

Appendix B
Biological Resources Appendices

Literature Review



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad is (Canada Gobernadora (3311755) or Dana Point (3311746) or El Toro (3311766) or Laguna Beach (3311757) or San Clemente (3311745) or San Juan Capistrano (3311756) or Santiago Peak (3311765) or Tustin (3311767))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	None	G2G3	S1S2	SSC
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S2S3	WL
<i>Ammodramus savannarum</i> grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
<i>Anaxyrus californicus</i> arroyo toad	AAABB01230	Endangered	None	G2G3	S2S3	SSC
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Aphanisma blitoides</i> aphanisma	PDCHE02010	None	None	G3G4	S2	1B.2
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Asio otus</i> long-eared owl	ABNSB13010	None	None	G5	S3?	SSC
<i>Aspidoscelis hyperythra</i> orangethroat whiptail	ARACJ02060	None	None	G5	S2	SSC
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	ARACJ02143	None	None	G5T3T4	S2S3	
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex coulteri</i> Coulter's saltbush	PDCHE040E0	None	None	G2	S2	1B.2
<i>Atriplex pacifica</i> south coast saltscale	PDCHE041C0	None	None	G3G4	S2	1B.2
<i>Atriplex parishii</i> Parish's brittle scale	PDCHE041D0	None	None	G1G2	S1	1B.1
<i>Atriplex serenana var. davidsonii</i> Davidson's salt scale	PDCHE041T1	None	None	G5T1	S1	1B.2
<i>Branchinecta sandiegonensis</i> San Diego fairy shrimp	ICBRA03060	Endangered	None	G2	S2	
<i>Brodiaea filifolia</i> thread-leaved brodiaea	PMLIL0C050	Threatened	Endangered	G1	S1	1B.1
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL



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<i>Calochortus weedii</i> var. <i>intermedius</i> intermediate mariposa-lily	PMLIL0D1J1	None	None	G3G4T2	S2	1B.2
<i>Campylorhynchus brunneicapillus sandiegensis</i> coastal cactus wren	ABPBG02095	None	None	G5T3Q	S3	SSC
Canyon Live Oak Ravine Forest Canyon Live Oak Ravine Forest	CTT61350CA	None	None	G3	S3.3	
<i>Centromadia parryi</i> ssp. <i>australis</i> southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i> Orcutt's pincushion	PDAST20095	None	None	G5T1T2	S1	1B.1
<i>Chaetodipus californicus femoralis</i> Dulzura pocket mouse	AMAFD05021	None	None	G5T3	S3	SSC
<i>Chaetodipus fallax fallax</i> northwestern San Diego pocket mouse	AMAFD05031	None	None	G5T3T4	S3S4	SSC
<i>Charina trivirgata</i> rosy boa	ARADA01020	None	None	G4G5	S3S4	
<i>Choeronycteris mexicana</i> Mexican long-tongued bat	AMACB02010	None	None	G4	S1	SSC
<i>Chorizanthe polygonoides</i> var. <i>longispina</i> long-spined spineflower	PDPGN040K1	None	None	G5T3	S3	1B.2
<i>Circus cyaneus</i> northern harrier	ABNKC11010	None	None	G5	S3	SSC
<i>Clinopodium chandleri</i> San Miguel savory	PDLAM08030	None	None	G2	S2	1B.2
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T3Q	S1	
<i>Coelus globosus</i> globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
<i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i> summer holly	PDERI0B011	None	None	G3T2	S1	1B.2
<i>Crotalus ruber</i> red-diamond rattlesnake	ARADE02090	None	None	G4	S2?	SSC
<i>Danaus plexippus</i> pop. 1 monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
<i>Dipodomys stephensi</i> Stephens' kangaroo rat	AMAFD03100	Endangered	Threatened	G2	S2	
<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i> Blochman's dudleya	PDCRA04051	None	None	G3T2T3	S2	1B.1
<i>Dudleya multicaulis</i> many-stemmed dudleya	PDCRA040H0	None	None	G2	S2	1B.2
<i>Dudleya stolonifera</i> Laguna Beach dudleya	PDCRA040P0	Threatened	Threatened	G1	S1	1B.1



