1	1B.1			104	Dicots
Chorizanthe polygonoides var. longispina	long-spined spineflower	PDPGN040K1	61	2858	61304	3311776 B	Black Star Canyon	ORA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	20010529 2001052	29 UNKNOWN	None	None	G5T3	S3	1B.2		BLM_S; SB_CalBG/RSABG; SB_CRES	104	Dicots
	many-stemmed dudleya	PDCRA040H0	14	2942	19713		Prado Dam	RIV	1/5 mile	Extirpated	Natural/Native occurrence	None N	199XXXXX 1966053		None	None	G2	52	1B.2		SB_CalBG/RSABG; USFS_S		Dicots
·	many-stemmed dudleya	PDCRA040H0	98	23537	19204		Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N		06 USFS-CLEVELAND NF	None	None	G2	52	1B.2		SB_CalBG/RSABG; USFS_S		
			30															32					
	many-stemmed dudleya	PDCRA040H0	33	2974	12669		Black Star Canyon	RIV	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	19850320 1985032		None	None	G2	S2	1B.2		SB_CalBG/RSABG; USFS_S		Dicots
·	many-stemmed dudleya	PDCRA040H0	13	2936	19711		Prado Dam	SBD	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N		21 DPR-CHINO HILLS SP	None	None	G2	52	1B.2		SB_CalBG/RSABG; USFS_S		Dicots
	many-stemmed dudleya	PDCRA040H0	12	2943	13522		Prado Dam	SBD	specific area	Presumed Extant	Natural/Native occurrence	Unknown N		09 DPR-CHINO HILLS SP	None	None	G2	\$2	1B.2		SB_CalBG/RSABG; USFS_S		Dicots
·	many-stemmed dudleya	PDCRA040H0	38	2876	8527		Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Good N		(X DPR-CHINO HILLS SP	None	None	G2	S2	1B.2		SB_CalBG/RSABG; USFS_S		Dicots
Dudleya multicaulis	many-stemmed dudleya	PDCRA040H0	139	63605	63700	3311776 B	Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	20000506 2000050	06 UNKNOWN	None	None	G2	S2	1B.2		SB_CalBG/RSABG; USFS_S	101	Dicots
Dudleya multicaulis	many-stemmed dudleya	PDCRA040H0	191	A8614	110404	3311776 B	Black Star Canyon	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20060517 2006053	L7 USFS-CLEVELAND NF	None	None	G2	S2	1B.2		SB_CalBG/RSABG; USFS_S	102	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	11	2981	18015	3311775 C	Corona South	ORA	specific area	Presumed Extant	Natural/Native occurrence	Excellent N	19900530 1990053	80 USFS-CLEVELAND NF	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	102	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	17	61401	61437	3311776 B	Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	20000405 2000040	05 USFS-CLEVELAND NF	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	101	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	23	A1387	102961	3311776 B	Black Star Canyon	ORA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19860606 1986060	06 UNKNOWN	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	104	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	24	A1388	102962	3311776 B	Black Star Canyon	RIV	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	20070625 2007062	25 USFS-CLEVELAND NF	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	101	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	25	A1389	102963	3311776 B	Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	20160802 2016080	02 USFS-CLEVELAND NF	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	101	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	1	2893	13658	3311776 B	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20160313 2016033	DFG; PVT	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	102	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	9	2973	18016	3311776 B	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20160721 2016072	PVT?	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	102	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	2	2945	18520	3311776 B	Black Star Canyon	RIV	specific area	Presumed Extant	Natural/Native occurrence	Good N	20160802 2016080	02 USFS-CLEVELAND NF	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	102	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	30	A8100	109883	3311775 C	Corona South	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	20160721 2016072	21 USFS-CLEVELAND NF	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	101	Dicots
Lepechinia cardiophylla	heart-leaved pitcher sage	PDLAM0V020	12	2994	18012	3311775 C	Corona South	ORA	specific area	Presumed Extant	Natural/Native occurrence	Fair N	20160721 2016072	21 USFS-CLEVELAND NF	None	None	G3	S2S3	1B.2		SB_CalBG/RSABG; USFS_S	102	Dicots
Lepidium virginicum var.	Robinson's pepper-grass	PDBRA1M114	140	85282	86303	3311786 P	Prado Dam	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19260310 1926033	LO UNKNOWN	None	None	G5T3	S3	4.3				Dicots
Lepidium virginicum var.	Robinson's pepper-grass	PDBRA1M114	166	88691	89707	3311785 C		RIV	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown N	20100304 2010030		None	None	G5T3	S3	4.3				Dicots
Monardella australis ssp. jokerstii		PDLAM18112	1	84642	85657	3311786 P		SBD	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19520928 1952092		None		G4T1?	S1?	1B.1		USFS S		Dicots
Monardella hypoleuca ssp.		PDLAM180A4	30	88049												None	G4T2?	S2?			0313_3		
Monardella hypoleuca ssp.	intermediate monardella				89026	3311775 C		ORA		Presumed Extant	Natural/Native occurrence	Unknown N		30 USFS-CLEVELAND NF	None	None			1B.3				Dicots
Monardella hypoleuca ssp.	intermediate monardella	PDLAM180A4	31	88050	89027		Black Star Canyon	ORA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19630726 1963072		None	None	G4T2?	S2?	1B.3				Dicots
	intermediate monardella	PDLAM180A4	32	88051	89028		Black Star Canyon	ORA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19860606 1986060		None	None	G4T2?	S2?	1B.3				Dicots
Sidalcea neomexicana	salt spring checkerbloom	PDMAL110J0	13	A3663	48778	3311786 P	Prado Dam	SBD	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19170530 1917053	30 UNKNOWN	None	None	G4	S2	2B.2		USFS_S	103	Dicots
Catostomus santaanae	Santa Ana sucker	AFCJC02190	30	48191	48191	3311785 C	Corona North	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20020716 2002072	L6 UNKNOWN	Threatened	d None	G1	S1			AFS_TH; IUCN_VU	203	Fish
Catostomus santaanae	Santa Ana sucker	AFCJC02190	29	43785	43785	3311786 P	Prado Dam	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Good N	20020710 2000072	L4 DPR; PVT	Threatened	d None	G1	S1			AFS_TH; IUCN_VU	203	Fish
	arroyo chub steelhead - southern California	AFCJB13120	8	21950	12751	3311785 C	Corona North	RIV	1/5 mile	Presumed Extant	Natural/Native occurrence	Good N	19970806 1997080	06 UNKNOWN	None	None	G2	S2		SSC	AFS_VU; USFS_S	204	Fish
pop. 10	DPS	AFCHA0209J	18	B0498	112361	3311778 A	Anaheim	ORA	non-specific area	Possibly Extirpated	Natural/Native occurrence Transplant Outside of Native	None N	2013XXXX 1950XX	XX UNKNOWN	Endangere	d None	G5T1Q	S1			AFS_EN	203	Fish
Southern Interior Cypress Forest	Southern Interior Cypress Forest	CTT83230CA	19	2961	28704	3311776 B	Black Star Canyon	RIV	1 mile	Presumed Extant	Hab./Range	Unknown N	19790615 1979062	L5 USFS-CLEVELAND NF	None	None	G2	S2.1				304	Forest
Southern Interior Cypress Forest	Southern Interior Cypress Forest	CTT83230CA	21	2898	14961	3311776 B	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Excellent N	20000803 2000080	D3 PVT	None	None	G2	S2.1			BLM_S; SB_CalBG/RSABG;	302	Forest
		2001204000	2.4	54007	64000	2244775		20.4			Transplant Outside of Native								45.4		SB_CRES; SB_UCSC; SB_USDA;		
Hesperocyparis forbesii	Tecate cypress	PGCUP040C0	24	61287	61323	3311//6 B	Black Star Canyon	RIV	80 meters	Presumed Extant	Hab./Range	Good N	20111103 2011110	03 USFS-CLEVELAND NF	None	None	G2	S2	1B.1		USFS_S BLM_S; SB_CalBG/RSABG;	101	Gymnosperms
Hesperocyparis forbesii	Tecate cypress	PGCUP040C0	3	77053	14430	3311776 B	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Good N	20100218 2010022	L8 DFG-COAL CANYON ER; PVT	None	None	G2	S2	1B.1		SB_CRES; SB_UCSC; SB_USDA; USFS_S	102	Gymnosperms
																					BLM_S; SB_CalBG/RSABG; SB_CRES; SB_UCSC; SB_USDA;		
Hesperocyparis forbesii	Tecate cypress	PGCUP040C0	33	A4157	105833	3311776 B	Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	2009XXXX 2009XXX	(X USFS-CLEVELAND NF	None	None	G2	S2	1B.1		USFS_S BLM_S; SB_CalBG/RSABG;	101	Gymnosperms
Hesperocyparis forbesii	Tecate cypress	PGCUP040C0	34	A4158	105834	3311776 B	Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	2009XXXX 2009XXX	(X USFS-CLEVELAND NF	None	None	G2	S2	1B.1		SB_CRES; SB_UCSC; SB_USDA; USFS_S	101	Gymnosperms
	·																				BLM_S; SB_CalBG/RSABG; SB_CRES; SB_UCSC; SB_USDA;		
Hesperocyparis forbesii	Tecate cypress	PGCUP040C0	35	A4159	105835	3311776 B	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	2009XXXX 2009XXX	(X USFS-CLEVELAND NF	None	None	G2	S2	1B.1		USFS_S	102	Gymnosperms
· ·	Southern California Arroyo Chub/Santa Ana Sucker Stream	CARE2330CA	4	25989	5026	3311785 C	Corona North	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	1991XXXX 1991XXX	PVT; SANTA ANA RIVER	None	None	GNR	SNR				403	Inland Waters
			107						·														
	Crotch bumble bee	IIHYM24480	197	45058	99065	3311775 C		RIV	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19330307 1933030		None	None	G3G4	S1S2					Insects
	quino checkerspot butterfly northwestern San Diego pocket	IILEPK405L	113	B0974	112865		Black Star Canyon	ORA	1 mile	Extirpated	Natural/Native occurrence	None N		XX THE WILDLANDS CONSERVANCY	Endangere	d None	G5T1T2	S1S2					Insects
Chaetodipus fallax fallax	mouse	AMAFD05031	51	57643	57659	3311775 C		RIV		Presumed Extant	Natural/Native occurrence	Poor N	20011214 2001122		None	None	G5T3T4	S3S4		SSC			Mammals
Dipodomys stephensi	Stephens' kangaroo rat	AMAFD03100	199	38428	33435	3311785 C		RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Fair N	19920204 1992020			d Threatened	G2	S2			IUCN_EN		Mammals
Dipodomys stephensi	Stephens' kangaroo rat	AMAFD03100	207	55482	55482	3311785 C	Corona North	RIV	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown N	20030310 2003033	LO CITY OF NORCO	Endangere	d Threatened	G2	S2			IUCN_EN		Mammals
Dipodomys stephensi	Stephens' kangaroo rat	AMAFD03100	219	55812	55828	3311785 C	Corona North	RIV	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19930722 1993072	22 UNKNOWN	Endangere	d Threatened	G2	S2			IUCN_EN	203	Mammals
Eumops perotis californicus	western mastiff bat	AMACD02011	124	66374	66471	3311776 B	Black Star Canyon	ORA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown N	1992XXXX 1992XXX	DPR-CHINO HILLS SP; UNKNOWN	None	None	G4G5T4	S3S4		SSC	BLM_S; WBWG_H	204	Mammals
	western yellow bat	AMACC05070	23	58892	58928	3311785 C	Corona North	RIV	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19891004 1989100	04 UNKNOWN	None	None	G4G5	S3		SSC	IUCN_LC; WBWG_H	804	Mammals
Lasiurus xanthinus		ANAA CC05070	15	45058	58912	3311775 C	Corona South	RIV	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19990502 1999050	02 UNKNOWN	None	None	G4G5	S3		SSC	IUCN_LC; WBWG_H	804	Mammals
	western yellow bat	AMACC05070		1		The second secon			The second secon	A Company of the Comp	The second secon	- I		.									Mammals
Lasiurus xanthinus	western yellow bat pocketed free-tailed bat	AMACD04010	18	45058	68719	3311775 C	Corona South	RIV	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19860311 1986032	11 UNKNOWN	None	None	G5	S3		SSC	IUCN_LC; WBWG_M	804	Iviammais
Lasiurus xanthinus Nyctinomops femorosaccus			18 45	45058 B6608	68719 119668		Corona South Black Star Canyon	RIV ORA		Presumed Extant Presumed Extant	Natural/Native occurrence Natural/Native occurrence	Unknown N Unknown N	19860311 1986032 19920602 1992060		None None	None	G5 G1	S3 S1	1B.2		IUCN_LC; WBWG_M BLM_S; USFS_S		Monocots
Lasiurus xanthinus Nyctinomops femorosaccus Allium marvinii Calochortus plummerae	pocketed free-tailed bat	AMACD04010				3311776 B								02 UNKNOWN					1B.2 4.2			103	
Lasiurus xanthinus Nyctinomops femorosaccus Allium marvinii Calochortus plummerae Calochortus weedii var.	pocketed free-tailed bat Yucaipa onion	AMACD04010 PMLIL02330	45	B6608	119668	3311776 B	Black Star Canyon Black Star Canyon	ORA	non-specific area	Presumed Extant Presumed Extant	Natural/Native occurrence	Unknown N	19920602 1992060	UNKNOWN UNKNOWN	None	None	G1	S1			BLM_S; USFS_S	103	Monocots

Scientific Name	Common Name	Element Code	Occ Number	MAPNDX	EONDX	Key Quad Code	Key Quad Name	Key County Code	Accuracy	Presence	Occ Type	Occ Rank Sensiti	ve Site Date	Elm Date	Owner Management	Federal Status	State Status	Ra Global Rank State Rank		DFW Other Status	Symbology	y Taxon Gro
alochortus weedii var.	into manadiata magnin and like										i i	Links aven Ni	20000617	20080617		Nama						
termedius Ilochortus weedii var.	intermediate mariposa-lily	PMLILOD1J1	116	90324	91374	3311//6	Black Star Canyon	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20080617	20080617	USFS-CLEVELAND NF	None	None	G3G4T2 S3	1B.2	SB_CalBG/RSABG; USFS_S	102	Monocots
termedius lochortus weedii var.	intermediate mariposa-lily	PMLILOD1J1	60	63388	63480	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Fair N	20200622	20200622	PVT; USFS-CLEVELAND NF	None	None	G3G4T2 S3	1B.2	SB_CalBG/RSABG; USFS_S	102	Monocots
termedius	intermediate mariposa-lily	PMLIL0D1J1	188	B7606	120678	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20210604	20210604	USFS-CLEVELAND NF	None	None	G3G4T2 S3	1B.2	SB_CalBG/RSABG; USFS_S	102	Monocots
lochortus weedii var. termedius	intermediate mariposa-lily	PMLIL0D1J1	194	B7613	120686	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20110701	20110701	DFG-COAL CANYON ER	None	None	G3G4T2 S3	1B.2	SB_CalBG/RSABG; USFS_S	102	Monocots
lochortus weedii var.	,		-				,															
termedius lochortus weedii var.	intermediate mariposa-lily	PMLILOD1J1	195	B7614	120687	3311//6	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20200630	20200630	DFG-COAL CANYON ER	None	None	G3G4T2 S3	1B.2	SB_CalBG/RSABG; USFS_S	102	Monocots
ermedius lochortus weedii var.	intermediate mariposa-lily	PMLIL0D1J1	196	B7615	120688	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20210606	20210606	DPR-CHINO HILLS SP	None	None	G3G4T2 S3	1B.2	SB_CalBG/RSABG; USFS_S	102	Monocots
termedius	intermediate mariposa-lily	PMLILOD1J1	12	26719	27592	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20200630	20200630	ORA COUNTY; DFG	None	None	G3G4T2 S3	1B.2	SB_CalBG/RSABG; USFS_S	102	Monocots
olina cismontana	chaparral nolina	PMAGA080E0	17	54555	54555	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20140320	20140320	DPR-CHINO HILLS SP	None	None	G3 S3	1B.2	SB_CalBG/RSABG; SB_SBBG; USFS S	102	Monocots
Sima dismontana	Chaparrai noma		Ι,	34333			,		specific dred	resumed Exture			20140320				None	33		SB_CalBG/RSABG; SB_SBBG;		
olina cismontana	chaparral nolina	PMAGA080E0	37	93297	94432	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	1990XXXX	1990XXXX	USFS-CLEVELAND NF; UNKNOW	N None	None	G3 S3	1B.2	USFS_S SB_CalBG/RSABG; SB_SBBG;	102	Monocots
olina cismontana	chaparral nolina	PMAGA080E0	39	93302	94437	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Good N	20140320	20140320	PVT	None	None	G3 S3	1B.2	USFS_S SB_CalBG/RSABG; SB_SBBG;	102	Monocots
olina cismontana	chaparral nolina	PMAGA080E0	56	A6840	108609	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Good N	201608XX	201608XX	PVT	None	None	G3 S3	1B.2	USFS_S	102	Monocots
olina cismontana	chaparral nolina	PMAGA080E0	57	A6841	108610	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20140320	20140320	DPR-CHINO HILLS SP	None	None	G3 S3	1B.2	SB_CalBG/RSABG; SB_SBBG; USFS S	102	Monocots
																				SB_CalBG/RSABG; SB_SBBG;		
llina cismontana	chaparral nolina	PMAGA080E0	58	A6842	108611	3311776	Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	20140320	20140320	DFG-COAL CANYON ER	None	None	G3 S3	1B.2	USFS_S SB_CalBG/RSABG; SB_SBBG;	101	Monocots
lina cismontana	chaparral nolina	PMAGA080E0	59	A6843	108612	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20140319	20140319	DFG-COAL CANYON ER	None	None	G3 S3	1B.2	USFS_S	102	Monocots
oidoscelis hyperythra	orange-throated whiptail	ARACJ02060	141	20501	9881	3311786	Prado Dam	SBD	1/5 mile	Presumed Extant	Natural/Native occurrence	Fair N	xxxxxxx	xxxxxxx	UNKNOWN	None	None	G5 S2S3	\	NL IUCN_LC; USFS_S	204	Reptiles
oidoscelis hyperythra	orange-throated whiptail	ARACJ02060	52	3125	27665	2211705	Corona North	RIV	1 mile	Possibly Extirnated	Natural/Native occurrence	None N	19510603	10510603	UNKNOWN	None	None	G5 S2S3		WL IUCN LC; USFS S	204	Reptiles
· · · ·			33						Time				19310003	19310003	ONKNOWN	None	None					
pidoscelis hyperythra	orange-throated whiptail	ARACJ02060	163	20245	11997	3311776	Black Star Canyon	ORA	3/5 mile	Presumed Extant	Natural/Native occurrence	Unknown N	1990XXXX	1990XXXX	UNKNOWN	None	None	G5 S2S3	\	NL IUCN_LC; USFS_S	204	Reptiles
oidoscelis hyperythra	orange-throated whiptail	ARACJ02060	133	20505	9867	3311775	Corona South	RIV	1/5 mile	Presumed Extant	Natural/Native occurrence	Excellent N	19900516	19900516	USFS-CLEVELAND NF	None	None	G5 S2S3	\	NL IUCN_LC; USFS_S	204	Reptiles
oidoscelis hyperythra	orange-throated whiptail	ARACJ02060	56	58892	63551	3311785	Corona North	RIV	1 mile	Possibly Extirpated	Natural/Native occurrence	None N	19610702	19610702	UNKNOWN	None	None	G5 S2S3	,	NL IUCN_LC; USFS_S	804	Reptiles
			204						1/10													
oidoscelis hyperythra	orange-throated whiptail	ARACJ02060	381	64284	64363	3311/86	Prado Dam	ORA	1/10 mile	Presumed Extant	Natural/Native occurrence	Good N	20050412	20050412	PVI	None	None	G5 S2S3	\	NL IUCN_LC; USFS_S	804	Reptiles
oidoscelis hyperythra	orange-throated whiptail	ARACJ02060	413	A2987	104607	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20160627	20160627	PVT	None	None	G5 S2S3	\	NL IUCN_LC; USFS_S	202	Reptiles
idoscelis tigris stejnegeri	coastal whiptail	ARACJ02143	127	A2985	104605	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	20160821	20160821	PVT	None	None	G5T5 S3	S	SC	202	Reptiles
alus ruber	red-diamond rattlesnake	ARADE02090	67	47621	47621	3311775	Corona South	RIV	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19920911	19920911	UNKNOWN	None	None	G4 S3		SC USFS_S	204	Reptiles
			Ų,														Itolic					
alus ruber	red-diamond rattlesnake	ARADE02090	70	48117	48117	3311775	Corona South	RIV	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	19980709	19980709	UNKNOWN	None	None	G4 S3	5	SSC USFS_S	201	Reptiles
rs marmorata	western pond turtle	ARAAD02030	1072	34706	6049	3311786	Prado Dam	SBD	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19920705	19920705	DPR-CHINO HILLS SP	None	None	G3G4 S3	9	SSC BLM_S; IUCN_VU; USFS_S	203	Reptiles
s marmorata	western pond turtle	ARAAD02030	1351	A4286	105968	3311785	Corona North	RIV	specific area	Presumed Extant	Natural/Native occurrence	Fair N	20110216	20110216	RIV COUNTY; UNKNOWN	None	None	G3G4 S3	S	SSC BLM_S; IUCN_VU; USFS_S	202	Reptiles