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<i>Dudleya viscida</i> sticky dudleya	PDCRA040T0	None	None	G2	S2	1B.2
<i>Elanus leucurus</i> white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	G5T2	S1	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eremophila alpestris actia</i> California horned lark	ABPAT02011	None	None	G5T3Q	S3	WL
<i>Eryngium pendletonense</i> Pendleton button-celery	PDAP10Z120	None	None	G1	S1	1B.1
<i>Eucyclogobius newberryi</i> tidewater goby	AFCQN04010	Endangered	None	G3	S3	SSC
<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
<i>Euphorbia misera</i> cliff spurge	PDEUP0Q1B0	None	None	G5	S2	2B.2
<i>Gila orcuttii</i> arroyo chub	AFCJB13120	None	None	G2	S2	SSC
<i>Harpagonella palmeri</i> Palmer's grapplinghook	PDBOR0H010	None	None	G4	S3	4.2
<i>Helianthus nuttallii ssp. parishii</i> Los Angeles sunflower	PDAST4N102	None	None	G5TH	SH	1A
<i>Hesperocyparis forbesii</i> Tecate cypress	PGCUP040C0	None	None	G2	S2	1B.1
<i>Horkelia cuneata var. puberula</i> mesa horkelia	PDR0S0W045	None	None	G4T1	S1	1B.1
<i>Icteria virens</i> yellow-breasted chat	ABPBX24010	None	None	G5	S3	SSC
<i>Imperata brevifolia</i> California satintail	PMPOA3D020	None	None	G3	S3	2B.1
<i>Isocoma menziesii var. decumbens</i> decumbent goldenbush	PDAST57091	None	None	G3G5T2T3	S2	1B.2
<i>Lampropeltis zonata (pulchra)</i> California mountain kingsnake (San Diego population)	ARADB19063	None	None	G4G5	S1S2	SSC
<i>Lasiurus blossevillii</i> western red bat	AMACC05060	None	None	G5	S3	SSC
<i>Lasthenia glabrata ssp. coulteri</i> Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
<i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP



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<i>Lepechinia cardiophylla</i> heart-leaved pitcher sage	PDLAM0V020	None	None	G3?	S2S3	1B.2
<i>Lepidium virginicum var. robinsonii</i> Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
<i>Monardella hypoleuca ssp. intermedia</i> intermediate monardella	PDLAM180A4	None	None	G4T2T3	S2S3	1B.3
<i>Monardella macrantha ssp. hallii</i> Hall's monardella	PDLAM180E1	None	None	G5T3	S3	1B.3
<i>Myosurus minimus ssp. apus</i> little mousetail	PDRAN0H031	None	None	G5T2Q	S2	3.1
<i>Myotis yumanensis</i> Yuma myotis	AMACC01020	None	None	G5	S4	
<i>Nama stenocarpa</i> mud nama	PDHYD0A0H0	None	None	G4G5	S1S2	2B.2
<i>Navarretia prostrata</i> prostrate vernal pool navarretia	PDPLM0C0Q0	None	None	G2	S2	1B.1
<i>Neotoma lepida intermedia</i> San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
<i>Nolina cismontana</i> chaparral nolina	PMAGA080E0	None	None	G3	S3	1B.2
<i>Nyctinomops femorosaccus</i> pocketed free-tailed bat	AMACD04010	None	None	G4	S3	SSC
<i>Nyctinomops macrotis</i> big free-tailed bat	AMACD04020	None	None	G5	S3	SSC
<i>Oncorhynchus mykiss irideus</i> southern steelhead - southern California DPS	AFCHA0209J	Endangered	None	G5T1Q	S1	SSC
<i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow	ABPBX99015	None	Endangered	G5T3	S3	
<i>Pentachaeta aurea ssp. allenii</i> Allen's pentachaeta	PDAST6X021	None	None	G4T1	S1	1B.1
<i>Perognathus longimembris pacificus</i> Pacific pocket mouse	AMAFD01042	Endangered	None	G5T1	S1	SSC
<i>Phacelia keckii</i> Santiago Peak phacelia	PDHYD0C4G1	None	None	G2	S2	1B.3
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<i>Plestiodon skiltonianus interparietalis</i> Coronado Island skink	ARACH01114	None	None	G5T2T3Q	S1S2	SSC
<i>Poliophtila californica californica</i> coastal California gnatcatcher	ABPBJ08081	Threatened	None	G3T2	S2	SSC
<i>Pseudognaphalium leucocephalum</i> white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2