ynosoma blainvillii	coast horned lizard	ARACF12100	317	20508	9903	2211776	Black Star Canyon	ORA	80 meters	Presumed Extant	Natural/Native occurrence	Good N	19900717	10000717	UNKNOWN	None	None	G3G4 S3S4		SC BLM_S; IUCN_LC	201	Reptiles
ynosoma biamviiii	coast norneu lizaru		317	20308					80 meters	Fresumed Extant						None	None					
vnosoma blainvillii	coast horned lizard	ARACF12100	116	2885	9759	3311776	Black Star Canyon	ORA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	19860503	19860503	DPR-CHINO HILLS SP; DFG; PVT	None	None	G3G4 S3S4	S	SSC BLM_S; IUCN_LC	204	Reptiles
ynosoma blainvillii	coast horned lizard	ARACF12100	315	17894	9866	3311775	Corona South	RIV	80 meters	Presumed Extant	Natural/Native occurrence	Fair N	199006XX	199006XX	UNKNOWN	None	None	G3G4 S3S4	g	SC BLM_S; IUCN_LC	201	Reptiles
ynosoma blainvillii	coast horned lizard	ARACF12100	544	64284	70212	3311786	Prado Dam	ORA	1/10 mile	Presumed Extant	Natural/Native occurrence	Excellent N	20050419	20050419	PVT	None	None	G3G4 S3S4	9	SSC BLM_S; IUCN_LC	804	Reptiles
			47	2204		2244775	6 6 11		4 1													
ynosoma blainvillii	coast horned lizard	ARACF12100	1/	3201	28142	3311//5	Corona South	RIV	1 mile	Presumed Extant	Natural/Native occurrence	Unknown N	1951XXXX	1951XXXX	UNKNOWN	None	None	G3G4 S3S4	3	SSC BLM_S; IUCN_LC	204	Reptiles
ynosoma blainvillii ithern Coast Live Oak Riparia	coast horned lizard n Southern Coast Live Oak Riparian	ARACF12100	881	A2988	104608	3311775	Corona South	RIV	80 meters	Presumed Extant	Natural/Native occurrence	Unknown N	20160528	20160528	PVT	None	None	G3G4 S3S4	S	SC BLM_S; IUCN_LC	201	Reptiles
est	Forest	CTT61310CA	145	2905	12500	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	PVT	None	None	G4 S4			302	Riparian
thern Coast Live Oak Riparia est	n Southern Coast Live Oak Riparian Forest	CTT61310CA	146	2889	15912	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	USFS-CLEVELAND NF	None	None	G4 S4			302	Riparian
thern Coast Live Oak Riparia	n Southern Coast Live Oak Riparian																					
est thern Coast Live Oak Riparia	Forest n Southern Coast Live Oak Riparian	CTT61310CA	159	3003	12496	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	USFS-CLEVELAND NF	None	None	G4 S4			302	Riparian
est	Forest	CTT61310CA	160	3051	15903	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	USFS-CLEVELAND NF	None	None	G4 S4			302	Riparian
thern Cottonwood Willow arian Forest	Southern Cottonwood Willow Riparian Forest	CTT61330CA	77	2849	15775	3311776	Black Star Canyon	ORA	specific area	Presumed Extant	Natural/Native occurrence	Fair N	19880506	19850213	PVT; ORA COUNTY	None	None	G3 S3.2			302	Riparian
thern Cottonwood Willow Irian Forest	Southern Cottonwood Willow Riparian Forest	CTT61330CA	70	2949	15782		Prado Dam		specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19850213		DPR-CHINO HILLS SP; PVT	None	None					·
hern Cottonwood Willow	Southern Cottonwood Willow		70	2349				RIV	specific area							None	None					Riparian
rian Forest	Riparian Forest	CTT61330CA	69	3118	15783	3311784	Riverside West	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19850213	19850213	PVT; RIV COUNTY	None	None	G3 S3.2			302	Riparian
thern Riparian Forest	Southern Riparian Forest	CTT61300CA	18	3060	16033	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	USFS-CLEVELAND NF	None	None	G4 S4			302	Riparian
thern Sycamore Alder	Southern Sycamore Alder																					
rian Woodland	Riparian Woodland	CTT62400CA	183	2937	15386	3311776	Black Star Canyon	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	PVT	None	None	G4 S4			302	Riparian
thern Sycamore Alder	Southern Sycamore Alder																					
rian Woodland	Riparian Woodland	CTT62400CA	177	2965	15391	3311776	Black Star Canyon	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19850213	19850213	PVT	None	None	G4 S4			302	Riparian
thern Sycamore Alder	Southern Sycamore Alder																					
rian Woodland	Riparian Woodland	CTT62400CA	196	2982	15375	3311775	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	USFS-CLEVELAND NF	None	None	G4 S4			302	Riparian
hern Sycamore Alder	Southern Sycamore Alder								_													
rian Woodland	Riparian Woodland	CTT62400CA	1	2863	15549	3311786	Prado Dam	SBD	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19860423	19860423	DPR-CHINO HILLS SP	None	None	G4 S4			302	Riparian
hern Sycamore Alder	Southern Sycamore Alder																					
rian Woodland	Riparian Woodland	CTT62400CA	184	2970	15385	3311776	Black Star Canyon	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	USFS-CLEVELAND NF	None	None	G4 S4			302	Riparian
harn Cuarmara Aldar	Southern Sycamore Alder	CTT6240004	170	2072	12276	2244775	Corona South	DN/	specific area	Drocumed Fut-	Natural/Nativo accurre	Unknows	10050242	10050242	DVT	None	None	64			202	Dina-!-
	Riparian Woodland	CTT62400CA	179	2972	13376	3311//5	Corona South	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19850213	19850213	rvi	None	None	G4 S4			302	Riparian
rian Woodland	[C 1] C ALI		185	2979	15383	3311 <i>776</i>	Black Star Canyon	DI\/	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	10200410	19800410	PVT	None	None	G4 S4			302	Rinarian
rian Woodland thern Sycamore Alder	Southern Sycamore Alder	CTTESMONE	TQD	L 23/3	TD2Q2	2211//p	DIOCK SECT COLLAND	KIV	specific died	r resumed EXTANT	ivatural/ivative occurrence	OHKHOWII N	19800410	13000410	1 V I	None	None	J4 54			502	Riparian
thern Sycamore Alder Irian Woodland thern Sycamore Alder Irian Woodland	Riparian Woodland	CTT62400CA																				
thern Sycamore Alder orian Woodland thern Sycamore Alder	Riparian Woodland Southern Sycamore Alder			2980	15384	3311776	Black Star Canyon	RI\/	specific area	Presumed Evtant	Natural/Native occurrence	Unknown	19200/10	19800//10	USES-CLEVELAND NE	None	None	G4 S4			302	Rinarian
thern Sycamore Alder urian Woodland thern Sycamore Alder urian Woodland	Riparian Woodland Southern Sycamore Alder Riparian Woodland	CTT62400CA CTT62400CA	186	2980	15384	3311776	Black Star Canyon	RIV	specific area	Presumed Extant	Natural/Native occurrence	Unknown N	19800410	19800410	USFS-CLEVELAND NF	None	None	G4 S4			302	Riparian
rian Woodland hern Sycamore Alder rian Woodland hern Sycamore Alder	Riparian Woodland Southern Sycamore Alder			2980 3032	15384 15374		Black Star Canyon Corona South		specific area		Natural/Native occurrence Natural/Native occurrence	Unknown N Unknown N			USFS-CLEVELAND NF USFS-CLEVELAND NF	None	None	G4 S4				Riparian Riparian