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<i>Quercus dumosa</i> Nuttall's scrub oak	PDFAG050D0	None	None	G3	S3	1B.1
<i>Rallus longirostris levipes</i> light-footed clapper rail	ABNME05014	Endangered	Endangered	G5T1T2	S1	FP
<i>Rhinichthys osculus ssp. 3</i> Santa Ana speckled dace	AFCJB3705K	None	None	G5T1	S1	SSC
<i>Salvadora hexalepis virgultea</i> coast patch-nosed snake	ARADB30033	None	None	G5T4	S2S3	SSC
<i>Senecio aphanactis</i> chaparral ragwort	PDAST8H060	None	None	G3?	S2	2B.2
<i>Sidalcea neomexicana</i> Salt Spring checkerbloom	PDMAL110J0	None	None	G4	S2	2B.2
<i>Sorex ornatus salicornicus</i> southern California saltmarsh shrew	AMABA01104	None	None	G5T1?	S1	SSC
<i>Southern Coast Live Oak Riparian Forest</i> Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
<i>Southern Coastal Salt Marsh</i> Southern Coastal Salt Marsh	CTT52120CA	None	None	G2	S2.1	
<i>Southern Cottonwood Willow Riparian Forest</i> Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
<i>Southern Dune Scrub</i> Southern Dune Scrub	CTT21330CA	None	None	G1	S1.1	
<i>Southern Foredunes</i> Southern Foredunes	CTT21230CA	None	None	G2	S2.1	
<i>Southern Mixed Riparian Forest</i> Southern Mixed Riparian Forest	CTT61340CA	None	None	G2	S2.1	
<i>Southern Riparian Scrub</i> Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
<i>Southern Sycamore Alder Riparian Woodland</i> Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
<i>Spea hammondi</i> western spadefoot	AAABF02020	None	None	G3	S3	SSC
<i>Sternula antillarum browni</i> California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2	FP
<i>Streptocephalus woottoni</i> Riverside fairy shrimp	ICBRA07010	Endangered	None	G1G2	S1S2	
<i>Suaeda esteroa</i> estuary seablite	PDCHE0P0D0	None	None	G3	S2	1B.2
<i>Symphotrichum defoliatum</i> San Bernardino aster	PDASTE80C0	None	None	G2	S2	1B.2
<i>Taricha torosa</i> Coast Range newt	AAAAF02032	None	None	G4	S4	SSC



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<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC
<i>Thamnophis hammondi</i> two-striped garter snake	ARADB36160	None	None	G4	S3S4	SSC
<i>Tryonia imitator</i> mimic tryonia (=California brackishwater snail)	IMGASJ7040	None	None	G2	S2	
Valley Needlegrass Grassland Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
<i>Verbesina dissita</i> big-leaved crownbeard	PDAST9R050	Threatened	Threatened	G2G3	S1	1B.1
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	

Record Count: 109

SunPointe - Colinas Sur

IPaC Trust Resource Report

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US Fish & Wildlife Service

IPaC Trust Resource Report



Project Description

NAME

SunPointe - Colinas Sur

PROJECT CODE

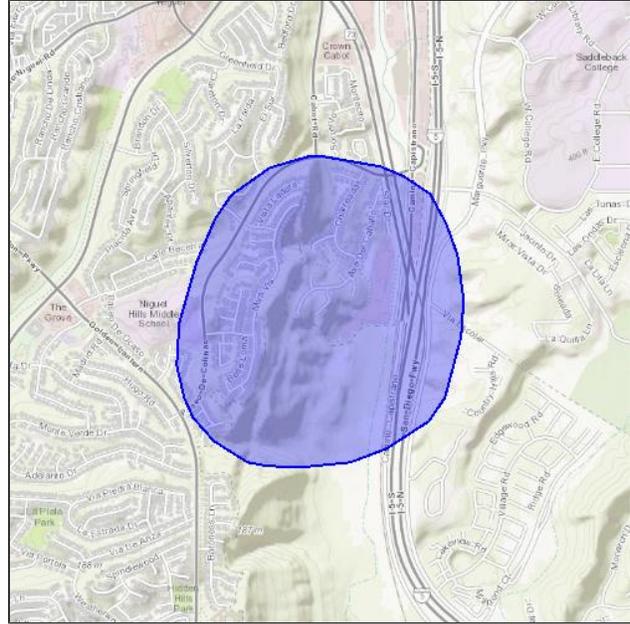
AASW7-B64ZV-D3HMZ-QRCXA-26S5WU

LOCATION

Orange County, California

DESCRIPTION

No description provided



U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

Carlsbad Fish And Wildlife Office

2177 Salk Avenue - Suite 250

Carlsbad, CA 92008-7385

(760) 431-9440

Endangered Species

Proposed, candidate, threatened, and endangered species that are managed by the [Endangered Species Program](#) and should be considered as part of an effect analysis for this project.