Draft EIR	
	C.6 - MSHCP Riparian-Riverine Assessment



FIRSTCARBON SOLUTIONS™

Western Riverside County Multiple-Species Habitat Conservation Plan
Riparian/Riverine Assessment Report for the
Trails at Corona Specific Plan Project
City of Corona, Riverside County, California

Prepared for:

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Table of Contents

Section 1: Introduction	1
Section 2: Environmental Setting 2.1 - Project Location	3 3
Section 3: Regulatory Setting	
Section 4: Methods	25
Section 5: Results	
Section 6: Conclusion	
Appendix A: Site Photographs	
List of Tables	
Table 1: Soils Present On-site	14
List of Exhibits	
Exhibit 1: Regional Location Map	5
Exhibit 2: Local Vicinity Map, Topographic Base	7
Exhibit 3: Local Vicinity Map, Aerial Base	9
Exhibit 4: Project Site Plan	11
Exhibit 5: Soils Map	15
Exhibit 6: Vegetation and Land Cover Types	17
Exhibit 7: Aquatic Resources Delineation Map	21



1

SECTION 1: INTRODUCTION

At the request of Oxbow Partners (project applicant), FirstCarbon Solutions (FCS) completed a Western Riverside County Multiple-Species Habitat Conservation Plan (MSHCP) Riparian/Riverine Assessment Report pursuant to the requirements of Section 6.1.2 of the MSHCP for the 104.80-acre Trails at Corona Development Project (proposed project) as depicted in Exhibits 1 through 3. The purpose of this report is to map and determine the limits of MSHCP jurisdiction under Section 6.1.2 of the MSHCP, and to support the project applicant's planning efforts for a proposed development project.

The site is located within the Western Riverside County MSHCP. As a result of the previously developed golf course, the site is not included in MSHCP survey areas for the following: Narrow Endemic Plant Species Survey Area, Criteria Area Species Survey Area, and the burrowing owl survey area; as such, assessments are not mandatory for these species.

As a former golf course, the property consists of remnant fairways, cart paths, a clubhouse foundation slab, and other features, including former golf course ponds which are not subject to Section 6.1.2 of the MSHCP due to their human-induced nature as constructed golf course ponds. Most of the site appears to be regularly mowed. Although the City of Corona urban limits surround the site to the north, east, south, and west, the site is also adjacent to the County of Riverside unincorporated communities of Green River and Prado Basin.

The site is surrounded by urban development. Land uses immediately to the west are predominantly residential uses as well as commercial (McDonald's restaurant and Arco gas station) and school facilities (Coronita Elementary School). Immediately north of the project site is State Route (SR) 91, further north is commercial developments (In-N-Out-Burger restaurant and Nissan and Hyundai car dealerships) and light industrial land uses. Land uses immediately to the east are predominantly residential uses as well as school facilities (Cesar Chavez Academy). Land uses immediately to the south are predominantly residential uses as well as vacant parcels.

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SECTION 2: ENVIRONMENTAL SETTING

2.1 - Project Location

The proposed project is located south of SR-91, and generally west of Avenida Del Vista, and east of Serfas Club Drive within both unincorporated Riverside County and the City of Corona (Exhibit 1).

The project area comprises approximately 104.8 acres, of which approximately 79.9 acres are within County of Riverside jurisdiction and approximately 24.9 acres are within City of Corona jurisdiction. The County of Riverside portion of the site is located within the unincorporated community of Coronita (Exhibit 2). The City of Corona surrounds the site to the north, east, south, and west; however, the site is connected to and adjacent to County of Riverside unincorporated communities of Green River and Prado Basin (Exhibit 3). The site has regional access via SR-91 (Exhibit 3).

The Assessor's Parcel Numbers (APNs) for the project area are:

County of Riverside portion

- APN 102-050-004
- APN 102-050-005
- APN 102-050-008
- APN 102-050-021
- APN 102-050-022
- APN 102-050-024
- APN 102-112-008
- APN 102-113-015
- APN 102-160-003
- APN 102 203-007
- APN 102-192-017
- APN 103-203-006
- APN 103-301-010

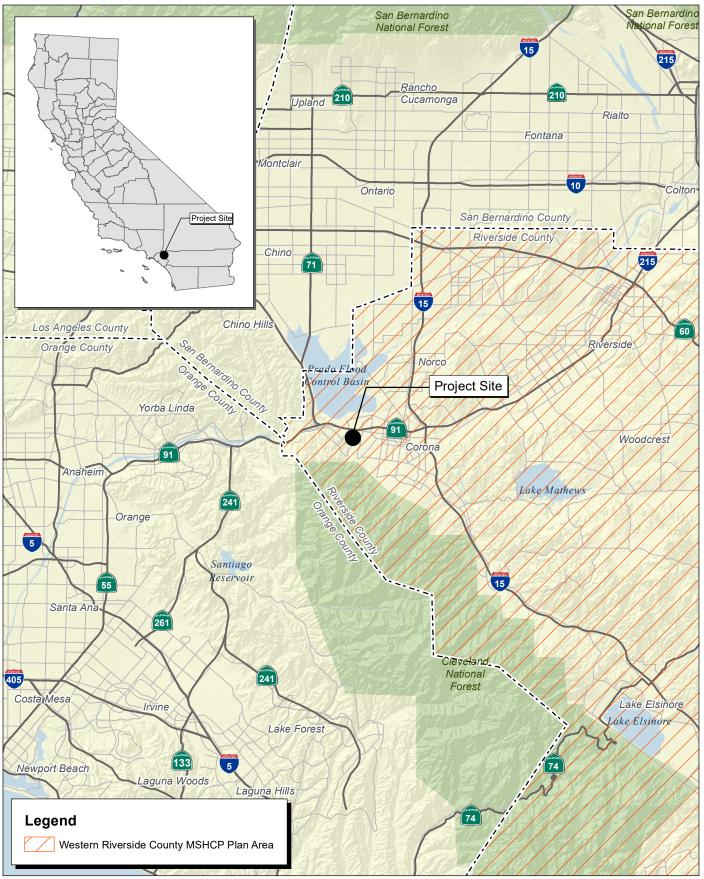
City of Corona portion

- APN 103-020-007
- APN 103-020-008
- APN 103-020-009
- APN 103-020-010
- APN 103-020-011

2.2 - Project Description

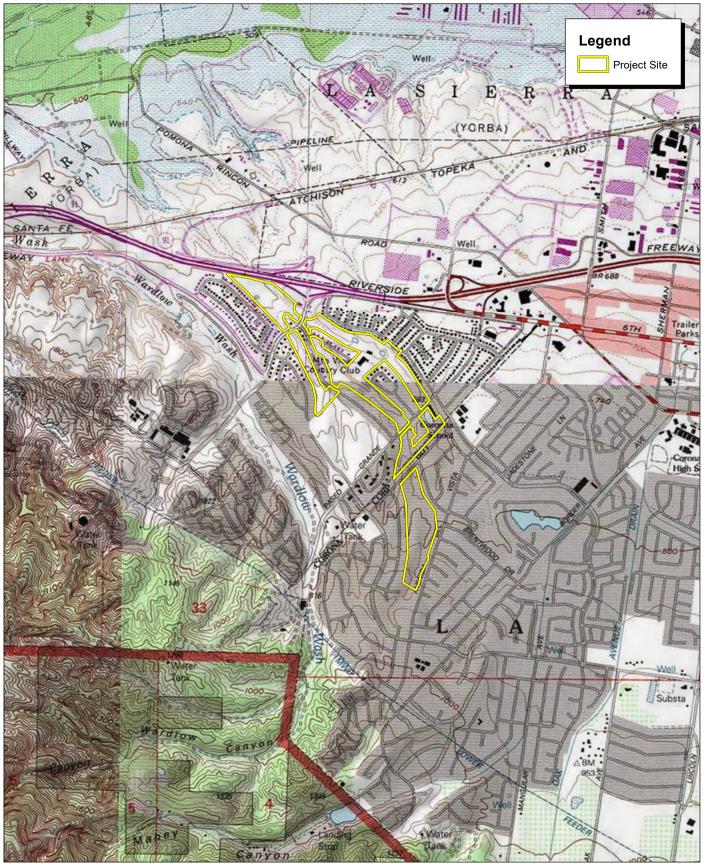
The project applicant proposes a mixed-use community, including approximately 40 acres of open space with parks and trails, 100 percent active adult and age-restricted to 60 years old and older residential areas of various densities, a retail/commercial site, and associated parking lots (Exhibit 4). The proposed project would include a total of 309 dwelling units including 116 two-family residences and 193 single-family detached residences, as well as a 0.78-acre neighborhood commercial space with approximately 10,000 square feet of quick service food retail use and a community center.





Source: Census 2000 Data, The California Spatial Information Library (CaSIL).



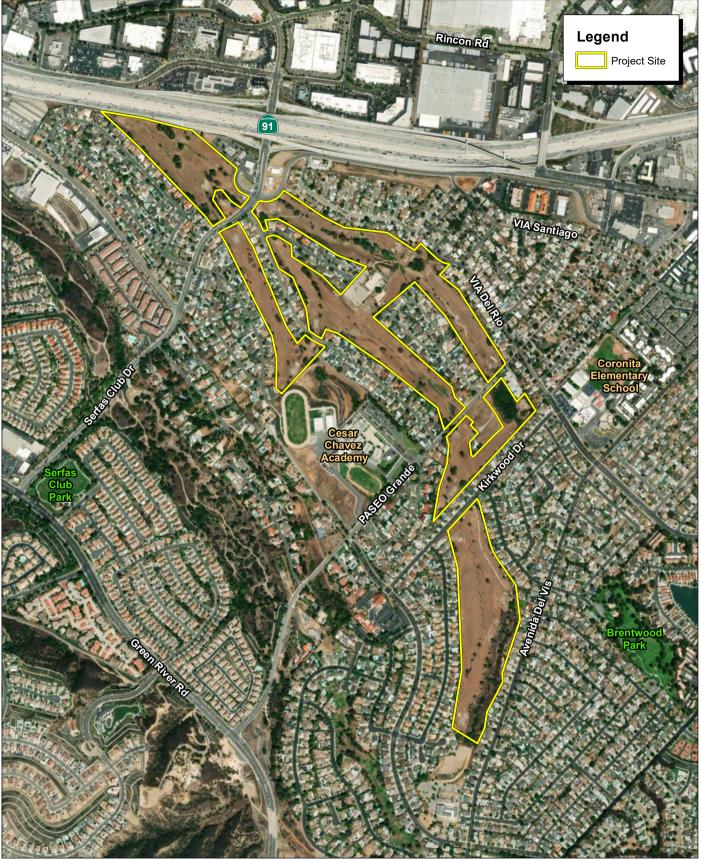


Source: USGS Corona North & Corona South 7.5' Quadrangles / T03S,R07W,sec27,28,33,34.



Exhibit 2 Local Vicinity Map, Topographic Base





Source: ESRI Aerial Imagery.



Exhibit 3 Local Vicinity Map, Aerial Base





Source: Urban Arena, 2024.



Exhibit 4 Project Site Plan



2.2.1 - Planning Phases

The proposed project is divided into six Planning Areas, five in the County of Riverside and one in the City of Corona; each Planning Area contains open space in the form of parks and trails open to the entire community.

The following uses are proposed in the six Planning Areas:

- Planning Area 1: 66 two-family residences
- Planning Area 2: 0.78-acre neighborhood commercial space with approximately 10,000 square feet of quick service food retail use
- Planning Area 3: 115 single-family detached residences, 50 two-family residences, and community center
- Planning Area 4: 47 single-family detached residences
- Planning Area 5: 31 single-family detached residences
- Planning Area 6 (City of Corona): No development

All 309 dwelling units would be 100 percent active adult and age-restricted to 60 years and older under the proposed project.

The proposed project would be completed in two phases. Phase I consists of Planning Areas 1, 2, and 3, Planning Area 6 would not be developed as a part of the proposed project. Phase II consists of Planning Areas 4 and 5.

2.2.2 - Open Space, Parks, and Trails

As noted above, each Planning Area contains open space in the form of parks and trails open to the public. Parks would include a combination of some of the following: walking, running, and biking trails, and tot lots, active sport courts, or dog parks. Park benches and large green spaces would also be provided for passive recreation.