This unofficial species list is for informational purposes only and does not fulfill the requirements under [Section 7](#) of the Endangered Species Act, which states that Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action." This requirement applies to projects which are conducted, permitted or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can be obtained by returning to this project on the IPaC website and requesting an Official Species List from the regulatory documents section.

Amphibians

Arroyo (=arroyo Southwestern) Toad *Anaxyrus californicus* **Endangered**

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=D020>

Birds

California Least Tern *Sterna antillarum browni* **Endangered**

CRITICAL HABITAT

No critical habitat has been designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B03X>

Coastal California Gnatcatcher *Poliptila californica californica* **Threatened**

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B08X>

Least Bell's Vireo *Vireo bellii pusillus* **Endangered**

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B067>

Southwestern Willow Flycatcher *Empidonax traillii extimus* **Endangered**

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B094>

Crustaceans

Riverside Fairy Shrimp *Streptocephalus woottoni* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=K03F>

San Diego Fairy Shrimp *Branchinecta sandiegonensis* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=K049>

Fishes

Steelhead *Oncorhynchus* (=Salmo) *mykiss* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E08D>

Steelhead *Oncorhynchus* (=Salmo) *mykiss* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E08D>

Tidewater Goby *Eucyclogobius newberryi* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E071>

Flowering Plants

Big-leaved Crownbeard *Verbesina dissita* Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q3GB>

Laguna Beach Liveforever *Dudleya stolonifera* Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q00H>

Thread-leaved Brodiaea *Brodiaea filifolia* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q09H>

Mammals

Pacific Pocket Mouse *Perognathus longimembris pacificus*

Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=A0BY>

Critical Habitats

Potential effects to critical habitat(s) within the project area must be analyzed along with the endangered species themselves.

There is no critical habitat within this project area

Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the Bald and Golden Eagle Protection Act.

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

You are responsible for complying with the appropriate regulations for the protection of birds as part of this project. This involves analyzing potential impacts and implementing appropriate conservation measures for all project activities.

<p>Bald Eagle <i>Haliaeetus leucocephalus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B008</p>	Bird of conservation concern
<p>Black Oystercatcher <i>Haematopus bachmani</i> Year-round</p>	Bird of conservation concern
<p>Black Skimmer <i>Rynchops niger</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B0EO</p>	Bird of conservation concern
<p>Brewer's Sparrow <i>Spizella breweri</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B0HA</p>	Bird of conservation concern
<p>Burrowing Owl <i>Athene cunicularia</i> Year-round</p>	Bird of conservation concern
<p>Cactus Wren <i>Campylorhynchus brunneicapillus</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B0FZ</p>	Bird of conservation concern
<p>Costa's Hummingbird <i>Calypte costae</i> Season: Breeding</p>	Bird of conservation concern
<p>Fox Sparrow <i>Passerella iliaca</i> Season: Wintering</p>	Bird of conservation concern
<p>Lawrence's Goldfinch <i>Carduelis lawrencei</i> Year-round</p>	Bird of conservation concern
<p>Least Bittern <i>Ixobrychus exilis</i> Year-round</p>	Bird of conservation concern
<p>Lesser Yellowlegs <i>Tringa flavipes</i> Season: Wintering</p>	Bird of conservation concern
<p>Lewis's Woodpecker <i>Melanerpes lewis</i> Season: Wintering</p>	Bird of conservation concern
<p>Loggerhead Shrike <i>Lanius ludovicianus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?sPCODE=B0FY</p>	Bird of conservation concern