The parks would serve the purpose of water quality restoration from stormwater and residential runoff, cleaning water before it percolates into the groundwater or enters the storm drain system. Additionally, some park areas would serve as detention basins, providing increased flood protection and stormwater flow control.

2.2.3 - General Setting

The proposed project is located on the former Mountain View Golf Course. The project area is currently vacant and has been so since the closing of the golf course in 2009. The project area primarily consists of developed land from former golf course operations with ruderal vegetation, native and non-native trees, and a natural drainage feature at the southern end of the property. Two remnant pond features occur on the project area as well as one pond feature with standing water that supports woody vegetation.

2.3 - Vegetation and Land Cover Types

Soil types and vegetation communities mapped and verified on the project area between 2015 and 2021 are described below (Exhibit 5 and Exhibit 6). Representative photographs of vegetation communities and land cover types on the project area are presented in Appendix A: Site Photographs.

2.3.1 - Soil Types

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey (2023), four to five types of soils are found within the project area (Exhibit 5). Each soil type present on-site is described in Table 1 below.

Table 1: Soils Present On-site

Soil Name	Slope	Acreage On-Site							
Garretson very fine sandy loam	2 to 8 percent slopes	31.47 acres							
Perkins loam	2 to 8 percent slopes	22.55 acres							
Perkins gravelly loam	2 to 5 percent slopes	2.29 acres							
	5 to 8 percent slopes	6.41 acres							
Terrace escarpments	N/A	42.98 acres							
Total:	Total:								

Source:

2.3.2 - Ruderal and Developed Land

The majority of the project area (99.36 acres) consists of developed land with remnant turf and various weedy species that have since expanded throughout the former golf course (Exhibit 6). Characteristic on-site ruderal vegetation includes non-native grasses and other weedy species such as London rocket (Sisymbrium irio), Bermuda grass (Cynodon dactylon), Russian thistle (Salsola tragus), horehound (Marrubium vulgare), lamb's quarters (Chenopodium album), cheeseweed (Malva parviflora), slender wild oat (Avena barbata), shortpod mustard (Hirschfeldia incana), giant reed (Arundo donax), curly dock (Rumex crispus), Mediterranean grass (Schismus barbatus), foxtail chess (Bromus madritensis ssp. rubens), prostrate pigweed (Amaranthus albus), cultivated radish (Rhaphanus sativus), milkvetch (Astragalus sp.), English ivy (Hedera helix), and smilo grass (Stipa miliacea var. miliacea).

Natural Resources Conservation Service (NRCS). 2023. Official Soil Series Descriptions. United States Department of Agriculture (USDA). Website: http://www.nrcs.usda.gov/. Accessed February 22, 2024.

Natural Resources Conservation Service (NRCS). 2023. Web Soil Survey (WSS). United States Department of Agriculture (USDA). Website: https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx. Accessed February 22, 2024.

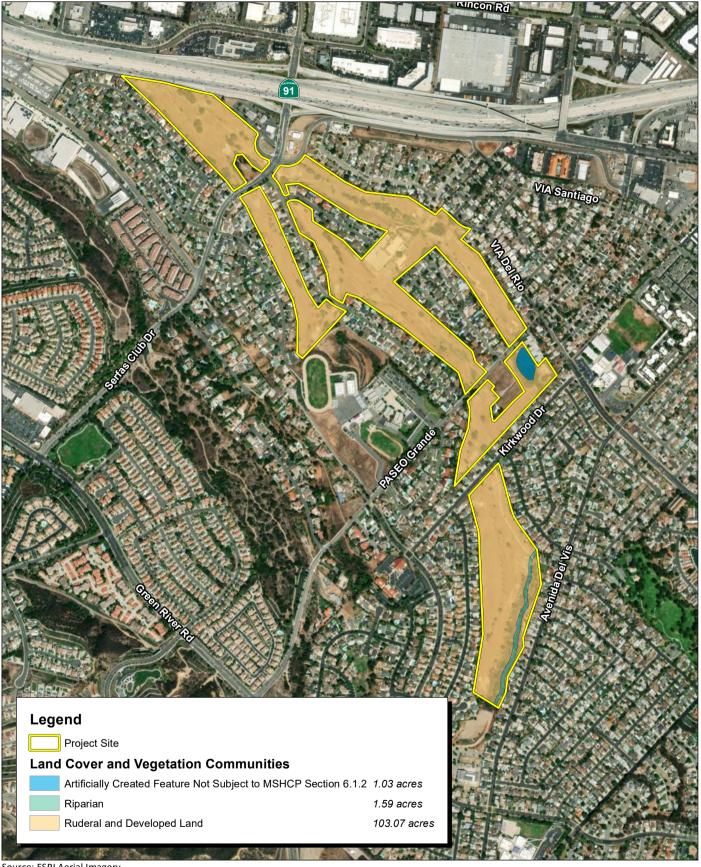


Source: ESRI Aerial Imagery. Western Riverside County Regional Conservation Authority (RCA).



Exhibit 5 Soils Map





Source: ESRI Aerial Imagery.



Trees

The project area contains both native and non-native planted trees scattered throughout the former golf course (Exhibit 6). The trees within the project boundaries include Peruvian pepper tree (Schinus molle), gum tree (Eucalyptus sp.), pines (Pinus sp.), Brazilian pepper tree (Schinus terebinthifolius), Acacia (Acacia sp.), evergreen ash (Fraxinus uhdei), white alder (Alnus rhombifolia), saltcedar (Tamarix ramosissima), Mexican fan palm (Washingtonia robusta), Canary Island palm (Phoenix canariensis), European olive (Olea europaea), coast live oaks (Quercus agrifolia) and California sycamore (Platanus racemosa).

2.3.3 - Riparian

A naturalized drainage feature located in the southern portion of the property is approximately 5 feet wide on average, and 1,500 linear feet in length for a total of 0.17 acre (Exhibit 6). The banks of the drainage feature are vegetated primarily with ruderal vegetation, with some patches of remnant sage scrub vegetation including scattered California goldenbush (*Ericameria ericoides*), California buckwheat (*Eriogonum fasciculatum*), and coastal sagebrush (*Artemisia californica*). The southern part of the drainage feature contains both native and non-native trees and shrubs, including species found in riverine habitats such as mulefat (*Baccharis salicifolia*) and willows (*Salix* spp) that cover 4.91 acres. Total riparian areas within the project are 5.08 acres.

2.3.4 - Pond

The golf course property contains three pond features, including one feature (1.42 acres) that contains standing water and supports woody vegetation that is typical of riparian areas, and two remnant ponds that are dry. Trees and shrubs include black willow (*Salix gooddingii*), arroyo willow (*Salix lasiolepis*), and mulefat. The feature that is actively ponded is connected to a storm drain from Kirkwood Drive but has been artificially created through human intervention and is not considered to be an MSHCP Riverine or Riparian resource as it is artificial in nature despite the presence of native woody vegetation which is ancillary to this artificially created resource.

The other two ponds are remnant features that are also clearly human-induced features which do not meet the definition of a Riparian or Riverine resource under Section 6.1.2 of the MSHCP. Based on the artificial nature of these drainage features, none of the three ponds would be considered as Riparian or Riverine resources under Section 6.1.2 of the MSHCP.

2.3.5 - Jurisdictional Areas

One naturalized drainage feature, Drainage A, located in the southern portion of the property is approximately 5 feet wide on average, and 1,500 linear feet in length for a total of 0.17-acre (Exhibit 7). The banks of the drainage feature are vegetated primarily with ruderal vegetation, with some patches of remnant sage scrub vegetation including scattered California goldenbush, California buckwheat, and coastal sagebrush. The southern part of the drainage feature contains both native and non-native trees and shrubs, including species found in riverine habitats such as mulefat and willows that cover 4.91 acres. However, it should be noted that Planning Area 6, including Drainage A, would not be impacted as a part of the proposed project.

Total riverine/riparian areas within the project are 5.08 acres—4.91 Riparian habitat and 0.17-acre riverine habitat. No other drainage features that would be considered riverine or riparian are present on-site.



Source: ESRI Aerial Imagery. National Wetland Inventory Data.