Long-billed Curlew <i>Numenius americanus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06S	Bird of conservation concern
Marbled Godwit <i>Limosa fedoa</i> Season: Wintering	Bird of conservation concern
Mountain Plover <i>Charadrius montanus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078	Bird of conservation concern
Nuttall's Woodpecker <i>Picoides nuttallii</i> Year-round	Bird of conservation concern
Oak Titmouse <i>Baeolophus inornatus</i> Year-round	Bird of conservation concern
Peregrine Falcon <i>Falco peregrinus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU	Bird of conservation concern
Short-billed Dowitcher <i>Limnodromus griseus</i> Season: Wintering	Bird of conservation concern
Short-eared Owl <i>Asio flammeus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HD	Bird of conservation concern
Tricolored Blackbird <i>Agelaius tricolor</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06P	Bird of conservation concern
Whimbrel <i>Numenius phaeopus</i> Season: Wintering	Bird of conservation concern
Yellow Warbler <i>dendroica petechia</i> ssp. <i>brewsteri</i> Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0EN	Bird of conservation concern
Red Knot <i>Calidris canutus</i> ssp. <i>roselaari</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0G6	Bird of conservation concern

Refuges

Any activity proposed on [National Wildlife Refuge](#) lands must undergo a 'Compatibility Determination' conducted by the Refuge. If your project overlaps or otherwise impacts a Refuge, please contact that Refuge to discuss the authorization process.

There are no refuges within this project area

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

Project proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

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 tubercid 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.

Freshwater Pond

PUBHx

1.09 acres

Riverine

R4SBCx

9.62 acres

Species Observed Onsite

Table for Report

Scientific Name	Common Name	Special Status
GYMNOSPERMS		
Pinaceae - Pine family		
<i>Pinus coulteri</i>	Coulter pine	
<i>Pinus halepense</i>	Aleppo pine	
EUDICOTS		
Anacardiaceae - Sumac Or Cashew family		
* <i>Schinus molle</i>	Peruvian pepper tree	
Apiaceae - Carrot family		
* <i>Foeniculum vulgare</i>	Fennel	
Apocynaceae - Dogbane family		
<i>Asclepias californica</i>	California milkweed	
Asteraceae - Sunflower family		
<i>Artemisia californica</i>	California sagebrush	
<i>Baccharis pilularis ssp. pilularis</i>	Coyote brush	
<i>Baccharis salicifolia ssp. salicifolia</i>	Mule fat	
* <i>Centaurea solstitialis</i>	Yellow starthistle	
* <i>Cynara cardunculus ssp. cardunculus</i>	Artichoke	
<i>Heterotheca grandiflora</i>	Telegraph weed	
<i>Isocoma menziesii</i>	Coastal goldenbush	
* <i>Lactuca serriola</i>	Prickly lettuce	
<i>Lepidospartum squamatum</i>	California broomsage	
Chenopodiaceae - Goosefoot family		
* <i>Salsola tragus</i>	Prickly russian thistle	
Cucurbitaceae - Gourd family		
<i>Cucurbita foetidissima</i>	Calabazilla	
Fabaceae - Legume family		
* <i>Melilotus sp.</i>	Sweetclover	
Lamiaceae - Mint family		
<i>Salvia apiana</i>	White sage	
<i>Salvia leucophylla</i>	Purple sage	
Polygonaceae - Buckwheat family		
<i>Eriogonum fasciculatum</i>	California buckwheat	
Salicaceae - Willow family		
<i>Salix lasiolepis</i>	Arroyo willow	

Scientific Name	Common Name	Special Status
Scrophulariaceae - Figwort family		
* <i>Myoporum laetum</i>	Ngaio tree	
Solanaceae - Nightshade family		
<i>Datura wrightii</i>	Wright's jimsonweed	
* <i>Nicotiana glauca</i>	Tree tobacco	
Tamaricaceae - Tamarisk family		
* <i>Tamarix ramosissima</i>	Hairy tamarix	
MONOCOTS		
Areaceae - Palm family		
* <i>Washingtonia robusta</i>	Mexican fan palm	
Poaceae - Grass family		
* <i>Avena barbata</i>	Slender wild oat	
* <i>Bromus madritensis ssp. madritensis</i>	Foxtail brome	
<i>Phalaris sp.</i>	Canary grass	
Typhaceae - Cattail family		
* <i>Typha angustifolia</i>	Narrow-leaved cattail	

Legend

*= Non-native or invasive species

Special Status:

Federal:

FE = Endangered

FT = Threatened

State:

SE = Endangered

ST =Threatened

CRPR – California Rare Plant Rank

1A. Presumed extinct in California and elsewhere

1B. Rare or Endangered in California and elsewhere

2A. Presumed extinct in California, more common elsewhere

2B. Rare or Endangered in California, more common elsewhere

3. Plants for which we need more information - Review list

4. Plants of limited distribution - Watch list

Threat Ranks

.1 - Seriously endangered in California

.2 – Fairly endangered in California

.3 – Not very endangered in California

Wildlife Species Detected

Scientific Name	Common Name	Special Status
INVERTEBRATES		
Insects		
<i>Tramea lacerata</i>	Black Saddlebags	
<i>Pepsis / Hemipepsis sp.</i>	Tarantula Hawk Wasp	
VERTEBRATES		
Reptiles		
<i>Sceloporus occidentalis</i>	Western Fence Lizard	
Birds		
<i>Cathartes aura</i>	Turkey Vulture	
<i>Accipiter cooperii</i>	Cooper's Hawk	
<i>Zenaida macroura</i>	Mourning Dove	
<i>Calypte anna</i>	Anna's Hummingbird	
<i>Selasphorus sasin</i>	Allen's Hummingbird	
<i>Falco sparverius</i>	American Kestrel	
<i>Sayornis nigricans</i>	Black Phoebe	
<i>Tyrannus vociferans</i>	Cassin's Kingbird	
<i>Corvus brachyrhynchos</i>	American Crow	
<i>Corvus corax</i>	Common Raven	
<i>Chamaea fasciata</i>	Wrentit	
<i>Mimus polyglottos</i>	Northern Mockingbird	
<i>Melospiza crissalis</i>	California Towhee	
<i>Melospiza melodia</i>	Song Sparrow	
<i>Haemorhous mexicanus</i>	House Finch	
<i>Carduelis psaltria</i>	Lesser Goldfinch	
Mammals		
<i>Canis latrans</i>	Coyote	

Scientific Name	Common Name	Special Status
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Legend

*= Non-native or invasive species

Special Status:

Federal:

FE = Endangered

FT = Threatened

State:

SE = Endangered

ST =Threatened

CSC = California Species of Special Concern

CFP = California Fully Protected Species

Jurisdictional Delineation



April 15, 2016

Charles Mallon
Euland Capital Enterprises
59 Honeyflower
Irvine, California 92620

Subject: SunPointe Jurisdictional Delineation

Dear Mr. Mallon:

The purpose of this letter is to document the delineation efforts of VCS Environmental, Inc. (VCS) biologist Wade Caffrey. VCS conducted a jurisdiction delineation of the property on October 1, 2015 (Aerial Photo – Figure 1). In summary, no jurisdictional waters or wetlands were observed within the property as further discussed below.

Methodology

Waters of the United States

The Survey Area was assessed for jurisdictional wetland and non-wetland Waters of the United States. To determine the presence of a wetland, three indicators are required: (1) hydrophytic vegetation, (2) hydric soils, and (3) wetland hydrology. The methodology published in the *United States Army Corps of Engineers 1987 Wetland Delineation Manual* and the *Arid West Supplement* sets the standards for meeting each of the three indicators, which normally require that 50 percent or more dominant plant species typical of a wetland, soils exhibiting characteristics of saturation, and hydrological indicators be present. Projects with impacts to Waters of the United States are regulated under Sections 401 and 404 of the Clean Water Act.

Jurisdictional non-wetland Waters of the United States are typically determined through the observation of an Ordinary High Water Mark (OHWM), which is defined as the “line on the shore established by the fluctuation of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.” Projects with impacts to Waters of the United States are regulated under Sections 401 and 404 of the Clean Water Act.

Waters of the State

Prior to the site visit, VCS reviewed California Department of Fish and Wildlife (CDFW) delineation methodology as found in the *Methods to Describe and Delineate Episodic Stream Processes on Arid Landscapes for Permitting Utility-Scale Solar Power Plants*¹ report. CDFW has jurisdiction over Waters of the State (California Fish and Game Code §1600 et seq.; California Code of Regulations, Title 14, §720). Section 1602 of the California Fish and Game Code (FGC) applies to natural rivers, streams, and lakes:

“An entity may not substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake”

CDFW defines a stream as “a body of water that flows perennially or episodically and that is defined by the area in which water currently flows, or has flowed, over a given course during the historic hydrologic course regime, and where the width of its course can reasonably be identified by physical or biological indicators” (Brady and Vyverberg 2013). CDFW regulates wetland areas only to the extent that those wetlands are part of a stream, river, or lake as defined by the CDFW.