SECTION 3: REGULATORY SETTING

3.1 - Western Riverside County MSHCP

The project site is located within the MSHCP Plan Area (Regional Conservation Authority [RCA] 2022) but is not located "within or adjacent to" a Criteria Cell (RCA 2022). The nearest Criteria Cell Group is located approximately 1 mile west of the project area and the nearest Core Area is located approximately 0.5 mile north of the project area. This project area is not located within any Linkage; the nearest Linkage is approximately 2.5 miles northeast of the project area. Because of its location outside of any Criteria Cells or Cell Groups, the proposed project is not subject to Reserve Assembly Analysis requirements under the MSHCP. Because the project area is not within or adjacent to any MSHCP Conservation Areas, the proposed project is not subject to Guidelines Pertaining to the Urban/Wildlands Interface or other requirements under the MSHCP pertaining to projects or actions implemented within or adjacent to a Conservation Area.

The project area is not located within an area slated for "Existing or Pending Conservation" (RCA 2022). The project area does not feature "Avoidance Areas," or areas that must be protected by, or are proposed to be protected by, deed restriction. Current conditions and full development of the 160-acre project area would not provide for any contributions to "Undeveloped Areas Potentially Available for Future Conservation."

The project site falls within the boundaries of the MSHCP. However, as the site consists of a formerly developed golf course, the site is excluded from the MSHCP survey areas, which include Narrow Endemic Plant Species Survey Area, Criteria Area Species Survey Area, and burrowing owl survey area. Consequently, assessments are not required for these species pursuant to the MSHCP. However, MSHCP policies regarding riparian/riverine areas apply to all properties located within the MSHCP and as such, the project site must be assessed for these habitat areas. Project development would be consistent with the policies set forth in the MSHCP as well as policies related to the MSHCP in the County of Riverside 2015 Multipurpose Open Space Element.

3.1.1 - Section 6.1.2 of the MSHCP

As projects are proposed within the Plan Area, an assessment of the potentially significant effects of those projects on riparian/riverine areas, and vernal pools shall be performed as currently required by the California Environmental Quality Act (CEQA) using available information augmented by project-specific mapping provided to and reviewed by the permittee's Biologist(s). Riparian/riverine areas and vernal pools are defined for this section as follows:

Riparian/Riverine Areas

Riparian/Riverine Areas are lands which contain habitat dominated by trees, shrubs, persistent emergent, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year.

Vernal Pools

Vernal pools are seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics, and the definition of the watershed supporting vernal pool hydrology, must be made on a case-by-case basis. Such determinations should consider the length of the time the area exhibits upland and wetland characteristics and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, uses to which it has been subjected, and weather and hydrologic records.

Fairy Shrimp

For Riverside, vernal pool and Santa Rosa fairy shrimp, mapping of stock ponds, ephemeral pools and other features shall also be undertaken as determined appropriate by a qualified Biologist.

With the exception of wetlands created for the purpose of providing wetlands habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, areas demonstrating characteristics as described above which are artificially created are not included in these definitions.

SECTION 4: METHODS

As projects are proposed within the Plan Area, an assessment of the potentially significant effects of those projects on riparian/riverine areas, and vernal pools shall be performed as currently required by CEQA using available information augmented by project-specific mapping provided to and reviewed by the permittee's Biologist(s). Riparian/riverine areas and vernal pools are defined for this section as follows:

Riparian/Riverine Areas

Riparian/Riverine Areas are lands which contain habitat dominated by trees, shrubs, persistent emergent, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year.

Vernal Pools

Vernal pools are seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics, and the definition of the watershed supporting vernal pool hydrology, must be made on a case-by-case basis. Such determinations should consider the length of the time the area exhibits upland and wetland characteristics and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, uses to which it has been subjected, and weather and hydrologic records.

Fairy Shrimp

For Riverside, vernal pool and Santa Rosa fairy shrimp, mapping of stock ponds, ephemeral pools and other features shall also be undertaken as determined appropriate by a qualified biologist.

With the exception of wetlands created for the purpose of providing wetlands habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, areas demonstrating characteristics as described above which are artificially created are not included in these definitions.



SECTION 5: RESULTS

The following section describes the results of both the background research and analysis and the results of the protocol-level delineation field work. Representative photographs of current site conditions are included in Appendix A.

5.1 - Aquatic Resources

A naturalized drainage feature, Drainage Feature A, is in the southern portion of the property approximately 5 feet wide on average, and 1,500 linear feet in length for a total of 0.17 acre (Exhibit 7). The banks of the drainage feature are vegetated primarily with ruderal vegetation, with some patches of remnant sage scrub vegetation including scattered California goldenbush, California buckwheat, and coastal sagebrush.

The southern part of the drainage feature contains both native and non-native trees and shrubs, including species found in riverine habitats such as mulefat and willows that cover 4.91 acres. Total riparian areas within the project are 5.08 acres.

5.1.1 - Drainage Feature A

Drainage Feature A is in the southern portion of the project area. It should be noted that Planning Area 6, including Drainage A, would not be impacted as a part of the proposed project. This drainage feature averages 5 feet in width and flows in a southeast to northwest direction for approximately 1,500 feet before dissipating along one of the former fairways of the golf course. Historical aerial imagery indicates that Drainage Feature A was filled in its former downstream end to construct a golf course whereas a majority of the drainage seems to have been left intact due to the age of the willow trees associated with the drainage. The downstream end of the drainage appears to have been legally filled between 1980 and 1985 to construct the golf course. As a result, it was not considered a jurisdictional water.

During 2023, significant precipitation occurred in the City of Corona which resulted in 200 percent of typical rainfall. This resulted in unexpected sheet flow release onto the golf course from urban sources. This release occurred during the months of January through March 2023 during the rainy season which resulted in erosion within downstream areas formerly occupied by Drainage Feature A prior to its conversion and development into a golf course.

This erosion resulted in the artificial creation of Drainage Feature A from Paseo Grande Avenue westerly to Serfas Club Drive. Since this area was legally filled and artificially recreated, it does not meet the definition of a riparian or riverine area under the MSHCP and should not require a Determination of Biologically Equivalent or Superior Preservation (DBESP) to fill a feature that was already legally filled.

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5.1.2 - Drainage Feature B

Drainage Feature B is located in the northern portion of the project area. This feature is an erosional rill artificially created as a result of the 2022/2023 winter rainfall season. Historical aerial imagery indicates that Drainage Feature B was filled to construct a golf course. The feature appears to have been legally filled between 1980 and 1985 to construct the golf course. As a result, it was not considered a jurisdictional water.

During 2023, significant precipitation occurred in the City of Corona which resulted in 200 percent of typical rainfall. This resulted in unexpected sheet flow release onto the golf course from urban sources. This release occurred during the months of January through March 2023 during the rainy season which resulted in erosion within areas formerly occupied by Drainage Feature B prior to its conversion and development into a golf course.

This erosion resulted in the artificial creation of Drainage Feature B from Paseo Grande Avenue westerly to Serfas Club Drive. Since this area was legally filled and artificially recreated, it does not meet the definition of a riparian or riverine area under the MSHCP and should not require a DBESP to fill a feature that was already legally filled.

5.1.3 - Pond 1 Through Pond 3

The golf course property contains three pond features, including one feature (Pond 1-1.42 acres) that contains standing water and supports woody vegetation that is typical of riparian areas, and two remnant ponds that are dry (Pond 2 and Pond 3). Trees and shrubs include black willow, arroyo willow, and mulefat. The feature that is actively ponded is connected to a storm drain from Kirkwood Drive but has been artificially created through human intervention and appears to be lined for irrigation purposes. None of the three ponds would be considered as an MSHCP Riverine or Riparian resource as they were clearly constructed along with the golf course. They are artificial in nature despite the presence of native woody vegetation which is ancillary to this artificially created resource.

Based on the artificial nature of these ponds, none of the three ponds would be considered as Riparian or Riverine resources under Section 6.1.2 of the MSHCP.

SECTION 6: CONCLUSION

6.1 - Aquatic Resources

6.1.1 - Drainage Feature A

A naturalized drainage feature, Drainage Feature A, is located in the southern portion of the property approximately 5 feet wide on average, and 1,500 linear feet in length for a total of 0.17 acre. The banks of the drainage feature are vegetated primarily with ruderal vegetation, with some patches of remnant sage scrub vegetation including scattered California goldenbush, California buckwheat, and coastal sagebrush.