Results

Prior to the field investigation, VCS reviewed historical aerial imagery for the Survey Area to determine the potential for perennial, intermittent, or ephemeral drainages and associated riparian resources. Generally indicators of jurisdictional drainages on an aerial photo include vegetation and/or incised lines indicating the path of flowing water. Neither of those indicators were observed on any of the historic aerials of the project site.

On October 1, 2015 a field survey was conducted and no jurisdictional wetland or non-wetland features were observed within the property. The project site has undergone geotechnical exploration, which included the installation of four hydraugers, which are horizontally drilled dewatering wells. The first three wells were installed in May 2013 and the fourth well installed in November 2013. The hydraugers outlet into a small lined basin filled with gravel. This basin was constructed in January 2014. The basin is designed to collect and hold groundwater discharged from the hydraugers until the water evaporates. A lack of maintenance has resulted

¹ Brady, Roland H. III, Kris Vyverberg. 2013. *Methods to Describe and Delineate Episodic Stream Processes on Arid Landscapes for Permitting Utility-Scale Solar Power Plants*. California Energy Commission. Publication Number: CEC-500-2014-013.

in the growth of hydrophytic vegetation (cattails [*Typha* sp.]); however, this lined basin is a man-made isolated feature not having any downstream connectivity to jurisdictional waters and is therefore non-jurisdictional. The dewatering program has been turned off. Each hydrauger has a valve. Since the basin is lined it continues to collect rainwater, which was the case in this last wet season. Once drier weather occurs, the vegetation in the basin will vanish because of the lack of a constant water source.

Photos of the installation of the hydraugers and lined basin are attached in Figure 2. Note, these photos also provide evidence of the lack of a jurisdictional feature upstream of the basin, which supports the conclusion that no jurisdictional waters exist on the project site.

Conclusion

Regulatory permits through the Regional Water Quality Control Board for a Section 401 Water Quality Certification, the United States Army Corps of Engineers for a Section 404 Permit, and CDFW for a Section 1602 Streambed Alteration Agreement are only required for projects with impacts to jurisdictional waters. The project site does not contain any jurisdictional waters and therefore, regulatory permits are not required.

Should you have any questions or comments, please contact me at 949.489.2700 extension 213 or wcaffrey@vcsenvironmental.com.

Attachments

- Figure 1 – Aerial Photo
- Figure 2 – Site Photos

Sincerely,

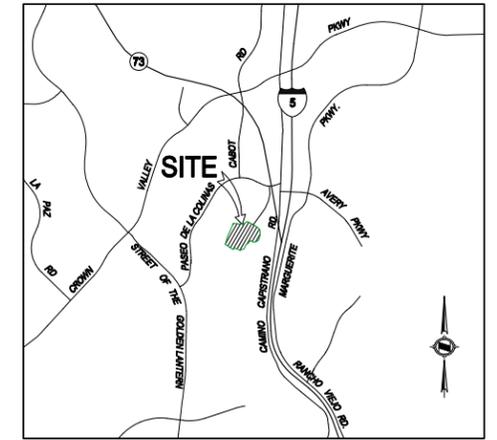


Wade Caffrey
Senior Project Manager/Biologist

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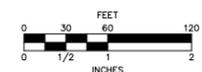
VICINITY MAP



LEGEND

— PROJECT BOUNDARY

Figure 1



AERIAL BOUNDARY OVERLAY
SunPointe
VESTING TENTATIVE TRACT NO. 17433
City of Laguna Niguel

PREPARED FOR:
EULAND CAPITAL
ENTERPRISES, LP.
 59 Honeyflower
 Irvine, CA 92620
 Phone: (949) 293-2246
 Fax: (949) 387-0933

PREPARED BY
HUNSAKER & ASSOCIATES
IRVINE, INC.
 PLANNING • ENGINEERING • SURVEYING
 Three Hughes • Irvine, CA 92618 • P: (949) 583-9010 • F: (949) 583-0759
 DATE PREPARED: OCTOBER 1, 2015



May 1, 2013 prior to drilling hydraugers.



November 1, 2013 drilling the last hydrauger.



May 21, 2013, initial hydraugers in place and producing groundwater.



July 14, 2013, first three hydraugers in place.



January 17, 2014, lined, gravel basin constructed.



April 11, 2014, all hydraugers in place and connected to the basin.