The southern part of the drainage feature contains both native and non-native trees and shrubs, including species found in riverine habitats such as mulefat and willows that cover 4.91 acres. Total riparian areas within the project are 5.08 acres.

This drainage feature, Drainage Feature A, is considered a riparian/riverine resource for its 5.08-acre, 1.500 linear foot length.

6.1.2 - Drainage Feature B

Feature B is located in the northern portion of the project area. This feature is an erosional rill artificially created as a result of the 2022/2023 winter rainfall season. Historical aerial imagery indicates that Drainage Feature B was filled to construct a golf course. The feature appears to have been legally filled between 1980 and 1985 to construct the golf course. As a result, it was not considered a jurisdictional water.

6.1.3 - Pond 1 Through Pond 3

The golf course property contains three pond features, including one feature (Pond 1-1.42 acres) that contains standing water and supports woody vegetation that is typical of riparian areas, and two remnant ponds that are dry (Ponds 2 and 3). Trees and shrubs include black willow, arroyo willow, and mulefat. The feature that is actively ponded is connected to a storm drain from Kirkwood Drive but has been artificially created through human intervention and appears to be lined for irrigation purposes. None of the three ponds would be considered as an MSHCP Riverine or Riparian resource as they were clearly constructed along with the golf course. They are artificial in nature despite the presence of native woody vegetation which is ancillary to this artificially created resource.

Based on the artificial nature of these ponds, none of the three ponds would be considered as Riparian or Riverine resources under Section 6.1.2 of the MSHCP.

Based on the project site plan, this feature is being fully avoided so no DBESP would be required as no riparian/riverine resources would be affected by the proposed project.

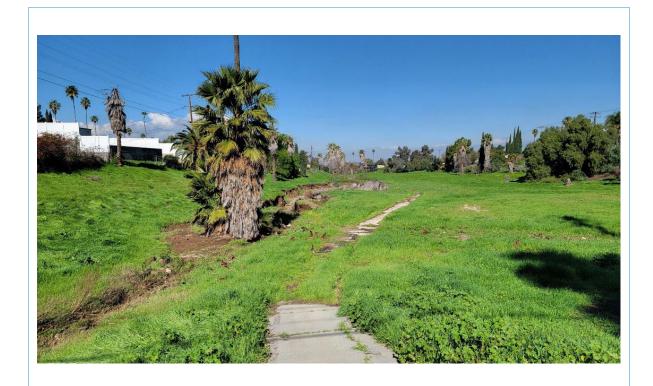
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xbow Partners—Trails at Corona Specific Plan Project
Vestern Riverside County MSHCP Riparian/Riverine Assessment Report

Appendix A: Site Photographs

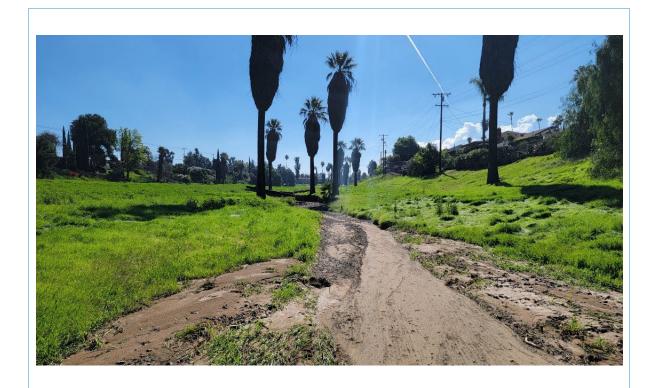




Photograph 1: View of northern drainage from Paseo Grande, facing northwest.



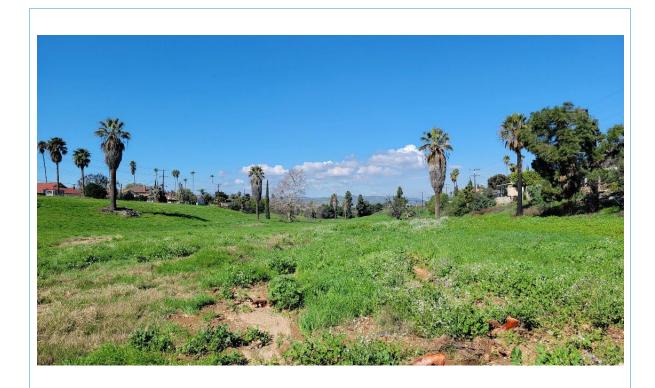
Photograph 2: View of northern drainage, facing northwest.



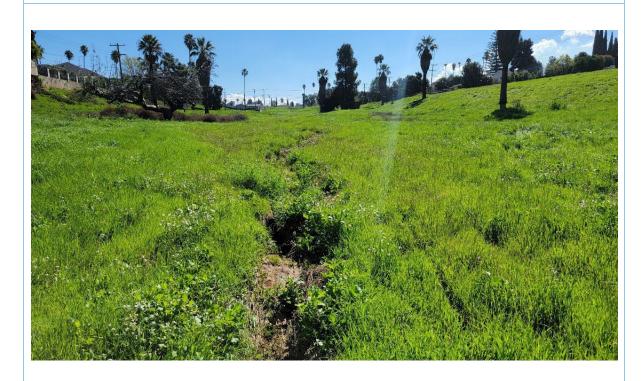
Photograph 3: View of northern drainage, facing southeast.



Photograph 4: View of southern drainage from Paseo Grande, facing northwest.



Photograph 5: View of area around the southern drainage, facing northwest.



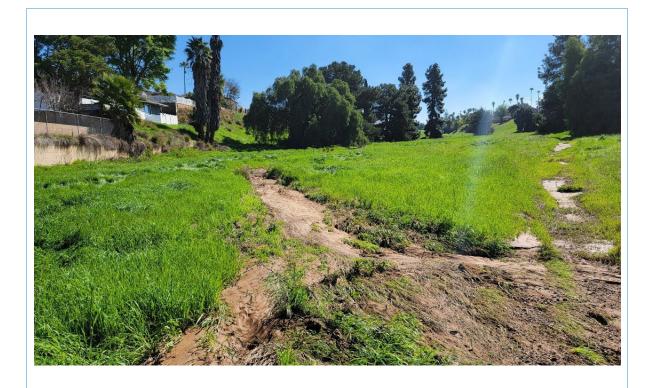
Photograph 6: View of southern drainage, facing southeast.



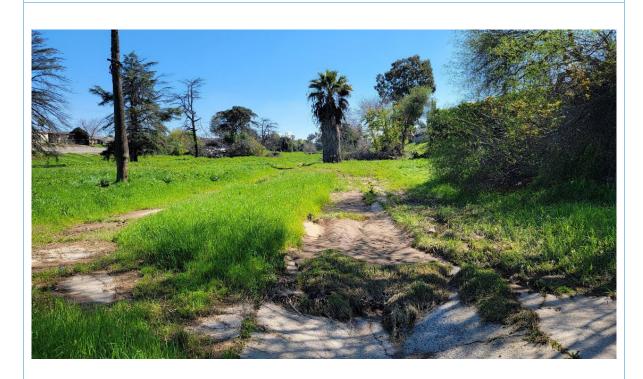
Photograph 7: View of southern drainage, facing southeast.



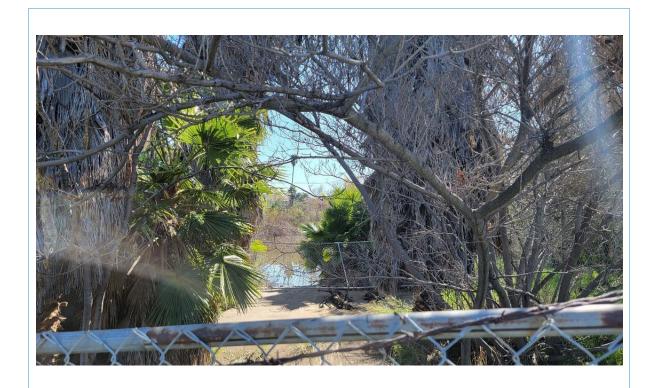
Photograph 8: View of southern drainage, facing northwest.



Photograph 9: View of southern drainage, facing southeast.



Photograph 10: View of northern drainage near Serfas Club Drive, facing southeast.



Photograph 11: View of artificially created eastern basin from Paseo Grande, facing southeast.



Photograph 12: View of eastern basin, facing northeast.



Photograph 13: View of eastern basin, facing northwest.

